13HPD
MERIT® SERIES
Expanded Rating Tables

ENGINEERING DATA

Bulletin No. 210428R
April 2009
Supersedes April 2008

RATINGS — 1.5 TON

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.
Expanded rating tables are sorted by smallest to largest indoor unit model no.

AIR HANDLERS

COOLING CAPACITY - 13HPD-018 with [CB26UH-018-R]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	525	250	18.1	5.3	1.06	.74	.87	.99	17.5	5.1	1.20	.75	.88	1.00	16.9	5.0	1.36	.76	.90	1.00	16.1	4.7	1.55	.78	.93	1.00
	625	295	18.8	5.5	1.07	.77	.92	1.00	18.2	5.3	1.21	.78	.93	1.00	17.5	5.1	1.36	.80	.95	1.00	16.8	4.9	1.56	.82	.98	1.00
	675	320	19.1	5.6	1.06	.78	.94	1.00	18.5	5.4	1.20	.80	.96	1.00	17.8	5.2	1.37	.82	.98	1.00	17.1	5.0	1.56	.84	1.00	1.00
67°F (19°C)	525	250	19.2	5.6	1.07	.59	.71	.83	18.6	5.5	1.21	.60	.72	.85	17.9	5.2	1.37	.60	.74	.87	17.1	5.0	1.55	.61	.75	.89
	625	295	19.9	5.8	1.07	.61	.74	.88	19.2	5.6	1.21	.62	.76	.90	18.5	5.4	1.37	.63	.78	.92	17.7	5.2	1.56	.64	.80	.95
	675	320	20.2	5.9	1.07	.62	.76	.90	19.5	5.7	1.21	.63	.78	.93	18.7	5.5	1.37	.64	.80	.95	17.9	5.2	1.56	.65	.82	.98
71°F (22°C)	525	250	20.4	6.0	1.07	.46	.58	.69	19.6	5.7	1.21	.46	.58	.70	18.9	5.5	1.37	.46	.59	.71	18.1	5.3	1.56	.46	.60	.73
	625	295	21.0	6.2	1.07	.46	.60	.72	20.2	5.9	1.21	.47	.60	.73	19.5	5.7	1.37	.47	.61	.75	18.7	5.5	1.56	.47	.62	.77
	675	320	21.2	6.2	1.07	.47	.61	.74	20.6	6.0	1.21	.47	.61	.75	19.8	5.8	1.37	.47	.62	.77	19.0	5.6	1.57	.47	.64	.79

HEATING CAPACITY - 13HPD-018 with [CB26UH-018-R]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
525	250	20.2	5.9	1.19	15.7	4.6	1.10	10.9	3.2	1.02	7.9	2.3	.92	3.9	1.1	.68
625	295	20.4	6.0	1.13	15.9	4.7	1.05	11.1	3.3	.97	8.1	2.4	.87	4.2	1.2	.63
675	320	20.7	6.1	1.11	16.2	4.7	1.03	11.4	3.3	.94	8.4	2.5	.84	4.5	1.3	.61

HEATING PERFORMANCE at 625 cfm (295 L/s) Indoor Coil Air Volume 13HPD-018 with [CB26UH-018-R]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	1.13	20.4	6.0
60	16	1.11	19.4	5.7
55	13	1.09	18.4	5.4
50	10	1.07	17.3	5.1
47	8	1.06	16.7	4.9
45	7	1.05	15.9	4.7
40	4	1.02	13.9	4.1
35	2	.99	11.8	3.5
30	-1	.98	11.5	3.4
25	-4	.97	11.1	3.3
20	-7	.96	10.8	3.2
17	-8	.95	10.6	3.1
15	-9	.94	10.2	3.0
10	-12	.92	9.1	2.7
5	-15	.87	8.1	2.4
0	-18	.81	7.1	2.1
-5	-21	.75	6.2	1.8
-10	-23	.69	5.2	1.5
-15	-26	.63	4.2	1.2
-20	-29	.57	3.2	.9

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section. Expanded rating tables are sorted by smallest to largest indoor unit model no.

AIR HANDLERS

COOLING CAPACITY - 13HPD-018 with [CB26UH-024-R]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F	620	295	18.8	5.5	1.06	.77	.91	1.00	18.1	5.3	1.20	.78	.93	1.00	17.5	5.1	1.36	.80	.95	1.00	16.8	4.9	1.56	.82	.98	1.00
(17°C)	675	320	19.1	5.6	1.06	.78	.94	1.00	18.5	5.4	1.20	.80	.96	1.00	17.8	5.2	1.37	.82	.98	1.00	17.1	5.0	1.56	.84	1.00	1.00
67°F	620	295	19.9	5.8	1.07	.61	.75	.88	19.2	5.6	1.21	.62	.76	.90	18.5	5.4	1.37	.62	.77	.92	17.7	5.2	1.56	.64	.79	.95
(19°C)	675	320	20.2	5.9	1.07	.62	.76	.90	19.5	5.7	1.21	.63	.78	.93	18.7	5.5	1.37	.64	.80	.95	17.9	5.2	1.56	.65	.82	.98
71°F	620	295	21.0	6.2	1.07	.46	.60	.72	20.2	5.9	1.21	.46	.60	.73	19.5	5.7	1.37	.47	.61	.75	18.6	5.5	1.56	.47	.62	.77
(22°C)	675	320	21.2	6.2	1.07	.47	.61	.74	20.6	6.0	1.21	.47	.61	.75	19.8	5.8	1.37	.47	.62	.77	19.0	5.6	1.57	.47	.64	.79

COOLING CAPACITY - 13HPD-018 with [CB30M-21/26]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F	600	285	19.0	5.6	1.07	.78	.92	1.00	18.3	5.4	1.20	.79	.94	1.00	17.5	5.1	1.37	.80	.96	1.00	16.7	4.9	1.55	.82	.98	1.00
(17°C)	675	320	19.5	5.7	1.07	.80	.96	1.00	18.7	5.5	1.21	.82	.97	1.00	18.0	5.3	1.37	.83	.99	1.00	17.2	5.0	1.56	.86	1.00	1.00
67°F	600	285	20.0	5.9	1.07	.61	.75	.89	19.3	5.7	1.21	.62	.77	.91	18.5	5.4	1.37	.63	.78	.93	17.7	5.2	1.56	.63	.80	.95
(19°C)	675	320	20.4	6.0	1.07	.63	.78	.93	19.7	5.8	1.21	.63	.79	.94	18.9	5.5	1.37	.64	.81	.97	18.0	5.3	1.56	.66	.83	.99
71°F	600	285	21.0	6.2	1.07	.45	.60	.73	20.4	6.0	1.21	.46	.61	.74	19.5	5.7	1.38	.47	.61	.75	18.6	5.5	1.56	.47	.62	.77
(22°C)	675	320	21.6	6.3	1.07	.47	.61	.76	20.8	6.1	1.21	.47	.62	.76	19.9	5.8	1.38	.48	.63	.79	19.0	5.6	1.56	.48	.64	.80

HEATING CAPACITY - 13HPD-018 with [CB26UH-024-R]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
620	295	20.4	6.0	1.13	15.9	4.7	1.05	11.2	3.3	.97	8.2	2.4	.87	4.2	1.2	.63
675	320	20.6	6.0	1.11	16.1	4.7	1.03	11.3	3.3	.94	8.3	2.4	.84	4.3	1.3	.61

HEATING CAPACITY - 13HPD-018 with [CB30M-21/26]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
600	285	20.4	6.0	1.14	15.9	4.7	1.07	11.2	3.3	.99	8.2	2.4	.90	4.2	1.2	.65
675	320	20.6	6.0	1.11	16.1	4.7	1.04	11.3	3.3	.96	8.4	2.5	.87	4.4	1.3	.62

HEATING PERFORMANCE at 675 cfm (320 L/s) Indoor Coil Air Volume 13HPD-018 with [CB26UH-024-R]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	1.13	20.4	6.0
60	16	1.11	19.4	5.7
55	13	1.10	18.4	5.4
50	10	1.08	17.4	5.1
47	8	1.07	16.8	4.9
45	7	1.05	15.9	4.7
40	4	1.02	13.9	4.1
35	2	.99	11.8	3.5
30	-1	.98	11.5	3.4
25	-4	.97	11.2	3.3
20	-7	.96	10.8	3.2
17	-8	.95	10.6	3.1
15	-9	.94	10.2	3.0
10	-12	.92	9.2	2.7
5	-15	.87	8.2	2.4
0	-18	.81	7.2	2.1
-5	-21	.75	6.2	1.8
-10	-23	.69	5.2	1.5
-15	-26	.63	4.2	1.2
-20	-29	.57	3.2	.9

HEATING PERFORMANCE at 600 cfm (285 L/s) Indoor Coil Air Volume 13HPD-018 with [CB30M-21/26]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	1.14	20.4	6.0
60	16	1.13	19.4	5.7
55	13	1.11	18.4	5.4
50	10	1.09	17.4	5.1
47	8	1.08	16.7	4.9
45	7	1.07	15.9	4.7
40	4	1.04	13.9	4.1
35	2	1.00	11.8	3.5
30	-1	1.00	11.5	3.4
25	-4	.99	11.2	3.3
20	-7	.99	10.8	3.2
17	-8	.99	10.6	3.1
15	-9	.98	10.2	3.0
10	-12	.96	9.2	2.7
5	-15	.90	8.2	2.4
0	-18	.84	7.2	2.1
-5	-21	.78	6.2	1.8
-10	-23	.72	5.2	1.5
-15	-26	.65	4.2	1.2
-20	-29	.59	3.2	.9

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section. Expanded rating tables are sorted by smallest to largest indoor unit model no.

AIR HANDLERS

COOLING CAPACITY - 13HPD-024 with [CB26UH-024-R]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	700	330	24.0	7.0	1.53	.74	.87	.99	23.2	6.8	1.72	.75	.89	1.00	22.4	6.6	1.95	.76	.91	1.00	21.2	6.2	2.21	.78	.93	1.00
	825	390	24.8	7.3	1.54	.77	.91	1.00	24.0	7.0	1.73	.78	.93	1.00	23.0	6.7	1.95	.80	.96	1.00	22.0	6.4	2.22	.82	.98	1.00
	900	425	25.2	7.4	1.54	.79	.94	1.00	24.4	7.2	1.74	.80	.96	1.00	23.4	6.9	1.95	.82	.98	1.00	22.4	6.6	2.22	.85	1.00	1.00
67°F (19°C)	700	330	25.4	7.4	1.55	.59	.72	.84	24.6	7.2	1.73	.60	.73	.85	23.6	6.9	1.96	.61	.74	.87	22.6	6.6	2.22	.61	.76	.90
	825	390	26.2	7.7	1.55	.61	.75	.88	25.4	7.4	1.74	.62	.76	.90	24.4	7.2	1.96	.62	.78	.92	23.2	6.8	2.22	.64	.80	.95
	900	425	26.6	7.8	1.56	.62	.77	.91	25.6	7.5	1.75	.63	.78	.93	24.8	7.3	1.97	.64	.80	.95	23.6	6.9	2.23	.65	.82	.98
71°F (22°C)	700	330	26.8	7.9	1.56	.46	.58	.69	26.0	7.6	1.75	.46	.58	.70	25.0	7.3	1.97	.46	.59	.72	23.8	7.0	2.23	.46	.60	.73
	825	390	27.6	8.1	1.57	.46	.60	.72	26.8	7.9	1.75	.47	.60	.74	25.6	7.5	1.98	.47	.61	.75	24.6	7.2	2.24	.47	.63	.77
	900	425	28.0	8.2	1.57	.47	.61	.74	27.0	7.9	1.76	.47	.62	.76	26.0	7.6	1.98	.48	.63	.78	25.0	7.3	2.23	.48	.64	.80

COOLING CAPACITY - 13HPD-024 with [CB30M-21/26]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	700	330	24.2	7.1	1.54	.75	.88	1.00	23.2	6.8	1.73	.75	.90	1.00	22.2	6.5	1.95	.77	.92	1.00	21.2	6.2	2.21	.79	.95	1.00
	800	380	24.8	7.3	1.54	.78	.92	1.00	23.8	7.0	1.73	.79	.94	1.00	22.8	6.7	1.95	.80	.96	1.00	21.8	6.4	2.21	.82	.98	1.00
	900	425	25.4	7.4	1.55	.80	.96	1.00	24.4	7.2	1.73	.82	.98	1.00	23.4	6.9	1.95	.84	.99	1.00	22.2	6.5	2.22	.86	1.00	1.00
67°F (19°C)	700	330	25.4	7.4	1.55	.59	.73	.85	24.6	7.2	1.74	.60	.74	.86	23.6	6.9	1.96	.61	.75	.88	22.4	6.6	2.22	.61	.76	.91
	800	380	26.0	7.6	1.55	.61	.74	.89	25.2	7.4	1.74	.62	.77	.91	24.2	7.1	1.96	.63	.78	.93	23.0	6.7	2.22	.64	.80	.96
	900	425	26.6	7.8	1.56	.63	.78	.93	25.6	7.5	1.75	.64	.80	.95	24.6	7.2	1.96	.65	.81	.97	23.4	6.9	2.23	.66	.83	.99
71°F (22°C)	700	330	26.8	7.9	1.56	.45	.58	.70	25.8	7.6	1.75	.46	.58	.71	24.8	7.3	1.97	.46	.59	.72	23.6	6.9	2.23	.46	.60	.74
	800	380	27.4	8.0	1.56	.46	.60	.72	26.4	7.7	1.75	.46	.60	.74	25.4	7.4	1.97	.47	.62	.76	24.2	7.1	2.23	.47	.63	.78
	900	425	28.0	8.2	1.57	.46	.62	.76	27.0	7.9	1.76	.47	.63		26.0	7.6	1.98	.48	.64	.79	24.6	7.2	2.24	.48	.65	.81

HEATING CAPACITY - 13HPD-024 with [CB26UH-024-R]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
700	330	26.9	7.9	1.58	21.0	6.2	1.52	14.7	4.3	1.45	10.7	3.1	1.30	5.4	1.6	.96
825	390	27.0	7.9	1.51	21.1	6.2	1.45	14.8	4.3	1.39	10.8	3.2	1.24	5.5	1.6	.89
900	425	27.2	8.0	1.48	21.3	6.2	1.42	15.0	4.4	1.35	11.0	3.2	1.20	5.7	1.7	.86

HEATING CAPACITY - 13HPD-024 with [CB30M-21/26]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
700	330	26.9	7.9	1.59	21.0	6.2	1.53	14.7	4.3	1.48	10.7	3.1	1.34	5.4	1.6	.98
800	380	27.0	7.9	1.53	21.1	6.2	1.48	14.9	4.4	1.43	10.8	3.2	1.28	5.5	1.6	.93
900	425	27.3	8.0	1.49	21.4	6.3	1.43	15.2	4.5	1.38	11.1	3.3	1.24	5.8	1.7	.88

HEATING PERFORMANCE at 825 cfm (390 L/s) Indoor Coil Air Volume 13HPD-024 with [CB26UH-024-R]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	1.51	27.0	7.9
60	16	1.49	25.7	7.5
55	13	1.48	24.3	7.1
50	10	1.46	23.0	6.7
47	8	1.45	22.1	6.5
45	7	1.45	21.1	6.2
40	4	1.44	18.5	5.4
35	2	1.43	15.9	4.7
30	-1	1.41	15.3	4.5
25	-4	1.39	14.8	4.3
20	-7	1.36	14.3	4.2
17	-8	1.35	14.0	4.1
15	-9	1.34	13.5	4.0
10	-12	1.32	12.1	3.5
5	-15	1.24	10.8	3.2
0	-18	1.15	9.5	2.8
-5	-21	1.06	8.2	2.4
-10	-23	.98	6.8	2.0
-15	-26	.89	5.5	1.6
-20	-29	.81	4.2	1.2

HEATING PERFORMANCE at 800 cfm (380 L/s) Indoor Coil Air Volume 13HPD-024 with [CB30M-21/26]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	1.53	27.0	7.9
60	16	1.52	25.7	7.5
55	13	1.50	24.3	7.1
50	10	1.49	23.0	6.7
47	8	1.48	22.2	6.5
45	7	1.48	21.1	6.2
40	4	1.47	18.5	5.4
35	2	1.46	15.9	4.7
30	-1	1.44	15.4	4.5
25	-4	1.43	14.9	4.4
20	-7	1.41	14.4	4.2
17	-8	1.39	14.1	4.1
15	-9	1.39	13.5	4.0
10	-12	1.37	12.2	3.6
5	-15	1.28	10.8	3.2
0	-18	1.19	9.5	2.8
-5	-21	1.11	8.2	2.4
-10	-23	1.02	6.9	2.0
-15	-26	.93	5.5	1.6
-20	-29	.84	4.2	1.2

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section. Expanded rating tables are sorted by smallest to largest indoor unit model no.

AIR HANDLERS

COOLING CAPACITY - 13HPD-024 with [CB30M-31]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	700	330	25.4	7.4	1.55	.75	.89	1.00	24.4	7.2	1.74	.76	.91	1.00	23.4	6.9	1.96	.78	.93	1.00	22.2	6.5	2.22	.79	.95	1.00
	800	380	26.2	7.7	1.55	.78	.94	1.00	25.0	7.3	1.74	.79	.96	1.00	24.0	7.0	1.96	.81	.98	1.00	23.0	6.7	2.22	.84	1.00	1.00
	900	425	26.8	7.9	1.56	.82	.98	1.00	25.8	7.6	1.75	.83	1.00	1.00	24.8	7.3	1.97	.85	1.00	1.00	23.8	7.0	2.23	.87	1.00	1.00
67°F (19°C)	700	330	26.8	7.9	1.56	.60	.73	.86	25.8	7.6	1.75	.61	.74	.87	24.8	7.3	1.97	.61	.76	.89	23.6	6.9	2.23	.62	.77	.92
	800	380	27.6	8.1	1.57	.62	.76	.90	26.4	7.7	1.75	.62	.77	.92	25.4	7.4	1.97	.63	.79	.94	24.2	7.1	2.23	.65	.81	.97
	900	425	28.2	8.3	1.57	.63	.79	.95	27.0	7.9	1.76	.65	.81	.97	25.8	7.6	1.98	.66	.82	.99	24.6	7.2	2.23	.66	.85	1.00
71°F (22°C)	700	330	28.2	8.3	1.57	.45	.58	.71	27.2	8.0	1.76	.46	.59	.72	26.0	7.6	1.98	.46	.60	.73	24.8	7.3	2.24	.46	.61	.75
	800	380	29.0	8.5	1.58	.47	.60	.74	27.8	8.1	1.77	.47	.61	.75	26.6	7.8	1.98	.47	.62	.76	25.4	7.4	2.25	.47	.63	.79
	900	425	29.6	8.7	1.59	.47	.62	.77	28.4	8.3	1.77	.47	.63	.80	27.4	8.0	1.99	.48	.65	.80	26.0	7.6	2.25	.48	.66	.84

HEATING CAPACITY - 13HPD-024 with [CB30M-31]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
700	330	26.8	7.9	1.63	20.8	6.1	1.61	14.5	4.2	1.60	10.5	3.1	1.46	5.3	1.6	1.06
800	380	27.0	7.9	1.57	21.0	6.2	1.55	14.7	4.3	1.54	10.7	3.1	1.40	5.5	1.6	1.01
900	425	27.2	8.0	1.52	21.2	6.2	1.50	14.9	4.4	1.49	10.8	3.2	1.35	5.6	1.6	.95

HEATING PERFORMANCE at 800 cfm (380 L/s) Indoor Coil-ir Volume 13HPD-024 with [CB30M-31]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	1.57	27.0	7.9
60	16	1.56	25.7	7.5
55	13	1.56	24.3	7.1
50	10	1.55	22.9	6.7
47	8	1.55	22.1	6.5
45	7	1.55	21.0	6.2
40	4	1.57	18.4	5.4
35	2	1.58	15.7	4.6
30	-1	1.56	15.2	4.5
25	-4	1.54	14.7	4.3
20	-7	1.52	14.2	4.2
17	-8	1.51	13.9	4.1
15	-9	1.51	13.4	3.9
10	-12	1.50	12.0	3.5
5	-15	1.40	10.7	3.1
0	-18	1.30	9.4	2.8
-5	-21	1.20	8.1	2.4
-10	-23	1.10	6.8	2.0
-15	-26	1.01	5.5	1.6
-20	-29	.91	4.2	1.2

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section. Expanded rating tables are sorted by smallest to largest indoor unit model no.

UP-FLOW INDOOR COIL WITH GAS FURNACES

COOLING CAPACITY - 13HPD-024 with [C33-24B + G60UHV-36B-090]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F	825	390	24.2	7.1	1.54	.77	.91	1.00	23.4	6.9	1.73	.78	.93	1.00	22.4	6.6	1.95	.80	.95	1.00	21.4	6.3	2.21	.82	.98	1.00
(17°C)	905	425	24.6	7.2	1.54	.79	.94	1.00	23.8	7.0	1.73	.80	.96	1.00	22.8	6.7	1.95	.82	.98	1.00	21.8	6.4	2.21	.84	1.00	1.00
67°F	825	390	25.4	7.4	1.55	.61	.75	.88	24.4	7.2	1.74	.62	.76	.90	23.4	6.9	1.95	.63	.78	.92	22.4	6.6	2.22	.64	.80	.95
(19°C)	905	425	25.8	7.6	1.55	.62	.77	.91	24.8	7.3	1.74	.63	.78	.93	23.8	7.0	1.96	.64	.80	.95	22.8	6.7	2.22	.65	.82	.97
71°F	825	390	26.4	7.7	1.55	.47	.60	.73	25.6	7.5	1.74	.47	.61	.74	24.6	7.2	1.97	.47	.61	.75	23.4	6.9	2.22	.47	.63	.77
(22°C)	905	425	26.8	7.9	1.56	.47	.61	.75	26.0	7.6	1.75	.47	.62	.76	25.0	7.3	1.97	.48	.63	.78	23.8	7.0	2.23	.48	.64	.80

COOLING CAPACITY - 13HPD-024 with [C33-30A + G60UHV-36A-070]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F	830	390	24.0	7.0	1.55	.77	.91	1.00	23.2	6.8	1.73	.78	.93	1.00	22.4	6.6	1.96	.80	.95	1.00	21.4	6.3	2.23	.82	.98	1.00
(17°C)	915	430	24.4	7.2	1.55	.78	.93	1.00	23.6	6.9	1.74	.80	.95	1.00	22.8	6.7	1.96	.82	.98	1.00	21.8	6.4	2.23	.84	1.00	1.00
67°F	830	390	25.4	7.4	1.55	.61	.74	.87	24.6	7.2	1.75	.62	.76	.89	23.6	6.9	1.97	.63	.77	.92	22.6	6.6	2.23	.64	.79	.94
(19°C)	915	430	25.8	7.6	1.56	.62	.76	.90	25.0	7.3	1.75	.63	.78	.92	24.0	7.0	1.97	.64	.79	.95	23.0	6.7	2.24	.65	.82	.98
71°F	830	390	26.4	7.7	1.56	.47	.60	.72	25.6	7.5	1.75	.47	.61	.74	24.8	7.3	1.98	.47	.62	.75	23.6	6.9	2.24	.48	.63	.77
(22°C)	915	430	27.0	7.9	1.57	.47	.61	.74	26.2	7.7	1.76	.47	.62	.76	25.2	7.4	1.98	.48	.63	.77	24.0	7.0	2.25	.48	.64	.79

HEATING CAPACITY - 13HPD-024 with [C33-24B + G60UHV-36B-090]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
825	390	26.5	7.8	1.71	20.6	6.0	1.62	14.4	4.2	1.53	10.4	3.0	1.35	5.4	1.6	.98
905	425	26.6	7.8	1.67	20.7	6.1	1.58	14.6	4.3	1.49	10.6	3.1	1.31	5.5	1.6	.94

HEATING CAPACITY - 13HPD-024 with [C33-30A + G60UHV-36A-070]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
830	390	26.7	7.8	1.58	20.8	6.1	1.50	14.6	4.3	1.43	10.6	3.1	1.26	5.4	1.6	.91
915	430	26.7	7.8	1.54	20.8	6.1	1.46	14.6	4.3	1.39	10.6	3.1	1.22	5.4	1.6	.88

HEATING PERFORMANCE at 825 cfm (390 L/s) Indoor Coil Air Volume 13HPD-024 with [C33-24B + G60UHV-36B-090]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	1.71	26.5	7.8
60	16	1.68	25.1	7.4
55	13	1.66	23.8	7.0
50	10	1.63	22.4	6.6
47	8	1.62	21.6	6.3
45	7	1.62	20.6	6.0
40	4	1.60	18.0	5.3
35	2	1.59	15.5	4.5
30	-1	1.56	15.0	4.4
25	-4	1.53	14.4	4.2
20	-7	1.50	13.9	4.1
17	-8	1.48	13.6	4.0
15	-9	1.47	13.1	3.8
10	-12	1.44	11.7	3.4
5	-15	1.35	10.4	3.0
0	-18	1.26	9.2	2.7
-5	-21	1.16	7.9	2.3
-10	-23	1.07	6.6	1.9
-15	-26	.98	5.4	1.6
-20	-29	.89	4.1	1.2

HEATING PERFORMANCE at 830 cfm (390 L/s) Indoor Coil Air Volume 13HPD-024 with [C33-30A + G60UHV-36A-070]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	1.58	26.7	7.8
60	16	1.56	25.4	7.4
55	13	1.54	24.0	7.0
50	10	1.52	22.7	6.7
47	8	1.51	21.9	6.4
45	7	1.50	20.8	6.1
40	4	1.49	18.2	5.3
35	2	1.49	15.6	4.6
30	-1	1.46	15.1	4.4
25	-4	1.43	14.6	4.3
20	-7	1.40	14.1	4.1
17	-8	1.38	13.7	4.0
15	-9	1.37	13.2	3.9
10	-12	1.35	11.8	3.5
5	-15	1.26	10.6	3.1
0	-18	1.18	9.3	2.7
-5	-21	1.09	8.0	2.3
-10	-23	1.00	6.7	2.0
-15	-26	.91	5.4	1.6
-20	-29	.83	4.1	1.2

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section. Expanded rating tables are sorted by smallest to largest indoor unit model no.

UP-FLOW INDOOR COIL WITH GAS FURNACES

COOLING CAPACITY - 13HPD-024 with [C33-30B + G60UHV-36B-090]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F	825	390	24.0	7.0	1.54	.77	.91	1.00	23.2	6.8	1.73	.78	.93	1.00	22.4	6.6	1.96	.80	.95	1.00	21.4	6.3	2.23	.82	.98	1.00
(17°C)	905	425	24.4	7.2	1.55	.78	.93	1.00	23.6	6.9	1.74	.80	.95	1.00	22.8	6.7	1.97	.81	.98	1.00	21.8	6.4	2.23	.84	1.00	1.00
67°F	825	390	25.4	7.4	1.55	.61	.74	.87	24.4	7.2	1.75	.62	.76	.89	23.6	6.9	1.97	.63	.77	.91	22.6	6.6	2.23	.64	.79	.94
(19°C)	905	425	25.8	7.6	1.56	.62	.76	.90	24.8	7.3	1.75	.63	.78	.92	24.0	7.0	1.97	.64	.79	.94	22.8	6.7	2.24	.65	.81	.97
71°F	825	390	26.4	7.7	1.56	.47	.60	.72	25.6	7.5	1.75	.47	.61	.74	24.6	7.2	1.98	.47	.62	.75	23.6	6.9	2.24	.48	.63	.77
(22°C)	905	425	27.0	7.9	1.57	.47	.61	.74	26.0	7.6	1.76	.47	.62	.75	25.2	7.4	1.98	.48	.63	.77	24.0	7.0	2.25	.48	.64	.79

COOLING CAPACITY - 13HPD-024 with [C33-30B + G61MPV-36B-045]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F	840	395	24.0	7.0	1.55	.77	.91	1.00	23.2	6.8	1.74	.78	.93	1.00	22.4	6.6	1.96	.80	.95	1.00	21.4	6.3	2.23	.82	.98	1.00
(17°C)	945	445	24.6	7.2	1.55	.79	.94	1.00	23.8	7.0	1.74	.81	.96	1.00	23.0	6.7	1.96	.83	.98	1.00	22.2	6.5	2.23	.85	1.00	1.00
67°F	840	395	25.4	7.4	1.55	.61	.75	.88	24.6	7.2	1.75	.62	.76	.90	23.6	6.9	1.97	.63	.78	.92	22.6	6.6	2.23	.64	.80	.95
(19°C)	945	445	26.0	7.6	1.56	.63	.77	.91	25.0	7.3	1.75	.64	.79	.93	24.2	7.1	1.97	.65	.80	.96	23.0	6.7	2.23	.66	.83	.98
71°F	840	395	26.6	7.8	1.56	.47	.60	.72	25.6	7.5	1.75	.47	.61	.74	24.8	7.3	1.98	.47	.62	.75	23.6	6.9	2.24	.48	.63	.77
(22°C)	945	445	27.2	8.0	1.57	.48	.61	.75	26.2	7.7	1.76	.48	.62	.76	25.2	7.4	1.98	.48	.64	.78	24.2	7.1	2.25	.49	.65	.80

HEATING CAPACITY - 13HPD-024 with [C33-30B + G60UHV-36B-090]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
825	390	26.6	7.8	1.58	20.7	6.1	1.50	14.5	4.2	1.43	10.5	3.1	1.26	5.4	1.6	.92
905	425	26.6	7.8	1.55	20.7	6.1	1.47	14.5	4.2	1.39	10.5	3.1	1.23	5.4	1.6	.88

HEATING CAPACITY - 13HPD-024 with [C33-30B + G61MPV-36B-045]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
840	395	26.8	7.9	1.57	20.9	6.1	1.50	14.6	4.3	1.42	10.6	3.1	1.26	5.4	1.6	.91
945	445	26.9	7.9	1.53	21.0	6.2	1.45	14.8	4.3	1.38	10.7	3.1	1.22	5.6	1.6	.87

HEATING PERFORMANCE at 825 cfm (390 L/s) Indoor Coil Air Volume 13HPD-024 with [C33-30B + G60UHV-36B-090]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	1.58	26.6	7.8
60	16	1.56	25.3	7.4
55	13	1.54	23.9	7.0
50	10	1.52	22.6	6.6
47	8	1.51	21.8	6.4
45	7	1.50	20.7	6.1
40	4	1.49	18.2	5.3
35	2	1.49	15.6	4.6
30	-1	1.46	15.0	4.4
25	-4	1.43	14.5	4.2
20	-7	1.40	14.0	4.1
17	-8	1.38	13.7	4.0
15	-9	1.37	13.1	3.8
10	-12	1.35	11.8	3.5
5	-15	1.26	10.5	3.1
0	-18	1.18	9.2	2.7
-5	-21	1.09	7.9	2.3
-10	-23	1.00	6.7	2.0
-15	-26	.92	5.4	1.6
-20	-29	.83	4.1	1.2

HEATING PERFORMANCE at 840 cfm (395 L/s) Indoor Coil Air Volume 13HPD-024 with [C33-30B + G61MPV-36B-045]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	1.57	26.8	7.9
60	16	1.55	25.4	7.4
55	13	1.53	24.1	7.1
50	10	1.51	22.7	6.7
47	8	1.50	21.9	6.4
45	7	1.50	20.9	6.1
40	4	1.49	18.3	5.4
35	2	1.48	15.7	4.6
30	-1	1.45	15.1	4.4
25	-4	1.42	14.6	4.3
20	-7	1.39	14.1	4.1
17	-8	1.38	13.8	4.0
15	-9	1.37	13.2	3.9
10	-12	1.35	11.9	3.5
5	-15	1.26	10.6	3.1
0	-18	1.17	9.3	2.7
-5	-21	1.09	8.0	2.3
-10	-23	1.00	6.7	2.0
-15	-26	.91	5.4	1.6
-20	-29	.83	4.1	1.2

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section. Expanded rating tables are sorted by smallest to largest indoor unit model no.

UP-FLOW INDOOR COIL WITH GAS FURNACES

COOLING CAPACITY - 13HPD-024 with [C33-30B + G61MPV-36B-070] [C33-30B + G71MPP-36B-070]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F	830	390	24.0	7.0	1.55	.77	.91	1.00	23.2	6.8	1.73	.78	.93	1.00	22.4	6.6	1.96	.80	.95	1.00	21.4	6.3	2.23	.82	.98	1.00
(17°C)	930	440	24.6	7.2	1.55	.79	.94	1.00	23.8	7.0	1.74	.80	.96	1.00	22.8	6.7	1.96	.82	.98	1.00	22.0	6.4	2.23	.84	1.00	1.00
67°F	830	390	25.4	7.4	1.55	.61	.74	.87	24.6	7.2	1.75	.62	.76	.89	23.6	6.9	1.97	.63	.77	.92	22.6	6.6	2.23	.64	.79	.94
(19°C)	930	440	25.8	7.6	1.56	.62	.77	.91	25.0	7.3	1.75	.63	.78	.93	24.0	7.0	1.97	.64	.80	.95	23.0	6.7	2.24	.66	.82	.98
71°F	830	390	26.4	7.7	1.56	.47	.60	.72	25.6	7.5	1.75	.47	.61	.74	24.8	7.3	1.98	.47	.62	.75	23.6	6.9	2.24	.48	.63	.77
(22°C)	930	440	27.0	7.9	1.57	.47	.61	.74	26.2	7.7	1.76	.48	.62	.76	25.2	7.4	1.98	.48	.63	.78	24.2	7.1	2.25	.49	.64	.80

HEATING CAPACITY - 13HPD-024 with [C33-30B + G61MPV-36B-070] [C33-30B + G71MPP-36B-070]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
830	390	26.7	7.8	1.58	20.8	6.1	1.50	14.6	4.3	1.43	10.6	3.1	1.26	5.4	1.6	.91
930	440	26.8	7.9	1.54	20.9	6.1	1.46	14.7	4.3	1.38	10.6	3.1	1.22	5.5	1.6	.87

HEATING PERFORMANCE at 830 cfm (390 L/s) Indoor Coil Air Volume 13HPD-024 with [C33-30B + G61MPV-36B-070] [C33-30B + G71MPP-36B-070]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	1.58	26.7	7.8
60	16	1.56	25.4	7.4
55	13	1.54	24.0	7.0
50	10	1.52	22.7	6.7
47	8	1.51	21.9	6.4
45	7	1.50	20.8	6.1
40	4	1.49	18.2	5.3
35	2	1.49	15.6	4.6
30	-1	1.46	15.1	4.4
25	-4	1.43	14.6	4.3
20	-7	1.40	14.1	4.1
17	-8	1.38	13.7	4.0
15	-9	1.37	13.2	3.9
10	-12	1.35	11.8	3.5
5	-15	1.26	10.6	3.1
0	-18	1.18	9.3	2.7
-5	-21	1.09	8.0	2.3
-10	-23	1.00	6.7	2.0
-15	-26	.91	5.4	1.6
-20	-29	.83	4.1	1.2

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section. Expanded rating tables are sorted by smallest to largest indoor unit model no.

DOWN-FLOW INDOOR COILS WITH GAS FURNACES

COOLING CAPACITY - 13HPD-024 with [CR33-24A-F + G60DFV-36A-070]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F	875	415	25.0	7.3	1.55	.79	.94	1.00	24.0	7.0	1.74	.80	.96	1.00	23.2	6.8	1.96	.82	.98	1.00	22.0	6.4	2.23	.84	.99	1.00
(17°C)	1010	475	25.6	7.5	1.55	.82	.97	1.00	24.6	7.2	1.75	.84	.99	1.00	23.8	7.0	1.97	.86	1.00	1.00	22.8	6.7	2.24	.88	1.00	1.00
67°F	875	415	26.2	7.7	1.56	.62	.77	.91	25.2	7.4	1.75	.63	.78	.93	24.2	7.1	1.97	.64	.80	.95	23.2	6.8	2.24	.65	.82	.97
(19°C)	1010	475	26.8	7.9	1.56	.64	.80	.95	25.8	7.6	1.76	.65	.82	.97	24.8	7.3	1.97	.66	.84	.99	23.6	6.9	2.24	.68	.86	1.00
71°F	875	415	27.4	8.0	1.57	.47	.61	.75	26.6	7.8	1.76	.47	.62	.76	25.6	7.5	1.99	.48	.63	.77	24.4	7.2	2.25	.47	.64	.80
(22°C)	1010	475	28.0	8.2	1.58	.47	.63	.78	27.0	7.9	1.77	.47	.64	.80	26.0	7.6	1.99	.49	.65	.82	24.8	7.3	2.25	.49	.67	.84

COOLING CAPACITY - 13HPD-024 with [CR33-24B-F + G61MPV-36B-045]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F	840	395	24.8	7.3	1.55	.78	.93	1.00	23.8	7.0	1.74	.79	.94	1.00	23.0	6.7	1.97	.81	.96	1.00	21.8	6.4	2.23	.83	.99	1.00
(17°C)	945	445	25.4	7.4	1.55	.81	.96	1.00	24.4	7.2	1.74	.82	.98	1.00	23.4	6.9	1.97	.84	.99	1.00	22.4	6.6	2.23	.87	1.00	1.00
67°F	840	395	26.0	7.6	1.56	.62	.76	.90	25.0	7.3	1.75	.62	.77	.91	24.0	7.0	1.97	.63	.79	.93	23.0	6.7	2.24	.64	.81	.96
(19°C)	945	445	26.6	7.8	1.56	.63	.79	.93	25.6	7.5	1.75	.64	.80	.95	24.6	7.2	1.98	.65	.82	.97	23.4	6.9	2.24	.66	.84	.99
71°F	840	395	27.2	8.0	1.57	.47	.60	.74	26.4	7.7	1.76	.47	.61	.75	25.4	7.4	1.98	.47	.62	.77	24.2	7.1	2.25	.47	.63	.79
(22°C)	945	445	27.8	8.1	1.57	.47	.62	.76	26.8	7.9	1.76	.47	.63	.78	25.8	7.6	1.99	.48	.64	.80	24.6	7.2	2.25	.48	.65	.82

HEATING CAPACITY - 13HPD-024 with [CR33-24A-F + G60DFV-36A-070]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
875	415	26.8	7.9	1.51	20.9	6.1	1.44	14.7	4.3	1.37	10.7	3.1	1.21	5.5	1.6	.88
1010	475	27.1	7.9	1.46	21.2	6.2	1.39	15.0	4.4	1.32	10.9	3.2	1.17	5.7	1.7	.83

HEATING CAPACITY - 13HPD-024 with [CR33-24B-F + G61MPV-36B-045]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
840	395	26.9	7.9	1.53	20.9	6.1	1.45	14.7	4.3	1.38	10.7	3.1	1.22	5.5	1.6	.88
945	445	27.0	7.9	1.49	21.1	6.2	1.41	14.9	4.4	1.33	10.9	3.2	1.18	5.6	1.6	.84

HEATING PERFORMANCE at 875 cfm (415 L/s) Indoor Coil Air Volume 13HPD-024 with [CR33-24A-F + G60DFV-36A-070]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	1.51	26.8	7.9
60	16	1.49	25.5	7.5
55	13	1.47	24.1	7.1
50	10	1.45	22.8	6.7
47	8	1.44	22.0	6.4
45	7	1.44	20.9	6.1
40	4	1.43	18.3	5.4
35	2	1.42	15.8	4.6
30	-1	1.39	15.2	4.5
25	-4	1.37	14.7	4.3
20	-7	1.34	14.2	4.2
17	-8	1.32	13.9	4.1
15	-9	1.32	13.3	3.9
10	-12	1.30	12.0	3.5
5	-15	1.21	10.7	3.1
0	-18	1.13	9.4	2.8
-5	-21	1.05	8.1	2.4
-10	-23	.96	6.8	2.0
-15	-26	.88	5.5	1.6
-20	-29	.80	4.2	1.2

HEATING PERFORMANCE at 840 cfm (395 L/s) Indoor Coil Air Volume 13HPD-024 with [CR33-24B-F + G61MPV-36B-045]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	1.53	26.9	7.9
60	16	1.51	25.5	7.5
55	13	1.49	24.1	7.1
50	10	1.47	22.8	6.7
47	8	1.46	22.0	6.4
45	7	1.45	20.9	6.1
40	4	1.44	18.4	5.4
35	2	1.44	15.8	4.6
30	-1	1.41	15.2	4.5
25	-4	1.38	14.7	4.3
20	-7	1.35	14.2	4.2
17	-8	1.33	13.9	4.1
15	-9	1.32	13.3	3.9
10	-12	1.30	12.0	3.5
5	-15	1.22	10.7	3.1
0	-18	1.14	9.4	2.8
-5	-21	1.05	8.1	2.4
-10	-23	.97	6.8	2.0
-15	-26	.88	5.5	1.6
-20	-29	.80	4.2	1.2

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section. Expanded rating tables are sorted by smallest to largest indoor unit model no.

DOWN-FLOW INDOOR COILS WITH GAS FURNACES

COOLING CAPACITY - 13HPD-024 with [CR33-24B-F + G61MPV-36B-070] [CR33-24B-F + G71MPP-36B-070]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F	830	390	24.6	7.2	1.55	.78	.92	1.00	23.8	7.0	1.74	.79	.94	1.00	22.8	6.7	1.97	.81	.96	1.00	21.8	6.4	2.23	.83	.98	1.00
(17°C)	930	440	25.2	7.4	1.55	.80	.95	1.00	24.4	7.2	1.74	.82	.97	1.00	23.4	6.9	1.97	.84	.99	1.00	22.2	6.5	2.23	.86	1.00	1.00
67°F	830	390	26.0	7.6	1.56	.61	.75	.89	25.0	7.3	1.75	.62	.77	.91	24.0	7.0	1.97	.63	.79	.93	23.0	6.7	2.24	.64	.81	.95
(19°C)	930	440	26.4	7.7	1.56	.63	.78	.93	25.4	7.4	1.75	.64	.80	.94	24.4	7.2	1.98	.65	.81	.96	23.2	6.8	2.24	.66	.84	.99
71°F	830	390	27.2	8.0	1.57	.47	.60	.73	26.2	7.7	1.76	.47	.61	.74	25.2	7.4	1.98	.47	.62	.76	24.2	7.1	2.25	.47	.63	.78
(22°C)	930	440	27.8	8.1	1.57	.46	.62	.76	26.8	7.9	1.76	.47	.63	.78	25.8	7.6	1.99	.48	.64	.80	24.6	7.2	2.25	.48	.65	.81

HEATING CAPACITY - 13HPD-024 with [CR33-24B-F + G61MPV-36B-070] [CR33-24B-F + G71MPP-36B-070]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil														
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
830	390	26.7	7.8	1.53	20.8	6.1	1.46	14.7	4.3	1.38	10.6	3.1	1.22	5.4	1.6	.88
930	440	27.0	7.9	1.49	21.1	6.2	1.42	14.9	4.4	1.34	10.9	3.2	1.18	5.7	1.7	.84

HEATING PERFORMANCE at 830 cfm (390 L/s) Indoor Coil Air Volume 13HPD-024 with [CR33-24B-F + G61MPV-36B-070] [CR33-24B-F + G71MPP-36B-070]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	1.53	26.7	7.8
60	16	1.51	25.3	7.4
55	13	1.49	24.0	7.0
50	10	1.47	22.7	6.7
47	8	1.46	21.9	6.4
45	7	1.46	20.8	6.1
40	4	1.45	18.3	5.4
35	2	1.44	15.7	4.6
30	-1	1.41	15.2	4.5
25	-4	1.38	14.7	4.3
20	-7	1.35	14.1	4.1
17	-8	1.33	13.8	4.0
15	-9	1.33	13.3	3.9
10	-12	1.30	11.9	3.5
5	-15	1.22	10.6	3.1
0	-18	1.14	9.3	2.7
-5	-21	1.05	8.0	2.3
-10	-23	.97	6.7	2.0
-15	-26	.88	5.4	1.6
-20	-29	.80	4.1	1.2

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section. Expanded rating tables are sorted by smallest to largest indoor unit model no.

HORIZONTAL INDOOR COILS WITH GAS FURNACES

COOLING CAPACITY - 13HPD-024 with [CH23-21 + G60UHV-36B-090]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F	825	390	22.8	6.7	1.54	.76	.89	1.00	22.2	6.5	1.73	.77	.91	1.00	21.2	6.2	1.95	.78	.93	1.00	20.4	6.0	2.22	.80	.96	1.00
(17°C)	905	425	23.4	6.9	1.54	.77	.92	1.00	22.6	6.6	1.73	.79	.94	1.00	21.6	6.3	1.96	.80	.96	1.00	20.8	6.1	2.23	.82	.98	1.00
67°F	825	390	24.2	7.1	1.54	.60	.74	.86	23.6	6.9	1.74	.61	.75	.88	22.6	6.6	1.96	.62	.76	.90	21.6	6.3	2.23	.63	.78	.93
(19°C)	905	425	24.8	7.3	1.55	.62	.75	.89	24.0	7.0	1.74	.62	.77	.90	23.0	6.7	1.96	.63	.78	.93	22.0	6.4	2.23	.65	.80	.96
71°F	825	390	25.6	7.5	1.55	.45	.59	.72	24.6	7.2	1.74	.47	.60	.73	23.8	7.0	1.97	.47	.61	.74	22.8	6.7	2.24	.48	.62	.76
(22°C)	905	425	26.0	7.6	1.56	.46	.60	.73	25.2	7.4	1.75	.47	.61	.75	24.2	7.1	1.97	.47	.62	.76	23.2	6.8	2.24	.48	.64	.78

COOLING CAPACITY - 13HPD-024 with [CH23-31 + G60UHV-36B-090]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F	825	390	23.2	6.8	1.54	.76	.90	1.00	22.4	6.6	1.73	.77	.91	1.00	21.6	6.3	1.96	.79	.94	1.00	20.6	6.0	2.22	.81	.96	1.00
(17°C)	905	425	23.6	6.9	1.54	.78	.92	1.00	22.8	6.7	1.73	.79	.94	1.00	22.0	6.4	1.96	.81	.96	1.00	21.2	6.2	2.23	.83	.98	1.00
67°F	825	390	24.6	7.2	1.55	.61	.74	.87	23.8	7.0	1.74	.61	.75	.88	22.8	6.7	1.97	.62	.77	.91	21.8	6.4	2.23	.63	.79	.93
(19°C)	905	425	25.0	7.3	1.55	.62	.76	.89	24.2	7.1	1.74	.63	.77	.91	23.2	6.8	1.97	.63	.79	.93	22.2	6.5	2.23	.65	.81	.96
71°F	825	390	25.8	7.6	1.56	.46	.60	.72	25.0	7.3	1.75	.47	.60	.73	24.0	7.0	1.97	.47	.61	.75	23.0	6.7	2.24	.48	.62	.76
(22°C)	905	425	26.4	7.7	1.56	.46	.61	.74	25.4	7.4	1.75	.47	.62	.75	24.6	7.2	1.98	.47	.62	.77	23.4	6.9	2.24	.47	.64	.79

HEATING CAPACITY - 13HPD-024 with [CH23-21 + G60UHV-36B-090]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil													
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
825	390	26.5	7.8	1.69	20.7	6.1	1.59	14.5	4.2	1.50	10.5	3.1	1.32	5.4	1.6	.96
905	425	26.7	7.8	1.65	20.8	6.1	1.55	14.6	4.3	1.46	10.6	3.1	1.28	5.5	1.6	.92

HEATING CAPACITY - 13HPD-024 with [CH23-31 + G60UHV-36B-090]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil													
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
825	390	26.7	7.8	1.63	20.8	6.1	1.54	14.5	4.2	1.45	10.5	3.1	1.28	5.4	1.6	.93
905	425	26.8	7.9	1.59	20.9	6.1	1.50	14.6	4.3	1.41	10.6	3.1	1.24	5.5	1.6	.89

HEATING PERFORMANCE at 825 cfm (390 L/s) Indoor Coil Air Volume 13HPD-024 with [CH23-21 + G60UHV-36B-090]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	1.69	26.5	7.8
60	16	1.66	25.2	7.4
55	13	1.64	23.8	7.0
50	10	1.61	22.5	6.6
47	8	1.60	21.7	6.4
45	7	1.59	20.7	6.1
40	4	1.58	18.1	5.3
35	2	1.56	15.5	4.5
30	-1	1.53	15.0	4.4
25	-4	1.50	14.5	4.2
20	-7	1.46	14.0	4.1
17	-8	1.44	13.7	4.0
15	-9	1.43	13.1	3.8
10	-12	1.41	11.8	3.5
5	-15	1.32	10.5	3.1
0	-18	1.23	9.2	2.7
-5	-21	1.14	7.9	2.3
-10	-23	1.05	6.7	2.0
-15	-26	.96	5.4	1.6
-20	-29	.87	4.1	1.2

HEATING PERFORMANCE at 825 cfm (390 L/s) Indoor Coil Air Volume 13HPD-024 with [CH23-31 + G60UHV-36B-090]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	1.63	26.7	7.8
60	16	1.61	25.3	7.4
55	13	1.58	24.0	7.0
50	10	1.56	22.6	6.6
47	8	1.54	21.8	6.4
45	7	1.54	20.8	6.1
40	4	1.53	18.2	5.3
35	2	1.52	15.6	4.6
30	-1	1.48	15.0	4.4
25	-4	1.45	14.5	4.2
20	-7	1.42	14.0	4.1
17	-8	1.40	13.7	4.0
15	-9	1.39	13.1	3.8
10	-12	1.36	11.8	3.5
5	-15	1.28	10.5	3.1
0	-18	1.19	9.2	2.7
-5	-21	1.10	7.9	2.3
-10	-23	1.01	6.7	2.0
-15	-26	.93	5.4	1.6
-20	-29	.84	4.1	1.2

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section. Expanded rating tables are sorted by smallest to largest indoor unit model no.

HORIZONTAL INDOOR COILS WITH GAS FURNACES

COOLING CAPACITY - 13HPD-024 with [CH33-24/30A-2F + G60UHV-36A-070]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	830	390	24.4	7.2	1.55	.77	.92	1.00	23.6	6.9	1.74	.79	.94	1.00	22.6	6.6	1.96	.80	.96	1.00	21.6	6.3	2.23	.82	.98	1.00
	915	430	25.0	7.3	1.55	.79	.95	1.00	24.0	7.0	1.74	.81	.97	1.00	23.0	6.7	1.97	.83	.99	1.00	22.0	6.4	2.23	.85	1.00	1.00
67°F (19°C)	830	390	25.6	7.5	1.55	.61	.75	.89	24.8	7.3	1.74	.62	.77	.91	23.8	7.0	1.97	.63	.78	.93	22.6	6.6	2.24	.64	.80	.95
	915	430	26.0	7.6	1.56	.62	.77	.91	25.2	7.4	1.75	.63	.79	.93	24.2	7.1	1.97	.64	.80	.96	23.0	6.7	2.24	.65	.82	.98
71°F (22°C)	830	390	26.8	7.9	1.56	.47	.60	.73	25.8	7.6	1.75	.47	.61	.74	24.8	7.3	1.98	.47	.62	.76	23.8	7.0	2.24	.48	.63	.78
	915	430	27.2	8.0	1.57	.47	.61	.75	26.2	7.7	1.76	.47	.62	.77	25.2	7.4	1.98	.48	.63	.78	24.2	7.1	2.25	.48	.64	.80

HEATING CAPACITY - 13HPD-024 with [CH33-24/30A-2F + G60UHV-36A-070]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
830	390	26.7	7.8	1.64	20.8	6.1	1.56	14.6	4.3	1.49	10.6	3.1	1.33	5.4	1.6	.96
915	430	26.8	7.9	1.60	20.9	6.1	1.52	14.6	4.3	1.45	10.6	3.1	1.29	5.5	1.6	.92

HEATING PERFORMANCE at 830 cfm (390 L/s) Indoor Coil Air Volume 13HPD-024 with [CH33-24/30A-2F + G60UHV-36A-070]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	1.64	26.7	7.8
60	16	1.62	25.3	7.4
55	13	1.60	24.0	7.0
50	10	1.58	22.6	6.6
47	8	1.57	21.8	6.4
45	7	1.56	20.8	6.1
40	4	1.56	18.2	5.3
35	2	1.55	15.6	4.6
30	-1	1.52	15.1	4.4
25	-4	1.49	14.6	4.3
20	-7	1.46	14.1	4.1
17	-8	1.45	13.7	4.0
15	-9	1.44	13.2	3.9
10	-12	1.42	11.9	3.5
5	-15	1.33	10.6	3.1
0	-18	1.24	9.3	2.7
-5	-21	1.14	8.0	2.3
-10	-23	1.05	6.7	2.0
-15	-26	.96	5.4	1.6
-20	-29	.87	4.1	1.2

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

AIR HANDLERS

COOLING CAPACITY - 13HPD-030 with [CB26UH-030-R]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	875	415	30.4	8.9	2.00	.75	.88	1.00	29.4	8.6	2.23	.76	.90	1.00	28.2	8.3	2.49	.78	.93	1.00	26.8	7.9	2.79	.79	.95	1.00
	1000	470	31.2	9.1	2.00	.77	.92	1.00	30.2	8.9	2.24	.79	.94	1.00	29.0	8.5	2.50	.81	.97	1.00	27.6	8.1	2.80	.83	.99	1.00
	1125	530	31.8	9.3	2.01	.80	.95	1.00	30.8	9.0	2.25	.82	.98	1.00	29.8	8.7	2.51	.84	1.00	1.00	28.6	8.4	2.81	.86	1.00	1.00
67°F (19°C)	875	415	32.2	9.4	2.02	.60	.72	.84	31.2	9.1	2.25	.60	.74	.87	30.0	8.8	2.51	.61	.75	.89	28.8	8.4	2.81	.62	.77	.91
	1000	470	33.0	9.7	2.02	.61	.75	.88	32.0	9.4	2.26	.62	.76	.91	30.8	9.0	2.52	.63	.78	.93	29.4	8.6	2.82	.64	.80	.96
	1125	530	33.6	9.8	2.03	.62	.77	.92	32.6	9.6	2.27	.64	.79	.94	31.4	9.2	2.53	.65	.81	.97	30.0	8.8	2.82	.66	.84	1.00
71°F (22°C)	875	415	33.8	9.9	2.03	.46	.58	.70	32.8	9.6	2.27	.45	.59	.71	31.8	9.3	2.53	.46	.60	.73	30.6	9.0	2.83	.46	.61	.74
	1000	470	34.8	10.2	2.04	.47	.60	.72	33.8	9.9	2.28	.47	.61	.74	32.6	9.6	2.54	.47	.62	.76	31.4	9.2	2.84	.47	.63	.78
	1125	530	35.4	10.4	2.05	.47	.61	.75	34.4	10.1	2.29	.47	.62	.77	33.2	9.7	2.55	.48	.63	.79	32.0	9.4	2.84	.48	.65	.81

COOLING CAPACITY - 13HPD-030 with [CB27UH-030]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	800	380	29.8	8.7	1.98	.74	.88	1.00	28.6	8.4	2.21	.75	.90	1.00	27.4	8.0	2.48	.77	.92	1.00	26.0	7.6	2.78	.79	.94	1.00
	1000	470	31.2	9.1	1.99	.79	.95	1.00	30.0	8.8	2.23	.81	.97	1.00	28.8	8.4	2.49	.83	.99	1.00	27.4	8.0	2.79	.85	1.00	1.00
67°F (19°C)	800	380	31.6	9.3	2.00	.59	.72	.84	30.4	8.9	2.23	.59	.73	.86	29.2	8.6	2.50	.60	.74	.88	27.8	8.1	2.79	.61	.76	.91
	1000	470	33.0	9.7	2.01	.62	.77	.91	31.8	9.3	2.25	.63	.78	.94	30.4	8.9	2.51	.63	.80	.96	29.0	8.5	2.80	.65	.82	.98
71°F (22°C)	800	380	33.4	9.8	2.02	.45	.58	.70	32.2	9.4	2.25	.45	.58	.70	30.8	9.0	2.51	.45	.59	.72	29.4	8.6	2.81	.45	.60	.73
	1000	470	34.8	10.2	2.03	.47	.61	.74	33.6	9.8	2.27	.47	.61	.76	32.2	9.4	2.53	.47	.62	.78	30.8	9.0	2.82	.47	.64	.80

HEATING CAPACITY - 13HPD-030 with [CB26UH-030-R]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
875	415	35.0	10.3	2.15	27.0	7.9	2.00	18.5	5.4	1.83	13.7	4.0	1.66	6.9	2.0	1.23
1000	470	35.1	10.3	2.08	27.1	7.9	1.93	18.6	5.5	1.76	13.8	4.0	1.59	7.1	2.1	1.16
1125	530	35.5	10.4	2.03	27.5	8.1	1.88	18.9	5.5	1.71	14.1	4.1	1.54	7.4	2.2	1.11

HEATING CAPACITY - 13HPD-030 with [CB27UH-030]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
800	380	34.3	10.1	2.14	26.3	7.7	2.10	17.7	5.2	2.05	12.9	3.8	1.95	6.4	1.9	1.43
1000	470	34.7	10.2	2.02	26.7	7.8	1.98	18.1	5.3	1.93	13.3	3.9	1.83	6.9	2.0	1.31

HEATING PERFORMANCE at 1000 cfm (470 L/s) Indoor Coil Air Volume 13HPD-030 with [CB26UH-030-R]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.08	35.1	10.3
60	16	2.05	33.3	9.8
55	13	2.01	31.6	9.3
50	10	1.98	29.8	8.7
47	8	1.96	28.7	8.4
45	7	1.93	27.1	7.9
40	4	1.85	23.2	6.8
35	2	1.78	19.4	5.7
30	-1	1.77	19.0	5.6
25	-4	1.76	18.6	5.5
20	-7	1.75	18.2	5.3
17	-8	1.75	18.0	5.3
15	-9	1.73	17.3	5.1
10	-12	1.70	15.5	4.5
5	-15	1.59	13.8	4.0
0	-18	1.48	12.1	3.5
-5	-21	1.37	10.4	3.0
-10	-23	1.26	8.8	2.6
-15	-26	1.16	7.1	2.1
-20	-29	1.05	5.4	1.6

HEATING PERFORMANCE at 1000 cfm (470 L/s) Indoor Coil Air Volume 13HPD-030 with [CB27UH-030]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.02	34.7	10.2
60	16	2.02	32.9	9.6
55	13	2.01	31.1	9.1
50	10	2.01	29.3	8.6
47	8	2.00	28.3	8.3
45	7	1.98	26.7	7.8
40	4	1.94	22.8	6.7
35	2	1.89	18.9	5.5
30	-1	1.91	18.5	5.4
25	-4	1.93	18.1	5.3
20	-7	1.96	17.7	5.2
17	-8	1.97	17.5	5.1
15	-9	1.97	16.7	4.9
10	-12	1.96	14.9	4.4
5	-15	1.83	13.3	3.9
0	-18	1.70	11.7	3.4
-5	-21	1.57	10.1	3.0
-10	-23	1.44	8.5	2.5
-15	-26	1.31	6.9	2.0
-20	-29	1.18	5.2	1.5

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

AIR HANDLERS

COOLING CAPACITY - 13HPD-030 with [CB27UH-036]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	840	395	30.2	8.9	1.98	.75	.89	1.00	29.0	8.5	2.22	.76	.91	1.00	27.6	8.1	2.48	.78	.94	1.00	26.2	7.7	2.78	.80	.96	1.00
	1000	470	31.2	9.1	1.99	.79	.95	1.00	30.0	8.8	2.23	.81	.97	1.00	28.8	8.4	2.49	.83	.99	1.00	27.4	8.0	2.79	.85	1.00	1.00
67°F (19°C)	840	395	32.0	9.4	2.00	.60	.73	.86	30.8	9.0	2.24	.60	.74	.87	29.4	8.6	2.50	.61	.75	.90	28.0	8.2	2.79	.62	.77	.92
	1000	470	33.0	9.7	2.01	.62	.77	.91	31.8	9.3	2.25	.63	.78	.94	30.4	8.9	2.51	.63	.80	.96	29.0	8.5	2.80	.65	.82	.98
71°F (22°C)	840	395	33.6	9.8	2.02	.46	.58	.71	32.4	9.5	2.26	.46	.59	.72	31.2	9.1	2.52	.45	.60	.73	29.8	8.7	2.81	.46	.60	.75
	1000	470	34.8	10.2	2.03	.47	.61	.74	33.6	9.8	2.27	.47	.61	.76	32.2	9.4	2.53	.47	.62	.78	30.8	9.0	2.82	.47	.64	.80

COOLING CAPACITY - 13HPD-030 with [CB30M-31]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	875	415	30.2	8.9	1.99	.76	.90	1.00	29.0	8.5	2.23	.77	.92	1.00	27.8	8.1	2.49	.79	.95	1.00	26.4	7.7	2.78	.81	.97	1.00
	1000	470	31.0	9.1	2.00	.79	.94	1.00	29.8	8.7	2.24	.80	.97	1.00	28.6	8.4	2.50	.82	.98	1.00	27.2	8.0	2.79	.84	1.00	1.00
	1115	525	31.6	9.3	2.01	.82	.97	1.00	30.6	9.0	2.24	.84	.99	1.00	29.2	8.6	2.50	.85	1.00	1.00	28.0	8.2	2.80	.88	1.00	1.00
67°F (19°C)	875	415	32.0	9.4	2.01	.60	.74	.87	30.8	9.0	2.25	.61	.75	.89	29.6	8.7	2.51	.61	.76	.91	28.0	8.2	2.80	.62	.78	.94
	1000	470	32.8	9.6	2.02	.62	.77	.91	31.6	9.3	2.26	.63	.78	.93	30.4	8.9	2.52	.63	.80	.96	28.8	8.4	2.81	.65	.82	.98
	1115	525	33.4	9.8	2.03	.63	.79	.95	32.2	9.4	2.27	.64	.81	.97	30.8	9.0	2.52	.66	.83	.99	29.4	8.6	2.81	.67	.85	1.00
71°F (22°C)	875	415	33.8	9.9	2.03	.46	.59	.71	32.4	9.5	2.27	.46	.59	.73	31.2	9.1	2.53	.45	.60	.74	29.8	8.7	2.82	.46	.61	.76
	1000	470	34.6	10.1	2.04	.46	.60	.74	33.4	9.8	2.28	.47	.61	.76	32.0	9.4	2.54	.47	.62	.77	30.6	9.0	2.83	.47	.63	.79
	1115	525	35.2	10.3	2.05	.47	.62	.77	34.0	10.0	2.28	.48	.63	.79	32.6	9.6	2.54	.48	.64	.81	31.0	9.1	2.83	.48	.66	.83

HEATING CAPACITY - 13HPD-030 with [CB27UH-036]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
840	395	34.5	10.1	2.11	26.5	7.8	2.07	17.9	5.2	2.01	13.1	3.8	1.91	6.7	2.0	1.39
1000	470	34.7	10.2	2.02	26.6	7.8	1.98	18.0	5.3	1.93	13.3	3.9	1.83	6.8	2.0	1.31

HEATING CAPACITY - 13HPD-030 with [CB30M-31]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
875	415	34.8	10.2	2.08	26.8	7.9	2.04	18.2	5.3	1.99	13.4	3.9	1.90	6.8	2.0	1.38
1000	470	35.0	10.3	2.02	27.0	7.9	1.98	18.4	5.4	1.93	13.7	4.0	1.84	7.0	2.1	1.32
1115	525	35.3	10.3	1.98	27.3	8.0	1.94	18.7	5.5	1.88	14.0	4.1	1.79	7.3	2.1	1.27

HEATING PERFORMANCE at 1000 cfm (470 L/s) Indoor Coil Air Volume 13HPD-030 with [CB27UH-036]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.02	34.7	10.2
60	16	2.02	32.9	9.6
55	13	2.01	31.1	9.1
50	10	2.01	29.3	8.6
47	8	2.00	28.2	8.3
45	7	1.98	26.6	7.8
40	4	1.94	22.7	6.7
35	2	1.89	18.8	5.5
30	-1	1.91	18.4	5.4
25	-4	1.93	18.0	5.3
20	-7	1.96	17.6	5.2
17	-8	1.97	17.4	5.1
15	-9	1.97	16.7	4.9
10	-12	1.96	14.9	4.4
5	-15	1.83	13.3	3.9
0	-18	1.70	11.7	3.4
-5	-21	1.57	10.1	3.0
-10	-23	1.44	8.4	2.5
-15	-26	1.31	6.8	2.0
-20	-29	1.18	5.2	1.5

HEATING PERFORMANCE at 1000 cfm (470 L/s) Indoor Coil Air Volume 13HPD-030 with [CB30M-31]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.02	35.0	10.3
60	16	2.02	33.2	9.7
55	13	2.01	31.4	9.2
50	10	2.01	29.6	8.7
47	8	2.00	28.6	8.4
45	7	1.98	27.0	7.9
40	4	1.92	23.1	6.8
35	2	1.87	19.1	5.6
30	-1	1.90	18.8	5.5
25	-4	1.93	18.4	5.4
20	-7	1.96	18.0	5.3
17	-8	1.98	17.8	5.2
15	-9	1.97	17.1	5.0
10	-12	1.97	15.3	4.5
5	-15	1.84	13.7	4.0
0	-18	1.71	12.0	3.5
-5	-21	1.58	10.3	3.0
-10	-23	1.45	8.7	2.5
-15	-26	1.32	7.0	2.1
-20	-29	1.19	5.3	1.6

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

UP-FLOW INDOOR COIL WITH GAS FURNACES

COOLING CAPACITY - 13HPD-030 with [C33-36A + G60UHV-36A-070]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	830	390	29.6	8.7	1.99	.75	.88	1.00	28.4	8.3	2.22	.76	.90	1.00	27.2	8.0	2.48	.78	.92	1.00	25.8	7.6	2.78	.79	.95	1.00
	1000	470	30.8	9.0	2.00	.79	.94	1.00	29.6	8.7	2.23	.80	.96	1.00	28.2	8.3	2.49	.82	.98	1.00	27.0	7.9	2.79	.84	1.00	1.00
	1115	525	31.4	9.2	2.01	.81	.97	1.00	30.2	8.9	2.24	.83	.99	1.00	29.0	8.5	2.50	.85	1.00	1.00	27.8	8.1	2.80	.87	1.00	1.00
67°F (19°C)	830	390	31.0	9.1	2.00	.60	.72	.85	30.0	8.8	2.24	.60	.74	.87	28.8	8.4	2.50	.61	.75	.89	27.4	8.0	2.80	.62	.77	.91
	1000	470	32.2	9.4	2.02	.62	.76	.90	31.2	9.1	2.25	.63	.78	.92	30.0	8.8	2.51	.64	.79	.95	28.4	8.3	2.80	.65	.82	.97
	1115	525	33.0	9.7	2.02	.63	.79	.93	31.8	9.3	2.26	.64	.80	.96	30.6	9.0	2.52	.65	.82	.98	29.0	8.5	2.81	.67	.85	1.00
71°F (22°C)	830	390	32.4	9.5	2.02	.46	.58	.70	31.2	9.1	2.25	.46	.59	.71	30.2	8.9	2.52	.46	.60	.73	28.6	8.4	2.81	.46	.61	.74
	1000	470	33.8	9.9	2.03	.47	.61	.74	32.6	9.6	2.27	.47	.62	.75	31.4	9.2	2.53	.47	.63	.77	30.0	8.8	2.82	.48	.64	.79
	1115	525	34.4	10.1	2.04	.47	.62	.76	33.2	9.7	2.28	.48	.63	.78	32.0	9.4	2.54	.48	.64	.80	30.6	9.0	2.83	.49	.66	.82

COOLING CAPACITY - 13HPD-030 with [C33-36B + G60UHV-36B-090]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	905	425	30.2	8.9	1.99	.76	.91	1.00	29.0	8.5	2.23	.78	.93	1.00	27.6	8.1	2.49	.79	.95	1.00	26.4	7.7	2.79	.81	.97	1.00
	1005	475	30.8	9.0	2.00	.79	.94	1.00	29.6	8.7	2.23	.80	.96	1.00	28.4	8.3	2.49	.82	.98	1.00	27.0	7.9	2.79	.84	1.00	1.00
	1110	525	31.4	9.2	2.01	.81	.97	1.00	30.2	8.9	2.24	.83	.99	1.00	29.0	8.5	2.50	.85	1.00	1.00	27.8	8.1	2.80	.87	1.00	1.00
67°F (19°C)	905	425	31.6	9.3	2.01	.61	.74	.87	30.6	9.0	2.24	.61	.75	.89	29.4	8.6	2.50	.62	.77	.91	27.8	8.1	2.80	.63	.79	.94
	1005	475	32.2	9.4	2.02	.62	.76	.90	31.2	9.1	2.25	.63	.78	.93	30.0	8.8	2.51	.64	.80	.95	28.6	8.4	2.81	.65	.82	.97
	1110	525	33.0	9.7	2.02	.63	.79	.93	31.8	9.3	2.26	.64	.80	.96	30.6	9.0	2.52	.65	.82	.98	29.0	8.5	2.81	.67	.85	1.00
71°F (22°C)	905	425	33.0	9.7	2.02	.46	.59	.72	32.0	9.4	2.26	.46	.60	.73	30.8	9.0	2.52	.46	.61	.75	29.4	8.6	2.81	.47	.62	.76
	1005	475	33.8	9.9	2.03	.47	.61	.74	32.6	9.6	2.27	.47	.62	.75	31.4	9.2	2.53	.47	.63	.77	30.0	8.8	2.82	.48	.64	.79
	1110	525	34.4	10.1	2.04	.47	.62	.76	33.2	9.7	2.28	.48	.63	.78	32.0	9.4	2.54	.48	.64	.80	30.6	9.0	2.83	.48	.66	.82

HEATING CAPACITY - 13HPD-030 with [C33-36A + G60UHV-36A-070]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
830	390	34.3	10.1	2.35	26.4	7.7	2.21	17.9	5.2	2.06	13.2	3.9	1.90	6.6	1.9	1.41
1000	470	34.6	10.1	2.21	26.7	7.8	2.07	18.2	5.3	1.92	13.5	4.0	1.76	6.9	2.0	1.28
1115	525	34.9	10.2	2.16	27.0	7.9	2.02	18.5	5.4	1.87	13.8	4.0	1.70	7.2	2.1	1.22

HEATING CAPACITY - 13HPD-030 with [C33-36B + G60UHV-36B-090]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
905	425	34.2	10.0	2.28	26.3	7.7	2.14	17.9	5.2	1.99	13.1	3.8	1.83	6.7	2.0	1.35
1005	475	34.4	10.1	2.21	26.5	7.8	2.07	18.0	5.3	1.92	13.3	3.9	1.76	6.8	2.0	1.28
1110	525	34.6	10.1	2.16	26.7	7.8	2.02	18.2	5.3	1.87	13.5	4.0	1.71	7.0	2.1	1.22

HEATING PERFORMANCE at 1000 cfm (470 L/s) Indoor Coil Air Volume 13HPD-030 with [C33-36A + G60UHV-36A-070]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.21	34.6	10.1
60	16	2.18	32.9	9.6
55	13	2.15	31.1	9.1
50	10	2.12	29.3	8.6
47	8	2.10	28.2	8.3
45	7	2.07	26.7	7.8
40	4	2.00	22.8	6.7
35	2	1.92	19.0	5.6
30	-1	1.92	18.6	5.5
25	-4	1.92	18.2	5.3
20	-7	1.92	17.8	5.2
17	-8	1.92	17.6	5.2
15	-9	1.91	16.9	5.0
10	-12	1.88	15.1	4.4
5	-15	1.76	13.5	4.0
0	-18	1.64	11.8	3.5
-5	-21	1.52	10.2	3.0
-10	-23	1.40	8.6	2.5
-15	-26	1.28	6.9	2.0
-20	-29	1.16	5.3	1.6

HEATING PERFORMANCE at 1005 cfm (475 L/s) Indoor Coil Air Volume 13HPD-030 with [C33-36B + G60UHV-36B-090]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.21	34.4	10.1
60	16	2.18	32.6	9.6
55	13	2.15	30.9	9.1
50	10	2.12	29.1	8.5
47	8	2.10	28.0	8.2
45	7	2.07	26.5	7.8
40	4	1.99	22.7	6.7
35	2	1.92	18.8	5.5
30	-1	1.92	18.4	5.4
25	-4	1.92	18.0	5.3
20	-7	1.92	17.6	5.2
17	-8	1.92	17.4	5.1
15	-9	1.91	16.7	4.9
10	-12	1.88	14.9	4.4
5	-15	1.76	13.3	3.9
0	-18	1.64	11.7	3.4
-5	-21	1.52	10.1	3.0
-10	-23	1.40	8.5	2.5
-15	-26	1.28	6.8	2.0
-20	-29	1.15	5.2	1.5

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

UP-FLOW INDOOR COIL WITH GAS FURNACES

COOLING CAPACITY - 13HPD-030 with [C33-36B + G61MPV-36B-045]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)			
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	840	395	29.6	8.7	1.99	.75	.89	1.00	28.4	8.3	2.22	.76	.90	1.00	27.2	8.0	2.48	.78	.93	1.00	25.8	7.6	2.78	.80	.95	1.00
	1050	495	31.0	9.1	2.00	.80	.95	1.00	29.8	8.7	2.24	.81	.97	1.00	28.6	8.4	2.50	.83	.99	1.00	27.2	8.0	2.79	.85	1.00	1.00
	1150	545	31.6	9.3	2.01	.82	.97	1.00	30.4	8.9	2.24	.84	1.00	1.00	29.2	8.6	2.50	.86	1.00	1.00	28.0	8.2	2.80	.88	1.00	1.00
67°F (19°C)	840	395	31.0	9.1	2.00	.60	.73	.85	30.0	8.8	2.24	.60	.74	.87	28.8	8.4	2.50	.61	.75	.89	27.4	8.0	2.79	.62	.77	.91
	1050	495	32.6	9.6	2.02	.63	.77	.92	31.4	9.2	2.26	.63	.79	.94	30.2	8.9	2.51	.64	.81	.96	28.8	8.4	2.81	.66	.83	.99
	1150	545	33.0	9.7	2.02	.64	.79	.94	32.0	9.4	2.26	.65	.81	.97	30.6	9.0	2.52	.66	.83	.99	29.2	8.6	2.81	.67	.86	1.00
71°F (22°C)	840	395	32.4	9.5	2.02	.46	.58	.70	31.4	9.2	2.25	.46	.59	.71	30.2	8.9	2.52	.46	.60	.73	28.8	8.4	2.81	.47	.61	.75
	1050	495	34.0	10.0	2.03	.47	.61	.75	33.0	9.7	2.27	.47	.62	.77	31.6	9.3	2.53	.48	.63	.78	30.4	8.9	2.83	.48	.65	.80
	1150	545	34.6	10.1	2.04	.47	.62	.77	33.4	9.8	2.28	.48	.64	.79	32.2	9.4	2.54	.48	.65	.81	30.8	9.0	2.83	.49	.66	.83

COOLING CAPACITY - 13HPD-030 with [C33-36B + G61MPV-36B-070] [C33-36B + G71MPP-36B-070]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)			
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	830	390	29.6	8.7	1.99	.75	.88	1.00	28.4	8.3	2.22	.76	.90	1.00	27.2	8.0	2.48	.78	.92	1.00	25.8	7.6	2.78	.79	.95	1.00
	1010	475	30.8	9.0	2.00	.79	.94	1.00	29.6	8.7	2.23	.80	.96	1.00	28.4	8.3	2.49	.82	.98	1.00	27.0	7.9	2.79	.84	1.00	1.00
	1155	545	31.8	9.3	2.01	.82	.98	1.00	30.4	8.9	2.24	.84	1.00	1.00	29.2	8.6	2.50	.86	1.00	1.00	28.0	8.2	2.80	.88	1.00	1.00
67°F (19°C)	830	390	31.0	9.1	2.00	.60	.72	.85	30.0	8.8	2.24	.60	.74	.87	28.8	8.4	2.50	.61	.75	.89	27.4	8.0	2.80	.62	.77	.91
	1010	475	32.4	9.5	2.02	.62	.76	.90	31.2	9.1	2.25	.63	.78	.93	30.0	8.8	2.51	.64	.80	.95	28.6	8.4	2.81	.65	.82	.98
	1155	545	33.2	9.7	2.02	.64	.79	.94	32.0	9.4	2.26	.65	.81	.97	30.8	9.0	2.52	.66	.83	.99	29.2	8.6	2.81	.67	.86	1.00
71°F (22°C)	830	390	32.4	9.5	2.02	.46	.58	.70	31.2	9.1	2.25	.46	.59	.71	30.2	8.9	2.52	.46	.60	.73	28.6	8.4	2.81	.46	.61	.74
	1010	475	33.8	9.9	2.03	.47	.61	.74	32.6	9.6	2.27	.47	.62	.76	31.4	9.2	2.53	.47	.63	.77	30.0	8.8	2.82	.48	.64	.79
	1155	545	34.6	10.1	2.04	.47	.63	.77	33.6	9.8	2.28	.48	.64	.79	32.2	9.4	2.54	.48	.65	.81	30.8	9.0	2.83	.49	.66	.83

HEATING CAPACITY - 13HPD-030 with [C33-36B + G61MPV-36B-045]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
840	395	34.3	10.1	2.33	26.3	7.7	2.20	17.8	5.2	2.05	13.1	3.8	1.89	6.5	1.9	1.41
1050	495	34.7	10.2	2.18	26.8	7.9	2.05	18.3	5.4	1.90	13.5	4.0	1.74	6.9	2.0	1.26
1150	545	35.0	10.3	2.14	27.0	7.9	2.00	18.5	5.4	1.86	13.7	4.0	1.70	7.2	2.1	1.22

HEATING CAPACITY - 13HPD-030 with [C33-36B + G61MPV-36B-070] [C33-36B + G71MPP-36B-070]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
830	390	34.2	10.0	2.35	26.3	7.7	2.21	17.8	5.2	2.06	13.1	3.8	1.90	6.5	1.9	1.41
1010	475	34.6	10.1	2.21	26.7	7.8	2.07	18.2	5.3	1.92	13.4	3.9	1.76	6.9	2.0	1.27
1155	545	34.9	10.2	2.14	27.0	7.9	2.00	18.5	5.4	1.85	13.8	4.0	1.69	7.2	2.1	1.20

HEATING PERFORMANCE at 1050 cfm (495 L/s) Indoor Coil Air Volume 13HPD-030 with [C33-36B + G61MPV-36B-045]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.18	34.7	10.2
60	16	2.16	33.0	9.7
55	13	2.13	31.2	9.1
50	10	2.10	29.4	8.6
47	8	2.08	28.3	8.3
45	7	2.05	26.8	7.9
40	4	1.97	22.9	6.7
35	2	1.90	19.0	5.6
30	-1	1.90	18.7	5.5
25	-4	1.90	18.3	5.4
20	-7	1.90	17.9	5.2
17	-8	1.90	17.7	5.2
15	-9	1.89	16.9	5.0
10	-12	1.86	15.2	4.5
5	-15	1.74	13.5	4.0
0	-18	1.62	11.9	3.5
-5	-21	1.50	10.2	3.0
-10	-23	1.38	8.6	2.5
-15	-26	1.26	6.9	2.0
-20	-29	1.14	5.3	1.6

HEATING PERFORMANCE at 1010 cfm (475 L/s) Indoor Coil Air Volume 13HPD-030 with [C33-36B + G61MPV-36B-070] [C33-36B + G71MPP-36B-070]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.21	34.6	10.1
60	16	2.18	32.8	9.6
55	13	2.15	31.0	9.1
50	10	2.12	29.3	8.6
47	8	2.10	28.2	8.3
45	7	2.07	26.7	7.8
40	4	1.99	22.8	6.7
35	2	1.92	18.9	5.5
30	-1	1.92	18.6	5.5
25	-4	1.92	18.2	5.3
20	-7	1.92	17.8	5.2
17	-8	1.92	17.6	5.2
15	-9	1.91	16.8	4.9
10	-12	1.88	15.1	4.4
5	-15	1.76	13.4	3.9
0	-18	1.64	11.8	3.5
-5	-21	1.52	10.2	3.0
-10	-23	1.39	8.5	2.5
-15	-26	1.27	6.9	2.0
-20	-29	1.15	5.3	1.6

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

UP-FLOW INDOOR COIL WITH GAS FURNACES

COOLING CAPACITY - 13HPD-030 with

[C33-36C + G61MPV-36C-090]
[C33-36C + G71MPP-36C-090]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	905	425	30.2	8.9	1.99	.77	.91	1.00	29.0	8.5	2.23	.78	.93	1.00	27.8	8.1	2.49	.80	.95	1.00	26.4	7.7	2.79	.81	.98	1.00
	1010	475	30.8	9.0	2.00	.79	.94	1.00	29.6	8.7	2.23	.80	.96	1.00	28.4	8.3	2.49	.82	.98	1.00	27.0	7.9	2.79	.84	1.00	1.00
	1145	540	31.6	9.3	2.01	.82	.97	1.00	30.4	8.9	2.24	.83	1.00	1.00	29.2	8.6	2.50	.86	1.00	1.00	28.0	8.2	2.80	.88	1.00	1.00
67°F (19°C)	905	425	31.6	9.3	2.01	.61	.74	.87	30.6	9.0	2.24	.61	.75	.89	29.4	8.6	2.50	.62	.77	.91	28.0	8.2	2.80	.63	.79	.94
	1010	475	32.4	9.5	2.02	.62	.76	.90	31.2	9.1	2.25	.63	.78	.93	30.0	8.8	2.51	.64	.80	.95	28.4	8.3	2.81	.65	.82	.98
	1145	540	33.0	9.7	2.02	.64	.79	.94	32.0	9.4	2.26	.65	.81	.97	30.6	9.0	2.52	.66	.83	.99	29.2	8.6	2.81	.67	.85	1.00
71°F (22°C)	905	425	33.0	9.7	2.02	.46	.59	.72	32.0	9.4	2.26	.46	.60	.73	30.8	9.0	2.52	.47	.61	.75	29.4	8.6	2.81	.47	.62	.76
	1010	475	33.8	9.9	2.03	.47	.61	.74	32.6	9.6	2.27	.47	.62	.76	31.4	9.2	2.53	.47	.63	.77	30.0	8.8	2.82	.48	.64	.79
	1145	540	34.6	10.1	2.04	.48	.62	.77	33.4	9.8	2.28	.48	.64	.79	32.2	9.4	2.54	.48	.65	.81	30.8	9.0	2.83	.49	.66	.83

HEATING CAPACITY - 13HPD-030 with

[C33-36C + G61MPV-36C-090]
[C33-36C + G71MPP-36C-090]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil														
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
905	425	34.3	10.1	2.28	26.4	7.7	2.14	17.9	5.2	1.99	13.2	3.9	1.83	6.7	2.0	1.34
1010	475	34.5	10.1	2.21	26.6	7.8	2.07	18.1	5.3	1.92	13.3	3.9	1.76	6.9	2.0	1.27
1145	540	34.7	10.2	2.14	26.8	7.9	2.00	18.3	5.4	1.85	13.6	4.0	1.69	7.1	2.1	1.21

HEATING PERFORMANCE at 1010 cfm (475 L/s) Indoor Coil Air Volume 13HPD-030 with

[C33-36C + G61MPV-36C-090]
[C33-36C + G71MPP-36C-090]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.21	34.5	10.1
60	16	2.18	32.7	9.6
55	13	2.15	30.9	9.1
50	10	2.12	29.2	8.6
47	8	2.10	28.1	8.2
45	7	2.07	26.6	7.8
40	4	1.99	22.7	6.7
35	2	1.91	18.8	5.5
30	-1	1.92	18.5	5.4
25	-4	1.92	18.1	5.3
20	-7	1.92	17.7	5.2
17	-8	1.92	17.4	5.1
15	-9	1.91	16.7	4.9
10	-12	1.88	15.0	4.4
5	-15	1.76	13.3	3.9
0	-18	1.63	11.7	3.4
-5	-21	1.51	10.1	3.0
-10	-23	1.39	8.5	2.5
-15	-26	1.27	6.9	2.0
-20	-29	1.15	5.2	1.5

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

DOWN-FLOW INDOOR COILS WITH GAS FURNACES

COOLING CAPACITY - 13HPD-030 with [CR33-24B-F + G60DFV-36B-090]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)			
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	920	435	29.8	8.7	1.99	.76	.90	1.00	28.8	8.4	2.22	.78	.92	1.00	27.6	8.1	2.49	.79	.94	1.00	26.2	7.7	2.78	.81	.97	1.00
	1040	490	30.6	9.0	2.00	.79	.94	1.00	29.6	8.7	2.23	.81	.96	1.00	28.2	8.3	2.49	.82	.98	1.00	26.8	7.9	2.79	.84	.99	1.00
	1140	540	31.0	9.1	2.00	.81	.96	1.00	30.0	8.8	2.24	.83	.98	1.00	28.8	8.4	2.50	.85	.99	1.00	27.4	8.0	2.79	.87	1.00	1.00
67°F (19°C)	920	435	31.4	9.2	2.01	.60	.74	.87	30.4	8.9	2.24	.61	.75	.89	29.2	8.6	2.50	.62	.77	.91	28.0	8.2	2.80	.63	.78	.93
	1040	490	32.2	9.4	2.01	.62	.77	.90	31.2	9.1	2.25	.63	.78	.92	30.0	8.8	2.51	.64	.80	.95	28.6	8.4	2.81	.65	.82	.97
	1140	540	32.6	9.6	2.02	.63	.78	.93	31.6	9.3	2.26	.64	.80	.95	30.4	8.9	2.52	.65	.82	.97	29.0	8.5	2.81	.66	.84	.99
71°F (22°C)	920	435	33.0	9.7	2.02	.46	.59	.71	32.0	9.4	2.26	.46	.60	.73	30.8	9.0	2.52	.46	.60	.74	29.6	8.7	2.82	.46	.61	.76
	1040	490	33.8	9.9	2.03	.46	.61	.74	32.8	9.6	2.27	.47	.62	.75	31.6	9.3	2.53	.47	.63	.77	30.2	8.9	2.82	.47	.64	.79
	1140	540	34.2	10.0	2.03	.47	.62	.76	33.2	9.7	2.28	.48	.63	.78	32.0	9.4	2.54	.48	.64	.80	30.6	9.0	2.83	.48	.65	.82

COOLING CAPACITY - 13HPD-030 with [CR33-30/36A-F + G60DFV-36A-070]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)			
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	830	390	29.8	8.7	1.99	.75	.88	1.00	28.8	8.4	2.22	.76	.90	1.00	27.4	8.0	2.48	.77	.92	1.00	26.0	7.6	2.78	.79	.95	1.00
	1010	475	31.2	9.1	2.00	.79	.94	1.00	30.0	8.8	2.24	.80	.96	1.00	28.6	8.4	2.50	.82	.98	1.00	27.2	8.0	2.79	.84	1.00	1.00
	1155	545	32.0	9.4	2.01	.82	.98	1.00	30.8	9.0	2.25	.84	.99	1.00	29.4	8.6	2.51	.86	1.00	1.00	28.2	8.3	2.80	.89	1.00	1.00
67°F (19°C)	830	390	31.6	9.3	2.01	.59	.72	.85	30.4	8.9	2.24	.60	.73	.87	29.2	8.6	2.50	.60	.75	.89	27.8	8.1	2.80	.61	.76	.91
	1010	475	32.8	9.6	2.02	.62	.76	.90	31.6	9.3	2.26	.62	.78	.93	30.2	8.9	2.52	.63	.80	.95	28.8	8.4	2.81	.65	.82	.97
	1155	545	33.6	9.8	2.03	.64	.80	.94	32.4	9.5	2.27	.65	.82	.97	31.0	9.1	2.52	.66	.84	.99	29.4	8.6	2.81	.67	.86	1.00
71°F (22°C)	830	390	33.2	9.7	2.03	.45	.58	.70	32.2	9.4	2.26	.45	.58	.71	30.8	9.0	2.52	.45	.59	.72	29.4	8.6	2.81	.46	.60	.74
	1010	475	34.6	10.1	2.04	.46	.60	.74	33.4	9.8	2.28	.47	.61	.75	32.0	9.4	2.54	.47	.62	.77	30.6	9.0	2.83	.47	.63	.79
	1155	545	35.4	10.4	2.05	.47	.63	.77	34.0	10.0	2.29	.48	.64	.79	32.8	9.6	2.55	.48	.65	.81	31.2	9.1	2.83	.48	.66	.84

HEATING CAPACITY - 13HPD-030 with [CR33-24B-F + G60DFV-36B-090]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
920	435	34.7	10.2	2.21	26.7	7.8	2.03	18.2	5.3	1.84	13.4	3.9	1.64	6.8	2.0	1.22
1040	490	34.9	10.2	2.15	26.9	7.9	1.96	18.4	5.4	1.77	13.6	4.0	1.58	7.0	2.1	1.15
1140	540	35.1	10.3	2.11	27.1	7.9	1.92	18.6	5.5	1.73	13.8	4.0	1.54	7.2	2.1	1.11

HEATING CAPACITY - 13HPD-030 with [CR33-30/36A-F + G60DFV-36A-070]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
830	390	34.6	10.1	2.18	26.6	7.8	2.02	18.1	5.3	1.85	13.3	3.9	1.67	6.6	1.9	1.25
1010	475	35.0	10.3	2.08	27.0	7.9	1.91	18.4	5.4	1.74	13.6	4.0	1.57	7.0	2.1	1.14
1155	545	35.4	10.4	2.02	27.4	8.0	1.86	18.8	5.5	1.69	14.0	4.1	1.51	7.4	2.2	1.09

HEATING PERFORMANCE at 1040 cfm (490 L/s) Indoor Coil Air Volume 13HPD-030 with [CR33-24B-F + G60DFV-36B-090]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.15	34.9	10.2
60	16	2.11	33.1	9.7
55	13	2.06	31.3	9.2
50	10	2.02	29.5	8.6
47	8	2.00	28.5	8.4
45	7	1.96	26.9	7.9
40	4	1.89	23.1	6.8
35	2	1.81	19.2	5.6
30	-1	1.79	18.8	5.5
25	-4	1.77	18.4	5.4
20	-7	1.75	18.0	5.3
17	-8	1.74	17.8	5.2
15	-9	1.73	17.1	5.0
10	-12	1.68	15.3	4.5
5	-15	1.58	13.6	4.0
0	-18	1.47	12.0	3.5
-5	-21	1.37	10.3	3.0
-10	-23	1.26	8.6	2.5
-15	-26	1.15	7.0	2.1
-20	-29	1.05	5.3	1.6

HEATING PERFORMANCE at 1010 cfm (475 L/s) Indoor Coil Air Volume 13HPD-030 with [CR33-30/36A-F + G60DFV-36A-070]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.08	35.0	10.3
60	16	2.04	33.2	9.7
55	13	2.00	31.4	9.2
50	10	1.97	29.6	8.7
47	8	1.94	28.5	8.4
45	7	1.91	27.0	7.9
40	4	1.84	23.1	6.8
35	2	1.77	19.2	5.6
30	-1	1.76	18.8	5.5
25	-4	1.74	18.4	5.4
20	-7	1.73	18.0	5.3
17	-8	1.72	17.8	5.2
15	-9	1.71	17.1	5.0
10	-12	1.67	15.3	4.5
5	-15	1.57	13.6	4.0
0	-18	1.46	12.0	3.5
-5	-21	1.35	10.3	3.0
-10	-23	1.25	8.6	2.5
-15	-26	1.14	7.0	2.1
-20	-29	1.04	5.3	1.6

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

DOWN-FLOW INDOOR COILS WITH GAS FURNACES

COOLING CAPACITY - 13HPD-030 with [CR33-30/36B-F + G60DFV-36B-090]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)			
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	920	435	30.6	9.0	2.00	.77	.91	1.00	29.4	8.6	2.23	.78	.93	1.00	28.0	8.2	2.49	.80	.96	1.00	26.8	7.9	2.79	.82	.98	1.00
	1040	490	31.4	9.2	2.01	.80	.95	1.00	30.0	8.8	2.24	.81	.97	1.00	28.8	8.4	2.50	.83	.99	1.00	27.4	8.0	2.80	.85	1.00	1.00
	1140	540	32.0	9.4	2.01	.82	.97	1.00	30.6	9.0	2.25	.84	.99	1.00	29.4	8.6	2.51	.86	1.00	1.00	28.0	8.2	2.80	.88	1.00	1.00
67°F (19°C)	920	435	32.2	9.4	2.02	.61	.75	.88	31.0	9.1	2.25	.61	.76	.90	29.8	8.7	2.51	.62	.77	.92	28.4	8.3	2.81	.63	.79	.94
	1040	490	33.0	9.7	2.02	.62	.77	.91	31.8	9.3	2.26	.63	.79	.94	30.4	8.9	2.52	.64	.81	.96	29.0	8.5	2.81	.65	.83	.98
	1140	540	33.4	9.8	2.03	.64	.79	.94	32.2	9.4	2.26	.65	.81	.96	30.8	9.0	2.52	.65	.83	.99	29.4	8.6	2.82	.67	.86	1.00
71°F (22°C)	920	435	34.0	10.0	2.03	.46	.59	.72	32.8	9.6	2.27	.46	.60	.73	31.4	9.2	2.53	.46	.61	.75	30.0	8.8	2.82	.46	.62	.77
	1040	490	34.8	10.2	2.04	.47	.61	.75	33.4	9.8	2.28	.47	.62	.76	32.2	9.4	2.54	.47	.63	.78	30.8	9.0	2.83	.47	.64	.80
	1140	540	35.2	10.3	2.04	.47	.62	.77	34.0	10.0	2.28	.47	.63	.79	32.6	9.6	2.55	.48	.64	.81	31.2	9.1	2.83	.48	.66	.83

COOLING CAPACITY - 13HPD-030 with [CR33-30/36B-F + G61MPV-36B-045]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)			
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	840	395	29.8	8.7	1.99	.75	.89	1.00	28.8	8.4	2.22	.76	.90	1.00	27.4	8.0	2.48	.78	.93	1.00	26.0	7.6	2.78	.79	.95	1.00
	1050	495	31.4	9.2	2.01	.80	.95	1.00	30.2	8.9	2.24	.81	.97	1.00	28.8	8.4	2.50	.83	.99	1.00	27.4	8.0	2.80	.86	1.00	1.00
	1150	545	32.0	9.4	2.01	.82	.98	1.00	30.8	9.0	2.25	.84	.99	1.00	29.4	8.6	2.51	.86	1.00	1.00	28.0	8.2	2.80	.88	1.00	1.00
67°F (19°C)	840	395	31.6	9.3	2.01	.60	.72	.85	30.6	9.0	2.24	.60	.74	.87	29.2	8.6	2.50	.61	.75	.89	27.8	8.1	2.80	.62	.77	.91
	1050	495	33.0	9.7	2.02	.62	.77	.92	31.8	9.3	2.26	.63	.79	.94	30.4	8.9	2.52	.64	.81	.96	29.0	8.5	2.81	.65	.83	.98
	1150	545	33.6	9.8	2.03	.64	.80	.94	32.2	9.4	2.27	.65	.81	.97	31.0	9.1	2.52	.66	.83	.99	29.4	8.6	2.81	.67	.86	1.00
71°F (22°C)	840	395	33.4	9.8	2.03	.45	.58	.70	32.2	9.4	2.26	.45	.59	.71	30.8	9.0	2.52	.45	.59	.72	29.4	8.6	2.82	.46	.60	.74
	1050	495	34.8	10.2	2.04	.47	.61	.75	33.4	9.8	2.28	.47	.62	.77	32.2	9.4	2.54	.47	.63	.78	30.8	9.0	2.83	.47	.64	.80
	1150	545	35.2	10.3	2.05	.47	.62	.77	34.0	10.0	2.28	.48	.64	.79	32.6	9.6	2.55	.48	.65	.81	31.2	9.1	2.83	.48	.66	.83

HEATING CAPACITY - 13HPD-030 with [CR33-30/36B-F + G60DFV-36B-090]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
920	435	34.7	10.2	2.12	26.7	7.8	1.96	18.2	5.3	1.79	13.3	3.9	1.62	6.8	2.0	1.20
1040	490	34.9	10.2	2.06	26.9	7.9	1.90	18.3	5.4	1.73	13.5	4.0	1.56	6.9	2.0	1.14
1140	540	35.1	10.3	2.02	27.1	7.9	1.87	18.5	5.4	1.70	13.7	4.0	1.53	7.2	2.1	1.10

HEATING CAPACITY - 13HPD-030 with [CR33-30/36B-F + G61MPV-36B-045]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
840	395	34.7	10.2	2.17	26.7	7.8	2.01	18.1	5.3	1.85	13.3	3.9	1.67	6.6	1.9	1.25
1050	495	35.2	10.3	2.05	27.1	7.9	1.90	18.5	5.4	1.73	13.7	4.0	1.56	7.0	2.1	1.13
1150	545	35.4	10.4	2.02	27.4	8.0	1.86	18.8	5.5	1.70	14.0	4.1	1.53	7.3	2.1	1.10

HEATING PERFORMANCE at 1040 cfm (490 L/s) Indoor Coil Air Volume 13HPD-030 with [CR33-30/36B-F + G60DFV-36B-090]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.06	34.9	10.2
60	16	2.02	33.1	9.7
55	13	1.99	31.3	9.2
50	10	1.95	29.5	8.6
47	8	1.93	28.4	8.3
45	7	1.90	26.9	7.9
40	4	1.83	23.0	6.7
35	2	1.76	19.2	5.6
30	-1	1.75	18.7	5.5
25	-4	1.73	18.3	5.4
20	-7	1.72	17.9	5.2
17	-8	1.72	17.7	5.2
15	-9	1.70	16.9	5.0
10	-12	1.67	15.1	4.4
5	-15	1.56	13.5	4.0
0	-18	1.45	11.9	3.5
-5	-21	1.35	10.2	3.0
-10	-23	1.24	8.6	2.5
-15	-26	1.14	6.9	2.0
-20	-29	1.03	5.3	1.6

HEATING PERFORMANCE at 1050 cfm (495 L/s) Indoor Coil Air Volume 13HPD-030 with [CR33-30/36B-F + G61MPV-36B-045]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.05	35.2	10.3
60	16	2.02	33.4	9.8
55	13	1.98	31.6	9.3
50	10	1.95	29.8	8.7
47	8	1.92	28.7	8.4
45	7	1.90	27.1	7.9
40	4	1.83	23.2	6.8
35	2	1.75	19.4	5.7
30	-1	1.74	19.0	5.6
25	-4	1.73	18.5	5.4
20	-7	1.72	18.1	5.3
17	-8	1.71	17.9	5.2
15	-9	1.70	17.2	5.0
10	-12	1.66	15.4	4.5
5	-15	1.56	13.7	4.0
0	-18	1.45	12.1	3.5
-5	-21	1.35	10.4	3.0
-10	-23	1.24	8.7	2.5
-15	-26	1.13	7.0	2.1
-20	-29	1.03	5.4	1.6

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

DOWN-FLOW INDOOR COILS WITH GAS FURNACES

COOLING CAPACITY - 13HPD-030 with [CR33-30/36B-F + G61MPV-36B-070] [CR33-30/36B-F + G71MPP-36B-070]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	830	390	29.8	8.7	1.99	.75	.88	1.00	28.8	8.4	2.22	.76	.90	1.00	27.4	8.0	2.48	.77	.92	1.00	26.0	7.6	2.78	.79	.95	1.00
	1010	475	31.2	9.1	2.00	.79	.94	1.00	30.0	8.8	2.24	.80	.96	1.00	28.6	8.4	2.50	.82	.98	1.00	27.2	8.0	2.79	.84	1.00	1.00
	1155	545	32.0	9.4	2.01	.82	.98	1.00	30.8	9.0	2.25	.84	.99	1.00	29.4	8.6	2.51	.86	1.00	1.00	28.2	8.3	2.80	.89	1.00	1.00
67°F (19°C)	830	390	31.6	9.3	2.01	.59	.72	.85	30.4	8.9	2.24	.60	.73	.87	29.2	8.6	2.50	.60	.75	.89	27.8	8.1	2.80	.61	.76	.91
	1010	475	32.8	9.6	2.02	.62	.76	.90	31.6	9.3	2.26	.62	.78	.93	30.2	8.9	2.52	.63	.80	.95	28.8	8.4	2.81	.65	.82	.97
	1155	545	33.6	9.8	2.03	.64	.80	.94	32.4	9.5	2.27	.65	.82	.97	31.0	9.1	2.52	.66	.84	.99	29.4	8.6	2.81	.67	.86	1.00
71°F (22°C)	830	390	33.2	9.7	2.03	.45	.58	.70	32.2	9.4	2.26	.45	.58	.71	30.8	9.0	2.52	.45	.59	.72	29.4	8.6	2.81	.46	.60	.74
	1010	475	34.6	10.1	2.04	.46	.60	.74	33.4	9.8	2.28	.47	.61	.75	32.0	9.4	2.54	.47	.62	.77	30.6	9.0	2.83	.47	.63	.79
	1155	545	35.4	10.4	2.05	.47	.63	.77	34.0	10.0	2.29	.48	.64	.79	32.8	9.6	2.55	.48	.65	.81	31.2	9.1	2.83	.48	.66	.84

COOLING CAPACITY - 13HPD-030 with [CR33-30/36C-F + G61MPV-36C-090] [CR33-30/36C-F + G71MPP-36C-090]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	905	425	30.6	9.0	2.00	.76	.91	1.00	29.2	8.6	2.23	.78	.93	1.00	28.0	8.2	2.49	.79	.95	1.00	26.6	7.8	2.79	.81	.97	1.00
	1010	475	31.2	9.1	2.00	.79	.94	1.00	30.0	8.8	2.24	.80	.96	1.00	28.6	8.4	2.50	.82	.98	1.00	27.2	8.0	2.79	.84	1.00	1.00
	1145	540	32.0	9.4	2.01	.82	.98	1.00	30.6	9.0	2.25	.84	.99	1.00	29.4	8.6	2.50	.86	1.00	1.00	28.2	8.3	2.80	.88	1.00	1.00
67°F (19°C)	905	425	32.2	9.4	2.01	.60	.74	.87	31.0	9.1	2.25	.61	.75	.89	29.8	8.7	2.51	.62	.77	.91	28.2	8.3	2.80	.63	.79	.94
	1010	475	32.8	9.6	2.02	.62	.77	.90	31.6	9.3	2.26	.62	.78	.93	30.4	8.9	2.52	.63	.80	.95	28.8	8.4	2.81	.65	.82	.97
	1145	540	33.4	9.8	2.03	.64	.80	.94	32.2	9.4	2.27	.65	.81	.96	31.0	9.1	2.52	.66	.83	.99	29.4	8.6	2.81	.67	.86	1.00
71°F (22°C)	905	425	34.0	10.0	2.03	.46	.59	.72	32.6	9.6	2.27	.46	.60	.73	31.4	9.2	2.53	.46	.60	.74	30.0	8.8	2.82	.46	.61	.76
	1010	475	34.6	10.1	2.04	.47	.61	.74	33.4	9.8	2.28	.46	.61	.76	32.0	9.4	2.54	.47	.62	.77	30.6	9.0	2.83	.47	.63	.79
	1145	540	35.2	10.3	2.05	.47	.62	.77	34.0	10.0	2.28	.47	.63	.79	32.6	9.6	2.55	.48	.65	.81	31.2	9.1	2.83	.48	.66	.83

HEATING CAPACITY - 13HPD-030 with [CR33-30/36B-F + G61MPV-36B-070] [CR33-30/36B-F + G71MPP-36B-070]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
830	390	34.6	10.1	2.18	26.7	7.8	2.02	18.1	5.3	1.85	13.3	3.9	1.67	6.7	2.0	1.25
1010	475	35.0	10.3	2.08	27.0	7.9	1.91	18.4	5.4	1.74	13.6	4.0	1.57	7.0	2.1	1.14
1155	545	35.4	10.4	2.02	27.4	8.0	1.86	18.8	5.5	1.69	14.0	4.1	1.51	7.4	2.2	1.09

HEATING CAPACITY - 13HPD-030 with [CR33-30/36C-F + G61MPV-36C-090] [CR33-30/36C-F + G71MPP-36C-090]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
905	425	34.7	10.2	2.13	26.7	7.8	1.97	18.2	5.3	1.80	13.4	3.9	1.62	6.8	2.0	1.19
1010	475	34.9	10.2	2.07	26.9	7.9	1.91	18.3	5.4	1.74	13.5	4.0	1.57	7.0	2.1	1.14
1145	540	35.2	10.3	2.02	27.2	8.0	1.86	18.7	5.5	1.69	13.9	4.1	1.52	7.3	2.1	1.09

HEATING PERFORMANCE at 1010 cfm (475 L/s) Indoor Coil Air Volume 13HPD-030 with [CR33-30/36B-F + G61MPVP-36B-070] [CR33-30/36B-F + G71MPP-36B-070]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.08	35.0	10.3
60	16	2.04	33.2	9.7
55	13	2.00	31.4	9.2
50	10	1.97	29.6	8.7
47	8	1.94	28.5	8.4
45	7	1.91	27.0	7.9
40	4	1.84	23.1	6.8
35	2	1.77	19.2	5.6
30	-1	1.76	18.8	5.5
25	-4	1.74	18.4	5.4
20	-7	1.73	18.0	5.3
17	-8	1.72	17.8	5.2
15	-9	1.71	17.1	5.0
10	-12	1.67	15.3	4.5
5	-15	1.57	13.6	4.0
0	-18	1.46	12.0	3.5
-5	-21	1.35	10.3	3.0
-10	-23	1.25	8.7	2.5
-15	-26	1.14	7.0	2.1
-20	-29	1.04	5.3	1.6

HEATING PERFORMANCE at 1010 cfm (475 L/s) Indoor Coil Air Volume 13HPD-030 with [CR33-30/36C-F + G61MPV-36C-090] [CR33-30/36C-F + G71MPP-36C-090]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.07	34.9	10.2
60	16	2.04	33.1	9.7
55	13	2.00	31.3	9.2
50	10	1.96	29.5	8.6
47	8	1.94	28.4	8.3
45	7	1.91	26.9	7.9
40	4	1.84	23.0	6.7
35	2	1.77	19.2	5.6
30	-1	1.75	18.8	5.5
25	-4	1.74	18.3	5.4
20	-7	1.73	17.9	5.2
17	-8	1.72	17.7	5.2
15	-9	1.71	17.0	5.0
10	-12	1.67	15.2	4.5
5	-15	1.57	13.5	4.0
0	-18	1.46	11.9	3.5
-5	-21	1.35	10.3	3.0
-10	-23	1.25	8.6	2.5
-15	-26	1.14	7.0	2.1
-20	-29	1.03	5.3	1.6

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HORIZONTAL INDOOR COILS WITH GAS FURNACES

COOLING CAPACITY - 13HPD-030 with [CH23-41 + G60UHV-36B-090]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	905	425	29.2	8.6	1.98	.75	.88	.99	28.2	8.3	2.22	.76	.90	1.00	27.2	8.0	2.48	.78	.93	1.00	26.0	7.6	2.78	.80	.95	1.00
	1005	475	29.8	8.7	1.99	.77	.91	1.00	28.8	8.4	2.22	.78	.94	1.00	27.8	8.1	2.49	.80	.96	1.00	26.6	7.8	2.79	.82	.98	1.00
	1110	525	30.6	9.0	2.00	.79	.94	1.00	29.6	8.7	2.23	.81	.96	1.00	28.4	8.3	2.49	.83	.98	1.00	27.4	8.0	2.79	.85	1.00	1.00
67°F (19°C)	905	425	31.2	9.1	2.01	.60	.72	.85	30.2	8.9	2.24	.60	.74	.87	29.0	8.5	2.50	.61	.75	.89	27.8	8.1	2.80	.62	.77	.92
	1005	475	31.8	9.3	2.01	.60	.74	.87	30.8	9.0	2.25	.62	.76	.90	29.6	8.7	2.51	.63	.78	.93	28.2	8.3	2.80	.64	.80	.95
	1110	525	32.4	9.5	2.02	.61	.76	.91	31.2	9.1	2.25	.63	.78	.93	30.2	8.9	2.51	.64	.80	.96	28.8	8.4	2.81	.65	.83	.98
71°F (22°C)	905	425	33.2	9.7	2.02	.45	.58	.70	32.0	9.4	2.26	.45	.59	.71	31.0	9.1	2.52	.46	.60	.73	29.6	8.7	2.82	.46	.61	.75
	1005	475	33.8	9.9	2.03	.46	.59	.72	32.8	9.6	2.27	.46	.60	.73	31.6	9.3	2.53	.47	.61	.75	30.2	8.9	2.82	.47	.62	.77
	1110	525	34.2	10.0	2.04	.46	.60	.74	33.4	9.8	2.28	.46	.62	.76	32.2	9.4	2.54	.47	.63	.78	30.8	9.0	2.83	.48	.64	.80

COOLING CAPACITY - 13HPD-030 with [CH33-36B-2F + G60UHV-36B-090]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	905	425	30.0	8.8	1.99	.76	.90	1.00	29.0	8.5	2.23	.77	.92	1.00	27.8	8.1	2.49	.79	.95	1.00	26.4	7.7	2.79	.81	.97	1.00
	1005	475	30.6	9.0	2.00	.78	.94	1.00	29.6	8.7	2.23	.80	.96	1.00	28.4	8.3	2.49	.82	.98	1.00	27.0	7.9	2.79	.84	1.00	1.00
	1110	525	31.4	9.2	2.01	.81	.96	1.00	30.2	8.9	2.24	.82	.99	1.00	29.0	8.5	2.50	.84	1.00	1.00	27.8	8.1	2.80	.87	1.00	1.00
67°F (19°C)	905	425	31.6	9.3	2.01	.61	.74	.87	30.6	9.0	2.24	.61	.75	.89	29.4	8.6	2.51	.62	.77	.91	28.0	8.2	2.80	.63	.78	.94
	1005	475	32.2	9.4	2.02	.62	.76	.90	31.2	9.1	2.25	.63	.78	.92	30.0	8.8	2.51	.63	.79	.95	28.6	8.4	2.81	.64	.81	.97
	1110	525	33.0	9.7	2.02	.63	.78	.93	31.8	9.3	2.26	.64	.80	.95	30.6	9.0	2.52	.65	.82	.98	29.2	8.6	2.81	.66	.84	1.00
71°F (22°C)	905	425	33.0	9.7	2.02	.46	.59	.72	31.8	9.3	2.26	.46	.60	.73	30.8	9.0	2.52	.46	.60	.74	29.4	8.6	2.82	.46	.61	.76
	1005	475	33.8	9.9	2.03	.47	.60	.74	32.6	9.6	2.27	.47	.61	.75	31.4	9.2	2.53	.46	.62	.77	30.0	8.8	2.82	.47	.63	.79
	1110	525	34.4	10.1	2.04	.47	.62	.76	33.2	9.7	2.28	.48	.63	.78	32.0	9.4	2.54	.48	.64	.79	30.6	9.0	2.83	.48	.65	.81

HEATING CAPACITY - 13HPD-030 with [CH23-41 + G60UHV-36B-090]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
905	425	34.5	10.1	2.22	26.6	7.8	2.06	18.1	5.3	1.88	13.4	3.9	1.70	6.8	2.0	1.26
1005	475	34.7	10.2	2.16	26.7	7.8	2.00	18.2	5.3	1.82	13.5	4.0	1.64	6.9	2.0	1.20
1110	525	34.9	10.2	2.12	27.0	7.9	1.95	18.5	5.4	1.77	13.8	4.0	1.59	7.2	2.1	1.15

HEATING CAPACITY - 13HPD-030 with [CH33-36B-2F + G60UHV-36B-090]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
905	425	34.4	10.1	2.27	26.5	7.8	2.13	18.0	5.3	1.98	13.3	3.9	1.82	6.7	2.0	1.34
1005	475	34.6	10.1	2.21	26.7	7.8	2.07	18.2	5.3	1.92	13.4	3.9	1.75	6.9	2.0	1.27
1110	525	34.8	10.2	2.15	26.9	7.9	2.01	18.4	5.4	1.86	13.6	4.0	1.70	7.1	2.1	1.22

HEATING PERFORMANCE at 1005 cfm (475 L/s) Indoor Coil Air Volume 13HPD-030 with [CH23-41 + G60UHV-36B-090]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.16	34.7	10.2
60	16	2.13	32.9	9.6
55	13	2.09	31.1	9.1
50	10	2.05	29.4	8.6
47	8	2.03	28.3	8.3
45	7	2.00	26.7	7.8
40	4	1.92	22.9	6.7
35	2	1.84	19.0	5.6
30	-1	1.83	18.6	5.5
25	-4	1.82	18.2	5.3
20	-7	1.81	17.9	5.2
17	-8	1.81	17.7	5.2
15	-9	1.79	16.9	5.0
10	-12	1.75	15.2	4.5
5	-15	1.64	13.5	4.0
0	-18	1.53	11.9	3.5
-5	-21	1.42	10.2	3.0
-10	-23	1.31	8.6	2.5
-15	-26	1.20	6.9	2.0
-20	-29	1.08	5.3	1.6

HEATING PERFORMANCE at 1005 cfm (475 L/s) Indoor Coil Air Volume 13HPD-030 with [CH33-36B-2F + G60UHV-36B-090]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.21	34.6	10.1
60	16	2.17	32.8	9.6
55	13	2.14	31.0	9.1
50	10	2.11	29.3	8.6
47	8	2.10	28.2	8.3
45	7	2.07	26.7	7.8
40	4	1.99	22.8	6.7
35	2	1.91	18.9	5.5
30	-1	1.91	18.5	5.4
25	-4	1.92	18.2	5.3
20	-7	1.92	17.8	5.2
17	-8	1.92	17.5	5.1
15	-9	1.90	16.8	4.9
10	-12	1.87	15.1	4.4
5	-15	1.75	13.4	3.9
0	-18	1.63	11.8	3.5
-5	-21	1.51	10.2	3.0
-10	-23	1.39	8.5	2.5
-15	-26	1.27	6.9	2.0
-20	-29	1.15	5.3	1.6

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HORIZONTAL INDOOR COILS WITH GAS FURNACES

COOLING CAPACITY - 13HPD-030 with [CH33-36B-2F + G61MPV-36B-070] [CH33-36B-2F + G71MPP-36B-070]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	830	390	29.6	8.7	1.99	.75	.88	1.00	28.6	8.4	2.22	.76	.90	1.00	27.4	8.0	2.48	.77	.92	1.00	26.0	7.6	2.78	.79	.94	1.00
	1010	475	30.8	9.0	2.00	.78	.94	1.00	29.6	8.7	2.23	.80	.96	1.00	28.4	8.3	2.49	.82	.98	1.00	27.0	7.9	2.79	.84	1.00	1.00
	1155	545	31.6	9.3	2.01	.82	.97	1.00	30.4	8.9	2.24	.83	1.00	1.00	29.2	8.6	2.51	.85	1.00	1.00	28.2	8.3	2.80	.88	1.00	1.00
67°F (19°C)	830	390	31.0	9.1	2.00	.60	.72	.84	30.0	8.8	2.24	.60	.73	.86	28.8	8.4	2.50	.61	.75	.88	27.6	8.1	2.79	.61	.76	.91
	1010	475	32.4	9.5	2.02	.62	.76	.90	31.2	9.1	2.25	.63	.78	.92	30.0	8.8	2.51	.63	.79	.95	28.6	8.4	2.81	.65	.81	.98
	1155	545	33.2	9.7	2.02	.64	.79	.94	32.0	9.4	2.26	.65	.81	.97	30.8	9.0	2.52	.66	.83	.99	29.4	8.6	2.81	.67	.85	1.00
71°F (22°C)	830	390	32.4	9.5	2.02	.46	.58	.70	31.2	9.1	2.25	.45	.59	.71	30.2	8.9	2.52	.46	.59	.72	28.8	8.4	2.81	.46	.60	.74
	1010	475	33.8	9.9	2.03	.47	.61	.74	32.6	9.6	2.27	.47	.61	.75	31.4	9.2	2.53	.47	.62	.77	30.2	8.9	2.82	.47	.63	.79
	1155	545	34.6	10.1	2.04	.48	.62	.77	33.4	9.8	2.28	.48	.64	.79	32.2	9.4	2.54	.48	.65	.81	30.8	9.0	2.83	.48	.66	.83

COOLING CAPACITY - 13HPD-030 with [CH33-36C-2F + G61MPV-36C-090] [CH33-36C-2F + G71MPP-36C-090]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	905	425	30.4	8.9	2.00	.77	.91	1.00	29.2	8.6	2.23	.78	.93	1.00	28.0	8.2	2.49	.80	.96	1.00	26.6	7.8	2.79	.82	.98	1.00
	1010	475	31.0	9.1	2.00	.79	.95	1.00	30.0	8.8	2.24	.81	.97	1.00	28.6	8.4	2.50	.83	.99	1.00	27.4	8.0	2.79	.85	1.00	1.00
	1145	540	32.0	9.4	2.01	.82	.98	1.00	30.8	9.0	2.25	.84	1.00	1.00	29.6	8.7	2.51	.86	1.00	1.00	28.2	8.3	2.80	.89	1.00	1.00
67°F (19°C)	905	425	32.0	9.4	2.01	.61	.75	.88	30.8	9.0	2.25	.62	.76	.90	29.6	8.7	2.51	.63	.78	.92	28.2	8.3	2.80	.64	.79	.95
	1010	475	32.8	9.6	2.02	.62	.77	.91	31.6	9.3	2.26	.63	.78	.93	30.4	8.9	2.52	.64	.80	.96	28.8	8.4	2.81	.65	.82	.98
	1145	540	33.4	9.8	2.03	.64	.80	.95	32.2	9.4	2.26	.65	.82	.98	31.0	9.1	2.53	.66	.84	1.00	29.4	8.6	2.81	.68	.86	1.00
71°F (22°C)	905	425	33.4	9.8	2.03	.46	.60	.72	32.2	9.4	2.26	.46	.60	.74	31.0	9.1	2.52	.47	.61	.75	29.6	8.7	2.82	.47	.62	.77
	1010	475	34.2	10.0	2.03	.47	.61	.75	33.0	9.7	2.27	.47	.62	.76	31.8	9.3	2.53	.48	.63	.78	30.4	8.9	2.83	.48	.64	.80
	1145	540	35.0	10.3	2.04	.48	.63	.78	33.8	9.9	2.28	.48	.64	.79	32.4	9.5	2.54	.48	.65	.81	31.0	9.1	2.83	.49	.67	.84

HEATING CAPACITY - 13HPD-030 with [CH33-36B-2F + G61MPV-36B-070] [CH33-36B-2F + G71MPP-36B-070]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
830	390	34.4	10.1	2.34	26.5	7.8	2.20	18.0	5.3	2.05	13.2	3.9	1.89	6.6	1.9	1.41
1010	475	34.8	10.2	2.20	26.8	7.9	2.06	18.3	5.4	1.91	13.6	4.0	1.75	7.0	2.1	1.27
1155	545	35.1	10.3	2.14	27.2	8.0	2.00	18.7	5.5	1.85	13.9	4.1	1.69	7.3	2.1	1.20

HEATING CAPACITY - 13HPD-030 with [CH33-36C-2F + G61MPV-36C-090] [CH33-36C-2F + G71MPP-36C-090]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
905	425	34.5	10.1	2.19	26.6	7.8	2.10	18.0	5.3	1.99	13.3	3.9	1.86	6.7	2.0	1.36
1010	475	34.7	10.2	2.12	26.7	7.8	2.03	18.2	5.3	1.93	13.4	3.9	1.80	6.9	2.0	1.30
1145	540	35.0	10.3	2.06	27.0	7.9	1.97	18.5	5.4	1.86	13.7	4.0	1.73	7.2	2.1	1.23

HEATING PERFORMANCE at 1010 cfm (475 L/s) Indoor Coil Air Volume 13HPD-030 with [CH33-36B-2F + G61MPV-36B-070] [CH33-36B-2F + G71MPP-36B-070]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.20	34.8	10.2
60	16	2.17	33.0	9.7
55	13	2.14	31.2	9.1
50	10	2.11	29.4	8.6
47	8	2.09	28.4	8.3
45	7	2.06	26.8	7.9
40	4	1.99	22.9	6.7
35	2	1.91	19.1	5.6
30	-1	1.91	18.7	5.5
25	-4	1.91	18.3	5.4
20	-7	1.91	17.9	5.2
17	-8	1.91	17.7	5.2
15	-9	1.90	17.0	5.0
10	-12	1.87	15.2	4.5
5	-15	1.75	13.6	4.0
0	-18	1.63	11.9	3.5
-5	-21	1.51	10.3	3.0
-10	-23	1.39	8.6	2.5
-15	-26	1.27	7.0	2.1
-20	-29	1.15	5.3	1.6

HEATING PERFORMANCE at 1010 cfm (475 L/s) Indoor Coil Air Volume 13HPD-030 with [CH33-36C-2F + G61MPV-36C-090] [CH33-36C-2F + G71MPP-36C-090]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.12	34.7	10.2
60	16	2.10	32.9	9.6
55	13	2.09	31.1	9.1
50	10	2.07	29.4	8.6
47	8	2.06	28.3	8.3
45	7	2.03	26.7	7.8
40	4	1.97	22.9	6.7
35	2	1.90	19.0	5.6
30	-1	1.91	18.6	5.5
25	-4	1.93	18.2	5.3
20	-7	1.94	17.8	5.2
17	-8	1.95	17.6	5.2
15	-9	1.94	16.9	5.0
10	-12	1.92	15.1	4.4
5	-15	1.80	13.4	3.9
0	-18	1.67	11.8	3.5
-5	-21	1.55	10.2	3.0
-10	-23	1.42	8.5	2.5
-15	-26	1.30	6.9	2.0
-20	-29	1.17	5.3	1.6

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

AIR HANDLERS

COOLING CAPACITY - 13HPD-036 with [CB26UH-036-R]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1050	495	34.6	10.1	2.31	.75	.88	1.00	33.4	9.8	2.58	.76	.90	1.00	32.2	9.4	2.89	.77	.92	1.00	31.0	9.1	3.24	.79	.94	1.00
	1225	580	35.6	10.4	2.33	.78	.93	1.00	34.4	10.1	2.60	.79	.94	1.00	33.2	9.7	2.90	.81	.97	1.00	32.0	9.4	3.25	.83	.99	1.00
	1350	635	36.2	10.6	2.33	.80	.96	1.00	35.0	10.3	2.60	.81	.97	1.00	33.8	9.9	2.91	.83	.99	1.00	32.6	9.6	3.26	.85	1.00	1.00
67°F (19°C)	1050	495	36.6	10.7	2.34	.60	.73	.85	35.4	10.4	2.61	.60	.74	.87	34.2	10.0	2.92	.61	.75	.88	33.0	9.7	3.27	.62	.76	.91
	1225	580	37.8	11.1	2.35	.62	.76	.90	36.4	10.7	2.63	.62	.77	.91	35.2	10.3	2.93	.63	.78	.94	33.8	9.9	3.28	.64	.80	.96
	1350	635	38.5	11.3	2.36	.63	.78	.93	37.0	10.8	2.64	.64	.79	.95	35.6	10.4	2.94	.65	.81	.97	34.2	10.0	3.29	.66	.83	.99
71°F (22°C)	1050	495	38.5	11.3	2.37	.46	.58	.70	37.4	11.0	2.64	.46	.59	.71	36.0	10.6	2.95	.46	.60	.73	34.6	10.1	3.29	.46	.61	.74
	1225	580	39.5	11.6	2.38	.47	.60	.73	38.5	11.3	2.65	.47	.61	.75	37.0	10.8	2.96	.47	.62	.76	35.6	10.4	3.31	.48	.63	.78
	1350	635	40.5	11.9	2.39	.47	.62	.76	39.0	11.4	2.66	.48	.63	.77	37.6	11.0	2.97	.48	.64	.79	36.2	10.6	3.32	.48	.65	.81

COOLING CAPACITY - 13HPD-036 with [CB27UH-036]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1000	470	34.0	10.0	2.30	.76	.90	1.00	32.8	9.6	2.57	.77	.92	1.00	31.4	9.2	2.87	.78	.93	1.00	30.0	8.8	3.22	.80	.95	1.00
	1200	565	35.0	10.3	2.32	.80	.96	1.00	33.8	9.9	2.59	.81	.97	1.00	32.6	9.6	2.89	.83	.99	1.00	31.2	9.1	3.23	.85	1.00	1.00
67°F (19°C)	1000	470	35.8	10.5	2.33	.60	.73	.86	34.6	10.1	2.60	.61	.74	.88	33.2	9.7	2.90	.61	.76	.90	31.8	9.3	3.24	.62	.77	.92
	1200	565	37.0	10.8	2.34	.62	.77	.93	35.8	10.5	2.61	.63	.79	.94	34.4	10.1	2.92	.64	.81	.96	32.8	9.6	3.26	.65	.83	.98
71°F (22°C)	1000	470	37.6	11.0	2.35	.46	.58	.71	36.4	10.7	2.62	.46	.59	.72	35.0	10.3	2.93	.46	.60	.73	33.6	9.8	3.27	.46	.61	.75
	1200	565	39.0	11.4	2.37	.47	.61	.76	37.6	11.0	2.64	.46	.62	.76	36.2	10.6	2.94	.47	.63	.79	34.6	10.1	3.29	.48	.64	.81

HEATING CAPACITY - 13HPD-036 with [CB26UH-036-R]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1050	495	41.1	12.0	2.45	31.6	9.3	2.28	21.6	6.3	2.10	15.8	4.6	1.88
1225	580	41.3	12.1	2.36	31.9	9.3	2.19	21.8	6.4	2.01	16.1	4.7	1.79
1350	635	41.6	12.2	2.31	32.2	9.4	2.14	22.1	6.5	1.96	16.4	4.8	1.74

Indoor Coil Air Volume 70°F db (21°C db)		-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW	
1050	495	8.0	2.3	1.40
1225	580	8.3	2.4	1.31
1350	635	8.5	2.5	1.25

HEATING CAPACITY - 13HPD-036 with [CB27UH-036]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1000	470	40.4	11.8	2.46	31.0	9.1	2.36	21.0	6.2	2.26	15.2	4.5	2.10
1200	565	40.8	12.0	2.34	31.4	9.2	2.25	21.4	6.3	2.15	15.7	4.6	1.98

Indoor Coil Air Volume 70°F db (21°C db)		-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW	
1000	470	7.6	2.2	1.54
1200	565	8.1	2.4	1.43

HEATING PERFORMANCE at 1225 cfm (580 L/s) Indoor Coil Air Volume 13HPD-036 with [CB26UH-036-R]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.36	41.3	12.1
60	16	2.32	39.2	11.5
55	13	2.28	37.1	10.9
50	10	2.24	35.0	10.3
47	8	2.22	33.7	9.9
45	7	2.19	31.9	9.3
40	4	2.13	27.4	8.0
35	2	2.06	22.9	6.7
30	-1	2.04	22.4	6.6
25	-4	2.01	21.8	6.4
20	-7	1.99	21.3	6.2
17	-8	1.97	21.0	6.2
15	-9	1.96	20.2	5.9
10	-12	1.92	18.1	5.3
5	-15	1.79	16.1	4.7
0	-18	1.67	14.1	4.1
-5	-21	1.55	12.2	3.6
-10	-23	1.43	10.2	3.0
-15	-26	1.31	8.3	2.4
-20	-29	1.18	6.3	1.8

HEATING PERFORMANCE at 1200 cfm (565 L/s) Indoor Coil Air Volume 13HPD-036 with [CB27UH-036]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.34	40.8	12.0
60	16	2.32	38.7	11.3
55	13	2.30	36.6	10.7
50	10	2.28	34.5	10.1
47	8	2.27	33.2	9.7
45	7	2.25	31.4	9.2
40	4	2.19	26.9	7.9
35	2	2.14	22.5	6.6
30	-1	2.14	21.9	6.4
25	-4	2.15	21.4	6.3
20	-7	2.15	20.9	6.1
17	-8	2.15	20.5	6.0
15	-9	2.14	19.7	5.8
10	-12	2.12	17.6	5.2
5	-15	1.98	15.7	4.6
0	-18	1.85	13.8	4.0
-5	-21	1.71	11.9	3.5
-10	-23	1.57	10.0	2.9
-15	-26	1.43	8.1	2.4
-20	-29	1.29	6.2	1.8

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

AIR HANDLERS

COOLING CAPACITY - 13HPD-036 with [CB27UH-042]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1000	470	35.2	10.3	2.32	.75	.89	1.00	34.0	10.0	2.59	.76	.91	1.00	32.6	9.6	2.89	.78	.93	1.00	31.2	9.1	3.23	.79	.95	1.00
	1200	565	36.6	10.7	2.34	.79	.95	1.00	35.2	10.3	2.60	.81	.97	1.00	33.8	9.9	2.91	.83	.99	1.00	32.4	9.5	3.25	.84	1.00	1.00
67°F (19°C)	1000	470	37.2	10.9	2.35	.59	.73	.86	36.0	10.6	2.61	.60	.74	.88	34.6	10.1	2.92	.61	.75	.90	33.2	9.7	3.27	.62	.77	.92
	1200	565	38.5	11.3	2.37	.62	.77	.92	37.2	10.9	2.63	.63	.79	.94	35.8	10.5	2.94	.64	.80	.96	34.2	10.0	3.28	.65	.82	.98
71°F (22°C)	1000	470	39.0	11.4	2.37	.45	.58	.70	37.8	11.1	2.64	.45	.59	.72	36.4	10.7	2.95	.46	.60	.73	35.0	10.3	3.29	.46	.61	.75
	1200	565	40.5	11.9	2.39	.46	.61	.75	39.0	11.4	2.66	.47	.62	.76	37.6	11.0	2.97	.47	.63	.78	36.0	10.6	3.31	.47	.64	.80

COOLING CAPACITY - 13HPD-036 with [CB30M-41]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1050	495	34.4	10.1	2.31	.77	.91	1.00	33.0	9.7	2.58	.78	.93	1.00	31.8	9.3	2.88	.79	.95	1.00	30.4	8.9	3.23	.81	.97	1.00
	1175	555	35.0	10.3	2.32	.79	.95	1.00	33.8	9.9	2.59	.81	.96	1.00	32.4	9.5	2.89	.82	.98	1.00	31.2	9.1	3.24	.84	1.00	1.00
	1350	635	36.0	10.6	2.33	.83	.99	1.00	34.8	10.2	2.60	.85	1.00	1.00	33.4	9.8	2.91	.86	1.00	1.00	32.2	9.4	3.25	.88	1.00	1.00
67°F (19°C)	1050	495	36.2	10.6	2.34	.61	.75	.88	35.0	10.3	2.60	.61	.76	.90	33.6	9.8	2.91	.62	.77	.92	32.2	9.4	3.26	.63	.78	.93
	1175	555	37.0	10.8	2.34	.62	.77	.92	35.8	10.5	2.61	.62	.78	.94	34.4	10.1	2.92	.64	.80	.96	32.8	9.6	3.26	.65	.82	.97
	1350	635	37.8	11.1	2.36	.64	.81	.96	36.6	10.7	2.63	.65	.82	.98	35.0	10.3	2.93	.66	.84	.99	33.6	9.8	3.28	.68	.86	1.00
71°F (22°C)	1050	495	38.0	11.1	2.36	.46	.59	.72	36.8	10.8	2.63	.46	.60	.73	35.4	10.4	2.94	.46	.61	.75	34.0	10.0	3.28	.47	.62	.76
	1175	555	39.0	11.4	2.37	.46	.61	.75	37.6	11.0	2.64	.47	.61	.76	36.2	10.6	2.95	.47	.63	.78	34.6	10.1	3.29	.47	.64	.80
	1350	635	40.0	11.7	2.38	.47	.63	.79	38.5	11.3	2.65	.48	.64	.80	37.0	10.8	2.96	.48	.65	.82	35.4	10.4	3.31	.49	.67	.84

HEATING CAPACITY - 13HPD-036 with [CB27UH-042]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1000	470	40.3	11.8	2.53	31.0	9.1	2.40	21.1	6.2	2.25	15.4	4.5	2.05	7.8	2.3	1.52
1200	565	40.6	11.9	2.40	31.3	9.2	2.27	21.3	6.2	2.12	15.6	4.6	1.92	8.0	2.3	1.39

HEATING CAPACITY - 13HPD-036 with [CB30M-41]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1050	495	40.8	12.0	2.43	31.5	9.2	2.33	21.4	6.3	2.21	15.7	4.6	2.05	7.9	2.3	1.49
1175	555	41.1	12.0	2.37	31.7	9.3	2.27	21.7	6.4	2.15	16.0	4.7	1.99	8.2	2.4	1.43
1350	635	41.5	12.2	2.30	32.1	9.4	2.20	22.1	6.5	2.09	16.3	4.8	1.92	8.6	2.5	1.37

HEATING PERFORMANCE at 1200 cfm (565 L/s) Indoor Coil Air Volume 13HPD-036 with [CB27UH-042]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.40	40.6	11.9
60	16	2.37	38.5	11.3
55	13	2.34	36.4	10.7
50	10	2.31	34.3	10.1
47	8	2.29	33.0	9.7
45	7	2.27	31.3	9.2
40	4	2.21	26.8	7.9
35	2	2.16	22.4	6.6
30	-1	2.14	21.9	6.4
25	-4	2.12	21.3	6.2
20	-7	2.11	20.8	6.1
17	-8	2.10	20.5	6.0
15	-9	2.09	19.6	5.7
10	-12	2.05	17.5	5.1
5	-15	1.92	15.6	4.6
0	-18	1.79	13.7	4.0
-5	-21	1.66	11.8	3.5
-10	-23	1.52	9.9	2.9
-15	-26	1.39	8.0	2.3
-20	-29	1.26	6.1	1.8

HEATING PERFORMANCE at 1175 cfm (555 L/s) Indoor Coil Air Volume 13HPD-036 with [CB30M-41]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.37	41.1	12.0
60	16	2.35	39.0	11.4
55	13	2.32	36.9	10.8
50	10	2.30	34.8	10.2
47	8	2.29	33.5	9.8
45	7	2.27	31.7	9.3
40	4	2.21	27.2	8.0
35	2	2.15	22.8	6.7
30	-1	2.15	22.2	6.5
25	-4	2.15	21.7	6.4
20	-7	2.16	21.2	6.2
17	-8	2.16	20.9	6.1
15	-9	2.15	20.0	5.9
10	-12	2.13	17.9	5.2
5	-15	1.99	16.0	4.7
0	-18	1.85	14.0	4.1
-5	-21	1.71	12.1	3.5
-10	-23	1.57	10.2	3.0
-15	-26	1.43	8.2	2.4
-20	-29	1.29	6.3	1.8

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

AIR HANDLERS

COOLING CAPACITY - 13HPD-036 with [CB30M-46]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1090	515	34.6	10.1	2.31	.77	.92	1.00	33.4	9.8	2.58	.78	.94	1.00	32.0	9.4	2.89	.80	.96	1.00	30.6	9.0	3.23	.82	.98	1.00
	1200	565	35.2	10.3	2.32	.80	.96	1.00	34.0	10.0	2.59	.81	.97	1.00	32.6	9.6	2.90	.83	.99	1.00	31.4	9.2	3.24	.85	1.00	1.00
	1350	635	36.0	10.6	2.33	.83	.99	1.00	34.8	10.2	2.60	.85	1.00	1.00	33.4	9.8	2.91	.86	1.00	1.00	32.2	9.4	3.25	.88	1.00	1.00
67°F (19°C)	1090	515	36.6	10.7	2.34	.61	.75	.89	35.2	10.3	2.61	.61	.76	.91	33.8	9.9	2.91	.63	.78	.93	32.4	9.5	3.26	.63	.80	.94
	1200	565	37.2	10.9	2.35	.62	.77	.92	35.8	10.5	2.62	.63	.79	.94	34.4	10.1	2.92	.64	.80	.96	33.0	9.7	3.27	.65	.82	.98
	1350	635	37.8	11.1	2.36	.64	.81	.96	36.6	10.7	2.63	.65	.82	.98	35.0	10.3	2.93	.66	.84	.99	33.6	9.8	3.28	.68	.86	1.00
71°F (22°C)	1090	515	38.5	11.3	2.37	.46	.60	.73	37.0	10.8	2.64	.46	.60	.74	35.6	10.4	2.94	.47	.61	.75	34.2	10.0	3.29	.47	.62	.77
	1200	565	39.0	11.4	2.37	.47	.61	.76	37.6	11.0	2.64	.47	.62	.76	36.4	10.7	2.95	.47	.63	.79	34.6	10.1	3.29	.48	.64	.80
	1350	635	40.0	11.7	2.38	.47	.63	.79	38.5	11.3	2.65	.48	.64	.80	37.0	10.8	2.96	.48	.65	.82	35.4	10.4	3.31	.49	.67	.84

HEATING CAPACITY - 13HPD-036 with [CB30M-46]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1090	515	41.0	12.0	2.40	31.5	9.2	2.31	21.5	6.3	2.20	15.8	4.6	2.04	8.0	2.3	1.49
1200	565	41.1	12.0	2.34	31.7	9.3	2.25	21.7	6.4	2.15	15.9	4.7	1.98	8.2	2.4	1.43
1350	635	41.6	12.2	2.30	32.2	9.4	2.20	22.2	6.5	2.10	16.4	4.8	1.94	8.7	2.5	1.38

HEATING PERFORMANCE at 1200 cfm (565 L/s) Indoor Coil Air Volume 13HPD-036 with [CB30M-46]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.34	41.1	12.0
60	16	2.32	39.0	11.4
55	13	2.30	36.9	10.8
50	10	2.28	34.8	10.2
47	8	2.27	33.5	9.8
45	7	2.25	31.7	9.3
40	4	2.19	27.2	8.0
35	2	2.14	22.7	6.7
30	-1	2.14	22.2	6.5
25	-4	2.15	21.7	6.4
20	-7	2.15	21.1	6.2
17	-8	2.15	20.8	6.1
15	-9	2.14	20.0	5.9
10	-12	2.12	17.9	5.2
5	-15	1.98	15.9	4.7
0	-18	1.85	14.0	4.1
-5	-21	1.71	12.1	3.5
-10	-23	1.57	10.1	3.0
-15	-26	1.43	8.2	2.4
-20	-29	1.29	6.2	1.8

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

UP-FLOW INDOOR COIL WITH GAS FURNACES

COOLING CAPACITY - 13HPD-036 with [C33-36B + G60UHV-36B-090]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1035	490	33.8	9.9	2.30	.76	.89	1.00	32.6	9.6	2.57	.77	.91	1.00	31.4	9.2	2.88	.78	.93	1.00	30.0	8.8	3.22	.80	.95	1.00
	1225	580	35.0	10.3	2.32	.79	.94	1.00	33.6	9.8	2.59	.80	.96	1.00	32.4	9.5	2.89	.82	.98	1.00	31.2	9.1	3.24	.84	1.00	1.00
	1385	655	35.6	10.4	2.33	.82	.98	1.00	34.4	10.1	2.60	.83	.99	1.00	33.2	9.7	2.90	.85	1.00	1.00	32.0	9.4	3.25	.87	1.00	1.00
67°F (19°C)	1035	490	35.4	10.4	2.32	.60	.73	.86	34.2	10.0	2.59	.61	.75	.88	33.0	9.7	2.90	.62	.76	.90	31.8	9.3	3.25	.62	.77	.92
	1225	580	36.6	10.7	2.34	.62	.77	.91	35.4	10.4	2.61	.63	.78	.93	34.0	10.0	2.92	.64	.80	.95	32.6	9.6	3.26	.65	.81	.97
	1385	655	37.4	11.0	2.35	.64	.80	.95	36.0	10.6	2.62	.65	.81	.97	34.8	10.2	2.93	.66	.83	.99	33.4	9.8	3.27	.67	.85	1.00
71°F (22°C)	1035	490	37.0	10.8	2.34	.46	.59	.71	35.8	10.5	2.61	.46	.60	.72	34.4	10.1	2.92	.47	.60	.74	33.2	9.7	3.27	.47	.61	.75
	1225	580	38.0	11.1	2.36	.47	.61	.75	37.0	10.8	2.63	.47	.62	.76	35.6	10.4	2.94	.48	.63	.78	34.2	10.0	3.29	.48	.64	.79
	1385	655	39.0	11.4	2.37	.48	.63	.78	37.8	11.1	2.64	.48	.64	.79	36.4	10.7	2.95	.48	.65	.81	34.8	10.2	3.30	.49	.66	.83

COOLING CAPACITY - 13HPD-036 with [C33-36C + G60UHV-60C-110]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1295	610	35.2	10.3	2.32	.80	.96	1.00	34.0	10.0	2.59	.82	.98	1.00	32.8	9.6	2.90	.83	.99	1.00	31.4	9.2	3.24	.85	1.00	1.00
	1395	660	35.8	10.5	2.33	.82	.98	1.00	34.6	10.1	2.60	.84	.99	1.00	33.2	9.7	2.90	.85	1.00	1.00	32.0	9.4	3.25	.87	1.00	1.00
67°F (19°C)	1295	610	37.0	10.8	2.34	.63	.78	.93	35.6	10.4	2.61	.64	.80	.95	34.4	10.1	2.92	.65	.81	.97	33.0	9.7	3.27	.66	.83	.99
	1395	660	37.4	11.0	2.35	.64	.80	.95	36.2	10.6	2.62	.65	.81	.97	34.8	10.2	2.93	.66	.83	.99	33.4	9.8	3.27	.67	.85	1.00
71°F (22°C)	1295	610	38.5	11.3	2.37	.47	.62	.76	37.4	11.0	2.64	.48	.63	.78	36.0	10.6	2.95	.48	.64	.79	34.6	10.1	3.29	.48	.65	.81
	1395	660	39.0	11.4	2.37	.48	.63	.78	37.8	11.1	2.64	.48	.64	.79	36.4	10.7	2.95	.48	.65	.81	35.0	10.3	3.30	.49	.66	.83

HEATING CAPACITY - 13HPD-036 with [C33-36B + G60UHV-36B-090]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1035	490	40.3	11.8	2.68	31.0	9.1	2.49	21.1	6.2	2.30	15.4	4.5	2.06	7.7	2.3	1.54
1225	580	40.7	11.9	2.56	31.4	9.2	2.37	21.5	6.3	2.18	15.8	4.6	1.94	8.1	2.4	1.42
1385	655	41.0	12.0	2.49	31.7	9.3	2.30	21.8	6.4	2.10	16.1	4.7	1.87	8.4	2.5	1.34

HEATING CAPACITY - 13HPD-036 with [C33-36C + G60UHV-60C-110]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1295	610	40.7	11.9	2.51	31.4	9.2	2.34	21.5	6.3	2.16	15.8	4.6	1.93	8.1	2.4	1.40
1395	660	40.9	12.0	2.47	31.7	9.3	2.30	21.8	6.4	2.11	16.1	4.7	1.89	8.4	2.5	1.36

HEATING PERFORMANCE at 1225 cfm (580 L/s) Indoor Coil Air Volume 13HPD-036 with [C33-36B + G60UHV-36B-090]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.56	40.7	11.9
60	16	2.52	38.6	11.3
55	13	2.47	36.5	10.7
50	10	2.43	34.4	10.1
47	8	2.40	33.2	9.7
45	7	2.37	31.4	9.2
40	4	2.30	27.0	7.9
35	2	2.23	22.5	6.6
30	-1	2.20	22.0	6.4
25	-4	2.18	21.5	6.3
20	-7	2.15	21.0	6.2
17	-8	2.14	20.7	6.1
15	-9	2.12	19.8	5.8
10	-12	2.08	17.8	5.2
5	-15	1.94	15.8	4.6
0	-18	1.81	13.9	4.1
-5	-21	1.68	12.0	3.5
-10	-23	1.55	10.1	3.0
-15	-26	1.42	8.1	2.4
-20	-29	1.28	6.2	1.8

HEATING PERFORMANCE at 1295 cfm (610 L/s) Indoor Coil Air Volume 13HPD-036 with [C33-36C + G60UHV-60C-110]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.51	40.7	11.9
60	16	2.47	38.6	11.3
55	13	2.43	36.5	10.7
50	10	2.39	34.4	10.1
47	8	2.37	33.2	9.7
45	7	2.34	31.4	9.2
40	4	2.27	27.0	7.9
35	2	2.20	22.6	6.6
30	-1	2.18	22.1	6.5
25	-4	2.16	21.5	6.3
20	-7	2.13	21.0	6.2
17	-8	2.12	20.7	6.1
15	-9	2.10	19.8	5.8
10	-12	2.06	17.8	5.2
5	-15	1.93	15.8	4.6
0	-18	1.80	13.9	4.1
-5	-21	1.67	12.0	3.5
-10	-23	1.54	10.1	3.0
-15	-26	1.40	8.1	2.4
-20	-29	1.27	6.2	1.8

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

UP-FLOW INDOOR COIL WITH GAS FURNACES

COOLING CAPACITY - 13HPD-036 with [C33-36C + G61MPV-36C-090] [C33-36C + G71MPP-36C-090]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1060	500	34.0	10.0	2.30	.76	.90	1.00	32.8	9.6	2.57	.77	.92	1.00	31.6	9.3	2.88	.79	.94	1.00	30.2	8.9	3.22	.80	.96	1.00
	1185	560	34.6	10.1	2.31	.78	.93	1.00	33.4	9.8	2.58	.80	.95	1.00	32.2	9.4	2.89	.81	.97	1.00	31.0	9.1	3.24	.83	.99	1.00
	1395	660	35.8	10.5	2.33	.82	.98	1.00	34.6	10.1	2.60	.84	.99	1.00	33.2	9.7	2.90	.85	1.00	1.00	32.0	9.4	3.25	.87	1.00	1.00
67°F (19°C)	1060	500	35.6	10.4	2.33	.61	.74	.87	34.4	10.1	2.60	.61	.75	.88	33.2	9.7	2.90	.62	.76	.90	31.8	9.3	3.25	.63	.78	.93
	1185	560	36.4	10.7	2.33	.62	.76	.90	35.2	10.3	2.60	.63	.77	.92	33.8	9.9	2.91	.63	.79	.94	32.4	9.5	3.26	.64	.81	.96
	1395	660	37.4	11.0	2.35	.64	.80	.95	36.2	10.6	2.62	.65	.81	.97	34.8	10.2	2.93	.66	.83	.99	33.4	9.8	3.27	.67	.85	1.00
71°F (22°C)	1060	500	37.2	10.9	2.35	.46	.59	.72	36.0	10.6	2.62	.46	.60	.73	34.6	10.1	2.92	.47	.61	.74	33.2	9.7	3.27	.47	.62	.76
	1185	560	38.0	11.1	2.36	.47	.61	.74	36.8	10.8	2.63	.47	.61	.75	35.4	10.4	2.93	.47	.62	.77	34.0	10.0	3.28	.47	.63	.78
	1395	660	39.0	11.4	2.37	.48	.63	.78	37.8	11.1	2.64	.48	.64	.79	36.4	10.7	2.95	.48	.65	.81	35.0	10.3	3.30	.49	.66	.83

COOLING CAPACITY - 13HPD-036 with [C33-36C + G61MPV-60C-090] [C33-36C + G71MPP-60C-090]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1275	600	35.2	10.3	2.32	.80	.95	1.00	34.0	10.0	2.59	.81	.97	1.00	32.6	9.6	2.90	.83	.99	1.00	31.4	9.2	3.24	.85	1.00	1.00
	1380	650	35.6	10.4	2.33	.82	.98	1.00	34.4	10.1	2.60	.83	.99	1.00	33.2	9.7	2.90	.85	1.00	1.00	32.0	9.4	3.25	.87	1.00	1.00
67°F (19°C)	1275	600	36.8	10.8	2.34	.63	.78	.92	35.6	10.4	2.61	.64	.79	.95	34.2	10.0	2.92	.64	.81	.96	32.8	9.6	3.27	.66	.82	.98
	1380	650	37.4	11.0	2.35	.64	.80	.95	36.0	10.6	2.62	.65	.81	.97	34.8	10.2	2.93	.66	.83	.99	33.2	9.7	3.27	.67	.85	1.00
71°F (22°C)	1275	600	38.5	11.3	2.37	.47	.62	.76	37.2	10.9	2.64	.47	.62	.77	35.8	10.5	2.94	.48	.63	.79	34.4	10.1	3.29	.48	.65	.80
	1380	650	39.0	11.4	2.37	.47	.63	.78	37.8	11.1	2.64	.48	.64	.79	36.4	10.7	2.95	.48	.65	.81	34.8	10.2	3.30	.49	.66	.83

HEATING CAPACITY - 13HPD-036 with [C33-36C + G61MPV-36C-090] [C33-36C + G71MPP-36C-090]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1060	500	40.3	11.8	2.67	31.1	9.1	2.47	21.2	6.2	2.27	15.5	4.5	2.03	7.8	2.3	1.50
1185	560	40.6	11.9	2.59	31.4	9.2	2.39	21.5	6.3	2.19	15.8	4.6	1.95	8.1	2.4	1.42
1395	660	41.1	12.0	2.49	31.9	9.3	2.29	22.0	6.4	2.09	16.3	4.8	1.85	8.6	2.5	1.32

HEATING CAPACITY - 13HPD-036 with [C33-36C + G61MPV-60C-090] [C33-36C + G71MPP-60C-090]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1275	600	40.8	12.0	2.53	31.5	9.2	2.35	21.6	6.3	2.16	15.9	4.7	1.93	8.2	2.4	1.41
1380	650	41.0	12.0	2.48	31.7	9.3	2.30	21.8	6.4	2.11	16.1	4.7	1.89	8.4	2.5	1.36

HEATING PERFORMANCE at 1185 cfm (560 L/s) Indoor Coil Air Volume 13HPD-036 with [C33-36C + G61MPV-36C-090] [C33-36C + G71MPP-36C-090]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.59	40.6	11.9
60	16	2.54	38.5	11.3
55	13	2.50	36.5	10.7
50	10	2.45	34.4	10.1
47	8	2.42	33.1	9.7
45	7	2.39	31.4	9.2
40	4	2.32	26.9	7.9
35	2	2.24	22.5	6.6
30	-1	2.21	22.0	6.4
25	-4	2.19	21.5	6.3
20	-7	2.17	21.0	6.2
17	-8	2.15	20.7	6.1
15	-9	2.13	19.8	5.8
10	-12	2.09	17.7	5.2
5	-15	1.95	15.8	4.6
0	-18	1.82	13.9	4.1
-5	-21	1.69	12.0	3.5
-10	-23	1.56	10.0	2.9
-15	-26	1.42	8.1	2.4
-20	-29	1.29	6.2	1.8

HEATING PERFORMANCE at 1275 cfm (600 L/s) Indoor Coil Air Volume 13HPD-036 with [C33-36C + G61MPV-60C-090] [C33-36C + G71MPP-60C-090]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.53	40.8	12.0
60	16	2.49	38.7	11.3
55	13	2.45	36.6	10.7
50	10	2.40	34.5	10.1
47	8	2.38	33.3	9.8
45	7	2.35	31.5	9.2
40	4	2.28	27.1	7.9
35	2	2.21	22.6	6.6
30	-1	2.18	22.1	6.5
25	-4	2.16	21.6	6.3
20	-7	2.14	21.1	6.2
17	-8	2.13	20.7	6.1
15	-9	2.11	19.9	5.8
10	-12	2.07	17.8	5.2
5	-15	1.93	15.9	4.7
0	-18	1.80	14.0	4.1
-5	-21	1.67	12.0	3.5
-10	-23	1.54	10.1	3.0
-15	-26	1.41	8.2	2.4
-20	-29	1.28	6.2	1.8

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

UP-FLOW INDOOR COIL WITH GAS FURNACES

COOLING CAPACITY - 13HPD-036 with [C33-36C + G61MPV-60C-110] [C33-36C + G71MPP-60C-110]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1290	610	35.2	10.3	2.32	.80	.96	1.00	34.0	10.0	2.59	.82	.98	1.00	32.8	9.6	2.90	.83	.99	1.00	31.4	9.2	3.24	.85	1.00	1.00
	1405	665	35.8	10.5	2.33	.82	.98	1.00	34.6	10.1	2.60	.84	1.00	1.00	33.4	9.8	2.91	.85	1.00	1.00	32.0	9.4	3.25	.88	1.00	1.00
67°F (19°C)	1290	610	36.8	10.8	2.34	.63	.78	.93	35.6	10.4	2.61	.64	.80	.95	34.4	10.1	2.92	.65	.81	.97	33.0	9.7	3.27	.66	.83	.99
	1405	665	37.4	11.0	2.35	.64	.80	.96	36.2	10.6	2.62	.65	.82	.97	34.8	10.2	2.93	.66	.83	.99	33.4	9.8	3.27	.67	.85	1.00
71°F (22°C)	1290	610	38.5	11.3	2.37	.47	.62	.76	37.4	11.0	2.64	.48	.63	.77	36.0	10.6	2.94	.48	.64	.79	34.6	10.1	3.29	.48	.65	.81
	1405	665	39.0	11.4	2.37	.48	.63	.78	37.8	11.1	2.65	.48	.64	.80	36.4	10.7	2.95	.48	.65	.81	35.0	10.3	3.30	.49	.66	.83

COOLING CAPACITY - 13HPD-036 with [C33-42B + G60UHV-36B-090]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1035	490	33.8	9.9	2.30	.76	.89	1.00	32.6	9.6	2.57	.77	.91	1.00	31.4	9.2	2.88	.78	.93	1.00	30.0	8.8	3.22	.80	.95	1.00
	1225	580	35.0	10.3	2.32	.79	.94	1.00	33.6	9.8	2.59	.80	.96	1.00	32.4	9.5	2.89	.82	.98	1.00	31.2	9.1	3.24	.84	1.00	1.00
	1385	655	35.6	10.4	2.33	.82	.98	1.00	34.4	10.1	2.60	.83	.99	1.00	33.2	9.7	2.90	.85	1.00	1.00	32.0	9.4	3.25	.87	1.00	1.00
67°F (19°C)	1035	490	35.4	10.4	2.32	.60	.73	.86	34.2	10.0	2.59	.61	.75	.88	33.0	9.7	2.90	.62	.76	.90	31.8	9.3	3.25	.62	.77	.92
	1225	580	36.6	10.7	2.34	.62	.77	.91	35.4	10.4	2.61	.63	.78	.93	34.0	10.0	2.92	.64	.80	.95	32.6	9.6	3.26	.65	.81	.97
	1385	655	37.4	11.0	2.35	.64	.80	.95	36.0	10.6	2.62	.65	.81	.97	34.8	10.2	2.93	.66	.83	.99	33.4	9.8	3.27	.67	.85	1.00
71°F (22°C)	1035	490	37.0	10.8	2.34	.46	.59	.71	35.8	10.5	2.61	.46	.60	.72	34.4	10.1	2.92	.47	.60	.74	33.2	9.7	3.27	.47	.61	.75
	1225	580	38.0	11.1	2.36	.47	.61	.75	37.0	10.8	2.63	.47	.62	.76	35.6	10.4	2.94	.48	.63	.78	34.2	10.0	3.29	.48	.64	.79
	1385	655	39.0	11.4	2.37	.48	.63	.78	37.8	11.1	2.64	.48	.64	.79	36.4	10.7	2.95	.48	.65	.81	34.8	10.2	3.30	.49	.66	.83

HEATING CAPACITY - 13HPD-036 with [C33-36C + G61MPV-60C-110] [C33-36C + G71MPP-60C-110]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1290	610	40.8	12.0	2.52	31.5	9.2	2.34	21.6	6.3	2.16	15.9	4.7	1.93	8.1	2.4	1.40
1405	665	41.0	12.0	2.47	31.7	9.3	2.29	21.8	6.4	2.11	16.1	4.7	1.88	8.4	2.5	1.35

HEATING CAPACITY - 13HPD-036 with [C33-42B + G60UHV-36B-090]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1035	490	40.3	11.8	2.68	31.0	9.1	2.49	21.1	6.2	2.30	15.4	4.5	2.06	7.7	2.3	1.54
1225	580	40.7	11.9	2.56	31.4	9.2	2.37	21.5	6.3	2.18	15.8	4.6	1.94	8.1	2.4	1.42
1385	655	41.0	12.0	2.49	31.7	9.3	2.30	21.8	6.4	2.10	16.1	4.7	1.87	8.4	2.5	1.34

HEATING PERFORMANCE at 1290 cfm (610 L/s) Indoor Coil Air Volume 13HPD-036 with [C33-36C + G61MPV-60C-110] [C33-36C + G71MPP-60C-110]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.52	40.8	12.0
60	16	2.48	38.7	11.3
55	13	2.44	36.6	10.7
50	10	2.40	34.5	10.1
47	8	2.37	33.3	9.8
45	7	2.34	31.5	9.2
40	4	2.27	27.1	7.9
35	2	2.20	22.6	6.6
30	-1	2.18	22.1	6.5
25	-4	2.16	21.6	6.3
20	-7	2.13	21.0	6.2
17	-8	2.12	20.7	6.1
15	-9	2.10	19.9	5.8
10	-12	2.06	17.8	5.2
5	-15	1.93	15.9	4.7
0	-18	1.80	13.9	4.1
-5	-21	1.67	12.0	3.5
-10	-23	1.54	10.1	3.0
-15	-26	1.40	8.1	2.4
-20	-29	1.27	6.2	1.8

HEATING PERFORMANCE at 1225 cfm (580 L/s) Indoor Coil Air Volume 13HPD-036 with [C33-42B + G60UHV-36B-090]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.56	40.7	11.9
60	16	2.52	38.6	11.3
55	13	2.47	36.5	10.7
50	10	2.43	34.4	10.1
47	8	2.40	33.2	9.7
45	7	2.37	31.4	9.2
40	4	2.30	27.0	7.9
35	2	2.23	22.5	6.6
30	-1	2.20	22.0	6.4
25	-4	2.18	21.5	6.3
20	-7	2.15	21.0	6.2
17	-8	2.14	20.7	6.1
15	-9	2.12	19.8	5.8
10	-12	2.08	17.8	5.2
5	-15	1.94	15.8	4.6
0	-18	1.81	13.9	4.1
-5	-21	1.68	12.0	3.5
-10	-23	1.55	10.1	3.0
-15	-26	1.42	8.1	2.4
-20	-29	1.28	6.2	1.8

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

DOWN-FLOW INDOOR COILS WITH GAS FURNACES

COOLING CAPACITY - 13HPD-036 with [CR33-30/36B-F + G60DFV-36B-090]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1040	490	34.2	10.0	2.31	.76	.90	1.00	33.0	9.7	2.58	.77	.91	1.00	31.6	9.3	2.88	.78	.93	1.00	30.4	8.9	3.23	.80	.95	1.00
	1195	565	35.2	10.3	2.32	.79	.94	1.00	33.8	9.9	2.59	.80	.96	1.00	32.6	9.6	2.90	.82	.97	1.00	31.2	9.1	3.24	.83	.99	1.00
	1330	630	35.8	10.5	2.33	.81	.97	1.00	34.6	10.1	2.60	.83	.98	1.00	33.2	9.7	2.90	.85	.99	1.00	31.8	9.3	3.25	.86	1.00	1.00
67°F (19°C)	1040	490	36.0	10.6	2.33	.60	.73	.87	34.8	10.2	2.60	.61	.75	.88	33.4	9.8	2.91	.61	.76	.90	32.0	9.4	3.25	.62	.77	.92
	1195	565	36.8	10.8	2.34	.62	.77	.91	35.6	10.4	2.61	.63	.78	.92	34.2	10.0	2.92	.63	.79	.94	32.8	9.6	3.26	.64	.81	.97
	1330	630	37.4	11.0	2.35	.64	.79	.94	36.2	10.6	2.62	.64	.81	.96	34.8	10.2	2.93	.65	.82	.97	33.4	9.8	3.27	.66	.84	.99
71°F (22°C)	1040	490	37.8	11.1	2.36	.46	.59	.71	36.6	10.7	2.63	.46	.59	.72	35.2	10.3	2.93	.46	.60	.74	33.8	9.9	3.28	.46	.61	.75
	1195	565	38.5	11.3	2.37	.47	.61	.75	37.4	11.0	2.64	.47	.61	.76	36.0	10.6	2.95	.47	.62	.77	34.6	10.1	3.29	.47	.63	.79
	1330	630	39.5	11.6	2.38	.47	.62	.77	38.0	11.1	2.65	.48	.63	.79	36.6	10.7	2.96	.48	.64	.80	35.2	10.3	3.30	.48	.65	.82

COOLING CAPACITY - 13HPD-036 with [CR33-30/36C-F + G61MPV-36C-090] [CR33-30/36C-F + G71MPP-36C-090]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1060	500	34.4	10.1	2.31	.76	.90	1.00	33.0	9.7	2.58	.77	.92	1.00	31.8	9.3	2.88	.79	.94	1.00	30.4	8.9	3.23	.80	.96	1.00
	1185	560	35.0	10.3	2.32	.79	.93	1.00	33.8	9.9	2.59	.80	.95	1.00	32.4	9.5	2.90	.81	.97	1.00	31.0	9.1	3.24	.83	.99	1.00
	1395	660	36.2	10.6	2.33	.83	.98	1.00	34.8	10.2	2.60	.84	.99	1.00	33.6	9.8	2.91	.86	1.00	1.00	32.2	9.4	3.25	.88	1.00	1.00
67°F (19°C)	1060	500	36.0	10.6	2.33	.60	.74	.87	34.8	10.2	2.60	.61	.75	.89	33.6	9.8	2.91	.62	.76	.91	32.2	9.4	3.26	.62	.78	.93
	1185	560	36.8	10.8	2.34	.62	.76	.90	35.6	10.4	2.61	.62	.78	.92	34.2	10.0	2.92	.63	.79	.94	32.8	9.6	3.26	.64	.81	.96
	1395	660	37.8	11.1	2.35	.64	.81	.95	36.4	10.7	2.62	.65	.82	.97	35.0	10.3	2.93	.66	.84	.99	33.6	9.8	3.28	.67	.86	1.00
71°F (22°C)	1060	500	38.0	11.1	2.36	.46	.59	.72	36.6	10.7	2.63	.46	.60	.73	35.4	10.4	2.93	.46	.60	.74	34.0	10.0	3.28	.46	.61	.76
	1185	560	38.5	11.3	2.37	.46	.61	.74	37.4	11.0	2.64	.47	.61	.75	36.0	10.6	2.94	.47	.62	.77	34.6	10.1	3.29	.47	.63	.79
	1395	660	39.5	11.6	2.38	.48	.63	.79	38.5	11.3	2.65	.48	.64	.80	36.8	10.8	2.96	.48	.65	.81	35.4	10.4	3.30	.49	.66	.84

HEATING CAPACITY - 13HPD-036 with [CR33-30/36B-F + G60DFV-36B-090]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1040	490	40.6	11.9	2.46	31.2	9.1	2.28	21.2	6.2	2.09	15.5	4.5	1.87	7.8	2.3	1.39
1195	565	41.0	12.0	2.38	31.6	9.3	2.20	21.6	6.3	2.01	15.8	4.6	1.79	8.1	2.4	1.31
1330	630	41.2	12.1	2.32	31.8	9.3	2.14	21.8	6.4	1.96	16.1	4.7	1.74	8.4	2.5	1.25

HEATING CAPACITY - 13HPD-036 with [CR33-30/36C-F + G61MPV-36C-090] [CR33-30/36C-F + G71MPP-36C-090]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1060	500	40.7	11.9	2.45	31.3	9.2	2.27	21.2	6.2	2.08	15.5	4.5	1.85	7.8	2.3	1.37
1185	560	41.0	12.0	2.39	31.6	9.3	2.21	21.6	6.3	2.02	15.9	4.7	1.79	8.2	2.4	1.31
1395	660	41.5	12.2	2.30	32.1	9.4	2.12	22.0	6.4	1.93	16.3	4.8	1.71	8.6	2.5	1.22

HEATING PERFORMANCE at 1195 cfm (565 L/s) Indoor Coil Air Volume 13HPD-036 with [CR33-30/36B-F + G60DFV-36B-090]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.38	41.0	12.0
60	16	2.33	38.9	11.4
55	13	2.29	36.8	10.8
50	10	2.25	34.6	10.1
47	8	2.22	33.4	9.8
45	7	2.20	31.6	9.3
40	4	2.13	27.1	7.9
35	2	2.06	22.6	6.6
30	-1	2.04	22.1	6.5
25	-4	2.01	21.6	6.3
20	-7	1.99	21.0	6.2
17	-8	1.97	20.7	6.1
15	-9	1.95	19.9	5.8
10	-12	1.91	17.8	5.2
5	-15	1.79	15.8	4.6
0	-18	1.67	13.9	4.1
-5	-21	1.55	12.0	3.5
-10	-23	1.43	10.1	3.0
-15	-26	1.31	8.1	2.4
-20	-29	1.18	6.2	1.8

HEATING PERFORMANCE at 1185 cfm (560 L/s) Indoor Coil Air Volume 13HPD-036 with [CR33-30/36C-F + G61MPV-36C-090] [CR33-30/36C-F + G71MPP-36C-090]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.39	41.0	12.0
60	16	2.35	38.9	11.4
55	13	2.30	36.8	10.8
50	10	2.26	34.7	10.2
47	8	2.23	33.4	9.8
45	7	2.21	31.6	9.3
40	4	2.14	27.1	7.9
35	2	2.07	22.6	6.6
30	-1	2.04	22.1	6.5
25	-4	2.02	21.6	6.3
20	-7	1.99	21.1	6.2
17	-8	1.97	20.8	6.1
15	-9	1.96	19.9	5.8
10	-12	1.91	17.8	5.2
5	-15	1.79	15.9	4.7
0	-18	1.67	13.9	4.1
-5	-21	1.55	12.0	3.5
-10	-23	1.43	10.1	3.0
-15	-26	1.31	8.2	2.4
-20	-29	1.19	6.2	1.8

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

DOWN-FLOW INDOOR COILS WITH GAS FURNACES

COOLING CAPACITY - 13HPD-036 with [CR33-30/36C-F + G61MPV-60C-090] [CR33-30/36C-F + G71MPP-60C-090]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F	1275	600	35.6	10.4	2.32	.80	.96	1.00	34.4	10.1	2.59	.82	.97	1.00	33.0	9.7	2.90	.83	.99	1.00	31.6	9.3	3.24	.85	1.00	1.00
(17°C)	1380	650	36.0	10.6	2.33	.82	.98	1.00	34.8	10.2	2.60	.84	.99	1.00	33.4	9.8	2.91	.86	1.00	1.00	32.0	9.4	3.25	.87	1.00	1.00
67°F	1275	600	37.2	10.9	2.35	.63	.78	.93	36.0	10.6	2.62	.64	.80	.94	34.6	10.1	2.92	.65	.81	.96	33.2	9.7	3.27	.66	.83	.98
(19°C)	1380	650	37.8	11.1	2.35	.64	.80	.95	36.4	10.7	2.62	.65	.82	.97	35.0	10.3	2.93	.66	.83	.99	33.6	9.8	3.28	.67	.85	1.00
71°F	1275	600	39.0	11.4	2.37	.47	.62	.76	37.8	11.1	2.65	.47	.63	.77	36.4	10.7	2.95	.47	.63	.79	35.0	10.3	3.30	.48	.65	.81
(22°C)	1380	650	39.5	11.6	2.38	.47	.63	.78	38.5	11.3	2.65	.48	.64	.80	36.8	10.8	2.96	.48	.65	.81	35.4	10.4	3.30	.49	.66	.83

COOLING CAPACITY - 13HPD-036 with [CR33-30/36C-F + G61MPV-60C-110] [CR33-30/36C-F + G71MPP-60C-110]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F	1290	610	35.6	10.4	2.33	.81	.96	1.00	34.4	10.1	2.60	.82	.98	1.00	33.0	9.7	2.90	.84	.99	1.00	31.6	9.3	3.25	.86	1.00	1.00
(17°C)	1405	665	36.2	10.6	2.33	.83	.98	1.00	35.0	10.3	2.60	.84	.99	1.00	33.6	9.8	2.91	.86	1.00	1.00	32.2	9.4	3.26	.88	1.00	1.00
67°F	1290	610	37.4	11.0	2.35	.63	.79	.93	36.0	10.6	2.62	.64	.80	.95	34.6	10.1	2.93	.65	.82	.97	33.2	9.7	3.27	.66	.83	.99
(19°C)	1405	665	37.8	11.1	2.35	.64	.81	.96	36.4	10.7	2.62	.65	.82	.97	35.2	10.3	2.93	.66	.84	.99	33.6	9.8	3.28	.67	.86	1.00
71°F	1290	610	39.0	11.4	2.38	.47	.62	.76	37.8	11.1	2.65	.47	.63	.78	36.4	10.7	2.95	.48	.64	.79	35.0	10.3	3.30	.48	.65	.81
(22°C)	1405	665	39.5	11.6	2.38	.48	.63	.79	38.5	11.3	2.65	.48	.64	.80	37.0	10.8	2.96	.48	.65	.82	35.4	10.4	3.30	.49	.67	.84

HEATING CAPACITY - 13HPD-036 with [CR33-30/36C-F + G61MPV-60C-090] [CR33-30/36C-F + G71MPP-60C-090]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1275	600	41.1	12.0	2.33	31.7	9.3	2.17	21.7	6.4	1.99	15.9	4.7	1.78	8.2	2.4	1.29
1380	650	41.3	12.1	2.30	31.9	9.3	2.13	21.9	6.4	1.95	16.1	4.7	1.74	8.4	2.5	1.25

HEATING CAPACITY - 13HPD-036 with [CR33-30/36C-F + G61MPV-60C-110] [CR33-30/36C-F + G71MPP-60C-110]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1290	610	41.1	12.0	2.32	31.7	9.3	2.16	21.7	6.4	1.99	15.9	4.7	1.77	8.2	2.4	1.29
1405	665	41.3	12.1	2.29	31.9	9.3	2.12	21.9	6.4	1.95	16.1	4.7	1.74	8.4	2.5	1.25

HEATING PERFORMANCE at 1275 cfm (600 L/s) Indoor Coil Air Volume 13HPD-036 with [CR33-30/36C-F + G61MPV-60C-090] [CR33-30/36C-F + G71MPP-60C-090]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.33	41.1	12.0
60	16	2.29	39.0	11.4
55	13	2.25	36.9	10.8
50	10	2.21	34.8	10.2
47	8	2.19	33.5	9.8
45	7	2.17	31.7	9.3
40	4	2.10	27.2	8.0
35	2	2.04	22.7	6.7
30	-1	2.02	22.2	6.5
25	-4	1.99	21.7	6.4
20	-7	1.97	21.1	6.2
17	-8	1.95	20.8	6.1
15	-9	1.94	20.0	5.9
10	-12	1.90	17.9	5.2
5	-15	1.78	15.9	4.7
0	-18	1.65	14.0	4.1
-5	-21	1.53	12.1	3.5
-10	-23	1.41	10.1	3.0
-15	-26	1.29	8.2	2.4
-20	-29	1.17	6.2	1.8

HEATING PERFORMANCE at 1290 cfm (610 L/s) Indoor Coil Air Volume 13HPD-036 with [CR33-30/36C-F + G61MPV-60C-110] [CR33-30/36C-F + G71MPP-60C-110]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.32	41.1	12.0
60	16	2.29	39.0	11.4
55	13	2.25	36.9	10.8
50	10	2.21	34.8	10.2
47	8	2.18	33.5	9.8
45	7	2.16	31.7	9.3
40	4	2.10	27.2	8.0
35	2	2.03	22.7	6.7
30	-1	2.01	22.2	6.5
25	-4	1.99	21.7	6.4
20	-7	1.96	21.1	6.2
17	-8	1.95	20.8	6.1
15	-9	1.93	20.0	5.9
10	-12	1.89	17.8	5.2
5	-15	1.77	15.9	4.7
0	-18	1.65	14.0	4.1
-5	-21	1.53	12.0	3.5
-10	-23	1.41	10.1	3.0
-15	-26	1.29	8.2	2.4
-20	-29	1.17	6.2	1.8

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

DOWN-FLOW INDOOR COILS WITH GAS FURNACES

COOLING CAPACITY - 13HPD-036 with [CR33-48B-F + G60DFV-36B-090]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1040	490	34.0	10.0	2.30	.74	.87	.99	32.8	9.6	2.58	.75	.89	1.00	31.8	9.3	2.88	.77	.91	1.00	30.4	8.9	3.23	.78	.93	1.00
	1195	565	34.8	10.2	2.31	.77	.91	1.00	33.8	9.9	2.59	.78	.93	1.00	32.6	9.6	2.89	.79	.95	1.00	31.2	9.1	3.24	.81	.97	1.00
	1330	630	35.4	10.4	2.32	.79	.94	1.00	34.4	10.1	2.60	.80	.96	1.00	33.2	9.7	2.90	.82	.98	1.00	31.8	9.3	3.25	.84	1.00	1.00
67°F (19°C)	1040	490	35.8	10.5	2.33	.59	.72	.84	34.8	10.2	2.60	.60	.73	.86	33.6	9.8	2.91	.61	.74	.88	32.2	9.4	3.26	.62	.76	.90
	1195	565	36.8	10.8	2.34	.61	.74	.88	35.6	10.4	2.61	.62	.76	.89	34.4	10.1	2.92	.62	.77	.92	33.0	9.7	3.27	.63	.79	.94
	1330	630	37.4	11.0	2.35	.62	.76	.91	36.2	10.6	2.62	.63	.78	.93	35.0	10.3	2.93	.64	.80	.95	33.6	9.8	3.28	.65	.81	.98
71°F (22°C)	1040	490	37.8	11.1	2.36	.45	.58	.70	36.6	10.7	2.63	.45	.59	.71	35.4	10.4	2.94	.45	.59	.72	34.0	10.0	3.28	.46	.60	.73
	1195	565	38.5	11.3	2.37	.46	.59	.72	37.4	11.0	2.64	.46	.60	.73	36.2	10.6	2.95	.46	.61	.75	34.8	10.2	3.29	.47	.62	.77
	1330	630	39.5	11.6	2.38	.47	.61	.74	38.0	11.1	2.65	.47	.62	.76	36.8	10.8	2.96	.48	.63	.77	35.4	10.4	3.30	.48	.64	.79

HEATING CAPACITY - 13HPD-036 with [CR33-48B-F + G60DFV-36B-090]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1040	490	40.4	11.8	2.55	31.1	9.1	2.37	21.2	6.2	2.17	15.5	4.5	1.94	7.8	2.3	1.44
1195	565	40.7	11.9	2.47	31.4	9.2	2.28	21.5	6.3	2.09	15.8	4.6	1.86	8.1	2.4	1.35
1330	630	41.1	12.0	2.41	31.8	9.3	2.22	21.8	6.4	2.02	16.2	4.7	1.79	8.5	2.5	1.29

HEATING PERFORMANCE at 1195 cfm (565 L/s) Indoor Coil Air Volume 13HPD-036 with [CR33-48B-F + G60DFV-36B-090]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.47	40.7	11.9
60	16	2.42	38.7	11.3
55	13	2.38	36.6	10.7
50	10	2.34	34.5	10.1
47	8	2.31	33.2	9.7
45	7	2.28	31.4	9.2
40	4	2.21	27.0	7.9
35	2	2.14	22.5	6.6
30	-1	2.11	22.0	6.4
25	-4	2.09	21.5	6.3
20	-7	2.06	21.0	6.2
17	-8	2.04	20.7	6.1
15	-9	2.03	19.8	5.8
10	-12	1.98	17.7	5.2
5	-15	1.86	15.8	4.6
0	-18	1.73	13.9	4.1
-5	-21	1.61	12.0	3.5
-10	-23	1.48	10.0	2.9
-15	-26	1.35	8.1	2.4
-20	-29	1.23	6.2	1.8

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HORIZONTAL INDOOR COILS WITH GAS FURNACES

COOLING CAPACITY - 13HPD-036 with [CH23-41 + G60UHV-36B-090]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																						
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1035	490	33.0	9.7	2.29	.74	.87	.98	32.0	9.4	2.56	.75	.89	.99	30.8	9.0	2.87	.76	.91	1.00	29.6	8.7	3.22	.78	.92	1.00
	1225	580	34.2	10.0	2.31	.77	.92	1.00	33.2	9.7	2.58	.78	.94	1.00	32.0	9.4	2.89	.80	.96	1.00	30.8	9.0	3.23	.82	.98	1.00
	1385	655	35.0	10.3	2.32	.80	.95	1.00	34.0	10.0	2.59	.81	.97	1.00	33.0	9.7	2.90	.83	.99	1.00	31.8	9.3	3.25	.85	1.00	1.00
67°F (19°C)	1035	490	35.2	10.3	2.32	.59	.72	.84	34.2	10.0	2.59	.60	.73	.85	33.0	9.7	2.90	.61	.74	.87	31.6	9.3	3.25	.61	.75	.89
	1225	580	36.2	10.6	2.33	.61	.75	.88	35.2	10.3	2.61	.62	.76	.90	34.0	10.0	2.91	.63	.78	.93	32.6	9.6	3.26	.64	.80	.95
	1385	655	37.0	10.8	2.34	.62	.78	.92	35.8	10.5	2.62	.64	.79	.94	34.6	10.1	2.92	.65	.81	.96	33.2	9.7	3.27	.66	.83	.98
71°F (22°C)	1035	490	37.2	10.9	2.35	.45	.58	.69	36.2	10.6	2.62	.45	.58	.71	34.8	10.2	2.93	.46	.59	.72	33.6	9.8	3.28	.46	.60	.73
	1225	580	38.5	11.3	2.37	.45	.60	.73	37.2	10.9	2.64	.47	.61	.74	36.0	10.6	2.95	.46	.61	.76	34.6	10.1	3.29	.47	.63	.77
	1385	655	39.5	11.6	2.38	.47	.61	.75	38.0	11.1	2.65	.47	.62	.77	36.8	10.8	2.96	.47	.63	.79	35.4	10.4	3.30	.48	.65	.81

COOLING CAPACITY - 13HPD-036 with [CH23-41 + G61MPV-36C-090] [CH23-41 + G71MPP-36C-090]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																						
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1060	500	33.2	9.7	2.29	.74	.88	.99	32.2	9.4	2.57	.75	.89	1.00	31.0	9.1	2.87	.77	.91	1.00	29.8	8.7	3.22	.78	.93	1.00
	1185	560	34.0	10.0	2.30	.76	.90	1.00	33.0	9.7	2.57	.78	.92	1.00	31.8	9.3	2.88	.79	.95	1.00	30.6	9.0	3.23	.81	.97	1.00
	1395	660	35.2	10.3	2.32	.80	.96	1.00	34.2	10.0	2.59	.81	.97	1.00	33.0	9.7	2.90	.83	.99	1.00	31.8	9.3	3.25	.85	1.00	1.00
67°F (19°C)	1060	500	35.4	10.4	2.32	.60	.72	.84	34.2	10.0	2.59	.60	.73	.86	33.0	9.7	2.90	.61	.75	.88	31.8	9.3	3.25	.61	.76	.90
	1185	560	36.0	10.6	2.33	.61	.74	.88	35.0	10.3	2.60	.61	.75	.89	33.8	9.9	2.91	.62	.77	.91	32.4	9.5	3.26	.63	.79	.94
	1395	660	37.0	10.8	2.34	.63	.78	.93	35.8	10.5	2.62	.64	.79	.95	34.6	10.1	2.92	.65	.81	.97	33.2	9.7	3.27	.66	.83	.98
71°F (22°C)	1060	500	37.4	11.0	2.35	.45	.58	.70	36.4	10.7	2.62	.45	.59	.71	35.0	10.3	2.93	.46	.60	.72	33.8	9.9	3.28	.46	.60	.74
	1185	560	38.5	11.3	2.36	.46	.60	.72	37.0	10.8	2.63	.46	.60	.73	35.8	10.5	2.94	.46	.61	.75	34.4	10.1	3.29	.47	.62	.76
	1395	660	39.5	11.6	2.38	.47	.62	.76	38.0	11.1	2.65	.47	.63	.77	36.8	10.8	2.96	.47	.63	.79	35.4	10.4	3.30	.48	.65	.81

HEATING CAPACITY - 13HPD-036 with [CH23-41 + G60UHV-36B-090]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1035	490	40.4	11.8	2.59	31.1	9.1	2.39	21.2	6.2	2.20	15.5	4.5	1.96	7.8	2.3	1.46
1225	580	40.8	12.0	2.48	31.5	9.2	2.28	21.6	6.3	2.09	15.9	4.7	1.85	8.2	2.4	1.35
1385	655	41.2	12.1	2.41	31.9	9.3	2.22	21.9	6.4	2.02	16.3	4.8	1.78	8.5	2.5	1.28

HEATING CAPACITY - 13HPD-036 with [CH23-41 + G61MPV-36C-090] [CH23-41 + G71MPP-36C-090]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1060	500	40.4	11.8	2.58	31.1	9.1	2.38	21.2	6.2	2.17	15.6	4.6	1.93	7.8	2.3	1.43
1185	560	40.7	11.9	2.50	31.4	9.2	2.30	21.5	6.3	2.10	15.9	4.7	1.86	8.1	2.4	1.36
1395	660	41.3	12.1	2.41	32.1	9.4	2.22	22.1	6.5	2.01	16.5	4.8	1.77	8.8	2.6	1.27

HEATING PERFORMANCE at 1225 cfm (580 L/s) Indoor Coil Air Volume 13HPD-036 with [CH23-41 + G60UHV-36B-090]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.48	40.8	12.0
60	16	2.43	38.7	11.3
55	13	2.38	36.6	10.7
50	10	2.34	34.5	10.1
47	8	2.31	33.3	9.8
45	7	2.28	31.5	9.2
40	4	2.21	27.0	7.9
35	2	2.14	22.6	6.6
30	-1	2.11	22.1	6.5
25	-4	2.09	21.6	6.3
20	-7	2.06	21.0	6.2
17	-8	2.04	20.7	6.1
15	-9	2.02	19.9	5.8
10	-12	1.97	17.8	5.2
5	-15	1.85	15.9	4.7
0	-18	1.72	13.9	4.1
-5	-21	1.60	12.0	3.5
-10	-23	1.47	10.1	3.0
-15	-26	1.35	8.2	2.4
-20	-29	1.22	6.2	1.8

HEATING PERFORMANCE at 1185 cfm (560 L/s) Indoor Coil Air Volume 13HPD-036 with [CH23-41 + G61MPV-36C-090] [CH23-41 + G71MPP-36C-090]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.50	40.7	11.9
60	16	2.45	38.6	11.3
55	13	2.41	36.6	10.7
50	10	2.36	34.5	10.1
47	8	2.33	33.2	9.7
45	7	2.30	31.4	9.2
40	4	2.23	27.0	7.9
35	2	2.16	22.6	6.6
30	-1	2.13	22.0	6.4
25	-4	2.10	21.5	6.3
20	-7	2.07	21.0	6.2
17	-8	2.05	20.7	6.1
15	-9	2.03	19.9	5.8
10	-12	1.98	17.8	5.2
5	-15	1.86	15.9	4.7
0	-18	1.73	13.9	4.1
-5	-21	1.61	12.0	3.5
-10	-23	1.48	10.1	3.0
-15	-26	1.36	8.1	2.4
-20	-29	1.23	6.2	1.8

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HORIZONTAL INDOOR COILS WITH GAS FURNACES

COOLING CAPACITY - 13HPD-036 with [CH23-41 + G61MPV-60C-110] [CH23-41 + G71MPP-60C-110]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1290	610	34.6	10.1	2.31	.78	.93	1.00	33.6	9.8	2.58	.79	.95	1.00	32.4	9.5	2.89	.81	.97	1.00	31.2	9.1	3.24	.83	.99	1.00
	1405	665	35.2	10.3	2.32	.80	.96	1.00	34.2	10.0	2.59	.81	.97	1.00	33.0	9.7	2.90	.83	.99	1.00	32.0	9.4	3.25	.85	1.00	1.00
67°F (19°C)	1290	610	36.6	10.7	2.34	.62	.76	.90	35.4	10.4	2.61	.63	.77	.92	34.2	10.0	2.92	.63	.79	.94	32.8	9.6	3.27	.65	.81	.96
	1405	665	37.2	10.9	2.35	.63	.78	.93	36.0	10.6	2.62	.64	.79	.95	34.6	10.1	2.92	.65	.81	.97	33.2	9.7	3.27	.66	.83	.99
71°F (22°C)	1290	610	39.0	11.4	2.37	.46	.61	.74	37.6	11.0	2.64	.46	.61	.75	36.4	10.7	2.95	.47	.62	.77	35.0	10.3	3.30	.47	.64	.79
	1405	665	39.5	11.6	2.38	.47	.62	.76	38.0	11.1	2.65	.47	.63	.77	36.8	10.8	2.96	.47	.63	.79	35.4	10.4	3.31	.48	.65	.81

COOLING CAPACITY - 13HPD-036 with [CH33-36C-2F + G61MPV-36C-090] [CH33-36C-2F + G71MPP-36C-090]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1060	500	34.4	10.1	2.31	.77	.91	1.00	33.2	9.7	2.58	.78	.92	1.00	31.8	9.3	2.88	.79	.94	1.00	30.4	8.9	3.23	.81	.97	1.00
	1185	560	35.0	10.3	2.32	.79	.94	1.00	33.8	9.9	2.59	.80	.96	1.00	32.4	9.5	2.89	.82	.98	1.00	31.2	9.1	3.24	.83	1.00	1.00
	1395	660	36.2	10.6	2.33	.83	.99	1.00	35.0	10.3	2.60	.84	1.00	1.00	33.6	9.8	2.91	.86	1.00	1.00	32.4	9.5	3.26	.88	1.00	1.00
67°F (19°C)	1060	500	36.0	10.6	2.33	.61	.74	.88	34.8	10.2	2.60	.61	.76	.89	33.4	9.8	2.91	.62	.77	.91	32.2	9.4	3.25	.63	.78	.93
	1185	560	36.8	10.8	2.34	.62	.77	.91	35.6	10.4	2.61	.63	.78	.93	34.2	10.0	2.92	.64	.80	.95	32.8	9.6	3.27	.65	.81	.97
	1395	660	37.8	11.1	2.36	.65	.81	.97	36.4	10.7	2.63	.65	.82	.98	35.2	10.3	2.93	.66	.84	1.00	33.6	9.8	3.28	.68	.86	1.00
71°F (22°C)	1060	500	37.4	11.0	2.35	.46	.59	.72	36.2	10.6	2.62	.46	.60	.73	35.0	10.3	2.93	.47	.61	.75	33.6	9.8	3.28	.47	.62	.76
	1185	560	38.5	11.3	2.37	.47	.61	.75	37.0	10.8	2.64	.47	.62	.76	35.6	10.4	2.94	.47	.63	.77	34.2	10.0	3.29	.47	.64	.79
	1395	660	39.5	11.6	2.38	.48	.64	.79	38.0	11.1	2.65	.48	.64	.80	36.8	10.8	2.96	.49	.66	.82	35.4	10.4	3.30	.49	.67	.84

HEATING CAPACITY - 13HPD-036 with [CH23-41 + G61MPV-60C-110] [CH23-41 + G71MPP-60C-110]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1290	610	40.9	12.0	2.44	31.6	9.3	2.25	21.6	6.3	2.07	15.9	4.7	1.84	8.2	2.4	1.34
1405	665	41.2	12.1	2.40	31.9	9.3	2.21	21.9	6.4	2.03	16.2	4.7	1.80	8.5	2.5	1.30

HEATING CAPACITY - 13HPD-036 with [CH33-36C-2F + G61MPV-36C-090] [CH33-36C-2F + G71MPP-36C-090]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1060	500	40.5	11.9	2.57	31.1	9.1	2.41	21.2	6.2	2.25	15.5	4.5	2.05	7.8	2.3	1.50
1185	560	40.7	11.9	2.50	31.4	9.2	2.34	21.5	6.3	2.18	15.8	4.6	1.98	8.1	2.4	1.43
1395	660	41.3	12.1	2.40	31.9	9.3	2.24	22.0	6.4	2.08	16.3	4.8	1.88	8.6	2.5	1.33

HEATING PERFORMANCE at 1290 cfm (610 L/s) Indoor Coil Air Volume 13HPD-036 with [CH23-41 + G61MPV-60C-110] [CH23-41 + G71MPP-60C-110]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.44	40.9	12.0
60	16	2.39	38.8	11.4
55	13	2.35	36.7	10.8
50	10	2.31	34.6	10.1
47	8	2.28	33.4	9.8
45	7	2.25	31.6	9.3
40	4	2.19	27.1	7.9
35	2	2.12	22.6	6.6
30	-1	2.09	22.1	6.5
25	-4	2.07	21.6	6.3
20	-7	2.04	21.1	6.2
17	-8	2.02	20.8	6.1
15	-9	2.01	19.9	5.8
10	-12	1.96	17.9	5.2
5	-15	1.84	15.9	4.7
0	-18	1.71	14.0	4.1
-5	-21	1.59	12.0	3.5
-10	-23	1.46	10.1	3.0
-15	-26	1.34	8.2	2.4
-20	-29	1.21	6.2	1.8

HEATING PERFORMANCE at 1185 cfm (560 L/s) Indoor Coil Air Volume 13HPD-036 with [CH33-36C + G61MPV-36C-090] [CH33-36C + G71MPP-36C-090]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.50	40.7	11.9
60	16	2.46	38.6	11.3
55	13	2.43	36.5	10.7
50	10	2.39	34.5	10.1
47	8	2.37	33.2	9.7
45	7	2.34	31.4	9.2
40	4	2.28	27.0	7.9
35	2	2.21	22.5	6.6
30	-1	2.20	22.0	6.4
25	-4	2.18	21.5	6.3
20	-7	2.17	21.0	6.2
17	-8	2.16	20.7	6.1
15	-9	2.15	19.8	5.8
10	-12	2.11	17.7	5.2
5	-15	1.98	15.8	4.6
0	-18	1.84	13.9	4.1
-5	-21	1.71	12.0	3.5
-10	-23	1.57	10.0	2.9
-15	-26	1.43	8.1	2.4
-20	-29	1.30	6.2	1.8

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HORIZONTAL INDOOR COILS WITH GAS FURNACES

COOLING CAPACITY - 13HPD-036 with [CH33-36C-2F + G61MPV-60C-090] [CH33-36C-2F + G71MPP-60C-090]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1275	600	35.6	10.4	2.32	.81	.97	1.00	34.4	10.1	2.60	.82	.98	1.00	33.0	9.7	2.90	.84	1.00	1.00	31.8	9.3	3.25	.85	1.00	1.00
	1380	650	36.0	10.6	2.33	.83	.99	1.00	34.8	10.2	2.60	.84	1.00	1.00	33.6	9.8	2.91	.86	1.00	1.00	32.4	9.5	3.26	.88	1.00	1.00
67°F (19°C)	1275	600	37.2	10.9	2.35	.63	.78	.94	36.0	10.6	2.62	.64	.80	.95	34.6	10.1	2.93	.65	.81	.97	33.2	9.7	3.27	.66	.83	.99
	1380	650	37.8	11.1	2.36	.64	.81	.96	36.4	10.7	2.63	.65	.82	.98	35.2	10.3	2.93	.66	.84	.99	33.6	9.8	3.28	.68	.86	1.00
71°F (22°C)	1275	600	39.0	11.4	2.37	.47	.62	.76	37.6	11.0	2.64	.48	.63	.78	36.2	10.6	2.95	.48	.64	.79	34.8	10.2	3.29	.48	.65	.81
	1380	650	39.5	11.6	2.38	.48	.63	.78	38.0	11.1	2.65	.48	.64	.80	36.8	10.8	2.96	.49	.65	.82	35.2	10.3	3.30	.49	.67	.84

COOLING CAPACITY - 13HPD-036 with [CH33-36C-2F + G61MPV-60C-110] [CH33-36C-2F + G71MPP-60C-110]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1290	610	35.6	10.4	2.32	.81	.97	1.00	34.4	10.1	2.60	.82	.98	1.00	33.0	9.7	2.90	.84	1.00	1.00	31.8	9.3	3.25	.86	1.00	1.00
	1405	665	36.2	10.6	2.33	.83	.99	1.00	35.0	10.3	2.60	.85	1.00	1.00	33.8	9.9	2.91	.86	1.00	1.00	32.4	9.5	3.26	.88	1.00	1.00
67°F (19°C)	1290	610	37.4	11.0	2.35	.63	.79	.94	36.0	10.6	2.62	.64	.80	.96	34.8	10.2	2.93	.65	.82	.98	33.2	9.7	3.27	.66	.84	1.00
	1405	665	38.0	11.1	2.36	.65	.81	.97	36.6	10.7	2.63	.65	.82	.98	35.2	10.3	2.93	.66	.84	1.00	33.6	9.8	3.28	.68	.86	1.00
71°F (22°C)	1290	610	39.0	11.4	2.37	.47	.62	.77	37.8	11.1	2.64	.48	.63	.78	36.4	10.7	2.95	.48	.64	.80	34.8	10.2	3.30	.48	.65	.82
	1405	665	39.5	11.6	2.38	.48	.64	.79	38.5	11.3	2.65	.48	.65	.80	36.8	10.8	2.96	.49	.66	.82	35.4	10.4	3.30	.49	.67	.84

HEATING CAPACITY - 13HPD-036 with [CH33-36C-2F + G61MPV-60C-090] [CH33-36C-2F + G71MPP-60C-090]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1275	600	40.9	12.0	2.44	31.5	9.2	2.30	21.6	6.3	2.15	15.9	4.7	1.96	8.1	2.4	1.42
1380	650	41.1	12.0	2.39	31.8	9.3	2.25	21.8	6.4	2.10	16.1	4.7	1.91	8.4	2.5	1.37

HEATING CAPACITY - 13HPD-036 with [CH33-36C-2F + G61MPV-60C-110] [CH33-36C-2F + G71MPP-60C-110]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1290	610	40.9	12.0	2.43	31.5	9.2	2.29	21.6	6.3	2.15	15.8	4.6	1.95	8.1	2.4	1.41
1405	665	41.1	12.0	2.38	31.8	9.3	2.24	21.8	6.4	2.10	16.1	4.7	1.90	8.4	2.5	1.36

HEATING PERFORMANCE at 1275 cfm (600 L/s) Indoor Coil Air Volume 13HPD-036 with [CH33-36C-2F + G61MPV-60C-090] [CH33-36C-2F + G71MPP-60C-090]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.50	40.7	11.9
60	16	2.46	38.6	11.3
55	13	2.43	36.5	10.7
50	10	2.39	34.5	10.1
47	8	2.37	33.2	9.7
45	7	2.34	31.4	9.2
40	4	2.28	27.0	7.9
35	2	2.21	22.5	6.6
30	-1	2.20	22.0	6.4
25	-4	2.18	21.5	6.3
20	-7	2.17	21.0	6.2
17	-8	2.16	20.7	6.1
15	-9	2.15	19.8	5.8
10	-12	2.11	17.7	5.2
5	-15	1.98	15.8	4.6
0	-18	1.84	13.9	4.1
-5	-21	1.71	12.0	3.5
-10	-23	1.57	10.0	2.9
-15	-26	1.43	8.1	2.4
-20	-29	1.30	6.2	1.8

HEATING PERFORMANCE at 1290 cfm (610 L/s) Indoor Coil Air Volume 13HPD-036 with [CH33-36C-2F + G61MPV-60C-110] [CH33-36C-2F + G71MPP-60C-110]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.43	40.9	12.0
60	16	2.40	38.8	11.4
55	13	2.37	36.7	10.8
50	10	2.34	34.6	10.1
47	8	2.32	33.3	9.8
45	7	2.29	31.5	9.2
40	4	2.23	27.1	7.9
35	2	2.17	22.6	6.6
30	-1	2.16	22.1	6.5
25	-4	2.15	21.6	6.3
20	-7	2.14	21.0	6.2
17	-8	2.13	20.7	6.1
15	-9	2.12	19.9	5.8
10	-12	2.09	17.8	5.2
5	-15	1.95	15.8	4.6
0	-18	1.82	13.9	4.1
-5	-21	1.68	12.0	3.5
-10	-23	1.55	10.1	3.0
-15	-26	1.41	8.1	2.4
-20	-29	1.28	6.2	1.8

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

AIR HANDLERS

COOLING CAPACITY - 13HPD-042 with [CB26UH-042-R]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1325	625	41.0	12.0	2.46	.76	.91	1.00	39.5	11.6	2.76	.78	.92	1.00	38.0	11.1	3.10	.79	.94	1.00	36.6	10.7	3.49	.81	.97	1.00
	1500	710	41.5	12.2	2.47	.79	.94	1.00	40.5	11.9	2.77	.80	.96	1.00	39.0	11.4	3.10	.82	.98	1.00	37.6	11.0	3.50	.84	1.00	1.00
	1675	790	42.5	12.5	2.48	.81	.97	1.00	41.5	12.2	2.77	.83	.99	1.00	40.0	11.7	3.12	.85	1.00	1.00	38.5	11.3	3.51	.87	1.00	1.00
67°F (19°C)	1325	625	43.0	12.6	2.49	.61	.74	.87	41.5	12.2	2.78	.62	.75	.89	40.0	11.7	3.12	.62	.77	.91	38.5	11.3	3.50	.63	.78	.93
	1500	710	44.0	12.9	2.49	.62	.77	.91	42.5	12.5	2.79	.63	.78	.93	41.0	12.0	3.12	.64	.80	.95	39.5	11.6	3.51	.65	.81	.97
	1675	790	44.5	13.0	2.50	.64	.79	.95	43.0	12.6	2.79	.65	.81	.97	41.5	12.2	3.13	.66	.82	.99	40.0	11.7	3.52	.67	.85	1.00
71°F (22°C)	1325	625	45.5	13.3	2.51	.46	.59	.72	44.0	12.9	2.80	.47	.60	.73	42.5	12.5	3.14	.47	.61	.75	41.0	12.0	3.52	.47	.62	.76
	1500	710	46.5	13.6	2.52	.47	.61	.74	45.0	13.2	2.81	.47	.62	.76	43.5	12.7	3.15	.48	.63	.77	42.0	12.3	3.53	.48	.62	.79
	1675	790	47.5	13.9	2.54	.48	.63	.77	46.0	13.5	2.82	.48	.64	.78	44.0	12.9	3.15	.48	.65	.80	42.5	12.5	3.54	.49	.66	.82

COOLING CAPACITY - 13HPD-042 with [CB30M-46]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1270	600	39.0	11.4	2.35	.78	.93	1.00	37.8	11.1	2.64	.79	.95	1.00	36.2	10.6	2.97	.81	.97	1.00	34.6	10.1	3.34	.83	.99	1.00
	1400	660	40.0	11.7	2.35	.81	.96	1.00	38.5	11.3	2.64	.82	.97	1.00	37.0	10.8	2.97	.83	.99	1.00	35.4	10.4	3.35	.86	1.00	1.00
	1555	735	40.5	11.9	2.36	.83	.99	1.00	39.0	11.4	2.65	.85	1.00	1.00	37.8	11.1	2.98	.87	1.00	1.00	36.4	10.7	3.35	.89	1.00	1.00
67°F (19°C)	1270	600	41.5	12.2	2.37	.61	.76	.90	40.0	11.7	2.65	.62	.77	.92	38.5	11.3	2.98	.63	.78	.94	36.8	10.8	3.36	.64	.80	.96
	1400	660	42.0	12.3	2.38	.63	.78	.93	40.5	11.9	2.66	.64	.80	.94	39.0	11.4	2.99	.64	.81	.97	37.4	11.0	3.36	.65	.83	.98
	1555	735	43.0	12.6	2.38	.64	.81	.96	41.5	12.2	2.66	.65	.83	.98	39.5	11.6	2.99	.66	.84	.99	38.0	11.1	3.36	.67	.87	1.00
71°F (22°C)	1270	600	43.5	12.7	2.39	.46	.60	.74	42.0	12.3	2.67	.46	.61	.75	40.5	11.9	3.00	.47	.62	.76	39.0	11.4	3.37	.47	.62	.78
	1400	660	44.5	13.0	2.40	.47	.62	.76	43.0	12.6	2.68	.47	.63	.77	41.0	12.0	3.00	.47	.63	.79	39.5	11.6	3.37	.48	.64	.81
	1555	735	45.0	13.2	2.41	.48	.64	.79	43.5	12.7	2.69	.48	.64	.80	42.0	12.3	3.01	.48	.65	.82	40.0	11.7	3.38	.49	.67	.84

HEATING CAPACITY - 13HPD-042 with [CB26UH-042-R]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1325	625	48.9	14.3	2.90	37.8	11.1	2.69	25.9	7.6	2.46	19.1	5.6	2.23	9.8	2.9	1.65
1500	710	49.0	14.4	2.82	37.8	11.1	2.61	25.9	7.6	2.38	19.1	5.6	2.15	9.8	2.9	1.57
1675	790	49.5	14.5	2.76	38.4	11.3	2.55	26.4	7.7	2.33	19.7	5.8	2.10	10.4	3.0	1.51

HEATING CAPACITY - 13HPD-042 with [CB30M-46]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1270	600	45.2	13.2	3.01	35.3	10.3	2.74	24.8	7.3	2.46	17.6	5.2	2.17	8.9	2.6	1.60
1400	660	45.6	13.4	2.96	35.6	10.4	2.69	25.2	7.4	2.41	17.9	5.2	2.12	9.2	2.7	1.55
1555	735	45.9	13.5	2.90	36.0	10.6	2.63	25.6	7.5	2.35	18.3	5.4	2.06	9.6	2.8	1.50

HEATING PERFORMANCE at 1500 cfm (710 L/s) Indoor Coil Air Volume 13HPD-042 with [CB26UH-042-R]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.82	49.0	14.4
60	16	2.77	46.5	13.6
55	13	2.72	44.0	12.9
50	10	2.68	41.5	12.2
47	8	2.65	40.0	11.7
45	7	2.61	37.8	11.1
40	4	2.50	32.5	9.5
35	2	2.40	27.1	7.9
30	-1	2.39	26.5	7.8
25	-4	2.38	25.9	7.6
20	-7	2.37	25.3	7.4
17	-8	2.36	25.0	7.3
15	-9	2.35	24.0	7.0
10	-12	2.30	21.5	6.3
5	-15	2.15	19.1	5.6
0	-18	2.01	16.8	4.9
-5	-21	1.86	14.5	4.2
-10	-23	1.71	12.2	3.6
-15	-26	1.57	9.8	2.9
-20	-29	1.42	7.5	2.2

HEATING PERFORMANCE at 1400 cfm (660 L/s) Indoor Coil Air Volume 13HPD-042 with [CB30M-46]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.96	45.6	13.4
60	16	2.89	43.2	12.7
55	13	2.83	40.9	12.0
50	10	2.77	38.6	11.3
47	8	2.73	37.2	10.9
45	7	2.69	35.6	10.4
40	4	2.59	31.5	9.2
35	2	2.49	27.4	8.0
30	-1	2.45	26.3	7.7
25	-4	2.41	25.2	7.4
20	-7	2.37	24.0	7.0
17	-8	2.35	23.4	6.9
15	-9	2.33	22.4	6.6
10	-12	2.26	20.1	5.9
5	-15	2.12	17.9	5.2
0	-18	1.98	15.8	4.6
-5	-21	1.84	13.6	4.0
-10	-23	1.70	11.4	3.3
-15	-26	1.55	9.2	2.7
-20	-29	1.41	7.0	2.1

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

UP-FLOW INDOOR COIL WITH GAS FURNACES

COOLING CAPACITY - 13HPD-042 with [C33-38B + G60UHV-36B-090]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1110	525	39.0	11.4	2.38	.74	.88	1.00	37.8	11.1	2.67	.75	.89	1.00	36.4	10.7	3.00	.76	.91	1.00	34.8	10.2	3.38	.78	.93	1.00
	1290	610	40.5	11.9	2.39	.77	.92	1.00	39.0	11.4	2.68	.78	.94	1.00	37.4	11.0	3.01	.80	.96	1.00	35.8	10.5	3.39	.82	.98	1.00
	1385	655	41.0	12.0	2.40	.79	.94	1.00	39.5	11.6	2.69	.80	.96	1.00	38.0	11.1	3.02	.82	.98	1.00	36.4	10.7	3.40	.84	1.00	1.00
67°F (19°C)	1110	525	41.5	12.2	2.40	.59	.72	.84	40.0	11.7	2.69	.60	.73	.86	38.5	11.3	3.02	.61	.74	.88	37.0	10.8	3.40	.61	.75	.90
	1290	610	43.0	12.6	2.42	.61	.75	.89	41.5	12.2	2.70	.61	.76	.90	39.5	11.6	3.03	.62	.78	.93	38.0	11.1	3.41	.63	.79	.95
	1385	655	43.5	12.7	2.42	.62	.76	.91	42.0	12.3	2.71	.62	.78	.93	40.0	11.7	3.03	.63	.80	.95	38.5	11.3	3.41	.64	.81	.97
71°F (22°C)	1110	525	43.5	12.7	2.43	.45	.58	.69	42.5	12.5	2.71	.46	.58	.71	41.0	12.0	3.04	.46	.59	.72	39.0	11.4	3.42	.46	.59	.74
	1290	610	45.0	13.2	2.44	.46	.60	.73	43.5	12.7	2.73	.46	.60	.74	42.0	12.3	3.05	.46	.61	.75	40.0	11.7	3.43	.47	.62	.77
	1385	655	45.5	13.3	2.45	.47	.60	.74	44.0	12.9	2.73	.47	.61	.75	42.5	12.5	3.06	.47	.62	.77	40.5	11.9	3.43	.47	.63	.79

COOLING CAPACITY - 13HPD-042 with [C33-38B + G61MPV-36B-045]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1150	545	39.5	11.6	2.38	.75	.89	1.00	38.0	11.1	2.67	.76	.90	1.00	36.6	10.7	3.01	.77	.92	1.00	35.0	10.3	3.39	.79	.94	1.00
	1330	630	40.5	11.9	2.40	.78	.93	1.00	39.0	11.4	2.68	.79	.95	1.00	37.6	11.0	3.01	.81	.97	1.00	36.2	10.6	3.39	.83	.99	1.00
	1330	630	40.5	11.9	2.40	.78	.93	1.00	39.0	11.4	2.68	.79	.95	1.00	37.6	11.0	3.01	.81	.97	1.00	36.2	10.6	3.39	.83	.99	1.00
67°F (19°C)	1150	545	42.0	12.3	2.41	.59	.73	.85	40.5	11.9	2.69	.60	.74	.87	39.0	11.4	3.02	.61	.75	.88	37.2	10.9	3.40	.62	.76	.91
	1330	630	43.0	12.6	2.42	.61	.76	.89	41.5	12.2	2.70	.62	.76	.91	40.0	11.7	3.03	.63	.78	.93	38.0	11.1	3.41	.64	.80	.96
	1330	630	43.0	12.6	2.42	.61	.76	.89	41.5	12.2	2.70	.62	.76	.91	40.0	11.7	3.03	.63	.78	.93	38.0	11.1	3.41	.64	.80	.96
71°F (22°C)	1150	545	44.0	12.9	2.43	.45	.58	.70	42.5	12.5	2.72	.46	.58	.71	41.0	12.0	3.04	.46	.59	.73	39.5	11.6	3.42	.46	.60	.74
	1330	630	45.5	13.3	2.45	.46	.60	.73	44.0	12.9	2.73	.46	.60	.74	42.0	12.3	3.05	.46	.61	.76	40.5	11.9	3.43	.47	.63	.78
	1330	630	45.5	13.3	2.45	.46	.60	.73	44.0	12.9	2.73	.46	.60	.74	42.0	12.3	3.05	.46	.61	.76	40.5	11.9	3.43	.47	.63	.78

HEATING CAPACITY - 13HPD-042 with [C33-38B + G60UHV-36B-090]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1110	525	44.0	12.9	3.09	34.7	10.2	2.82	24.8	7.3	2.55	18.1	5.3	2.26	9.0	2.6	1.69
1290	610	44.5	13.0	2.94	35.1	10.3	2.68	25.3	7.4	2.40	18.6	5.5	2.11	9.4	2.8	1.54
1385	655	44.7	13.1	2.87	35.4	10.4	2.61	25.5	7.5	2.34	18.8	5.5	2.04	9.7	2.8	1.48

HEATING CAPACITY - 13HPD-042 with [C33-38B + G61MPV-36B-045]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1150	540	44.2	13.0	3.05	34.8	10.2	2.79	25.0	7.3	2.52	18.2	5.3	2.24	8.9	2.6	1.67
1330	630	45.0	13.2	2.91	35.6	10.4	2.65	25.8	7.6	2.39	19.0	5.6	2.10	9.7	2.8	1.54

HEATING PERFORMANCE at 1290 cfm (610 L/s) Indoor Coil Air Volume 13HPD-042 with [C33-38B + G60UHV-36B-090]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.94	44.5	13.0
60	16	2.88	42.3	12.4
55	13	2.81	40.2	11.8
50	10	2.75	38.0	11.1
47	8	2.71	36.8	10.8
45	7	2.68	35.1	10.3
40	4	2.58	31.1	9.1
35	2	2.48	27.1	7.9
30	-1	2.44	26.2	7.7
25	-4	2.40	25.3	7.4
20	-7	2.36	24.4	7.2
17	-8	2.34	23.9	7.0
15	-9	2.31	23.0	6.7
10	-12	2.25	20.9	6.1
5	-15	2.11	18.6	5.5
0	-18	1.97	16.3	4.8
-5	-21	1.83	14.0	4.1
-10	-23	1.69	11.7	3.4
-15	-26	1.54	9.4	2.8
-20	-29	1.40	7.2	2.1

HEATING PERFORMANCE at 1330 cfm (630 L/s) Indoor Coil Air Volume 13HPD-042 with [C33-38B + G61MPV-36B-045]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.91	45.0	13.2
60	16	2.85	42.8	12.5
55	13	2.79	40.7	11.9
50	10	2.73	38.5	11.3
47	8	2.69	37.2	10.9
45	7	2.65	35.6	10.4
40	4	2.56	31.6	9.3
35	2	2.47	27.5	8.1
30	-1	2.43	26.6	7.8
25	-4	2.39	25.8	7.6
20	-7	2.35	24.9	7.3
17	-8	2.33	24.4	7.2
15	-9	2.30	23.5	6.9
10	-12	2.24	21.4	6.3
5	-15	2.10	19.0	5.6
0	-18	1.96	16.7	4.9
-5	-21	1.82	14.3	4.2
-10	-23	1.68	12.0	3.5
-15	-26	1.54	9.7	2.8
-20	-29	1.40	7.3	2.1

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

UP-FLOW INDOOR COIL WITH GAS FURNACES

COOLING CAPACITY - 13HPD-042 with [C33-38B + G61MPV-36B-070] [C33-38B + G71MPP-36B-070]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1105	520	39.0	11.4	2.38	.74	.87	1.00	37.8	11.1	2.67	.75	.89	1.00	36.2	10.6	3.01	.76	.91	1.00	34.8	10.2	3.38	.78	.93	1.00
	1280	605	40.5	11.9	2.39	.77	.92	1.00	39.0	11.4	2.68	.78	.94	1.00	37.4	11.0	3.01	.80	.95	1.00	35.8	10.5	3.39	.82	.98	1.00
	1395	660	41.0	12.0	2.40	.79	.95	1.00	39.5	11.6	2.69	.80	.96	1.00	38.0	11.1	3.02	.82	.98	1.00	36.4	10.7	3.40	.84	1.00	1.00
67°F (19°C)	1105	520	41.5	12.2	2.40	.59	.72	.84	40.0	11.7	2.69	.60	.73	.86	38.5	11.3	3.02	.60	.74	.87	37.0	10.8	3.40	.61	.75	.89
	1280	605	42.5	12.5	2.42	.61	.75	.88	41.0	12.0	2.70	.61	.76	.90	39.5	11.6	3.03	.62	.77	.92	38.0	11.1	3.41	.63	.79	.94
	1395	660	43.5	12.7	2.42	.62	.76	.91	42.0	12.3	2.71	.62	.78	.93	40.5	11.9	3.04	.64	.80	.95	38.5	11.3	3.41	.65	.81	.97
71°F (22°C)	1105	520	43.5	12.7	2.43	.45	.58	.69	42.0	12.3	2.71	.45	.58	.70	40.5	11.9	3.04	.46	.59	.72	39.0	11.4	3.41	.46	.59	.73
	1280	605	45.0	13.2	2.44	.46	.60	.73	43.5	12.7	2.72	.46	.60	.74	42.0	12.3	3.05	.46	.61	.75	40.0	11.7	3.42	.47	.62	.77
	1395	660	45.5	13.3	2.45	.47	.60	.74	44.0	12.9	2.73	.47	.61	.75	42.5	12.5	3.06	.47	.62	.77	40.5	11.9	3.43	.47	.63	.79

COOLING CAPACITY - 13HPD-042 with [C33-43B + G60UHV-36B-090]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1110	525	39.5	11.6	2.38	.74	.87	.99	38.0	11.1	2.67	.75	.88	1.00	36.6	10.7	3.00	.76	.90	1.00	35.0	10.3	3.39	.77	.92	1.00
	1290	610	41.0	12.0	2.40	.76	.91	1.00	39.5	11.6	2.68	.78	.93	1.00	37.8	11.1	3.01	.79	.95	1.00	36.2	10.6	3.39	.81	.97	1.00
	1385	655	41.5	12.2	2.40	.78	.93	1.00	40.0	11.7	2.69	.79	.95	1.00	38.5	11.3	3.02	.81	.97	1.00	36.8	10.8	3.40	.83	.99	1.00
67°F (19°C)	1110	525	41.5	12.2	2.41	.59	.71	.84	40.0	11.7	2.69	.59	.73	.85	38.5	11.3	3.02	.60	.73	.87	37.0	10.8	3.40	.61	.75	.89
	1290	610	43.0	12.6	2.42	.60	.74	.88	41.5	12.2	2.70	.61	.75	.89	40.0	11.7	3.03	.62	.77	.91	38.0	11.1	3.41	.63	.78	.94
	1385	655	43.5	12.7	2.42	.61	.76	.90	42.0	12.3	2.71	.62	.77	.92	40.5	11.9	3.04	.63	.79	.94	38.5	11.3	3.41	.64	.80	.96
71°F (22°C)	1110	525	44.0	12.9	2.43	.45	.57	.69	42.5	12.5	2.71	.45	.58	.70	41.0	12.0	3.04	.46	.59	.71	39.0	11.4	3.42	.46	.59	.73
	1290	610	45.0	13.2	2.45	.46	.59	.72	44.0	12.9	2.73	.46	.60	.73	42.0	12.3	3.05	.47	.61	.74	40.5	11.9	3.43	.47	.62	.76
	1385	655	46.0	13.5	2.45	.46	.60	.73	44.0	12.9	2.73	.47	.61	.75	42.5	12.5	3.06	.47	.62	.76	41.0	12.0	3.43	.47	.63	.78

HEATING CAPACITY - 13HPD-042 with [C33-38B + G61MPV-36B-070] [C33-38B + G71MPP-36B-070]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1105	520	44.2	13.0	3.10	34.8	10.2	2.83	25.0	7.3	2.56	18.3	5.4	2.27	9.0	2.6	1.70
1280	605	44.7	13.1	2.94	35.4	10.4	2.68	25.6	7.5	2.41	18.8	5.5	2.11	9.6	2.8	1.55
1395	660	45.1	13.2	2.88	35.7	10.5	2.61	25.9	7.6	2.34	19.2	5.6	2.05	9.9	2.9	1.48

HEATING CAPACITY - 13HPD-042 with [C33-43B + G60UHV-36B-090]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1110	525	44.0	12.9	3.12	34.7	10.2	2.82	24.8	7.3	2.52	18.1	5.3	2.21	9.0	2.6	1.66
1290	610	44.5	13.0	2.97	35.1	10.3	2.68	25.3	7.4	2.38	18.6	5.5	2.07	9.5	2.8	1.52
1385	655	44.7	13.1	2.92	35.4	10.4	2.62	25.5	7.5	2.32	18.8	5.5	2.01	9.7	2.8	1.46

HEATING PERFORMANCE at 1280 cfm (605 L/s) Indoor Coil Air Volume 13HPD-042 with [C33-38B + G61MPV-36B-070] [C33-38B + G71MPP-36B-070]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.94	44.7	13.1
60	16	2.88	42.6	12.5
55	13	2.82	40.4	11.8
50	10	2.76	38.3	11.2
47	8	2.72	37.0	10.8
45	7	2.68	35.4	10.4
40	4	2.58	31.3	9.2
35	2	2.49	27.3	8.0
30	-1	2.45	26.4	7.7
25	-4	2.41	25.6	7.5
20	-7	2.37	24.7	7.2
17	-8	2.34	24.2	7.1
15	-9	2.32	23.3	6.8
10	-12	2.25	21.2	6.2
5	-15	2.11	18.8	5.5
0	-18	1.97	16.5	4.8
-5	-21	1.83	14.2	4.2
-10	-23	1.69	11.9	3.5
-15	-26	1.55	9.6	2.8
-20	-29	1.41	7.3	2.1

HEATING PERFORMANCE at 1290 cfm (610 L/s) Indoor Coil Air Volume 13HPD-042 with [C33-43B + G60UHV-36B-090]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.97	44.5	13.0
60	16	2.90	42.3	12.4
55	13	2.83	40.2	11.8
50	10	2.76	38.0	11.1
47	8	2.72	36.8	10.8
45	7	2.68	35.1	10.3
40	4	2.57	31.1	9.1
35	2	2.47	27.1	7.9
30	-1	2.42	26.2	7.7
25	-4	2.38	25.3	7.4
20	-7	2.33	24.4	7.2
17	-8	2.30	23.9	7.0
15	-9	2.28	23.0	6.7
10	-12	2.21	20.9	6.1
5	-15	2.07	18.6	5.5
0	-18	1.93	16.3	4.8
-5	-21	1.79	14.0	4.1
-10	-23	1.66	11.7	3.4
-15	-26	1.52	9.5	2.8
-20	-29	1.38	7.2	2.1

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

UP-FLOW INDOOR COIL WITH GAS FURNACES

COOLING CAPACITY - 13HPD-042 with [C33-43B + G61MPV-36B-045]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1150	545	39.5	11.6	2.38	.74	.88	1.00	38.5	11.3	2.67	.75	.89	1.00	36.8	10.8	3.00	.77	.91	1.00	35.2	10.3	3.38	.78	.93	1.00
	1330	630	41.0	12.0	2.40	.77	.92	1.00	39.5	11.6	2.68	.78	.94	1.00	38.0	11.1	3.01	.80	.96	1.00	36.2	10.6	3.39	.82	.98	1.00
67°F (19°C)	1150	545	42.0	12.3	2.41	.59	.72	.84	40.5	11.9	2.69	.60	.73	.86	38.5	11.3	3.02	.60	.74	.88	37.2	10.9	3.40	.61	.76	.90
	1330	630	43.0	12.6	2.42	.61	.75	.89	41.5	12.2	2.70	.61	.76	.90	40.0	11.7	3.03	.63	.78	.93	38.0	11.1	3.40	.64	.79	.95
71°F (22°C)	1150	545	44.0	12.9	2.43	.45	.58	.70	42.5	12.5	2.71	.46	.58	.71	41.0	12.0	3.04	.46	.59	.72	39.5	11.6	3.41	.46	.60	.73
	1330	630	45.5	13.3	2.45	.46	.59	.73	44.0	12.9	2.73	.46	.60	.74	42.0	12.3	3.05	.47	.61	.75	40.5	11.9	3.42	.47	.62	.77

COOLING CAPACITY - 13HPD-042 with [C33-43B + G61MPV-36B-070] [C33-43B + G71MPP-36B-070]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1105	520	39.5	11.6	2.38	.74	.87	.99	38.0	11.1	2.67	.75	.88	1.00	36.6	10.7	3.01	.76	.90	1.00	35.0	10.3	3.39	.77	.92	1.00
	1280	605	40.5	11.9	2.40	.76	.91	1.00	39.5	11.6	2.68	.78	.92	1.00	37.8	11.1	3.01	.79	.95	1.00	36.2	10.6	3.39	.81	.97	1.00
	1395	660	41.5	12.2	2.40	.78	.93	1.00	40.0	11.7	2.69	.79	.95	1.00	38.5	11.3	3.02	.81	.97	1.00	36.8	10.8	3.40	.83	.99	1.00
67°F (19°C)	1105	520	41.5	12.2	2.40	.59	.71	.83	40.0	11.7	2.69	.59	.72	.85	38.5	11.3	3.02	.60	.73	.86	36.8	10.8	3.40	.61	.75	.88
	1280	605	43.0	12.6	2.42	.60	.74	.87	41.5	12.2	2.70	.61	.75	.89	39.5	11.6	3.03	.62	.77	.91	38.0	11.1	3.41	.63	.78	.93
	1395	660	43.5	12.7	2.43	.61	.76	.90	42.0	12.3	2.71	.62	.77	.92	40.5	11.9	3.04	.63	.79	.94	39.0	11.4	3.41	.64	.80	.96
71°F (22°C)	1105	520	44.0	12.9	2.43	.45	.57	.69	42.5	12.5	2.71	.45	.58	.70	41.0	12.0	3.04	.46	.58	.71	39.0	11.4	3.42	.46	.59	.73
	1280	605	45.0	13.2	2.45	.46	.59	.72	43.5	12.7	2.73	.46	.60	.73	42.0	12.3	3.05	.46	.60	.74	40.5	11.9	3.43	.47	.62	.76
	1395	660	46.0	13.5	2.45	.46	.60	.74	44.0	12.9	2.73	.47	.61	.75	42.5	12.5	3.06	.47	.62	.77	41.0	12.0	3.43	.47	.63	.78

HEATING CAPACITY - 13HPD-042 with [C33-43B + G61MPV-36B-045]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1150	540	44.2	13.0	3.04	34.9	10.2	2.76	25.1	7.4	2.48	18.4	5.4	2.18	9.0	2.6	1.64
1330	630	44.9	13.2	2.90	35.5	10.4	2.62	25.7	7.5	2.33	19.0	5.6	2.03	9.6	2.8	1.49

HEATING CAPACITY - 13HPD-042 with [C33-43B + G61MPV-36B-070] [C33-43B + G71MPP-36B-070]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1105	520	44.2	13.0	3.13	34.8	10.2	2.83	25.0	7.3	2.53	18.3	5.4	2.22	9.1	2.7	1.67
1280	605	44.6	13.1	2.98	35.3	10.3	2.69	25.5	7.5	2.38	18.8	5.5	2.07	9.5	2.8	1.52
1395	660	45.1	13.2	2.91	35.7	10.5	2.62	25.9	7.6	2.31	19.2	5.6	2.00	10.0	2.9	1.45

HEATING PERFORMANCE at 1330 cfm (630 L/s) Indoor Coil Air Volume 13HPD-042 with [C33-43B + G61MPV-36B-045]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.90	44.9	13.2
60	16	2.83	42.7	12.5
55	13	2.76	40.6	11.9
50	10	2.70	38.4	11.3
47	8	2.66	37.2	10.9
45	7	2.62	35.5	10.4
40	4	2.52	31.5	9.2
35	2	2.43	27.4	8.0
30	-1	2.38	26.6	7.8
25	-4	2.33	25.7	7.5
20	-7	2.29	24.8	7.3
17	-8	2.26	24.3	7.1
15	-9	2.24	23.5	6.9
10	-12	2.17	21.3	6.2
5	-15	2.03	19.0	5.6
0	-18	1.90	16.7	4.9
-5	-21	1.76	14.3	4.2
-10	-23	1.63	12.0	3.5
-15	-26	1.49	9.6	2.8
-20	-29	1.36	7.3	2.1

HEATING PERFORMANCE at 1280 cfm (605 L/s) Indoor Coil Air Volume 13HPD-042 with [C33-43B + G61MPV-36B-070] [C33-43B + G71MPP-36B-070]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.98	44.6	13.1
60	16	2.91	42.5	12.5
55	13	2.84	40.4	11.8
50	10	2.77	38.2	11.2
47	8	2.73	36.9	10.8
45	7	2.69	35.3	10.3
40	4	2.58	31.3	9.2
35	2	2.47	27.2	8.0
30	-1	2.43	26.4	7.7
25	-4	2.38	25.5	7.5
20	-7	2.33	24.6	7.2
17	-8	2.31	24.1	7.1
15	-9	2.28	23.3	6.8
10	-12	2.21	21.1	6.2
5	-15	2.07	18.8	5.5
0	-18	1.93	16.5	4.8
-5	-21	1.80	14.2	4.2
-10	-23	1.66	11.9	3.5
-15	-26	1.52	9.5	2.8
-20	-29	1.39	7.2	2.1

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

UP-FLOW INDOOR COIL WITH GAS FURNACES

COOLING CAPACITY - 13HPD-042 with [C33-43C + G60UHV-60C-090]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F	1355	640	41.0	12.0	2.40	.77	.92	1.00	39.5	11.6	2.69	.79	.94	1.00	38.5	11.3	3.02	.80	.96	1.00	36.6	10.7	3.40	.82	.98	1.00
(17°C)	1520	715	42.0	12.3	2.41	.80	.96	1.00	40.5	11.9	2.70	.82	.98	1.00	39.0	11.4	3.03	.83	1.00	1.00	37.4	11.0	3.40	.85	1.00	1.00
67°F	1355	640	43.0	12.6	2.42	.61	.75	.89	42.0	12.3	2.71	.62	.77	.91	40.0	11.7	3.04	.63	.78	.93	38.5	11.3	3.41	.64	.80	.95
(19°C)	1520	715	44.5	13.0	2.43	.63	.78	.93	42.5	12.5	2.72	.64	.79	.95	41.0	12.0	3.04	.65	.81	.97	39.0	11.4	3.42	.66	.83	.99
71°F	1355	640	45.5	13.3	2.45	.46	.60	.73	44.0	12.9	2.73	.46	.60	.74	42.5	12.5	3.05	.47	.62	.76	40.5	11.9	3.43	.47	.62	.77
(22°C)	1520	715	46.5	13.6	2.46	.47	.62	.76	45.0	13.2	2.74	.47	.62	.77	43.5	12.7	3.06	.48	.64	.79	41.5	12.2	3.43	.48	.65	.81

COOLING CAPACITY - 13HPD-042 with [C33-43C + G60UHV-60C-110]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F	1295	610	41.0	12.0	2.40	.77	.91	1.00	39.5	11.6	2.68	.78	.93	1.00	37.8	11.1	3.01	.79	.95	1.00	36.2	10.6	3.39	.81	.97	1.00
(17°C)	1460	690	42.0	12.3	2.41	.79	.95	1.00	40.5	11.9	2.69	.81	.97	1.00	39.0	11.4	3.02	.82	.99	1.00	37.0	10.8	3.40	.84	1.00	1.00
67°F	1295	610	43.0	12.6	2.42	.60	.74	.88	41.5	12.2	2.70	.61	.76	.90	40.0	11.7	3.03	.62	.77	.91	38.0	11.1	3.41	.63	.79	.94
(19°C)	1460	690	44.0	12.9	2.43	.62	.77	.91	42.5	12.5	2.71	.63	.78	.93	41.0	12.0	3.04	.64	.80	.96	39.0	11.4	3.42	.65	.82	.98
71°F	1295	610	45.5	13.3	2.45	.46	.59	.72	44.0	12.9	2.73	.46	.60	.73	42.0	12.3	3.05	.47	.61	.75	40.5	11.9	3.43	.47	.62	.76
(22°C)	1460	690	46.0	13.5	2.46	.46	.61	.75	44.5	13.0	2.73	.47	.62	.76	43.0	12.6	3.06	.47	.63	.78	41.0	12.0	3.43	.48	.64	.79

HEATING CAPACITY - 13HPD-042 with [C33-43C + G60UHV-60C-090]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1355	640	44.3	13.0	2.86	35.0	10.3	2.63	25.2	7.4	2.39	18.6	5.5	2.13	9.4	2.8	1.56
1520	715	44.8	13.1	2.79	35.5	10.4	2.56	25.6	7.5	2.32	19.0	5.6	2.05	9.9	2.9	1.48

HEATING CAPACITY - 13HPD-042 with [C33-43C + G60UHV-60C-110]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1295	610	44.3	13.0	2.97	34.9	10.2	2.68	25.1	7.4	2.38	18.4	5.4	2.07	9.4	2.8	1.52
1460	690	44.7	13.1	2.87	35.3	10.3	2.58	25.5	7.5	2.28	18.8	5.5	1.97	9.8	2.9	1.42

HEATING PERFORMANCE at 1355 cfm (640 L/s) Indoor Coil Air Volume 13HPD-042 with [C33-43C + G60UHV-60C-090]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.86	44.3	13.0
60	16	2.81	42.2	12.4
55	13	2.76	40.1	11.8
50	10	2.70	37.9	11.1
47	8	2.67	36.6	10.7
45	7	2.63	35.0	10.3
40	4	2.54	31.0	9.1
35	2	2.45	27.0	7.9
30	-1	2.42	26.1	7.6
25	-4	2.39	25.2	7.4
20	-7	2.37	24.3	7.1
17	-8	2.35	23.8	7.0
15	-9	2.33	23.0	6.7
10	-12	2.28	20.8	6.1
5	-15	2.13	18.6	5.5
0	-18	1.99	16.3	4.8
-5	-21	1.84	14.0	4.1
-10	-23	1.70	11.7	3.4
-15	-26	1.56	9.4	2.8
-20	-29	1.41	7.1	2.1

HEATING PERFORMANCE at 1295 cfm (610 L/s) Indoor Coil Air Volume 13HPD-042 with [C33-43C + G60UHV-60C-110]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.97	44.3	13.0
60	16	2.90	42.1	12.3
55	13	2.83	40.0	11.7
50	10	2.76	37.8	11.1
47	8	2.72	36.5	10.7
45	7	2.68	34.9	10.2
40	4	2.58	30.9	9.1
35	2	2.47	26.9	7.9
30	-1	2.43	26.0	7.6
25	-4	2.38	25.1	7.4
20	-7	2.33	24.2	7.1
17	-8	2.30	23.7	6.9
15	-9	2.27	22.8	6.7
10	-12	2.21	20.6	6.0
5	-15	2.07	18.4	5.4
0	-18	1.93	16.1	4.7
-5	-21	1.79	13.9	4.1
-10	-23	1.66	11.6	3.4
-15	-26	1.52	9.4	2.8
-20	-29	1.38	7.1	2.1

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

UP-FLOW INDOOR COIL WITH GAS FURNACES

COOLING CAPACITY - 13HPD-042 with [C33-43C + G61MPV-60C-090] [C33-43C + G71MPP-60C-090]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1275	600	40.5	11.9	2.40	.76	.91	1.00	39.0	11.4	2.68	.78	.92	1.00	37.6	11.0	3.02	.79	.94	1.00	36.2	10.6	3.39	.80	.97	1.00
	1440	680	41.5	12.2	2.41	.79	.94	1.00	40.0	11.7	2.69	.80	.96	1.00	38.5	11.3	3.02	.82	.98	1.00	37.0	10.8	3.40	.84	1.00	1.00
67°F (19°C)	1275	600	43.0	12.6	2.42	.60	.74	.87	41.5	12.2	2.70	.61	.75	.89	39.5	11.6	3.03	.62	.76	.91	38.0	11.1	3.41	.63	.78	.93
	1440	680	44.0	12.9	2.43	.62	.77	.91	42.5	12.5	2.71	.63	.78	.93	41.0	12.0	3.04	.64	.80	.95	39.0	11.4	3.42	.65	.81	.97
71°F (22°C)	1275	600	45.0	13.2	2.44	.46	.59	.72	43.5	12.7	2.73	.46	.59	.73	42.0	12.3	3.05	.46	.60	.74	40.5	11.9	3.43	.47	.62	.76
	1440	680	46.0	13.5	2.46	.46	.61	.74	44.5	13.0	2.73	.47	.62	.76	43.0	12.6	3.06	.47	.63	.77	41.0	12.0	3.43	.48	.64	.79

COOLING CAPACITY - 13HPD-042 with [C33-43C + G61MPV-60C-110] [C33-43C + G71MPP-60C-110]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1110	525	39.5	11.6	2.38	.74	.87	.99	38.0	11.1	2.67	.75	.88	1.00	36.6	10.7	3.00	.76	.90	1.00	35.0	10.3	3.39	.77	.92	1.00
	1290	610	41.0	12.0	2.40	.76	.91	1.00	39.5	11.6	2.68	.78	.93	1.00	37.8	11.1	3.01	.79	.95	1.00	36.2	10.6	3.39	.81	.97	1.00
	1385	655	41.5	12.2	2.40	.78	.93	1.00	40.0	11.7	2.69	.79	.95	1.00	38.5	11.3	3.02	.81	.97	1.00	36.8	10.8	3.40	.83	.99	1.00
67°F (19°C)	1110	525	41.5	12.2	2.41	.59	.71	.84	40.0	11.7	2.69	.59	.73	.85	38.5	11.3	3.02	.60	.73	.87	37.0	10.8	3.40	.61	.75	.89
	1290	610	43.0	12.6	2.42	.60	.74	.88	41.5	12.2	2.70	.61	.75	.89	40.0	11.7	3.03	.62	.77	.91	38.0	11.1	3.41	.63	.78	.94
	1385	655	43.5	12.7	2.42	.61	.76	.90	42.0	12.3	2.71	.62	.77	.92	40.5	11.9	3.04	.63	.79	.94	38.5	11.3	3.41	.64	.80	.96
71°F (22°C)	1110	525	44.0	12.9	2.43	.45	.57	.69	42.5	12.5	2.71	.45	.58	.70	41.0	12.0	3.04	.46	.59	.71	39.0	11.4	3.42	.46	.59	.73
	1290	610	45.0	13.2	2.45	.46	.59	.72	44.0	12.9	2.73	.46	.60	.73	42.0	12.3	3.05	.47	.61	.74	40.5	11.9	3.43	.47	.62	.76
	1385	655	46.0	13.5	2.45	.46	.60	.73	44.0	12.9	2.73	.47	.61	.75	42.5	12.5	3.06	.47	.62	.76	41.0	12.0	3.43	.47	.63	.78

HEATING CAPACITY - 13HPD-042 with [C33-43C + G61MPV-60C-090] [C33-43C + G71MPP-60C-090]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil													
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1275	600	44.4	13.0	2.99	35.0	10.3	2.69	25.2	7.4	2.38	18.5	5.4	2.07	9.4	2.8	1.52
1440	680	44.7	13.1	2.88	35.4	10.4	2.58	25.6	7.5	2.27	18.9	5.5	1.96	9.8	2.9	1.41

HEATING CAPACITY - 13HPD-042 with [C33-43C + G61MPV-60C-110] [C33-43C + G71MPP-60C-110]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil													
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1110	525	44.0	12.9	3.12	34.7	10.2	2.82	24.8	7.3	2.52	18.2	5.3	2.21	9.1	2.7	1.66
1290	610	44.4	13.0	2.97	35.0	10.3	2.68	25.2	7.4	2.38	18.5	5.4	2.07	9.4	2.8	1.52
1385	655	44.7	13.1	2.92	35.4	10.4	2.62	25.5	7.5	2.32	18.8	5.5	2.01	9.7	2.8	1.46

HEATING PERFORMANCE at 1275 cfm (600 L/s) Indoor Coil Air Volume 13HPD-042 with [C33-43C + G61MPV-60C-090] [C33-43C + G71MPP-60C-090]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.99	44.4	13.0
60	16	2.92	42.2	12.4
55	13	2.85	40.1	11.8
50	10	2.78	37.9	11.1
47	8	2.74	36.6	10.7
45	7	2.69	35.0	10.3
40	4	2.58	31.0	9.1
35	2	2.48	27.0	7.9
30	-1	2.43	26.1	7.6
25	-4	2.38	25.2	7.4
20	-7	2.34	24.3	7.1
17	-8	2.31	23.8	7.0
15	-9	2.28	22.9	6.7
10	-12	2.21	20.8	6.1
5	-15	2.07	18.5	5.4
0	-18	1.94	16.2	4.7
-5	-21	1.80	14.0	4.1
-10	-23	1.66	11.7	3.4
-15	-26	1.52	9.4	2.8
-20	-29	1.39	7.1	2.1

HEATING PERFORMANCE at 1290 cfm (610 L/s) Indoor Coil Air Volume 13HPD-042 with [C33-43C + G61MPV-60C-110] [C33-43C + G71MPP-60C-110]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.97	44.4	13.0
60	16	2.90	42.2	12.4
55	13	2.83	40.1	11.8
50	10	2.76	37.9	11.1
47	8	2.72	36.6	10.7
45	7	2.68	35.0	10.3
40	4	2.57	31.0	9.1
35	2	2.47	26.9	7.9
30	-1	2.42	26.1	7.6
25	-4	2.38	25.2	7.4
20	-7	2.33	24.3	7.1
17	-8	2.30	23.8	7.0
15	-9	2.28	22.9	6.7
10	-12	2.21	20.8	6.1
5	-15	2.07	18.5	5.4
0	-18	1.93	16.2	4.7
-5	-21	1.79	13.9	4.1
-10	-23	1.66	11.7	3.4
-15	-26	1.52	9.4	2.8
-20	-29	1.38	7.1	2.1

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

UP-FLOW INDOOR COIL WITH GAS FURNACES

COOLING CAPACITY - 13HPD-042 with [C33-44C + G60UHV-60C-090]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F	1355	640	40.5	11.9	2.39	.78	.92	1.00	39.0	11.4	2.68	.78	.94	1.00	37.4	11.0	3.01	.80	.96	1.00	35.8	10.5	3.39	.82	.98	1.00
(17°C)	1520	715	41.0	12.0	2.40	.80	.96	1.00	39.5	11.6	2.69	.81	.98	1.00	38.0	11.1	3.02	.83	.99	1.00	36.6	10.7	3.40	.85	1.00	1.00
67°F	1355	640	42.5	12.5	2.42	.61	.75	.89	41.5	12.2	2.70	.61	.76	.90	39.5	11.6	3.03	.62	.78	.93	38.0	11.1	3.41	.63	.79	.95
(19°C)	1520	715	43.5	12.7	2.43	.62	.77	.92	42.0	12.3	2.71	.63	.79	.94	40.5	11.9	3.04	.64	.81	.96	38.5	11.3	3.41	.65	.82	.99
71°F	1355	640	45.0	13.2	2.44	.46	.60	.73	43.5	12.7	2.73	.46	.60	.74	42.0	12.3	3.05	.46	.61	.75	40.0	11.7	3.42	.47	.62	.77
(22°C)	1520	715	46.0	13.5	2.45	.47	.61	.75	44.5	13.0	2.73	.47	.62	.77	42.5	12.5	3.06	.47	.63	.78	41.0	12.0	3.43	.48	.64	.80

COOLING CAPACITY - 13HPD-042 with [C33-44C + G60UHV-60C-110]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F	1295	610	40.0	11.7	2.39	.77	.91	1.00	38.5	11.3	2.68	.78	.92	1.00	37.0	10.8	3.01	.79	.95	1.00	35.4	10.4	3.39	.81	.97	1.00
(17°C)	1460	690	41.0	12.0	2.40	.79	.94	1.00	39.5	11.6	2.68	.80	.96	1.00	37.8	11.1	3.01	.82	.98	1.00	36.2	10.6	3.39	.84	1.00	1.00
67°F	1295	610	42.5	12.5	2.41	.60	.74	.88	41.0	12.0	2.70	.61	.75	.89	39.5	11.6	3.03	.62	.76	.91	37.6	11.0	3.40	.63	.78	.94
(19°C)	1460	690	43.0	12.6	2.42	.62	.76	.91	41.5	12.2	2.71	.62	.78	.93	40.0	11.7	3.03	.64	.80	.95	38.5	11.3	3.41	.65	.81	.97
71°F	1295	610	44.5	13.0	2.44	.46	.59	.72	43.0	12.6	2.72	.46	.60	.73	41.5	12.2	3.05	.46	.60	.74	40.0	11.7	3.42	.47	.61	.76
(22°C)	1460	690	45.5	13.3	2.45	.47	.60	.74	44.0	12.9	2.73	.47	.61	.75	42.5	12.5	3.05	.47	.62	.77	40.5	11.9	3.43	.48	.63	.79

HEATING CAPACITY - 13HPD-042 with [C33-44C + G60UHV-60C-090]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1355	640	44.4	13.0	2.94	35.0	10.3	2.66	25.1	7.4	2.37	18.4	5.4	2.07	9.4	2.8	1.52
1520	715	44.8	13.1	2.84	35.4	10.4	2.56	25.5	7.5	2.27	18.8	5.5	1.97	9.8	2.9	1.42

HEATING CAPACITY - 13HPD-042 with [C33-44C + G60UHV-60C-110]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1295	610	44.2	13.0	2.99	34.9	10.2	2.69	25.1	7.4	2.39	18.4	5.4	2.08	9.4	2.8	1.53
1460	690	44.6	13.1	2.89	35.3	10.3	2.59	25.5	7.5	2.29	18.8	5.5	1.98	9.8	2.9	1.43

HEATING PERFORMANCE at 1355 cfm (640 L/s) Indoor Coil Air Volume 13HPD-042 with [C33-44C + G60UHV-60C-090]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.94	44.4	13.0
60	16	2.87	42.2	12.4
55	13	2.81	40.1	11.8
50	10	2.74	37.9	11.1
47	8	2.70	36.6	10.7
45	7	2.66	35.0	10.3
40	4	2.56	31.0	9.1
35	2	2.45	26.9	7.9
30	-1	2.41	26.0	7.6
25	-4	2.37	25.1	7.4
20	-7	2.32	24.3	7.1
17	-8	2.30	23.7	6.9
15	-9	2.27	22.9	6.7
10	-12	2.21	20.7	6.1
5	-15	2.07	18.4	5.4
0	-18	1.93	16.2	4.7
-5	-21	1.79	13.9	4.1
-10	-23	1.66	11.6	3.4
-15	-26	1.52	9.4	2.8
-20	-29	1.38	7.1	2.1

HEATING PERFORMANCE at 1295 cfm (610 L/s) Indoor Coil Air Volume 13HPD-042 with [C33-44C + G60UHV-60C-110]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.99	44.2	13.0
60	16	2.92	42.1	12.3
55	13	2.85	39.9	11.7
50	10	2.78	37.8	11.1
47	8	2.74	36.5	10.7
45	7	2.69	34.9	10.2
40	4	2.59	30.9	9.1
35	2	2.48	26.9	7.9
30	-1	2.43	26.0	7.6
25	-4	2.39	25.1	7.4
20	-7	2.34	24.2	7.1
17	-8	2.32	23.6	6.9
15	-9	2.29	22.8	6.7
10	-12	2.22	20.6	6.0
5	-15	2.08	18.4	5.4
0	-18	1.94	16.1	4.7
-5	-21	1.81	13.9	4.1
-10	-23	1.67	11.6	3.4
-15	-26	1.53	9.4	2.8
-20	-29	1.39	7.1	2.1

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

UP-FLOW INDOOR COIL WITH GAS FURNACES

COOLING CAPACITY - 13HPD-042 with [C33-44C + G61MPV-60C-090] [C33-44C + G71MPP-60C-090]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1275	600	40.0	11.7	2.39	.76	.90	1.00	38.5	11.3	2.68	.77	.92	1.00	37.0	10.8	3.01	.78	.94	1.00	35.2	10.3	3.39	.80	.96	1.00
	1440	680	41.0	12.0	2.40	.78	.94	1.00	39.5	11.6	2.68	.80	.96	1.00	37.8	11.1	3.01	.82	.98	1.00	36.2	10.6	3.39	.83	1.00	1.00
67°F (19°C)	1275	600	42.0	12.3	2.41	.60	.74	.87	41.0	12.0	2.70	.61	.75	.89	39.0	11.4	3.02	.61	.76	.90	37.6	11.0	3.40	.62	.78	.93
	1440	680	43.0	12.6	2.42	.61	.77	.90	41.5	12.2	2.70	.62	.78	.93	40.0	11.7	3.03	.63	.79	.95	38.5	11.3	3.41	.64	.81	.97
71°F (22°C)	1275	600	44.5	13.0	2.44	.46	.59	.71	43.0	12.6	2.72	.46	.60	.73	41.5	12.2	3.05	.46	.60	.74	39.5	11.6	3.42	.46	.61	.75
	1440	680	45.5	13.3	2.45	.47	.60	.74	44.0	12.9	2.73	.47	.61	.75	42.5	12.5	3.05	.47	.62	.77	40.5	11.9	3.43	.47	.63	.79

COOLING CAPACITY - 13HPD-042 with [C33-44C + G61MPV-60C-110] [C33-44C + G71MPP-60C-110]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1110	525	38.5	11.3	2.38	.73	.87	.99	37.4	11.0	2.67	.75	.88	1.00	36.0	10.6	3.00	.76	.90	1.00	34.4	10.1	3.38	.77	.92	1.00
	1290	610	40.0	11.7	2.39	.77	.91	1.00	38.5	11.3	2.68	.78	.92	1.00	37.0	10.8	3.01	.79	.94	1.00	35.4	10.4	3.39	.81	.97	1.00
	1385	655	40.5	11.9	2.39	.78	.93	1.00	39.0	11.4	2.68	.79	.95	1.00	37.4	11.0	3.01	.81	.97	1.00	36.0	10.6	3.39	.83	.99	1.00
67°F (19°C)	1110	525	41.0	12.0	2.40	.59	.71	.83	39.5	11.6	2.69	.59	.72	.85	38.0	11.1	3.02	.60	.73	.86	36.6	10.7	3.40	.60	.75	.88
	1290	610	42.5	12.5	2.41	.60	.74	.87	41.0	12.0	2.70	.61	.75	.89	39.5	11.6	3.03	.62	.76	.91	37.6	11.0	3.40	.63	.78	.93
	1385	655	43.0	12.6	2.42	.61	.76	.89	41.5	12.2	2.70	.62	.77	.91	40.0	11.7	3.03	.62	.78	.93	38.0	11.1	3.41	.64	.80	.95
71°F (22°C)	1110	525	43.5	12.7	2.42	.45	.57	.69	42.0	12.3	2.71	.45	.58	.70	40.5	11.9	3.03	.46	.58	.71	38.5	11.3	3.41	.46	.59	.72
	1290	610	44.5	13.0	2.44	.46	.59	.72	43.0	12.6	2.72	.46	.60	.73	41.5	12.2	3.05	.46	.60	.75	40.0	11.7	3.42	.47	.61	.76
	1385	655	45.0	13.2	2.45	.46	.60	.73	43.5	12.7	2.73	.47	.60	.74	42.0	12.3	3.05	.47	.61	.76	40.5	11.9	3.43	.47	.63	.78

HEATING CAPACITY - 13HPD-042 with [C33-44C + G61MPV-60C-090] [C33-44C + G71MPP-60C-090]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1275	600	44.3	13.0	3.01	35.0	10.3	2.71	25.2	7.4	2.40	18.5	5.4	2.09	9.4	2.8	1.53
1440	680	44.7	13.1	2.91	35.4	10.4	2.60	25.6	7.5	2.29	18.9	5.5	1.98	9.8	2.9	1.42

HEATING CAPACITY - 13HPD-042 with [C33-44C + G61MPV-60C-110] [C33-44C + G71MPP-60C-110]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1110	525	44.0	12.9	3.14	34.7	10.2	2.85	24.9	7.3	2.54	18.2	5.3	2.23	9.1	2.7	1.68
1290	610	44.3	13.0	2.99	35.0	10.3	2.70	25.2	7.4	2.39	18.5	5.4	2.08	9.4	2.8	1.53
1385	655	44.7	13.1	2.93	35.3	10.3	2.64	25.5	7.5	2.33	18.8	5.5	2.02	9.8	2.9	1.47

HEATING PERFORMANCE at 1275 cfm (600 L/s) Indoor Coil Air Volume 13HPD-042 with [C33-44C + G61MPV-60C-090] [C33-44C + G71MPP-60C-090]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.01	44.3	13.0
60	16	2.94	42.2	12.4
55	13	2.87	40.0	11.7
50	10	2.80	37.9	11.1
47	8	2.76	36.6	10.7
45	7	2.71	35.0	10.3
40	4	2.60	31.0	9.1
35	2	2.49	27.0	7.9
30	-1	2.44	26.1	7.6
25	-4	2.40	25.2	7.4
20	-7	2.35	24.3	7.1
17	-8	2.32	23.8	7.0
15	-9	2.30	22.9	6.7
10	-12	2.22	20.8	6.1
5	-15	2.09	18.5	5.4
0	-18	1.95	16.2	4.7
-5	-21	1.81	14.0	4.1
-10	-23	1.67	11.7	3.4
-15	-26	1.53	9.4	2.8
-20	-29	1.40	7.1	2.1

HEATING PERFORMANCE at 1290 cfm (610 L/s) Indoor Coil Air Volume 13HPD-042 with [C33-44C + G61MPV-60C-110] [C33-44C + G71MPP-60C-110]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.99	44.3	13.0
60	16	2.92	42.2	12.4
55	13	2.85	40.0	11.7
50	10	2.78	37.9	11.1
47	8	2.74	36.6	10.7
45	7	2.70	35.0	10.3
40	4	2.59	31.0	9.1
35	2	2.48	26.9	7.9
30	-1	2.44	26.0	7.6
25	-4	2.39	25.2	7.4
20	-7	2.35	24.3	7.1
17	-8	2.32	23.7	6.9
15	-9	2.29	22.9	6.7
10	-12	2.22	20.7	6.1
5	-15	2.08	18.5	5.4
0	-18	1.95	16.2	4.7
-5	-21	1.81	13.9	4.1
-10	-23	1.67	11.7	3.4
-15	-26	1.53	9.4	2.8
-20	-29	1.39	7.1	2.1

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

UP-FLOW INDOOR COIL WITH GAS FURNACES

COOLING CAPACITY - 13HPD-042 with [C33-48B + G60UHV-36B-090]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1090	515	38.5	11.3	2.38	.73	.86	.97	37.4	11.0	2.67	.74	.87	.99	36.0	10.6	3.00	.75	.88	1.00	34.4	10.1	3.38	.76	.91	1.00
	1260	595	40.0	11.7	2.39	.76	.89	1.00	38.5	11.3	2.68	.77	.91	1.00	37.2	10.9	3.01	.78	.93	1.00	35.6	10.4	3.39	.80	.95	1.00
	1350	635	40.5	11.9	2.39	.77	.91	1.00	39.0	11.4	2.68	.78	.93	1.00	37.6	11.0	3.01	.80	.95	1.00	36.0	10.6	3.39	.81	.97	1.00
67°F (19°C)	1090	515	41.0	12.0	2.40	.58	.70	.82	39.5	11.6	2.69	.59	.71	.84	38.0	11.1	3.02	.59	.73	.85	36.6	10.7	3.40	.60	.74	.87
	1260	595	42.5	12.5	2.41	.60	.73	.86	41.0	12.0	2.70	.60	.74	.87	39.5	11.6	3.03	.61	.75	.89	37.6	11.0	3.40	.62	.77	.91
	1350	635	43.0	12.6	2.42	.60	.75	.88	41.5	12.2	2.70	.61	.75	.90	40.0	11.7	3.03	.62	.77	.92	38.0	11.1	3.41	.63	.79	.94
71°F (22°C)	1090	515	43.5	12.7	2.42	.45	.57	.68	42.0	12.3	2.71	.45	.57	.69	40.5	11.9	3.03	.45	.58	.70	38.5	11.3	3.41	.46	.59	.72
	1260	595	44.5	13.0	2.44	.46	.58	.71	43.0	12.6	2.72	.46	.59	.72	41.5	12.2	3.05	.46	.60	.73	40.0	11.7	3.42	.46	.61	.75
	1350	635	45.0	13.2	2.45	.46	.59	.72	43.5	12.7	2.73	.46	.60	.73	42.0	12.3	3.05	.46	.61	.75	40.5	11.9	3.43	.47	.62	.76

COOLING CAPACITY - 13HPD-042 with [C33-48B + G61MPV-36B-045]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1150	545	39.0	11.4	2.38	.74	.87	.99	37.8	11.1	2.67	.75	.88	1.00	36.4	10.7	3.01	.76	.90	1.00	34.8	10.2	3.39	.77	.92	1.00
	1330	630	40.5	11.9	2.39	.76	.91	1.00	39.0	11.4	2.68	.78	.92	1.00	37.6	11.0	3.01	.79	.94	1.00	36.0	10.6	3.39	.81	.97	1.00
67°F (19°C)	1150	545	41.5	12.2	2.40	.59	.71	.84	40.0	11.7	2.69	.59	.73	.85	38.5	11.3	3.02	.60	.74	.86	37.0	10.8	3.40	.61	.75	.89
	1330	630	43.0	12.6	2.42	.60	.75	.87	41.5	12.2	2.70	.61	.75	.89	39.5	11.6	3.03	.62	.77	.91	38.0	11.1	3.41	.63	.78	.93
71°F (22°C)	1150	545	44.0	12.9	2.43	.45	.57	.69	42.5	12.5	2.71	.46	.58	.70	41.0	12.0	3.04	.46	.58	.71	39.0	11.4	3.42	.46	.59	.72
	1330	630	45.0	13.2	2.45	.46	.59	.72	43.5	12.7	2.73	.46	.60	.73	42.0	12.3	3.05	.46	.61	.74	40.5	11.9	3.43	.47	.62	.76

HEATING CAPACITY - 13HPD-042 with [C33-48B + G60UHV-36B-090]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1090	515	43.8	12.8	3.25	34.5	10.1	2.91	24.7	7.2	2.56	18.1	5.3	2.22	9.0	2.6	1.68
1260	595	44.2	13.0	3.11	34.9	10.2	2.77	25.2	7.4	2.42	18.5	5.4	2.08	9.4	2.8	1.53
1350	635	44.5	13.0	3.05	35.2	10.3	2.71	25.5	7.5	2.35	18.8	5.5	2.02	9.7	2.8	1.47

HEATING CAPACITY - 13HPD-042 with [C33-48B + G61MPV-36B-045]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1149	540	44.0	12.9	3.19	34.7	10.2	2.86	25.0	7.3	2.53	18.3	5.4	2.21	8.9	2.6	1.67
1330	625	44.8	13.1	3.04	35.5	10.4	2.72	25.7	7.5	2.38	19.0	5.6	2.06	9.7	2.8	1.52

HEATING PERFORMANCE at 1260 cfm (595 L/s) Indoor Coil Air Volume 13HPD-042 with [C33-48B + G60UHV-36B-090]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.11	44.2	13.0
60	16	3.03	42.1	12.3
55	13	2.95	39.9	11.7
50	10	2.87	37.8	11.1
47	8	2.82	36.5	10.7
45	7	2.77	34.9	10.2
40	4	2.65	30.9	9.1
35	2	2.52	26.9	7.9
30	-1	2.47	26.0	7.6
25	-4	2.42	25.2	7.4
20	-7	2.36	24.3	7.1
17	-8	2.33	23.8	7.0
15	-9	2.30	22.9	6.7
10	-12	2.21	20.8	6.1
5	-15	2.08	18.5	5.4
0	-18	1.94	16.2	4.7
-5	-21	1.81	14.0	4.1
-10	-23	1.67	11.7	3.4
-15	-26	1.53	9.4	2.8
-20	-29	1.40	7.1	2.1

HEATING PERFORMANCE at 1330 cfm (630 L/s) Indoor Coil Air Volume 13HPD-042 with [C33-48B + G61MPV-36B-045]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.04	44.8	13.1
60	16	2.96	42.6	12.5
55	13	2.88	40.5	11.9
50	10	2.81	38.4	11.3
47	8	2.76	37.1	10.9
45	7	2.72	35.5	10.4
40	4	2.60	31.5	9.2
35	2	2.48	27.4	8.0
30	-1	2.43	26.6	7.8
25	-4	2.38	25.7	7.5
20	-7	2.33	24.9	7.3
17	-8	2.30	24.4	7.2
15	-9	2.27	23.5	6.9
10	-12	2.20	21.4	6.3
5	-15	2.06	19.0	5.6
0	-18	1.93	16.7	4.9
-5	-21	1.79	14.4	4.2
-10	-23	1.66	12.0	3.5
-15	-26	1.52	9.7	2.8
-20	-29	1.38	7.3	2.1

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

UP-FLOW INDOOR COIL WITH GAS FURNACES

COOLING CAPACITY - 13HPD-042 with [C33-48B + G61MPV-36B-070] [C33-48B + G71MPP-36B-070]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1105	520	39.0	11.4	2.38	.73	.86	.98	37.6	11.0	2.67	.74	.87	.99	36.2	10.6	3.00	.75	.89	1.00	34.6	10.1	3.38	.76	.91	1.00
	1280	605	40.0	11.7	2.39	.76	.89	1.00	39.0	11.4	2.68	.77	.91	1.00	37.2	10.9	3.01	.78	.93	1.00	35.8	10.5	3.39	.80	.95	1.00
	1395	660	41.0	12.0	2.40	.77	.92	1.00	39.5	11.6	2.68	.79	.94	1.00	37.8	11.1	3.02	.80	.96	1.00	36.2	10.6	3.39	.82	.98	1.00
67°F (19°C)	1105	520	41.0	12.0	2.40	.58	.71	.83	40.0	11.7	2.69	.59	.72	.84	38.5	11.3	3.02	.59	.73	.86	36.8	10.8	3.40	.60	.74	.87
	1280	605	42.5	12.5	2.41	.60	.74	.86	41.0	12.0	2.70	.60	.74	.88	39.5	11.6	3.03	.61	.76	.90	37.8	11.1	3.40	.62	.78	.92
	1395	660	43.0	12.6	2.42	.62	.75	.89	41.5	12.2	2.71	.61	.76	.91	40.0	11.7	3.03	.63	.78	.93	38.5	11.3	3.41	.64	.80	.95
71°F (22°C)	1105	520	43.5	12.7	2.42	.45	.57	.68	42.0	12.3	2.71	.45	.57	.69	40.5	11.9	3.04	.45	.58	.71	39.0	11.4	3.41	.46	.59	.72
	1280	605	45.0	13.2	2.44	.46	.59	.71	43.5	12.7	2.72	.46	.59	.73	41.5	12.2	3.05	.46	.60	.74	40.0	11.7	3.42	.47	.61	.75
	1395	660	45.5	13.3	2.45	.46	.59	.73	44.0	12.9	2.73	.46	.60	.74	42.5	12.5	3.05	.47	.61	.76	40.5	11.9	3.43	.47	.62	.77

COOLING CAPACITY - 13HPD-042 with [C33-48C + G60UHV-60C-090]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1355	640	40.5	11.9	2.39	.77	.91	1.00	39.0	11.4	2.68	.78	.93	1.00	37.6	11.0	3.01	.80	.95	1.00	36.0	10.6	3.39	.81	.97	1.00
	1520	715	41.5	12.2	2.40	.79	.95	1.00	40.0	11.7	2.69	.81	.97	1.00	38.5	11.3	3.02	.82	.99	1.00	36.8	10.8	3.40	.84	1.00	1.00
67°F (19°C)	1355	640	43.0	12.6	2.42	.60	.74	.88	41.5	12.2	2.70	.61	.76	.90	40.0	11.7	3.03	.62	.77	.92	38.0	11.1	3.41	.63	.79	.94
	1520	715	43.5	12.7	2.43	.62	.77	.91	42.0	12.3	2.71	.63	.79	.93	40.5	11.9	3.04	.64	.80	.95	39.0	11.4	3.41	.65	.82	.98
71°F (22°C)	1355	640	45.5	13.3	2.45	.46	.60	.72	43.5	12.7	2.73	.46	.60	.73	42.0	12.3	3.05	.46	.61	.75	40.5	11.9	3.43	.47	.62	.77
	1520	715	46.0	13.5	2.46	.47	.61	.74	44.5	13.0	2.74	.47	.61	.76	43.0	12.6	3.06	.47	.63	.78	41.0	12.0	3.43	.48	.64	.79

HEATING CAPACITY - 13HPD-042 with [C33-48B + G61MPV-36B-070] [C33-48B + G71MPP-36B-070]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1105	520	44.0	12.9	3.23	34.8	10.2	2.90	25.0	7.3	2.55	18.4	5.4	2.22	9.1	2.7	1.68
1280	605	44.5	13.0	3.09	35.3	10.3	2.75	25.5	7.5	2.40	18.9	5.5	2.07	9.6	2.8	1.53
1395	660	44.9	13.2	3.01	35.6	10.4	2.67	25.9	7.6	2.33	19.2	5.6	2.00	9.9	2.9	1.45

HEATING CAPACITY - 13HPD-042 with [C33-48C + G60UHV-60C-090]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1355	640	44.3	13.0	3.03	35.0	10.3	2.71	25.1	7.4	2.38	18.5	5.4	2.05	9.4	2.8	1.51
1520	715	44.7	13.1	2.92	35.4	10.4	2.60	25.5	7.5	2.27	18.9	5.5	1.95	9.8	2.9	1.41

HEATING PERFORMANCE at 1280 cfm (605 L/s) Indoor Coil Air Volume 13HPD-042 with [C33-48B + G61MPV-36B-070] [C33-48B + G71MPP-36B-070]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.09	44.5	13.0
60	16	3.01	42.4	12.4
55	13	2.93	40.3	11.8
50	10	2.85	38.2	11.2
47	8	2.80	36.9	10.8
45	7	2.75	35.3	10.3
40	4	2.63	31.3	9.2
35	2	2.51	27.3	8.0
30	-1	2.46	26.4	7.7
25	-4	2.40	25.5	7.5
20	-7	2.35	24.7	7.2
17	-8	2.32	24.2	7.1
15	-9	2.29	23.3	6.8
10	-12	2.21	21.2	6.2
5	-15	2.07	18.9	5.5
0	-18	1.94	16.6	4.9
-5	-21	1.80	14.2	4.2
-10	-23	1.66	11.9	3.5
-15	-26	1.53	9.6	2.8
-20	-29	1.39	7.3	2.1

HEATING PERFORMANCE at 1355 cfm (640 L/s) Indoor Coil Air Volume 13HPD-042 with [C33-48C + G60UHV-60C-090]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.03	44.3	13.0
60	16	2.95	42.1	12.3
55	13	2.87	40.0	11.7
50	10	2.80	37.8	11.1
47	8	2.75	36.6	10.7
45	7	2.71	35.0	10.3
40	4	2.59	30.9	9.1
35	2	2.48	26.9	7.9
30	-1	2.43	26.0	7.6
25	-4	2.38	25.1	7.4
20	-7	2.33	24.2	7.1
17	-8	2.30	23.7	6.9
15	-9	2.27	22.9	6.7
10	-12	2.19	20.7	6.1
5	-15	2.05	18.5	5.4
0	-18	1.92	16.2	4.7
-5	-21	1.78	13.9	4.1
-10	-23	1.65	11.7	3.4
-15	-26	1.51	9.4	2.8
-20	-29	1.38	7.1	2.1

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

UP-FLOW INDOOR COIL WITH GAS FURNACES

COOLING CAPACITY - 13HPD-042 with [C33-48C + G60UHV-60C-110]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F	1295	610	40.5	11.9	2.39	.76	.90	1.00	39.0	11.4	2.68	.77	.92	1.00	37.4	11.0	3.01	.79	.94	1.00	35.8	10.5	3.39	.80	.96	1.00
(17°C)	1460	690	41.0	12.0	2.40	.78	.93	1.00	40.0	11.7	2.69	.80	.95	1.00	38.0	11.1	3.02	.81	.97	1.00	36.6	10.7	3.40	.83	.99	1.00
67°F	1295	610	42.5	12.5	2.42	.60	.74	.87	41.0	12.0	2.70	.61	.75	.88	39.5	11.6	3.03	.61	.76	.90	37.8	11.1	3.40	.62	.78	.92
(19°C)	1460	690	43.5	12.7	2.42	.62	.76	.90	42.0	12.3	2.71	.62	.78	.92	40.5	11.9	3.04	.63	.79	.94	38.5	11.3	3.41	.64	.81	.96
71°F	1295	610	45.0	13.2	2.44	.46	.59	.71	43.5	12.7	2.72	.46	.59	.73	42.0	12.3	3.05	.46	.60	.74	40.0	11.7	3.42	.47	.61	.75
(22°C)	1460	690	46.0	13.5	2.45	.46	.60	.74	44.5	13.0	2.73	.46	.61	.75	42.5	12.5	3.06	.47	.62	.77	41.0	12.0	3.43	.47	.63	.78

COOLING CAPACITY - 13HPD-042 with [C33-48C + G61MPV-60C-090] [C33-48C + G71MPP-60C-090]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F	1275	600	40.0	11.7	2.39	.76	.89	1.00	38.5	11.3	2.68	.77	.91	1.00	37.2	10.9	3.01	.78	.93	1.00	35.6	10.4	3.39	.80	.95	1.00
(17°C)	1440	680	41.0	12.0	2.40	.78	.93	1.00	39.5	11.6	2.69	.80	.95	1.00	38.0	11.1	3.02	.81	.97	1.00	36.4	10.7	3.40	.83	.99	1.00
67°F	1275	600	42.5	12.5	2.41	.60	.73	.86	41.0	12.0	2.70	.60	.75	.88	39.5	11.6	3.03	.61	.76	.90	37.8	11.1	3.40	.62	.77	.92
(19°C)	1440	680	43.5	12.7	2.42	.61	.75	.90	42.0	12.3	2.71	.62	.77	.92	40.5	11.9	3.04	.63	.79	.94	38.5	11.3	3.41	.64	.80	.96
71°F	1275	600	44.5	13.0	2.44	.46	.59	.71	43.0	12.6	2.72	.46	.59	.72	41.5	12.2	3.05	.46	.60	.73	40.0	11.7	3.42	.47	.61	.75
(22°C)	1440	680	45.5	13.3	2.45	.46	.61	.73	44.0	12.9	2.73	.46	.60	.75	42.5	12.5	3.06	.47	.62	.76	41.0	12.0	3.43	.47	.63	.78

HEATING CAPACITY - 13HPD-042 with [C33-48C + G60UHV-60C-110]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1295	610	44.1	12.9	3.08	34.8	10.2	2.74	25.0	7.3	2.40	18.4	5.4	2.07	9.4	2.8	1.53
1460	690	44.5	13.0	2.97	35.3	10.3	2.64	25.5	7.5	2.29	18.8	5.5	1.96	9.8	2.9	1.42

HEATING CAPACITY - 13HPD-042 with [C33-48C + G61MPV-60C-090] [C33-48C + G71MPP-60C-090]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1275	600	44.2	13.0	3.09	34.9	10.2	2.76	25.2	7.4	2.41	18.5	5.4	2.07	9.4	2.8	1.53
1440	680	44.6	13.1	2.99	35.3	10.3	2.65	25.6	7.5	2.30	18.9	5.5	1.97	9.8	2.9	1.43

HEATING PERFORMANCE at 1295 cfm (610 L/s) Indoor Coil Air Volume 13HPD-042 with [C33-48C + G60UHV-60C-110]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.08	44.1	12.9
60	16	3.00	42.0	12.3
55	13	2.92	39.8	11.7
50	10	2.84	37.7	11.0
47	8	2.79	36.4	10.7
45	7	2.74	34.8	10.2
40	4	2.62	30.8	9.0
35	2	2.50	26.8	7.9
30	-1	2.45	25.9	7.6
25	-4	2.40	25.0	7.3
20	-7	2.35	24.2	7.1
17	-8	2.32	23.6	6.9
15	-9	2.28	22.8	6.7
10	-12	2.20	20.7	6.1
5	-15	2.07	18.4	5.4
0	-18	1.93	16.1	4.7
-5	-21	1.80	13.9	4.1
-10	-23	1.66	11.6	3.4
-15	-26	1.53	9.4	2.8
-20	-29	1.39	7.1	2.1

HEATING PERFORMANCE at 1275 cfm (600 L/s) Indoor Coil Air Volume 13HPD-042 with [C33-48C + G61MPV-60C-090] [C33-48C + G71MP-60C-090]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.09	44.2	13.0
60	16	3.01	42.1	12.3
55	13	2.93	39.9	11.7
50	10	2.85	37.8	11.1
47	8	2.80	36.5	10.7
45	7	2.76	34.9	10.2
40	4	2.64	30.9	9.1
35	2	2.51	26.9	7.9
30	-1	2.46	26.0	7.6
25	-4	2.41	25.2	7.4
20	-7	2.35	24.3	7.1
17	-8	2.32	23.8	7.0
15	-9	2.29	22.9	6.7
10	-12	2.21	20.8	6.1
5	-15	2.07	18.5	5.4
0	-18	1.94	16.2	4.7
-5	-21	1.80	14.0	4.1
-10	-23	1.67	11.7	3.4
-15	-26	1.53	9.4	2.8
-20	-29	1.39	7.1	2.1

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

UP-FLOW INDOOR COIL WITH GAS FURNACES

COOLING CAPACITY - 13HPD-042 with [C33-48C + G61MPV-60C-110] [C33-48C + G71MPP-60C-110]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1110	525	39.0	11.4	2.38	.73	.86	.98	37.6	11.0	2.67	.74	.88	.99	36.2	10.6	3.00	.75	.89	1.00	34.6	10.1	3.38	.77	.91	1.00
	1290	610	40.5	11.9	2.39	.76	.90	1.00	39.0	11.4	2.68	.77	.92	1.00	37.2	10.9	3.01	.78	.94	1.00	35.8	10.5	3.39	.80	.96	1.00
	1385	655	41.0	12.0	2.40	.77	.92	1.00	39.5	11.6	2.68	.79	.94	1.00	37.8	11.1	3.02	.80	.96	1.00	36.2	10.6	3.39	.82	.98	1.00
67°F (19°C)	1110	525	41.0	12.0	2.40	.59	.71	.83	40.0	11.7	2.69	.59	.72	.84	38.5	11.3	3.02	.60	.73	.86	36.8	10.8	3.40	.60	.74	.88
	1290	610	42.5	12.5	2.41	.60	.74	.87	41.0	12.0	2.70	.61	.75	.88	39.5	11.6	3.03	.61	.76	.90	37.8	11.1	3.40	.62	.78	.92
	1385	655	43.0	12.6	2.42	.61	.75	.89	41.5	12.2	2.70	.61	.76	.90	40.0	11.7	3.03	.62	.78	.92	38.5	11.3	3.41	.64	.79	.95
71°F (22°C)	1110	525	43.5	12.7	2.42	.45	.57	.68	42.0	12.3	2.71	.45	.57	.69	40.5	11.9	3.04	.46	.58	.71	39.0	11.4	3.41	.46	.59	.72
	1290	610	45.0	13.2	2.44	.46	.59	.71	43.5	12.7	2.72	.46	.59	.73	41.5	12.2	3.05	.46	.60	.74	40.0	11.7	3.42	.47	.61	.75
	1385	655	45.5	13.3	2.45	.46	.59	.73	44.0	12.9	2.73	.46	.60	.74	42.0	12.3	3.05	.46	.61	.75	40.5	11.9	3.43	.47	.62	.77

COOLING CAPACITY - 13HPD-042 with [C33-49C + G60UHV-60C-090]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1355	640	41.0	12.0	2.40	.78	.92	1.00	39.5	11.6	2.69	.79	.94	1.00	38.5	11.3	3.02	.81	.96	1.00	36.8	10.8	3.40	.82	.99	1.00
	1355	640	41.0	12.0	2.40	.78	.92	1.00	39.5	11.6	2.69	.79	.94	1.00	38.5	11.3	3.02	.81	.96	1.00	36.8	10.8	3.40	.82	.99	1.00
	1520	715	42.0	12.3	2.41	.81	.96	1.00	41.0	12.0	2.70	.82	.98	1.00	39.5	11.6	3.03	.84	1.00	1.00	37.8	11.1	3.41	.86	1.00	1.00
67°F (19°C)	1355	640	43.5	12.7	2.42	.61	.76	.89	42.0	12.3	2.71	.62	.77	.91	40.5	11.9	3.04	.63	.78	.93	39.0	11.4	3.41	.64	.80	.96
	1355	640	43.5	12.7	2.42	.61	.76	.89	42.0	12.3	2.71	.62	.77	.91	40.5	11.9	3.04	.63	.78	.93	39.0	11.4	3.41	.64	.80	.96
	1520	715	44.5	13.0	2.44	.63	.78	.93	43.0	12.6	2.72	.64	.80	.95	41.5	12.2	3.05	.65	.81	.97	39.5	11.6	3.42	.66	.83	.99
71°F (22°C)	1355	640	46.0	13.5	2.45	.46	.60	.73	44.5	13.0	2.73	.47	.61	.75	42.5	12.5	3.06	.47	.62	.76	41.0	12.0	3.43	.47	.63	.78
	1355	640	46.0	13.5	2.45	.46	.60	.73	44.5	13.0	2.73	.47	.61	.75	42.5	12.5	3.06	.47	.62	.76	41.0	12.0	3.43	.47	.63	.78
	1520	715	47.0	13.8	2.47	.47	.62	.76	45.0	13.2	2.74	.47	.63	.78	43.5	12.7	3.07	.48	.64	.79	42.0	12.3	3.44	.48	.65	.81

HEATING CAPACITY - 13HPD-042 with [C33-48C + G61MPV-60C-110] [C33-48C + G71MPP-60C-110]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1110	525	43.8	12.8	3.22	34.6	10.1	2.89	24.8	7.3	2.55	18.2	5.3	2.21	9.1	2.7	1.67
1290	610	44.2	13.0	3.08	34.9	10.2	2.74	25.1	7.4	2.40	18.5	5.4	2.07	9.4	2.8	1.53
1385	655	44.5	13.0	3.02	35.3	10.3	2.68	25.5	7.5	2.34	18.9	5.5	2.01	9.8	2.9	1.47

HEATING CAPACITY - 13HPD-042 with [C33-49C + G60UHV-60C-090]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1355	640	44.4	13.0	2.86	35.0	10.3	2.63	25.2	7.4	2.39	18.5	5.4	2.12	9.4	2.8	1.55
1520	715	44.8	13.1	2.78	35.5	10.4	2.55	25.6	7.5	2.30	19.0	5.6	2.04	9.8	2.9	1.46

HEATING PERFORMANCE at 1290 cfm (610 L/s) Indoor Coil Air Volume 13HPD-042 with [C33-48C + G61MPV-60C-110] [C33-48C + G71MPP-60C-110]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.08	44.2	13.0
60	16	3.00	42.0	12.3
55	13	2.92	39.9	11.7
50	10	2.84	37.8	11.1
47	8	2.79	36.5	10.7
45	7	2.74	34.9	10.2
40	4	2.62	30.9	9.1
35	2	2.50	26.9	7.9
30	-1	2.45	26.0	7.6
25	-4	2.40	25.1	7.4
20	-7	2.35	24.3	7.1
17	-8	2.32	23.7	6.9
15	-9	2.28	22.9	6.7
10	-12	2.21	20.8	6.1
5	-15	2.07	18.5	5.4
0	-18	1.93	16.2	4.7
-5	-21	1.80	13.9	4.1
-10	-23	1.66	11.7	3.4
-15	-26	1.53	9.4	2.8
-20	-29	1.39	7.1	2.1

HEATING PERFORMANCE at 1355 cfm (610 L/s) Indoor Coil Air Volume 13HPD-042 with [C33-49C + G60UHV-60C-090]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.86	44.4	13.0
60	16	2.81	42.2	12.4
55	13	2.75	40.1	11.8
50	10	2.70	38.0	11.1
47	8	2.67	36.7	10.8
45	7	2.63	35.0	10.3
40	4	2.54	31.0	9.1
35	2	2.44	26.9	7.9
30	-1	2.41	26.1	7.6
25	-4	2.39	25.2	7.4
20	-7	2.36	24.3	7.1
17	-8	2.34	23.8	7.0
15	-9	2.32	23.0	6.7
10	-12	2.27	20.8	6.1
5	-15	2.12	18.5	5.4
0	-18	1.98	16.3	4.8
-5	-21	1.84	14.0	4.1
-10	-23	1.69	11.7	3.4
-15	-26	1.55	9.4	2.8
-20	-29	1.41	7.1	2.1

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

UP-FLOW INDOOR COIL WITH GAS FURNACES

COOLING CAPACITY - 13HPD-042 with [C33-49C + G60UHV-60C-110]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1295	610	40.5	11.9	2.40	.77	.91	1.00	39.5	11.6	2.68	.78	.93	1.00	37.8	11.1	3.02	.80	.95	1.00	36.4	10.7	3.39	.81	.97	1.00
	1395	660	41.5	12.2	2.40	.78	.93	1.00	40.0	11.7	2.69	.80	.95	1.00	38.5	11.3	3.02	.81	.97	1.00	37.2	10.9	3.40	.83	.99	1.00
	1600	755	42.5	12.5	2.42	.82	.98	1.00	41.5	12.2	2.70	.83	.99	1.00	40.0	11.7	3.03	.85	1.00	1.00	38.5	11.3	3.41	.87	1.00	1.00
67°F (19°C)	1295	610	43.0	12.6	2.42	.61	.75	.88	41.5	12.2	2.70	.62	.76	.90	40.0	11.7	3.03	.63	.77	.92	38.5	11.3	3.41	.63	.79	.94
	1395	660	43.5	12.7	2.43	.62	.76	.90	42.5	12.5	2.71	.63	.78	.92	40.5	11.9	3.04	.64	.79	.94	39.0	11.4	3.42	.65	.81	.97
	1600	755	45.0	13.2	2.44	.64	.80	.95	43.5	12.7	2.72	.65	.81	.97	41.5	12.2	3.05	.66	.83	.99	40.0	11.7	3.42	.67	.85	1.00
71°F (22°C)	1295	610	45.5	13.3	2.45	.46	.60	.72	44.0	12.9	2.73	.46	.60	.74	42.0	12.3	3.05	.47	.61	.75	40.5	11.9	3.43	.47	.62	.77
	1395	660	46.0	13.5	2.46	.46	.61	.74	44.5	13.0	2.74	.47	.61	.75	43.0	12.6	3.06	.47	.62	.77	41.0	12.0	3.43	.48	.63	.79
	1600	755	47.5	13.9	2.47	.47	.63	.77	45.5	13.3	2.75	.48	.64	.79	44.0	12.9	3.07	.48	.65	.81	42.0	12.3	3.44	.49	.66	.83

COOLING CAPACITY - 13HPD-042 with [C33-49C + G61MPV-60C-090] [C33-49C + G71MPP-60C-090]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1275	600	40.5	11.9	2.39	.76	.91	1.00	39.5	11.6	2.68	.78	.92	1.00	37.6	11.0	3.01	.79	.94	1.00	36.2	10.6	3.39	.81	.97	1.00
	1380	650	41.5	12.2	2.40	.78	.93	1.00	40.0	11.7	2.69	.80	.95	1.00	38.5	11.3	3.02	.81	.97	1.00	37.0	10.8	3.40	.83	.99	1.00
	1560	735	42.5	12.5	2.41	.81	.97	1.00	41.0	12.0	2.70	.83	.99	1.00	39.5	11.6	3.03	.84	1.00	1.00	38.0	11.1	3.41	.86	1.00	1.00
67°F (19°C)	1275	600	43.0	12.6	2.42	.61	.74	.87	41.5	12.2	2.70	.61	.75	.89	40.0	11.7	3.03	.62	.77	.91	38.5	11.3	3.41	.63	.79	.93
	1380	650	43.5	12.7	2.43	.62	.76	.90	42.0	12.3	2.71	.62	.77	.92	40.5	11.9	3.04	.63	.79	.94	39.0	11.4	3.41	.64	.81	.96
	1560	735	44.5	13.0	2.44	.64	.79	.94	43.0	12.6	2.72	.64	.80	.96	41.5	12.2	3.05	.65	.82	.98	40.0	11.7	3.42	.67	.84	1.00
71°F (22°C)	1275	600	45.0	13.2	2.45	.46	.59	.72	43.5	12.7	2.73	.46	.60	.73	42.0	12.3	3.05	.47	.61	.75	40.5	11.9	3.43	.47	.62	.76
	1380	650	46.0	13.5	2.46	.46	.60	.74	44.5	13.0	2.73	.47	.61	.75	43.0	12.6	3.06	.47	.62	.77	41.0	12.0	3.43	.48	.63	.78
	1560	735	47.0	13.8	2.47	.47	.62	.77	45.5	13.3	2.75	.48	.63	.78	43.5	12.7	3.07	.48	.64	.80	42.0	12.3	3.44	.48	.66	.82

HEATING CAPACITY - 13HPD-042 with [C33-49C + G60UHV-60C-110]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1295	610	44.3	13.0	2.94	34.9	10.2	2.68	25.0	7.3	2.41	18.3	5.4	2.12	9.2	2.7	1.57
1395	660	44.6	13.1	2.86	35.2	10.3	2.60	25.3	7.4	2.34	18.5	5.4	2.05	9.4	2.8	1.50
1600	755	45.1	13.2	2.77	35.7	10.5	2.51	25.8	7.6	2.24	19.1	5.6	1.95	9.9	2.9	1.41

HEATING CAPACITY - 13HPD-042 with [C33-49C + G61MPV-60C-090] [C33-49C + G71MPP-60C-090]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1275	600	44.4	13.0	2.95	35.0	10.3	2.68	25.1	7.4	2.41	18.4	5.4	2.12	9.2	2.7	1.57
1380	650	44.7	13.1	2.88	35.3	10.3	2.61	25.4	7.4	2.34	18.6	5.5	2.05	9.5	2.8	1.50
1560	735	45.1	13.2	2.79	35.7	10.5	2.53	25.8	7.6	2.25	19.1	5.6	1.96	9.9	2.9	1.41

HEATING PERFORMANCE at 1395 cfm (660 L/s) Indoor Coil Air Volume 13HPD-042 with [C33-49C + G60UHV-60C-110]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.86	44.6	13.1
60	16	2.80	42.4	12.4
55	13	2.74	40.3	11.8
50	10	2.68	38.1	11.2
47	8	2.64	36.8	10.8
45	7	2.60	35.2	10.3
40	4	2.51	31.1	9.1
35	2	2.42	27.1	7.9
30	-1	2.38	26.2	7.7
25	-4	2.34	25.3	7.4
20	-7	2.29	24.4	7.2
17	-8	2.27	23.8	7.0
15	-9	2.24	23.0	6.7
10	-12	2.18	20.8	6.1
5	-15	2.05	18.5	5.4
0	-18	1.91	16.3	4.8
-5	-21	1.77	14.0	4.1
-10	-23	1.64	11.7	3.4
-15	-26	1.50	9.4	2.8
-20	-29	1.36	7.2	2.1

HEATING PERFORMANCE at 1380 cfm (650 L/s) Indoor Coil Air Volume 13HPD-042 with [C33-49C + G61MPV-60C-090] [C33-49C + G71MPP-60C-090]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.88	44.7	13.1
60	16	2.81	42.5	12.5
55	13	2.75	40.4	11.8
50	10	2.69	38.2	11.2
47	8	2.65	36.9	10.8
45	7	2.61	35.3	10.3
40	4	2.52	31.2	9.1
35	2	2.42	27.1	7.9
30	-1	2.38	26.3	7.7
25	-4	2.34	25.4	7.4
20	-7	2.30	24.5	7.2
17	-8	2.27	23.9	7.0
15	-9	2.25	23.1	6.8
10	-12	2.19	20.9	6.1
5	-15	2.05	18.6	5.5
0	-18	1.91	16.3	4.8
-5	-21	1.78	14.1	4.1
-10	-23	1.64	11.8	3.5
-15	-26	1.50	9.5	2.8
-20	-29	1.37	7.2	2.1

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

UP-FLOW INDOOR COIL WITH GAS FURNACES

COOLING CAPACITY - 13HPD-042 with [C33-49C + G61MPV-60C-110] [C33-49C + G71MPP-60C-110]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1290	610	40.5	11.9	2.40	.77	.91	1.00	39.5	11.6	2.68	.78	.93	1.00	37.8	11.1	3.02	.80	.95	1.00	36.4	10.7	3.40	.81	.97	1.00
	1405	665	41.5	12.2	2.40	.79	.94	1.00	40.0	11.7	2.69	.80	.96	1.00	38.5	11.3	3.02	.82	.97	1.00	37.2	10.9	3.40	.83	.99	1.00
	1605	760	43.0	12.6	2.42	.82	.98	1.00	41.5	12.2	2.70	.83	.99	1.00	40.0	11.7	3.03	.85	1.00	1.00	38.5	11.3	3.41	.87	1.00	1.00
67°F (19°C)	1290	610	43.0	12.6	2.42	.61	.74	.88	41.5	12.2	2.70	.62	.76	.89	40.0	11.7	3.03	.62	.77	.91	38.5	11.3	3.41	.63	.79	.94
	1405	665	43.5	12.7	2.43	.62	.76	.90	42.5	12.5	2.71	.63	.78	.92	41.0	12.0	3.04	.64	.79	.94	39.0	11.4	3.42	.65	.81	.97
	1605	760	45.0	13.2	2.44	.64	.80	.95	43.5	12.7	2.72	.65	.81	.97	41.5	12.2	3.05	.66	.83	.99	40.0	11.7	3.42	.67	.85	1.00
71°F (22°C)	1290	610	45.5	13.3	2.45	.46	.59	.72	44.0	12.9	2.73	.46	.60	.73	42.0	12.3	3.05	.47	.61	.75	40.5	11.9	3.43	.47	.62	.77
	1405	665	46.0	13.5	2.46	.46	.61	.74	44.5	13.0	2.74	.47	.62	.76	43.0	12.6	3.06	.47	.63	.77	41.0	12.0	3.43	.48	.64	.79
	1605	760	47.5	13.9	2.47	.47	.63	.78	45.5	13.3	2.75	.48	.64	.79	44.0	12.9	3.07	.48	.65	.81	42.0	12.3	3.44	.49	.66	.83

COOLING CAPACITY - 13HPD-042 with [C33-50/60C + G60UHV-60C-090]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1355	640	41.0	12.0	2.40	.77	.92	1.00	39.5	11.6	2.69	.79	.94	1.00	38.0	11.1	3.02	.80	.96	1.00	36.4	10.7	3.39	.82	.98	1.00
	1520	715	42.0	12.3	2.41	.80	.96	1.00	40.5	11.9	2.69	.81	.97	1.00	39.0	11.4	3.02	.83	.99	1.00	37.2	10.9	3.40	.85	1.00	1.00
67°F (19°C)	1355	640	43.0	12.6	2.42	.61	.75	.89	41.5	12.2	2.71	.61	.76	.90	40.0	11.7	3.03	.63	.78	.92	38.5	11.3	3.41	.64	.79	.95
	1520	715	44.0	12.9	2.43	.62	.78	.92	42.5	12.5	2.72	.63	.79	.94	41.0	12.0	3.04	.64	.81	.96	39.0	11.4	3.42	.65	.83	.99
71°F (22°C)	1355	640	45.5	13.3	2.45	.46	.60	.73	44.0	12.9	2.73	.46	.60	.73	42.5	12.5	3.06	.47	.61	.75	41.0	12.0	3.43	.47	.62	.77
	1520	715	46.5	13.6	2.46	.46	.61	.75	45.0	13.2	2.74	.47	.62	.77	43.5	12.7	3.06	.47	.63	.78	41.5	12.2	3.43	.48	.64	.80

HEATING CAPACITY - 13HPD-042 with [C33-49C + G61MPV-60C-110] [C33-49C + G71MPP-60C-110]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1290	610	44.4	13.0	2.93	35.0	10.3	2.68	25.1	7.4	2.41	18.3	5.4	2.12	9.2	2.7	1.58
1405	660	44.6	13.1	2.86	35.2	10.3	2.60	25.3	7.4	2.33	18.6	5.5	2.04	9.4	2.8	1.50
1605	760	45.2	13.2	2.77	35.8	10.5	2.51	25.9	7.6	2.24	19.1	5.6	1.95	10.0	2.9	1.41

HEATING CAPACITY - 13HPD-042 with [C33-50/60C + G60UHV-60C-090]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1355	640	44.4	13.0	2.92	35.0	10.3	2.65	25.1	7.4	2.37	18.4	5.4	2.08	9.4	2.8	1.52
1520	715	44.8	13.1	2.84	35.4	10.4	2.57	25.6	7.5	2.28	18.9	5.5	1.99	9.8	2.9	1.44

HEATING PERFORMANCE at 1405 cfm (665 L/s) Indoor Coil Air Volume 13HPD-042 with [C33-49C + G61MPV-60C-110] [C33-49C + G71MPP-60C-110]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.86	44.6	13.1
60	16	2.80	42.5	12.5
55	13	2.73	40.3	11.8
50	10	2.67	38.2	11.2
47	8	2.64	36.9	10.8
45	7	2.60	35.2	10.3
40	4	2.51	31.2	9.1
35	2	2.42	27.1	7.9
30	-1	2.37	26.2	7.7
25	-4	2.33	25.3	7.4
20	-7	2.29	24.4	7.2
17	-8	2.27	23.9	7.0
15	-9	2.24	23.0	6.7
10	-12	2.18	20.9	6.1
5	-15	2.04	18.6	5.5
0	-18	1.91	16.3	4.8
-5	-21	1.77	14.0	4.1
-10	-23	1.63	11.7	3.4
-15	-26	1.50	9.4	2.8
-20	-29	1.36	7.2	2.1

HEATING PERFORMANCE at 1355 cfm (640 L/s) Indoor Coil Air Volume 13HPD-042 with [C33-50/60C + G60UHV-60C-090]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.92	44.4	13.0
60	16	2.86	42.2	12.4
55	13	2.80	40.1	11.8
50	10	2.73	37.9	11.1
47	8	2.69	36.6	10.7
45	7	2.65	35.0	10.3
40	4	2.55	31.0	9.1
35	2	2.45	26.9	7.9
30	-1	2.41	26.0	7.6
25	-4	2.37	25.1	7.4
20	-7	2.33	24.2	7.1
17	-8	2.31	23.7	6.9
15	-9	2.28	22.9	6.7
10	-12	2.22	20.7	6.1
5	-15	2.08	18.4	5.4
0	-18	1.94	16.2	4.7
-5	-21	1.80	13.9	4.1
-10	-23	1.66	11.6	3.4
-15	-26	1.52	9.4	2.8
-20	-29	1.38	7.1	2.1

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

UP-FLOW INDOOR COIL WITH GAS FURNACES

COOLING CAPACITY - 13HPD-042 with [C33-50/60C + G60UHV-60C-110]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1295	610	40.5	11.9	2.40	.76	.91	1.00	39.5	11.6	2.68	.77	.92	1.00	37.8	11.1	3.01	.79	.94	1.00	36.0	10.6	3.39	.81	.97	1.00
	1395	660	41.5	12.2	2.40	.77	.93	1.00	40.0	11.7	2.69	.79	.95	1.00	38.5	11.3	3.02	.81	.97	1.00	36.6	10.7	3.40	.83	.99	1.00
	1600	755	42.5	12.5	2.41	.81	.97	1.00	41.0	12.0	2.70	.83	.99	1.00	39.0	11.4	3.03	.84	1.00	1.00	37.6	11.0	3.40	.86	1.00	1.00
67°F (19°C)	1295	610	43.0	12.6	2.42	.60	.74	.87	41.5	12.2	2.70	.61	.75	.89	40.0	11.7	3.03	.62	.77	.91	38.0	11.1	3.41	.63	.78	.93
	1395	660	43.5	12.7	2.42	.61	.75	.90	42.0	12.3	2.71	.62	.77	.91	40.5	11.9	3.04	.63	.79	.93	38.5	11.3	3.41	.64	.80	.96
	1600	755	44.5	13.0	2.44	.63	.79	.94	43.0	12.6	2.72	.64	.80	.96	41.5	12.2	3.04	.65	.82	.98	39.5	11.6	3.42	.66	.84	1.00
71°F (22°C)	1295	610	45.0	13.2	2.45	.46	.59	.72	43.5	12.7	2.73	.46	.59	.73	42.0	12.3	3.05	.46	.60	.74	40.5	11.9	3.43	.47	.62	.76
	1395	660	46.0	13.5	2.46	.46	.60	.73	44.5	13.0	2.73	.46	.60	.74	42.5	12.5	3.06	.47	.62	.76	41.0	12.0	3.43	.47	.63	.78
	1600	755	47.0	13.8	2.46	.47	.62	.76	45.5	13.3	2.74	.47	.63	.78	43.5	12.7	3.07	.48	.64	.80	42.0	12.3	3.44	.48	.65	.82

COOLING CAPACITY - 13HPD-042 with [C33-50/60C + G61MPV-60C-090] [C33-50/60C + G71MPP-60C-090]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1275	600	40.5	11.9	2.39	.76	.90	1.00	39.0	11.4	2.68	.77	.92	1.00	37.6	11.0	3.01	.79	.94	1.00	36.0	10.6	3.39	.80	.96	1.00
	1380	650	41.0	12.0	2.40	.77	.92	1.00	39.5	11.6	2.69	.79	.94	1.00	38.0	11.1	3.02	.81	.96	1.00	36.6	10.7	3.40	.82	.99	1.00
	1560	735	42.0	12.3	2.41	.81	.96	1.00	40.5	11.9	2.70	.82	.98	1.00	39.0	11.4	3.03	.84	1.00	1.00	37.4	11.0	3.40	.86	1.00	1.00
67°F (19°C)	1275	600	43.0	12.6	2.42	.60	.74	.87	41.5	12.2	2.70	.61	.74	.88	39.5	11.6	3.03	.61	.76	.90	38.0	11.1	3.41	.63	.78	.93
	1380	650	43.5	12.7	2.42	.61	.75	.89	42.0	12.3	2.71	.61	.77	.91	40.5	11.9	3.04	.63	.78	.93	38.5	11.3	3.41	.64	.80	.95
	1560	735	44.5	13.0	2.43	.63	.78	.93	43.0	12.6	2.72	.64	.80	.95	41.0	12.0	3.04	.65	.81	.97	39.5	11.6	3.42	.66	.83	.99
71°F (22°C)	1275	600	45.0	13.2	2.44	.46	.59	.71	43.5	12.7	2.73	.46	.59	.72	42.0	12.3	3.05	.46	.60	.73	40.5	11.9	3.43	.47	.61	.76
	1380	650	46.0	13.5	2.45	.46	.60	.73	44.5	13.0	2.73	.46	.60	.74	42.5	12.5	3.06	.47	.62	.76	41.0	12.0	3.43	.47	.63	.78
	1560	735	46.5	13.6	2.46	.46	.61	.76	45.0	13.2	2.74	.47	.63	.77	43.5	12.7	3.06	.48	.64	.79	41.5	12.2	3.44	.48	.65	.81

HEATING CAPACITY - 13HPD-042 with [C33-50/60C + G60UHV-60C-110]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1295	610	44.3	13.0	2.95	34.9	10.2	2.69	25.0	7.3	2.43	18.3	5.4	2.14	9.2	2.7	1.58
1395	660	44.5	13.0	2.88	35.1	10.3	2.63	25.3	7.4	2.36	18.5	5.4	2.07	9.4	2.8	1.52
1600	755	45.0	13.2	2.79	35.7	10.5	2.53	25.8	7.6	2.27	19.1	5.6	1.98	9.9	2.9	1.42

HEATING CAPACITY - 13HPD-042 with [C33-50/60C + G61MPV-60C-090] [C33-50/60C + G71MPP-60C-090]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1275	600	44.4	13.0	2.97	35.0	10.3	2.71	25.1	7.4	2.44	18.4	5.4	2.15	9.2	2.7	1.59
1380	650	44.6	13.1	2.90	35.2	10.3	2.64	25.4	7.4	2.37	18.6	5.5	2.07	9.5	2.8	1.52
1560	735	45.1	13.2	2.81	35.7	10.5	2.55	25.8	7.6	2.28	19.1	5.6	1.98	9.9	2.9	1.43

HEATING PERFORMANCE at 1395 cfm (660 L/s) Indoor Coil Air Volume 13HPD-042 with [C33-50/60C + G60UHV-60C-110]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.88	44.5	13.0
60	16	2.82	42.4	12.4
55	13	2.76	40.2	11.8
50	10	2.70	38.1	11.2
47	8	2.66	36.8	10.8
45	7	2.63	35.1	10.3
40	4	2.54	31.1	9.1
35	2	2.44	27.0	7.9
30	-1	2.40	26.1	7.6
25	-4	2.36	25.3	7.4
20	-7	2.32	24.4	7.2
17	-8	2.29	23.8	7.0
15	-9	2.27	23.0	6.7
10	-12	2.21	20.8	6.1
5	-15	2.07	18.5	5.4
0	-18	1.93	16.3	4.8
-5	-21	1.79	14.0	4.1
-10	-23	1.65	11.7	3.4
-15	-26	1.52	9.4	2.8
-20	-29	1.38	7.2	2.1

HEATING PERFORMANCE at 1380 cfm (650 L/s) Indoor Coil Air Volume 13HPD-042 with [C33-50/60C + G61MPV-60C-090] [C33-50/60C + G71MPP-60C-090]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.90	44.6	13.1
60	16	2.84	42.5	12.5
55	13	2.77	40.3	11.8
50	10	2.71	38.1	11.2
47	8	2.67	36.9	10.8
45	7	2.64	35.2	10.3
40	4	2.54	31.2	9.1
35	2	2.45	27.1	7.9
30	-1	2.41	26.2	7.7
25	-4	2.37	25.4	7.4
20	-7	2.32	24.5	7.2
17	-8	2.30	23.9	7.0
15	-9	2.27	23.1	6.8
10	-12	2.21	20.9	6.1
5	-15	2.07	18.6	5.5
0	-18	1.93	16.3	4.8
-5	-21	1.79	14.1	4.1
-10	-23	1.66	11.8	3.5
-15	-26	1.52	9.5	2.8
-20	-29	1.38	7.2	2.1

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

UP-FLOW INDOOR COIL WITH GAS FURNACES

COOLING CAPACITY - 13HPD-042 with [C33-50/60C + G61MPV-60C-110] [C33-50/60C + G71MPP-60C-110]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1290	610	40.5	11.9	2.40	.76	.90	1.00	39.0	11.4	2.68	.77	.92	1.00	37.6	11.0	3.01	.79	.94	1.00	36.0	10.6	3.39	.81	.96	1.00
	1405	665	41.5	12.2	2.40	.78	.93	1.00	40.0	11.7	2.69	.79	.95	1.00	38.5	11.3	3.02	.81	.97	1.00	36.6	10.7	3.40	.83	.99	1.00
	1605	760	42.5	12.5	2.41	.81	.97	1.00	41.0	12.0	2.70	.83	.99	1.00	39.5	11.6	3.03	.84	1.00	1.00	37.8	11.1	3.40	.86	1.00	1.00
67°F (19°C)	1290	610	43.0	12.6	2.42	.60	.74	.87	41.5	12.2	2.70	.61	.75	.89	40.0	11.7	3.03	.62	.77	.91	38.0	11.1	3.41	.63	.78	.93
	1405	665	43.5	12.7	2.42	.61	.75	.90	42.0	12.3	2.71	.62	.77	.91	40.5	11.9	3.04	.63	.79	.94	38.5	11.3	3.41	.64	.80	.96
	1605	760	44.5	13.0	2.44	.63	.79	.94	43.0	12.6	2.72	.64	.80	.96	41.5	12.2	3.05	.65	.82	.98	39.5	11.6	3.42	.66	.84	1.00
71°F (22°C)	1290	610	45.0	13.2	2.45	.46	.59	.72	43.5	12.7	2.73	.46	.59	.73	42.0	12.3	3.05	.46	.60	.74	40.5	11.9	3.43	.47	.62	.76
	1405	665	46.0	13.5	2.46	.46	.60	.73	44.5	13.0	2.73	.46	.60	.75	42.5	12.5	3.06	.47	.62	.76	41.0	12.0	3.43	.47	.63	.78
	1605	760	47.0	13.8	2.46	.47	.62	.77	45.5	13.3	2.74	.47	.63	.78	43.5	12.7	3.07	.48	.64	.80	42.0	12.3	3.44	.48	.65	.82

COOLING CAPACITY - 13HPD-042 with [C33-60D + G60UHV-60D-135]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1275	600	41.0	12.0	2.40	.77	.91	1.00	39.5	11.6	2.69	.78	.93	1.00	37.8	11.1	3.01	.79	.95	1.00	36.2	10.6	3.39	.81	.97	1.00
	1430	675	42.0	12.3	2.41	.79	.95	1.00	40.5	11.9	2.69	.81	.96	1.00	39.0	11.4	3.02	.82	.98	1.00	37.0	10.8	3.40	.84	1.00	1.00
	1575	745	43.0	12.6	2.42	.82	.98	1.00	41.0	12.0	2.70	.83	.99	1.00	39.5	11.6	3.03	.85	1.00	1.00	38.0	11.1	3.41	.87	1.00	1.00
67°F (19°C)	1275	600	43.0	12.6	2.42	.61	.74	.88	41.5	12.2	2.70	.61	.76	.89	40.0	11.7	3.03	.62	.77	.91	38.5	11.3	3.41	.63	.79	.94
	1430	675	44.0	12.9	2.43	.62	.77	.91	42.5	12.5	2.72	.63	.78	.93	41.0	12.0	3.04	.64	.80	.95	39.0	11.4	3.42	.65	.82	.98
	1575	745	45.0	13.2	2.44	.64	.79	.95	43.5	12.7	2.72	.65	.81	.97	41.5	12.2	3.05	.66	.83	.99	40.0	11.7	3.42	.67	.85	1.00
71°F (22°C)	1275	600	45.5	13.3	2.45	.46	.60	.72	44.0	12.9	2.73	.46	.60	.73	42.5	12.5	3.05	.46	.61	.75	40.5	11.9	3.43	.47	.62	.76
	1430	675	46.5	13.6	2.46	.46	.61	.75	45.0	13.2	2.74	.47	.62	.76	43.0	12.6	3.06	.47	.63	.78	41.5	12.2	3.43	.48	.64	.80
	1575	745	47.0	13.8	2.47	.47	.63	.77	45.5	13.3	2.75	.48	.64	.79	44.0	12.9	3.07	.48	.65	.81	42.0	12.3	3.44	.48	.66	.82

HEATING CAPACITY - 13HPD-042 with [C33-50/60C + G61MPV-60C-110] [C33-50/60C + G71MPP-60C-110]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1290	610	44.3	13.0	2.95	35.0	10.3	2.70	25.1	7.4	2.43	18.3	5.4	2.14	9.2	2.7	1.59
1405	660	44.6	13.1	2.88	35.2	10.3	2.62	25.3	7.4	2.36	18.6	5.5	2.07	9.5	2.8	1.51
1605	760	45.1	13.2	2.79	35.7	10.5	2.53	25.8	7.6	2.27	19.1	5.6	1.98	10.0	2.9	1.42

HEATING CAPACITY - 13HPD-042 with [C33-60D + G60UHV-60D-135]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1275	600	44.3	13.0	2.93	34.8	10.2	2.68	24.8	7.3	2.43	18.1	5.3	2.14	9.1	2.7	1.59
1430	675	44.6	13.1	2.83	35.1	10.3	2.58	25.2	7.4	2.33	18.4	5.4	2.04	9.4	2.8	1.49
1575	745	44.9	13.2	2.76	35.4	10.4	2.51	25.4	7.4	2.26	18.7	5.5	1.97	9.7	2.8	1.42

HEATING PERFORMANCE at 1405 cfm (665 L/s) Indoor Coil Air Volume 13HPD-042 with [C33-50/60C + G61MPV-60C-110] [C33-50/60C + G71MPP-60C-110]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.88	44.6	13.1
60	16	2.82	42.4	12.4
55	13	2.76	40.3	11.8
50	10	2.70	38.1	11.2
47	8	2.66	36.8	10.8
45	7	2.62	35.2	10.3
40	4	2.53	31.1	9.1
35	2	2.44	27.1	7.9
30	-1	2.40	26.2	7.7
25	-4	2.36	25.3	7.4
20	-7	2.32	24.4	7.2
17	-8	2.29	23.9	7.0
15	-9	2.27	23.0	6.7
10	-12	2.21	20.9	6.1
5	-15	2.07	18.6	5.5
0	-18	1.93	16.3	4.8
-5	-21	1.79	14.0	4.1
-10	-23	1.65	11.7	3.4
-15	-26	1.51	9.5	2.8
-20	-29	1.38	7.2	2.1

HEATING PERFORMANCE at 1430 cfm (675 L/s) Indoor Coil Air Volume 13HPD-042 with [C33-60D + G60UHV-60D-135]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.83	44.6	13.1
60	16	2.77	42.4	12.4
55	13	2.71	40.2	11.8
50	10	2.65	38.1	11.2
47	8	2.62	36.8	10.8
45	7	2.58	35.1	10.3
40	4	2.50	31.1	9.1
35	2	2.41	27.0	7.9
30	-1	2.37	26.1	7.6
25	-4	2.33	25.2	7.4
20	-7	2.29	24.3	7.1
17	-8	2.26	23.7	6.9
15	-9	2.24	22.8	6.7
10	-12	2.18	20.7	6.1
5	-15	2.04	18.4	5.4
0	-18	1.91	16.1	4.7
-5	-21	1.77	13.9	4.1
-10	-23	1.63	11.6	3.4
-15	-26	1.49	9.4	2.8
-20	-29	1.36	7.1	2.1

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

UP-FLOW INDOOR COIL WITH GAS FURNACES

COOLING CAPACITY - 13HPD-042 with [C33-60D + G61MPV-60D-135] [C33-60D + G71MPP-60D-135]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1305	615	41.0	12.0	2.40	.77	.92	1.00	39.5	11.6	2.69	.78	.94	1.00	38.0	11.1	3.02	.80	.96	1.00	36.4	10.7	3.40	.82	.98	1.00
	1400	660	41.5	12.2	2.41	.79	.94	1.00	40.0	11.7	2.69	.80	.96	1.00	38.5	11.3	3.02	.82	.98	1.00	37.0	10.8	3.40	.84	1.00	1.00
	1600	755	42.5	12.5	2.42	.82	.98	1.00	41.5	12.2	2.70	.84	1.00	1.00	40.0	11.7	3.03	.85	1.00	1.00	38.0	11.1	3.41	.87	1.00	1.00
67°F (19°C)	1305	615	43.5	12.7	2.42	.61	.75	.88	42.0	12.3	2.71	.61	.76	.90	40.0	11.7	3.04	.63	.78	.92	38.5	11.3	3.41	.63	.79	.94
	1400	660	44.0	12.9	2.43	.62	.77	.91	42.5	12.5	2.71	.63	.78	.93	41.0	12.0	3.04	.64	.79	.95	39.0	11.4	3.41	.65	.81	.97
	1600	755	45.0	13.2	2.44	.64	.80	.95	43.5	12.7	2.72	.65	.81	.97	42.0	12.3	3.05	.66	.83	.99	40.0	11.7	3.42	.67	.85	1.00
71°F (22°C)	1305	615	45.5	13.3	2.45	.46	.60	.73	44.0	12.9	2.73	.46	.60	.74	42.5	12.5	3.05	.47	.60	.75	40.5	11.9	3.43	.47	.62	.77
	1400	660	46.0	13.5	2.46	.46	.61	.74	44.5	13.0	2.74	.47	.62	.76	43.0	12.6	3.06	.47	.63	.77	41.0	12.0	3.43	.47	.64	.79
	1600	755	47.5	13.9	2.47	.47	.63	.78	45.5	13.3	2.75	.48	.64	.79	44.0	12.9	3.07	.48	.65	.81	42.0	12.3	3.44	.49	.66	.83

COOLING CAPACITY - 13HPD-042 with [C33-62C + G60UHV-60C-090]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1355	640	42.5	12.5	2.41	.79	.95	1.00	41.0	12.0	2.70	.81	.97	1.00	39.5	11.6	3.03	.82	.99	1.00	37.6	11.0	3.40	.84	1.00	1.00
	1520	715	43.5	12.7	2.43	.83	.99	1.00	42.0	12.3	2.71	.84	1.00	1.00	40.5	11.9	3.04	.86	1.00	1.00	39.0	11.4	3.41	.88	1.00	1.00
67°F (19°C)	1355	640	45.0	13.2	2.44	.63	.77	.92	43.0	12.6	2.72	.63	.79	.94	41.5	12.2	3.05	.64	.80	.96	39.5	11.6	3.42	.65	.82	.98
	1520	715	45.5	13.3	2.45	.64	.80	.96	44.0	12.9	2.73	.65	.82	.98	42.5	12.5	3.06	.66	.84	1.00	40.5	11.9	3.43	.67	.86	1.00
71°F (22°C)	1355	640	47.0	13.8	2.47	.46	.61	.75	45.5	13.3	2.75	.47	.62	.76	44.0	12.9	3.07	.47	.63	.78	42.0	12.3	3.44	.47	.64	.80
	1520	715	48.0	14.1	2.48	.47	.63	.79	46.5	13.6	2.76	.48	.64	.80	44.5	13.0	3.08	.48	.65	.81	42.5	12.5	3.44	.49	.66	.83

HEATING CAPACITY - 13HPD-042 with [C33-60D + G61MPV-60D-135] [C33-60D + G71MPP-60D-135]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1305	615	44.4	13.0	2.90	35.0	10.3	2.65	25.0	7.3	2.39	18.3	5.4	2.10	9.2	2.7	1.55
1400	660	44.6	13.1	2.85	35.2	10.3	2.60	25.2	7.4	2.34	18.5	5.4	2.05	9.4	2.8	1.50
1600	755	45.1	13.2	2.75	35.7	10.5	2.50	25.8	7.6	2.24	19.0	5.6	1.95	9.9	2.9	1.40

HEATING CAPACITY - 13HPD-042 with [C33-62C + G60UHV-60C-090]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1355	640	44.4	13.0	2.92	35.0	10.3	2.66	25.1	7.4	2.40	18.4	5.4	2.10	9.4	2.8	1.54
1520	715	44.8	13.1	2.83	35.4	10.4	2.57	25.5	7.5	2.30	18.8	5.5	2.01	9.8	2.9	1.44

HEATING PERFORMANCE at 1400 cfm (660 L/s) Indoor Coil Air Volume 13HPD-042 with [C33-60D + G61MPV-60D-135] [C33-60D + G71MPP-60D-135]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.85	44.6	13.1
60	16	2.79	42.4	12.4
55	13	2.73	40.3	11.8
50	10	2.67	38.1	11.2
47	8	2.63	36.8	10.8
45	7	2.60	35.2	10.3
40	4	2.51	31.1	9.1
35	2	2.42	27.0	7.9
30	-1	2.38	26.1	7.6
25	-4	2.34	25.2	7.4
20	-7	2.30	24.3	7.1
17	-8	2.27	23.8	7.0
15	-9	2.25	22.9	6.7
10	-12	2.19	20.8	6.1
5	-15	2.05	18.5	5.4
0	-18	1.91	16.2	4.7
-5	-21	1.77	14.0	4.1
-10	-23	1.64	11.7	3.4
-15	-26	1.50	9.4	2.8
-20	-29	1.36	7.1	2.1

HEATING PERFORMANCE at 1355 cfm (640 L/s) Indoor Coil Air Volume 13HPD-042 with [C33-62C + G60UHV-60C-090]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.92	44.4	13.0
60	16	2.86	42.2	12.4
55	13	2.80	40.1	11.8
50	10	2.73	37.9	11.1
47	8	2.70	36.6	10.7
45	7	2.66	35.0	10.3
40	4	2.57	30.9	9.1
35	2	2.48	26.9	7.9
30	-1	2.44	26.0	7.6
25	-4	2.40	25.1	7.4
20	-7	2.35	24.2	7.1
17	-8	2.32	23.7	6.9
15	-9	2.30	22.8	6.7
10	-12	2.24	20.7	6.1
5	-15	2.10	18.4	5.4
0	-18	1.96	16.2	4.7
-5	-21	1.82	13.9	4.1
-10	-23	1.68	11.6	3.4
-15	-26	1.54	9.4	2.8
-20	-29	1.40	7.1	2.1

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

UP-FLOW INDOOR COIL WITH GAS FURNACES

COOLING CAPACITY - 13HPD-042 with [C33-62C + G60UHV-60C-110]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																									
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1295	610	42.0	12.3	2.41	.79	.93	1.00	40.5	11.9	2.70	.80	.95	1.00	39.0	11.4	3.03	.81	.97	1.00	37.2	10.9	3.40	.83	1.00	1.00
	1395	660	42.5	12.5	2.42	.80	.96	1.00	41.0	12.0	2.70	.82	.98	1.00	39.5	11.6	3.03	.83	1.00	1.00	38.0	11.1	3.41	.85	1.00	1.00
	1600	755	44.0	12.9	2.43	.84	1.00	1.00	42.5	12.5	2.71	.85	1.00	1.00	41.0	12.0	3.04	.86	1.00	1.00	39.5	11.6	3.42	.90	1.00	1.00
67°F (19°C)	1295	610	44.5	13.0	2.44	.62	.76	.90	43.0	12.6	2.72	.62	.77	.92	41.0	12.0	3.04	.63	.79	.94	39.5	11.6	3.42	.64	.81	.96
	1395	660	45.0	13.2	2.44	.63	.78	.93	43.5	12.7	2.72	.64	.79	.95	41.5	12.2	3.05	.64	.81	.97	40.0	11.7	3.42	.65	.82	.99
	1600	755	46.0	13.5	2.46	.65	.82	.98	44.5	13.0	2.73	.66	.83	.99	42.5	12.5	3.06	.67	.85	1.00	40.5	11.9	3.43	.68	.87	1.00
71°F (22°C)	1295	610	46.5	13.6	2.46	.46	.60	.74	45.0	13.2	2.74	.46	.61	.75	43.5	12.7	3.07	.47	.62	.77	41.5	12.2	3.44	.47	.63	.78
	1395	660	47.5	13.9	2.47	.47	.62	.76	46.0	13.5	2.75	.47	.62	.77	44.0	12.9	3.07	.47	.63	.79	42.0	12.3	3.44	.48	.64	.80
	1600	755	48.5	14.2	2.49	.48	.64	.79	46.5	13.6	2.76	.48	.65	.80	45.0	13.2	3.08	.49	.66	.83	43.0	12.6	3.45	.49	.67	.85

COOLING CAPACITY - 13HPD-042 with [C33-62C + G61MPV-60C-090] [C33-62C + G71MPP-60C-090]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																									
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1275	600	42.0	12.3	2.41	.78	.93	1.00	40.5	11.9	2.69	.79	.95	1.00	39.0	11.4	3.02	.81	.97	1.00	37.0	10.8	3.40	.82	.99	1.00
	1380	650	42.5	12.5	2.42	.80	.96	1.00	41.0	12.0	2.70	.81	.98	1.00	39.5	11.6	3.03	.83	1.00	1.00	37.8	11.1	3.41	.84	1.00	1.00
	1560	735	43.5	12.7	2.43	.83	1.00	1.00	42.0	12.3	2.71	.85	1.00	1.00	40.5	11.9	3.04	.87	1.00	1.00	39.0	11.4	3.41	.89	1.00	1.00
67°F (19°C)	1275	600	44.5	13.0	2.43	.61	.76	.89	42.5	12.5	2.72	.62	.77	.91	41.0	12.0	3.04	.63	.78	.93	39.0	11.4	3.42	.64	.80	.96
	1380	650	45.0	13.2	2.44	.63	.78	.92	43.5	12.7	2.72	.63	.79	.94	41.5	12.2	3.05	.64	.81	.96	40.0	11.7	3.42	.65	.82	.99
	1560	735	46.0	13.5	2.45	.65	.81	.97	44.0	12.9	2.73	.65	.82	.99	42.5	12.5	3.06	.66	.84	1.00	40.5	11.9	3.43	.67	.86	1.00
71°F (22°C)	1275	600	46.5	13.6	2.46	.45	.59	.73	45.0	13.2	2.74	.46	.61	.75	43.5	12.7	3.06	.47	.62	.76	41.5	12.2	3.43	.47	.63	.78
	1380	650	47.5	13.9	2.47	.47	.61	.75	45.5	13.3	2.75	.47	.62	.77	44.0	12.9	3.07	.47	.63	.78	42.0	12.3	3.44	.47	.64	.80
	1560	735	48.5	14.2	2.49	.47	.64	.79	46.5	13.6	2.76	.48	.64	.80	45.0	13.2	3.08	.48	.65	.82	43.0	12.6	3.45	.49	.66	.84

HEATING CAPACITY - 13HPD-042 with [C33-62C + G60UHV-60C-110]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor	Total Heating Capacity		Comp. Motor	Total Heating Capacity		Comp. Motor	Total Heating Capacity		Comp. Motor	Total Heating Capacity		Comp. Motor
cfm	L/s	kBtuh	kW	kW Input	kBtuh	kW	kW Input	kBtuh	kW	kW Input	kBtuh	kW	kW Input	kBtuh	kW	kW Input
1295	610	44.3	13.0	2.95	34.9	10.2	2.70	25.0	7.3	2.44	18.3	5.4	2.15	9.2	2.7	1.59
1395	660	44.5	13.0	2.89	35.1	10.3	2.64	25.2	7.4	2.38	18.5	5.4	2.09	9.4	2.8	1.53
1600	755	45.0	13.2	2.78	35.6	10.4	2.53	25.7	7.5	2.28	19.0	5.6	1.98	9.9	2.9	1.42

HEATING CAPACITY - 13HPD-042 with [C33-62C + G61MPV-60C-090] [C33-62C + G71MPP-60C-090]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor	Total Heating Capacity		Comp. Motor	Total Heating Capacity		Comp. Motor	Total Heating Capacity		Comp. Motor	Total Heating Capacity		Comp. Motor
cfm	L/s	kBtuh	kW	kW Input	kBtuh	kW	kW Input	kBtuh	kW	kW Input	kBtuh	kW	kW Input	kBtuh	kW	kW Input
1275	600	44.4	13.0	2.97	35.0	10.3	2.72	25.1	7.4	2.46	18.4	5.4	2.16	9.2	2.7	1.60
1380	650	44.6	13.1	2.90	35.2	10.3	2.65	25.3	7.4	2.39	18.6	5.5	2.09	9.5	2.8	1.53
1560	735	45.1	13.2	2.81	35.7	10.5	2.55	25.8	7.6	2.29	19.1	5.6	1.99	9.9	2.9	1.43

HEATING PERFORMANCE at 1395 cfm (660 L/s) Indoor Coil Air Volume 13HPD-042 with [C33-62C + G60UHV-60C-110]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.89	44.5	13.0
60	16	2.83	42.4	12.4
55	13	2.77	40.2	11.8
50	10	2.71	38.1	11.2
47	8	2.67	36.8	10.8
45	7	2.64	35.1	10.3
40	4	2.55	31.1	9.1
35	2	2.47	27.0	7.9
30	-1	2.42	26.1	7.6
25	-4	2.38	25.2	7.4
20	-7	2.34	24.4	7.2
17	-8	2.31	23.8	7.0
15	-9	2.29	23.0	6.7
10	-12	2.23	20.8	6.1
5	-15	2.09	18.5	5.4
0	-18	1.95	16.3	4.8
-5	-21	1.81	14.0	4.1
-10	-23	1.67	11.7	3.4
-15	-26	1.53	9.4	2.8
-20	-29	1.39	7.1	2.1

HEATING PERFORMANCE at 1380 cfm (650 L/s) Indoor Coil Air Volume 13HPD-042 with [C33-62C + G61MPV-60C-090] [C33-62C + G71MPP-60C-090]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.90	44.6	13.1
60	16	2.84	42.5	12.5
55	13	2.78	40.3	11.8
50	10	2.72	38.2	11.2
47	8	2.68	36.9	10.8
45	7	2.65	35.2	10.3
40	4	2.56	31.2	9.1
35	2	2.47	27.1	7.9
30	-1	2.43	26.2	7.7
25	-4	2.39	25.3	7.4
20	-7	2.34	24.5	7.2
17	-8	2.32	23.9	7.0
15	-9	2.29	23.1	6.8
10	-12	2.23	20.9	6.1
5	-15	2.09	18.6	5.5
0	-18	1.95	16.3	4.8
-5	-21	1.81	14.0	4.1
-10	-23	1.67	11.8	3.5
-15	-26	1.53	9.5	2.8
-20	-29	1.39	7.2	2.1

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

UP-FLOW INDOOR COIL WITH GAS FURNACES

COOLING CAPACITY - 13HPD-042 with [C33-62C + G61MPV-60C-110] [C33-62C + G71MPP-60C-110]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1290	610	42.0	12.3	2.41	.78	.93	1.00	40.5	11.9	2.69	.80	.95	1.00	39.0	11.4	3.02	.81	.97	1.00	37.2	10.9	3.40	.83	.99	1.00
	1405	665	43.0	12.6	2.42	.80	.96	1.00	41.0	12.0	2.70	.82	.98	1.00	39.5	11.6	3.03	.84	1.00	1.00	38.0	11.1	3.41	.85	1.00	1.00
	1605	760	44.0	12.9	2.43	.84	1.00	1.00	42.5	12.5	2.71	.86	1.00	1.00	41.0	12.0	3.04	.87	1.00	1.00	39.5	11.6	3.42	.90	1.00	1.00
67°F (19°C)	1290	610	44.5	13.0	2.44	.62	.76	.90	43.0	12.6	2.72	.62	.77	.92	41.0	12.0	3.04	.63	.79	.94	39.5	11.6	3.42	.64	.81	.96
	1405	665	45.0	13.2	2.44	.63	.78	.93	43.5	12.7	2.72	.64	.79	.95	41.5	12.2	3.05	.65	.81	.97	40.0	11.7	3.42	.65	.83	.99
	1605	760	46.0	13.5	2.46	.65	.82	.98	44.5	13.0	2.73	.66	.84	1.00	42.5	12.5	3.06	.67	.85	1.00	41.0	12.0	3.43	.68	.88	1.00
71°F (22°C)	1290	610	46.5	13.6	2.46	.45	.60	.74	45.0	13.2	2.74	.46	.61	.75	43.5	12.7	3.07	.47	.62	.76	41.5	12.2	3.43	.47	.63	.78
	1405	665	47.5	13.9	2.47	.47	.62	.76	46.0	13.5	2.75	.47	.62	.77	44.0	12.9	3.07	.47	.63	.79	42.0	12.3	3.44	.48	.64	.81
	1605	760	48.5	14.2	2.49	.48	.64	.79	47.0	13.8	2.76	.48	.65	.81	45.0	13.2	3.08	.49	.66	.83	43.0	12.6	3.45	.49	.67	.86

COOLING CAPACITY - 13HPD-042 with [C33-62D + G60UHV-60D-135]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1275	600	41.0	12.0	2.40	.77	.91	1.00	39.5	11.6	2.69	.78	.92	1.00	38.5	11.3	3.02	.79	.95	1.00	36.6	10.7	3.40	.81	.97	1.00
	1430	675	42.0	12.3	2.41	.79	.94	1.00	40.5	11.9	2.70	.81	.96	1.00	39.0	11.4	3.02	.82	.98	1.00	37.4	11.0	3.40	.84	1.00	1.00
	1575	745	43.0	12.6	2.42	.82	.98	1.00	41.5	12.2	2.70	.83	.99	1.00	40.0	11.7	3.03	.85	1.00	1.00	38.5	11.3	3.41	.87	1.00	1.00
67°F (19°C)	1275	600	43.5	12.7	2.42	.60	.74	.87	42.0	12.3	2.71	.61	.75	.93	40.5	11.9	3.04	.62	.77	.91	38.5	11.3	3.41	.63	.79	.94
	1430	675	44.5	13.0	2.44	.62	.77	.91	43.0	12.6	2.72	.63	.78	.93	41.5	12.2	3.05	.64	.80	.95	39.5	11.6	3.42	.65	.82	.98
	1575	745	45.5	13.3	2.45	.64	.79	.94	44.0	12.9	2.73	.65	.81	.96	42.0	12.3	3.05	.66	.83	.99	40.0	11.7	3.42	.67	.84	1.00
71°F (22°C)	1275	600	45.5	13.3	2.45	.45	.59	.72	44.0	12.9	2.73	.46	.60	.73	42.5	12.5	3.05	.46	.61	.75	41.0	12.0	3.43	.47	.62	.76
	1430	675	46.5	13.6	2.46	.47	.61	.72	45.0	13.2	2.74	.47	.62	.76	43.5	12.7	3.07	.47	.63	.78	41.5	12.2	3.43	.48	.64	.80
	1575	745	47.5	13.9	2.48	.47	.63	.77	46.0	13.5	2.75	.48	.64	.79	44.5	13.0	3.07	.48	.65	.80	42.5	12.5	3.44	.49	.66	.82

HEATING CAPACITY - 13HPD-042 with [C33-62C + G61MPV-60C-110] [C33-62C + G71MPP-60C-110]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1290	610	44.4	13.0	2.96	35.0	10.3	2.71	25.0	7.3	2.45	18.3	5.4	2.15
1405	660	44.6	13.1	2.89	35.2	10.3	2.63	25.3	7.4	2.38	18.6	5.5	2.08
1605	760	45.1	13.2	2.78	35.7	10.5	2.53	25.8	7.6	2.27	19.1	5.6	1.98

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		-15°F (-26°C)											
		Total Heating Capacity		Comp. Motor kW Input									
cfm	L/s	kBtuh	kW										
1290	610	9.2	2.7	1.59									
1405	660	9.4	2.8	1.52									
1605	760	10.0	2.9	1.42									

HEATING CAPACITY - 13HPD-042 with [C33-62D + G60UHV-60D-135]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1275	600	44.3	13.0	2.89	34.8	10.2	2.66	24.8	7.3	2.42	18.1	5.3	2.14
1430	675	44.6	13.1	2.81	35.1	10.3	2.58	25.2	7.4	2.34	18.4	5.4	2.06
1575	745	44.9	13.2	2.74	35.4	10.4	2.51	25.4	7.4	2.27	18.7	5.5	1.99

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil		
		-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW	
1275	600	9.0	2.6	1.59
1430	675	9.4	2.8	1.50
1575	745	9.7	2.8	1.43

HEATING PERFORMANCE at 1405 cfm (660 L/s) Indoor Coil Air Volume 13HPD-042 with [C33-62C + G61MPV-60C-110] [C33-62C + G71MPP-60C-110]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.89	44.6	13.1
60	16	2.83	42.4	12.4
55	13	2.77	40.3	11.8
50	10	2.70	38.1	11.2
47	8	2.67	36.8	10.8
45	7	2.63	35.2	10.3
40	4	2.55	31.1	9.1
35	2	2.47	27.1	7.9
30	-1	2.42	26.2	7.7
25	-4	2.38	25.3	7.4
20	-7	2.33	24.4	7.2
17	-8	2.30	23.9	7.0
15	-9	2.28	23.0	6.7
10	-12	2.22	20.9	6.1
5	-15	2.08	18.6	5.5
0	-18	1.94	16.3	4.8
-5	-21	1.80	14.0	4.1
-10	-23	1.66	11.7	3.4
-15	-26	1.52	9.4	2.8
-20	-29	1.38	7.2	2.1

HEATING PERFORMANCE at 1430 cfm (675 L/s) Indoor Coil Air Volume 13HPD-042 with [C33-62D + G60UHV-60D-135]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.81	44.6	13.1
60	16	2.75	42.4	12.4
55	13	2.70	40.3	11.8
50	10	2.64	38.1	11.2
47	8	2.61	36.8	10.8
45	7	2.58	35.1	10.3
40	4	2.49	31.1	9.1
35	2	2.41	27.0	7.9
30	-1	2.37	26.1	7.6
25	-4	2.34	25.2	7.4
20	-7	2.30	24.3	7.1
17	-8	2.27	23.7	6.9
15	-9	2.25	22.8	6.7
10	-12	2.20	20.7	6.1
5	-15	2.06	18.4	5.4
0	-18	1.92	16.1	4.7
-5	-21	1.78	13.9	4.1
-10	-23	1.64	11.6	3.4
-15	-26	1.50	9.4	2.8
-20	-29	1.37	7.1	2.1

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

UP-FLOW INDOOR COIL WITH GAS FURNACES

COOLING CAPACITY - 13HPD-042 with [C33-62D + G61MPV-60D-135] [C33-62D + G71MPP-60D-135]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1305	615	41.5	12.2	2.40	.77	.91	1.00	40.0	11.7	2.69	.78	.93	1.00	38.5	11.3	3.02	.80	.95	1.00	36.8	10.8	3.40	.82	.98	1.00
	1400	660	42.0	12.3	2.41	.79	.93	1.00	40.5	11.9	2.69	.80	.96	1.00	39.0	11.4	3.02	.82	.98	1.00	37.4	11.0	3.40	.84	1.00	1.00
	1600	755	43.0	12.6	2.42	.82	.98	1.00	41.5	12.2	2.70	.83	1.00	1.00	40.0	11.7	3.03	.85	1.00	1.00	38.5	11.3	3.41	.87	1.00	1.00
67°F (19°C)	1305	615	43.5	12.7	2.43	.61	.75	.88	42.0	12.3	2.71	.62	.76	.90	40.5	11.9	3.04	.63	.78	.92	39.0	11.4	3.41	.64	.79	.95
	1400	660	44.0	12.9	2.43	.62	.76	.90	43.0	12.6	2.72	.63	.78	.92	41.5	12.2	3.04	.64	.79	.95	39.5	11.6	3.42	.65	.81	.97
	1600	755	45.5	13.3	2.45	.64	.80	.95	44.0	12.9	2.73	.65	.81	.97	42.0	12.3	3.05	.66	.83	.99	40.5	11.9	3.42	.67	.85	1.00
71°F (22°C)	1305	615	46.0	13.5	2.45	.46	.59	.73	44.5	13.0	2.73	.46	.60	.73	42.5	12.5	3.06	.47	.61	.75	41.0	12.0	3.43	.47	.62	.77
	1400	660	46.5	13.6	2.46	.46	.61	.71	45.0	13.2	2.74	.47	.62	.75	43.5	12.7	3.06	.47	.63	.77	41.5	12.2	3.43	.48	.64	.79
	1600	755	48.0	14.1	2.48	.48	.63	.78	46.0	13.5	2.75	.48	.64	.79	44.5	13.0	3.08	.48	.65		42.5	12.5	3.45	.49	.66	

HEATING CAPACITY - 13HPD-042 with [C33-62D + G61MPV-60D-135] [C33-62D + G71MPP-60D-135]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1305	615	44.4	13.0	2.84	35.0	10.3	2.64	25.1	7.4	2.42	18.4	5.4	2.17	9.3	2.7	1.60
1400	660	44.6	13.1	2.79	35.2	10.3	2.59	25.3	7.4	2.38	18.6	5.5	2.13	9.5	2.8	1.55
1600	755	45.1	13.2	2.70	35.7	10.5	2.49	25.8	7.6	2.28	19.1	5.6	2.03	10.0	2.9	1.45

HEATING PERFORMANCE at 1400 cfm (660 L/s) Indoor Coil Air Volume 13HPD-042 with [C33-62D + G61MPV-60D-135] [C33-62D + G71MPP-60D-135]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.79	44.6	13.1
60	16	2.75	42.4	12.4
55	13	2.70	40.3	11.8
50	10	2.65	38.1	11.2
47	8	2.62	36.8	10.8
45	7	2.59	35.2	10.3
40	4	2.51	31.1	9.1
35	2	2.42	27.0	7.9
30	-1	2.40	26.2	7.7
25	-4	2.38	25.3	7.4
20	-7	2.35	24.4	7.2
17	-8	2.34	23.9	7.0
15	-9	2.32	23.0	6.7
10	-12	2.27	20.9	6.1
5	-15	2.13	18.6	5.5
0	-18	1.98	16.3	4.8
-5	-21	1.84	14.0	4.1
-10	-23	1.69	11.7	3.4
-15	-26	1.55	9.5	2.8
-20	-29	1.40	7.2	2.1

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

DOWN-FLOW INDOOR COILS WITH GAS FURNACES

COOLING CAPACITY - 13HPD-042 with [CR33-48B-F + G60DFV-36B-090]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1235	585	40.0	11.7	2.39	.75	.88	1.00	39.0	11.4	2.70	.76	.90	1.00	37.6	11.0	3.05	.77	.92	1.00	36.0	10.6	3.46	.79	.94	1.00
	1405	665	41.0	12.0	2.40	.77	.91	1.00	40.0	11.7	2.70	.78	.93	1.00	38.5	11.3	3.05	.80	.96	1.00	36.8	10.8	3.46	.82	.98	1.00
	1555	735	42.0	12.3	2.40	.79	.94	1.00	40.5	11.9	2.70	.80	.96	1.00	39.0	11.4	3.05	.82	.99	1.00	37.6	11.0	3.46	.84	.99	1.00
67°F (19°C)	1235	585	42.5	12.5	2.41	.60	.72	.85	41.5	12.2	2.71	.60	.73	.86	40.0	11.7	3.05	.61	.75	.88	38.5	11.3	3.45	.62	.76	.91
	1405	665	43.5	12.7	2.41	.61	.75	.88	42.5	12.5	2.71	.62	.76	.90	40.5	11.9	3.06	.62	.77	.92	39.0	11.4	3.45	.64	.79	.94
	1555	735	44.5	13.0	2.42	.62	.77	.91	43.0	12.6	2.72	.63	.78	.93	41.5	12.2	3.06	.64	.80	.95	39.5	11.6	3.45	.65	.82	.98
71°F (22°C)	1235	585	45.0	13.2	2.43	.45	.58	.70	43.5	12.7	2.72	.46	.59	.71	42.0	12.3	3.07	.45	.60	.72	40.5	11.9	3.45	.46	.61	.74
	1405	665	46.0	13.5	2.43	.46	.60	.72	44.5	13.0	2.73	.46	.60	.73	43.0	12.6	3.07	.46	.61	.75	41.5	12.2	3.46	.47	.62	.77
	1555	735	46.5	13.6	2.44	.47	.61	.75	45.5	13.3	2.73	.47	.62	.76	43.5	12.7	3.07	.47	.63	.78	42.0	12.3	3.46	.47	.64	.79

COOLING CAPACITY - 13HPD-042 with [CR33-48B-F + G61MPV-36B-070] [CR33-48B-F + G71MPP-36B-070]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1395	660	41.0	12.0	2.40	.77	.91	1.00	40.0	11.7	2.70	.78	.93	1.00	38.5	11.3	3.05	.80	.95	1.00	36.8	10.8	3.46	.82	.98	1.00
	1560	735	42.0	12.3	2.40	.79	.94	1.00	40.5	11.9	2.70	.81	.96	1.00	39.0	11.4	3.05	.82	.98	1.00	37.6	11.0	3.46	.84	1.00	1.00
67°F (19°C)	1395	660	43.5	12.7	2.41	.61	.74	.88	42.0	12.3	2.71	.62	.76	.90	40.5	11.9	3.06	.62	.77	.92	39.0	11.4	3.45	.64	.79	.94
	1560	735	44.5	13.0	2.42	.62	.77	.91	43.0	12.6	2.72	.63	.78	.93	41.5	12.2	3.06	.64	.80	.95	39.5	11.6	3.45	.65	.82	.98
71°F (22°C)	1395	660	46.0	13.5	2.43	.46	.60	.72	44.5	13.0	2.73	.46	.60	.74	43.0	12.6	3.07	.46	.61	.75	41.5	12.2	3.46	.47	.62	.77
	1560	735	46.5	13.6	2.44	.47	.61	.75	45.5	13.3	2.74	.47	.62	.76	43.5	12.7	3.07	.47	.63	.77	42.0	12.3	3.46	.47	.64	.79

HEATING CAPACITY - 13HPD-042 with [CR33-48B-F + G60DFV-36B-090]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1235	585	49.0	14.4	3.76	38.4	11.3	3.25	27.2	8.0	2.67	20.0	5.9	2.46	10.0	2.9	1.85
1405	660	49.4	14.5	3.66	38.8	11.4	3.14	27.6	8.1	2.56	20.4	6.0	2.35	10.4	3.0	1.74
1555	735	49.8	14.6	3.57	39.2	11.5	3.06	28.0	8.2	2.48	20.8	6.1	2.27	10.8	3.2	1.66

HEATING CAPACITY - 13HPD-042 with [CR33-48B-F + G61MPV-36B-070] [CR33-48B-F + G71MPP-36B-070]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1395	660	48.9	14.3	3.66	38.3	11.2	3.15	27.1	7.9	2.56	19.9	5.8	2.35	9.7	2.8	1.74
1560	735	49.3	14.4	3.57	38.7	11.3	3.06	27.5	8.1	2.47	20.2	5.9	2.26	10.1	3.0	1.65

HEATING PERFORMANCE at 1405 cfm (660 L/s) Indoor Coil Air Volume 13HPD-042 with [CR33-48B-F + G60DFV-36B-090]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.66	49.4	14.5
60	16	3.55	47.0	13.8
55	13	3.45	44.6	13.1
50	10	3.34	42.2	12.4
47	8	3.28	40.7	11.9
45	7	3.14	38.8	11.4
40	4	2.80	34.1	10.0
35	2	2.45	29.3	8.6
30	-1	2.51	28.5	8.4
25	-4	2.56	27.6	8.1
20	-7	2.62	26.8	7.9
17	-8	2.65	26.3	7.7
15	-9	2.61	25.3	7.4
10	-12	2.50	22.9	6.7
5	-15	2.35	20.4	6.0
0	-18	2.20	17.9	5.2
-5	-21	2.05	15.4	4.5
-10	-23	1.89	12.9	3.8
-15	-26	1.74	10.4	3.0
-20	-29	1.59	7.9	2.3

HEATING PERFORMANCE at 1395 cfm (660 L/s) Indoor Coil Air Volume 13HPD-042 with [CR33-48B-F + G61MPV-36B-070] [CR33-48B-F + G71MPP-36B-070]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.66	49.8	14.6
60	16	3.56	47.4	13.9
55	13	3.45	45.0	13.2
50	10	3.35	42.5	12.5
47	8	3.28	41.1	12.0
45	7	3.15	39.2	11.5
40	4	2.80	34.4	10.1
35	2	2.45	29.6	8.7
30	-1	2.51	28.8	8.4
25	-4	2.56	28.0	8.2
20	-7	2.62	27.1	7.9
17	-8	2.65	26.6	7.8
15	-9	2.61	25.7	7.5
10	-12	2.50	23.2	6.8
5	-15	2.35	20.7	6.1
0	-18	2.20	18.2	5.3
-5	-21	2.05	15.6	4.6
-10	-23	1.90	13.1	3.8
-15	-26	1.74	10.5	3.1
-20	-29	1.59	8.0	2.3

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

DOWN-FLOW INDOOR COILS WITH GAS FURNACES

COOLING CAPACITY - 13HPD-042 with [CR33-48C-F + G60DFV-60C-090]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1390	655	41.0	12.0	2.40	.77	.91	1.00	40.0	11.7	2.70	.78	.93	1.00	38.5	11.3	3.05	.80	.95	1.00	36.8	10.8	3.46	.81	.97	1.00
	1565	740	42.0	12.3	2.40	.79	.94	1.00	40.5	11.9	2.70	.81	.96	1.00	39.0	11.4	3.05	.82	.99	1.00	37.6	11.0	3.46	.84	1.00	1.00
67°F (19°C)	1390	655	43.5	12.7	2.41	.61	.74	.88	42.0	12.3	2.71	.62	.76	.89	40.5	11.9	3.06	.62	.77	.92	39.0	11.4	3.45	.64	.79	.94
	1565	740	44.5	13.0	2.42	.62	.77	.91	43.0	12.6	2.72	.63	.78	.93	41.5	12.2	3.06	.64	.80	.95	39.5	11.6	3.45	.65	.82	.98
71°F (22°C)	1390	655	46.0	13.5	2.43	.46	.60	.72	44.5	13.0	2.73	.46	.60	.73	43.0	12.6	3.07	.46	.61	.75	41.5	12.2	3.46	.47	.62	.76
	1565	740	46.5	13.6	2.44	.47	.61	.75	45.5	13.3	2.74	.47	.62	.76	43.5	12.7	3.07	.47	.63	.78	42.0	12.3	3.46	.47	.64	.79

COOLING CAPACITY - 13HPD-042 with [CR33-48C-F + G60DFV-60C-110]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1340	630	41.0	12.0	2.40	.76	.90	1.00	39.5	11.6	2.70	.77	.92	1.00	38.0	11.1	3.05	.79	.94	1.00	36.6	10.7	3.46	.81	.97	1.00
	1450	685	41.5	12.2	2.40	.77	.92	1.00	40.0	11.7	2.70	.79	.94	1.00	38.5	11.3	3.05	.81	.96	1.00	37.0	10.8	3.46	.82	.98	1.00
	1645	775	42.5	12.5	2.41	.80	.96	1.00	41.0	12.0	2.71	.82	.98	1.00	39.5	11.6	3.05	.84	.99	1.00	38.0	11.1	3.45	.86	1.00	1.00
67°F (19°C)	1340	630	43.5	12.7	2.41	.61	.74	.87	42.0	12.3	2.71	.61	.75	.89	40.5	11.9	3.05	.62	.76	.91	39.0	11.4	3.45	.63	.78	.93
	1450	685	44.0	12.9	2.41	.61	.75	.89	42.5	12.5	2.72	.62	.77	.91	41.0	12.0	3.05	.63	.78	.93	39.5	11.6	3.45	.64	.80	.95
	1645	775	44.5	13.0	2.42	.63	.78	.93	43.5	12.7	2.72	.64	.79	.95	41.5	12.2	3.06	.65	.81	.97	40.0	11.7	3.45	.66	.83	.99
71°F (22°C)	1340	630	45.5	13.3	2.43	.45	.59	.71	44.5	13.0	2.73	.46	.60	.73	42.5	12.5	3.07	.46	.61	.74	41.0	12.0	3.45	.46	.62	.76
	1450	685	46.0	13.5	2.43	.46	.60	.73	45.0	13.2	2.73	.47	.61	.74	43.5	12.7	3.07	.47	.62	.76	41.5	12.2	3.46	.47	.63	.77
	1645	775	47.0	13.8	2.44	.47	.62	.76	45.5	13.3	2.74	.47	.63	.77	44.0	12.9	3.08	.48	.64	.79	42.5	12.5	3.46	.48	.65	.81

HEATING CAPACITY - 13HPD-042 with [CR33-48C-F + G60DFV-60C-090]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1390	655	49.1	14.4	3.67	38.5	11.3	3.15	27.3	8.0	2.56	20.1	5.9	2.35	10.3	3.0	1.74
1563	740	49.5	14.5	3.57	38.9	11.4	3.05	27.7	8.1	2.47	20.5	6.0	2.26	10.6	3.1	1.65

HEATING CAPACITY - 13HPD-042 with [CR33-48C-F + G60DFV-60C-110]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1340	630	49.1	14.4	3.68	38.5	11.3	3.18	27.2	8.0	2.61	20.0	5.9	2.40	10.1	3.0	1.80
1450	685	49.3	14.4	3.62	38.7	11.3	3.12	27.5	8.1	2.55	20.2	5.9	2.34	10.3	3.0	1.73
1645	775	49.8	14.6	3.52	39.2	11.5	3.02	27.9	8.2	2.44	20.7	6.1	2.24	10.8	3.2	1.63

HEATING PERFORMANCE at 1390 cfm (655 L/s) Indoor Coil Air Volume 13HPD-042 with [CR33-48C-F + G60DFV-60C-090]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.67	49.1	14.4
60	16	3.56	46.7	13.7
55	13	3.46	44.3	13.0
50	10	3.35	41.9	12.3
47	8	3.29	40.4	11.8
45	7	3.15	38.5	11.3
40	4	2.80	33.8	9.9
35	2	2.46	29.0	8.5
30	-1	2.51	28.2	8.3
25	-4	2.56	27.3	8.0
20	-7	2.62	26.5	7.8
17	-8	2.65	26.0	7.6
15	-9	2.61	25.0	7.3
10	-12	2.50	22.6	6.6
5	-15	2.35	20.1	5.9
0	-18	2.20	17.7	5.2
-5	-21	2.05	15.2	4.5
-10	-23	1.90	12.7	3.7
-15	-26	1.74	10.3	3.0
-20	-29	1.59	7.8	2.3

HEATING PERFORMANCE at 1450 cfm (685 L/s) Indoor Coil Air Volume 13HPD-042 with [CR33-48C-F + G60DFV-60C-110]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.62	49.3	14.4
60	16	3.52	46.9	13.7
55	13	3.42	44.5	13.0
50	10	3.32	42.1	12.3
47	8	3.25	40.6	11.9
45	7	3.12	38.7	11.3
40	4	2.78	33.9	9.9
35	2	2.43	29.2	8.6
30	-1	2.49	28.3	8.3
25	-4	2.55	27.5	8.1
20	-7	2.60	26.6	7.8
17	-8	2.64	26.1	7.6
15	-9	2.60	25.1	7.4
10	-12	2.49	22.7	6.7
5	-15	2.34	20.2	5.9
0	-18	2.19	17.8	5.2
-5	-21	2.04	15.3	4.5
-10	-23	1.89	12.8	3.8
-15	-26	1.73	10.3	3.0
-20	-29	1.58	7.8	2.3

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

DOWN-FLOW INDOOR COILS WITH GAS FURNACES

COOLING CAPACITY - 13HPD-042 with [CR33-48C-F + G61MPV-60C-090] [CR33-48C-F + G71MPP-60C-090]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1275	600	40.5	11.9	2.40	.75	.89	1.00	39.0	11.4	2.70	.76	.91	1.00	37.8	11.1	3.05	.78	.93	1.00	36.2	10.6	3.46	.79	.95	1.00
	1380	650	41.0	12.0	2.40	.77	.91	1.00	39.5	11.6	2.70	.78	.93	1.00	38.5	11.3	3.05	.79	.95	1.00	36.8	10.8	3.46	.81	.97	1.00
	1560	735	42.0	12.3	2.40	.79	.94	1.00	40.5	11.9	2.70	.81	.96	1.00	39.0	11.4	3.05	.82	.98	1.00	37.6	11.0	3.46	.84	1.00	1.00
67°F (19°C)	1275	600	43.0	12.6	2.41	.60	.73	.85	41.5	12.2	2.71	.61	.74	.87	40.0	11.7	3.05	.61	.75	.89	38.5	11.3	3.45	.62	.77	.92
	1380	650	43.5	12.7	2.41	.61	.74	.88	42.0	12.3	2.71	.62	.76	.89	40.5	11.9	3.06	.62	.77	.92	39.0	11.4	3.45	.63	.79	.94
	1560	735	44.5	13.0	2.42	.62	.77	.91	43.0	12.6	2.72	.63	.78	.93	41.5	12.2	3.06	.64	.80	.95	39.5	11.6	3.45	.65	.82	.98
71°F (22°C)	1275	600	45.0	13.2	2.43	.46	.59	.70	44.0	12.9	2.72	.46	.59	.72	42.5	12.5	3.06	.46	.60	.73	40.5	11.9	3.45	.46	.61	.75
	1380	650	46.0	13.5	2.43	.46	.60	.72	44.5	13.0	2.73	.46	.60	.73	43.0	12.6	3.07	.46	.61	.75	41.5	12.2	3.46	.47	.62	.76
	1560	735	46.5	13.6	2.44	.47	.61	.75	45.5	13.3	2.74	.47	.62	.76	43.5	12.7	3.07	.47	.63	.77	42.0	12.3	3.46	.47	.64	.79

COOLING CAPACITY - 13HPD-042 with [CR33-48C-F + G61MPV-60C-110] [CR33-48C-F + G71MPP-60C-110]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1290	610	40.5	11.9	2.39	.75	.89	1.00	39.5	11.6	2.70	.77	.91	1.00	37.8	11.1	3.05	.78	.93	1.00	36.4	10.7	3.46	.80	.96	1.00
	1405	665	41.5	12.2	2.40	.77	.91	1.00	40.0	11.7	2.70	.78	.93	1.00	38.5	11.3	3.05	.80	.96	1.00	36.8	10.8	3.46	.82	.98	1.00
	1605	760	42.0	12.3	2.41	.80	.95	1.00	41.0	12.0	2.71	.81	.97	1.00	39.5	11.6	3.05	.83	.99	1.00	37.8	11.1	3.45	.85	1.00	1.00
67°F (19°C)	1290	610	43.0	12.6	2.41	.60	.73	.86	41.5	12.2	2.71	.61	.74	.87	40.0	11.7	3.05	.61	.76	.90	38.5	11.3	3.45	.63	.77	.92
	1405	665	43.5	12.7	2.41	.61	.75	.88	42.5	12.5	2.71	.62	.76	.90	40.5	11.9	3.06	.62	.77	.92	39.0	11.4	3.45	.64	.79	.94
	1605	760	44.5	13.0	2.42	.63	.77	.92	43.0	12.6	2.72	.64	.79	.94	41.5	12.2	3.06	.64	.81	.96	40.0	11.7	3.45	.66	.83	.99
71°F (22°C)	1290	610	45.5	13.3	2.43	.46	.59	.71	44.0	12.9	2.72	.46	.59	.72	42.5	12.5	3.06	.46	.60	.73	41.0	12.0	3.45	.46	.61	.75
	1405	665	46.0	13.5	2.43	.46	.60	.72	44.5	13.0	2.73	.46	.60	.73	43.0	12.6	3.07	.46	.61	.75	41.5	12.2	3.46	.47	.62	.77
	1605	760	47.0	13.8	2.44	.47	.61	.75	45.5	13.3	2.74	.47	.62	.76	44.0	12.9	3.08	.48	.63	.78	42.0	12.3	3.46	.48	.64	.80

HEATING CAPACITY - 13HPD-042 with [CR33-48C-F + G61MPV-60C-090] [CR33-48C-F + G71MPP-60C-090]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor	Total Heating Capacity		Comp. Motor	Total Heating Capacity		Comp. Motor	Total Heating Capacity		Comp. Motor	Total Heating Capacity		Comp. Motor
cfm	L/s	kBtuh	kW	kW Input	kBtuh	kW	kW Input	kBtuh	kW	kW Input	kBtuh	kW	kW Input	kBtuh	kW	kW Input
1275	600	49.1	14.4	3.74	38.5	11.3	3.22	27.3	8.0	2.63	20.1	5.9	2.42	10.1	3.0	1.81
1380	650	49.3	14.4	3.68	38.7	11.3	3.15	27.5	8.1	2.57	20.3	5.9	2.35	10.3	3.0	1.75
1560	735	49.8	14.6	3.58	39.2	11.5	3.06	28.0	8.2	2.47	20.8	6.1	2.25	10.8	3.2	1.65

HEATING CAPACITY - 13HPD-042 with [CR33-48C-F + G61MPV-60C-110] [CR33-48C-F + G71MPP-60C-110]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor	Total Heating Capacity		Comp. Motor	Total Heating Capacity		Comp. Motor	Total Heating Capacity		Comp. Motor	Total Heating Capacity		Comp. Motor
cfm	L/s	kBtuh	kW	kW Input	kBtuh	kW	kW Input	kBtuh	kW	kW Input	kBtuh	kW	kW Input	kBtuh	kW	kW Input
1290	610	49.1	14.4	3.73	38.5	11.3	3.21	27.3	8.0	2.63	20.1	5.9	2.42	10.1	3.0	1.81
1405	660	49.3	14.4	3.66	38.7	11.3	3.14	27.5	8.1	2.56	20.3	5.9	2.35	10.3	3.0	1.74
1605	760	50.0	14.7	3.55	39.4	11.5	3.03	28.2	8.3	2.45	20.9	6.1	2.24	11.0	3.2	1.63

HEATING PERFORMANCE at 1380 cfm (650 L/s) Indoor Coil Air Volume 13HPD-042 with [CR33-48C-F + G61MPV-60C-090] [CR33-48C-F + G71MPP-60C-090]

*Outdoor Temperature		Compressor Motor	Total Output	
°F	°C	kW Input	kBtuh	kW
65	18	3.68	49.3	14.4
60	16	3.57	46.9	13.7
55	13	3.46	44.5	13.0
50	10	3.36	42.1	12.3
47	8	3.29	40.6	11.9
45	7	3.15	38.7	11.3
40	4	2.81	34.0	10.0
35	2	2.46	29.2	8.6
30	-1	2.51	28.4	8.3
25	-4	2.57	27.5	8.1
20	-7	2.62	26.7	7.8
17	-8	2.65	26.2	7.7
15	-9	2.61	25.2	7.4
10	-12	2.51	22.8	6.7
5	-15	2.35	20.3	5.9
0	-18	2.20	17.8	5.2
-5	-21	2.05	15.3	4.5
-10	-23	1.90	12.8	3.8
-15	-26	1.75	10.3	3.0
-20	-29	1.59	7.9	2.3

HEATING PERFORMANCE at 1405 cfm (665 L/s) Indoor Coil Air Volume 13HPD-042 with [CR33-48C-F + G61MPV-60C-110] [CR33-48C-F + G71MPP-60C-110]

*Outdoor Temperature		Compressor Motor	Total Output	
°F	°C	kW Input	kBtuh	kW
65	18	3.66	49.3	14.4
60	16	3.55	46.9	13.7
55	13	3.45	44.5	13.0
50	10	3.34	42.1	12.3
47	8	3.28	40.6	11.9
45	7	3.14	38.7	11.3
40	4	2.80	34.0	10.0
35	2	2.45	29.2	8.6
30	-1	2.51	28.4	8.3
25	-4	2.56	27.5	8.1
20	-7	2.62	26.7	7.8
17	-8	2.65	26.2	7.7
15	-9	2.61	25.2	7.4
10	-12	2.50	22.8	6.7
5	-15	2.35	20.3	5.9
0	-18	2.20	17.8	5.2
-5	-21	2.05	15.3	4.5
-10	-23	1.89	12.8	3.8
-15	-26	1.74	10.3	3.0
-20	-29	1.59	7.9	2.3

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

DOWN-FLOW INDOOR COILS WITH GAS FURNACES

COOLING CAPACITY - 13HPD-042 with [CR33-50/60C-F + G60DFV-60C-090]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1390	655	42.5	12.5	2.41	.78	.94	1.00	41.0	12.0	2.71	.80	.96	1.00	39.5	11.6	3.05	.81	.98	1.00	38.0	11.1	3.46	.83	.99	1.00
	1565	740	43.5	12.7	2.41	.81	.97	1.00	42.0	12.3	2.71	.83	.99	1.00	40.5	11.9	3.06	.85	1.00	1.00	39.0	11.4	3.45	.87	1.00	1.00
67°F (19°C)	1390	655	45.0	13.2	2.42	.62	.76	.90	43.5	12.7	2.72	.63	.77	.92	42.0	12.3	3.06	.63	.79	.94	40.0	11.7	3.46	.65	.81	.97
	1565	740	46.0	13.5	2.43	.63	.79	.94	44.5	13.0	2.73	.64	.80	.96	42.5	12.5	3.07	.65	.82	.98	41.0	12.0	3.45	.66	.84	.99
71°F (22°C)	1390	655	47.5	13.9	2.45	.46	.61	.74	46.0	13.5	2.74	.47	.61	.75	44.0	12.9	3.08	.46	.62	.77	42.5	12.5	3.46	.47	.63	.79
	1565	740	48.0	14.1	2.46	.47	.62	.77	46.5	13.6	2.74	.48	.63	.78	45.0	13.2	3.08	.48	.64	.80	43.0	12.6	3.47	.48	.65	.82

COOLING CAPACITY - 13HPD-042 with [CR33-50/60C-F + G60DFV-60C-110]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1340	630	42.0	12.3	2.41	.78	.93	1.00	41.0	12.0	2.71	.79	.94	1.00	39.0	11.4	3.05	.80	.97	1.00	37.6	11.0	3.45	.82	.98	1.00
	1450	685	43.0	12.6	2.41	.79	.95	1.00	41.5	12.2	2.71	.81	.97	1.00	40.0	11.7	3.06	.82	.98	1.00	38.5	11.3	3.45	.85	1.00	1.00
	1645	775	44.0	12.9	2.41	.82	.98	1.00	42.5	12.5	2.72	.84	.99	1.00	41.0	12.0	3.06	.86	1.00	1.00	39.5	11.6	3.45	.88	1.00	1.00
67°F (19°C)	1340	630	44.5	13.0	2.42	.61	.75	.89	43.0	12.6	2.72	.62	.77	.91	41.5	12.2	3.07	.63	.78	.93	40.0	11.7	3.46	.64	.80	.96
	1450	685	45.5	13.3	2.43	.62	.77	.92	44.0	12.9	2.72	.63	.78	.94	42.0	12.3	3.06	.64	.80	.96	40.5	11.9	3.45	.65	.82	.98
	1645	775	46.0	13.5	2.43	.64	.80	.96	44.5	13.0	2.73	.65	.82	.98	43.0	12.6	3.07	.66	.84	.99	41.0	12.0	3.46	.67	.86	1.00
71°F (22°C)	1340	630	47.0	13.8	2.44	.46	.60	.73	45.5	13.3	2.74	.46	.61	.74	44.0	12.9	3.08	.47	.62	.76	42.0	12.3	3.47	.47	.63	.77
	1450	685	47.5	13.9	2.45	.46	.61	.75	46.0	13.5	2.74	.47	.62	.76	44.5	13.0	3.08	.47	.63	.78	42.5	12.5	3.47	.48	.64	.80
	1645	775	48.5	14.2	2.46	.47	.63	.78	47.0	13.8	2.75	.48	.64	.79	45.5	13.3	3.08	.48	.65	.81	43.5	12.7	3.47	.49	.66	.84

HEATING CAPACITY - 13HPD-042 with [CR33-50/60C-F + G60DFV-60C-090]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1390	655	49.5	14.5	3.38	38.8	11.4	2.94	27.4	8.0	2.45	20.1	5.9	2.27	10.3	3.0	1.67
1565	740	49.9	14.6	3.31	39.2	11.5	2.87	27.8	8.1	2.38	20.5	6.0	2.20	10.7	3.1	1.60

HEATING CAPACITY - 13HPD-042 with [CR33-50/60C-F + G60DFV-60C-110]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1340	630	49.5	14.5	3.41	38.7	11.3	2.98	27.4	8.0	2.49	20.0	5.9	2.32	10.1	3.0	1.72
1450	685	49.7	14.6	3.35	38.9	11.4	2.92	27.6	8.1	2.43	20.2	5.9	2.26	10.3	3.0	1.67
1645	775	50.1	14.7	3.27	39.4	11.5	2.84	28.0	8.2	2.36	20.7	6.1	2.18	10.8	3.2	1.59

HEATING PERFORMANCE at 1390 cfm (655 L/s) Indoor Coil Air Volume 13HPD-042 with [CR33-50/60C-F + G60DFV-60C-090]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.38	49.5	14.5
60	16	3.30	47.0	13.8
55	13	3.21	44.6	13.1
50	10	3.12	42.1	12.3
47	8	3.07	40.7	11.9
45	7	2.94	38.8	11.4
40	4	2.64	34.0	10.0
35	2	2.33	29.2	8.6
30	-1	2.39	28.3	8.3
25	-4	2.45	27.4	8.0
20	-7	2.51	26.6	7.8
17	-8	2.54	26.0	7.6
15	-9	2.51	25.0	7.3
10	-12	2.42	22.6	6.6
5	-15	2.27	20.1	5.9
0	-18	2.12	17.7	5.2
-5	-21	1.97	15.2	4.5
-10	-23	1.82	12.7	3.7
-15	-26	1.67	10.3	3.0
-20	-29	1.53	7.8	2.3

HEATING PERFORMANCE at 1450 cfm (685 L/s) Indoor Coil Air Volume 13HPD-042 with [CR33-50/60C-F + G60DFV-60C-110]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.35	49.7	14.6
60	16	3.27	47.2	13.8
55	13	3.18	44.8	13.1
50	10	3.09	42.3	12.4
47	8	3.04	40.9	12.0
45	7	2.92	38.9	11.4
40	4	2.62	34.2	10.0
35	2	2.31	29.4	8.6
30	-1	2.37	28.5	8.4
25	-4	2.43	27.6	8.1
20	-7	2.49	26.7	7.8
17	-8	2.53	26.2	7.7
15	-9	2.49	25.2	7.4
10	-12	2.41	22.7	6.7
5	-15	2.26	20.2	5.9
0	-18	2.11	17.8	5.2
-5	-21	1.96	15.3	4.5
-10	-23	1.81	12.8	3.8
-15	-26	1.67	10.3	3.0
-20	-29	1.52	7.8	2.3

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

DOWN-FLOW INDOOR COILS WITH GAS FURNACES

COOLING CAPACITY - 13HPD-042 with [CR33-50/60C-F + G61MPV-60C-090] [CR33-50/60C-F + G71MPP-60C-090]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1275	600	42.0	12.3	2.40	.77	.91	1.00	40.5	11.9	2.71	.78	.93	1.00	39.0	11.4	3.05	.79	.95	1.00	37.2	10.9	3.46	.81	.97	1.00
	1380	650	42.5	12.5	2.40	.78	.94	1.00	41.0	12.0	2.71	.80	.95	1.00	39.5	11.6	3.05	.81	.98	1.00	38.0	11.1	3.46	.83	.99	1.00
	1560	735	43.5	12.7	2.41	.81	.97	1.00	42.0	12.3	2.71	.83	.99	1.00	40.5	11.9	3.06	.84	1.00	1.00	39.0	11.4	3.45	.87	1.00	1.00
67°F (19°C)	1275	600	44.5	13.0	2.42	.61	.74	.88	43.0	12.6	2.71	.61	.75	.89	41.0	12.0	3.06	.62	.77	.91	39.5	11.6	3.45	.63	.79	.94
	1380	650	45.0	13.2	2.42	.62	.76	.90	43.5	12.7	2.72	.62	.77	.92	42.0	12.3	3.06	.63	.79	.94	40.0	11.7	3.46	.64	.81	.97
	1560	735	46.0	13.5	2.43	.63	.79	.94	44.5	13.0	2.73	.64	.80	.96	42.5	12.5	3.07	.65	.82	.98	41.0	12.0	3.45	.66	.84	.99
71°F (22°C)	1275	600	46.5	13.6	2.44	.46	.59	.72	45.0	13.2	2.73	.46	.60	.73	43.5	12.7	3.07	.46	.61	.75	42.0	12.3	3.46	.47	.62	.76
	1380	650	47.5	13.9	2.45	.46	.60	.74	45.5	13.3	2.74	.46	.61	.75	44.0	12.9	3.08	.47	.62	.76	42.5	12.5	3.47	.47	.63	.78
	1560	735	48.0	14.1	2.46	.47	.62	.77	46.5	13.6	2.74	.48	.63	.78	45.0	13.2	3.08	.48	.64	.80	43.0	12.6	3.47	.48	.65	.82

COOLING CAPACITY - 13HPD-042 with [CR33-50/60C-F + G61MPV-60C-110] [CR33-50/60C-F + G71MPP-60C-110]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1290	610	42.0	12.3	2.40	.77	.91	1.00	40.5	11.9	2.71	.78	.93	1.00	39.0	11.4	3.05	.80	.95	1.00	37.4	11.0	3.45	.81	.98	1.00
	1405	665	42.5	12.5	2.41	.79	.94	1.00	41.0	12.0	2.71	.80	.96	1.00	39.5	11.6	3.05	.82	.98	1.00	38.0	11.1	3.46	.84	.99	1.00
	1605	760	43.5	12.7	2.41	.82	.98	1.00	42.0	12.3	2.71	.83	.99	1.00	41.0	12.0	3.06	.85	1.00	1.00	39.5	11.6	3.46	.88	1.00	1.00
67°F (19°C)	1290	610	44.5	13.0	2.42	.61	.74	.88	43.0	12.6	2.72	.61	.76	.90	41.5	12.2	3.06	.62	.77	.92	39.5	11.6	3.45	.63	.79	.94
	1405	665	45.0	13.2	2.43	.62	.76	.90	43.5	12.7	2.72	.63	.78	.93	42.0	12.3	3.06	.64	.79	.95	40.0	11.7	3.46	.65	.81	.97
	1605	760	46.0	13.5	2.43	.64	.79	.95	44.5	13.0	2.73	.65	.81	.97	43.0	12.6	3.07	.66	.83	.99	41.0	12.0	3.45	.67	.85	1.00
71°F (22°C)	1290	610	46.5	13.6	2.44	.46	.59	.72	45.0	13.2	2.73	.46	.60	.73	43.5	12.7	3.07	.46	.61	.75	42.0	12.3	3.46	.47	.62	.76
	1405	665	47.5	13.9	2.45	.47	.61	.74	46.0	13.5	2.74	.47	.61	.75	44.0	12.9	3.08	.46	.62	.77	42.5	12.5	3.47	.47	.63	.79
	1605	760	48.5	14.2	2.46	.47	.63	.77	47.0	13.8	2.75	.48	.64	.79	45.0	13.2	3.08	.48	.65	.81	43.5	12.7	3.47	.49	.66	.83

HEATING CAPACITY - 13HPD-042 with [CR33-50/60C-F + G61MPV-60C-090] [CR33-50/60C-F + G71MPP-60C-090]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1275	600	49.5	14.5	3.45	38.7	11.3	3.01	27.4	8.0	2.51	20.1	5.9	2.33	10.1	3.0	1.73
1380	650	49.7	14.6	3.39	39.0	11.4	2.95	27.6	8.1	2.45	20.3	5.9	2.27	10.4	3.0	1.68
1560	735	50.1	14.7	3.31	39.4	11.5	2.87	28.1	8.2	2.37	20.8	6.1	2.19	10.8	3.2	1.60

HEATING CAPACITY - 13HPD-042 with [CR33-50/60C-F + G61MPV-60C-110] [CR33-50/60C-F + G71MPP-60C-110]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1290	610	49.5	14.5	3.43	38.7	11.3	3.00	27.4	8.0	2.51	20.1	5.9	2.33	10.1	3.0	1.73
1405	660	49.7	14.6	3.37	39.0	11.4	2.94	27.6	8.1	2.44	20.3	5.9	2.27	10.4	3.0	1.67
1605	760	50.3	14.7	3.29	39.6	11.6	2.86	28.3	8.3	2.36	21.0	6.2	2.19	11.0	3.2	1.59

HEATING PERFORMANCE at 1380 cfm (650 L/s) Indoor Coil Air Volume 13HPD-042 with [CR33-50/60C-F + G61MPV-60C-090] [CR33-50/60C-F + G71MPP-60C-090]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.39	49.7	14.6
60	16	3.31	47.3	13.9
55	13	3.22	44.8	13.1
50	10	3.13	42.4	12.4
47	8	3.08	40.9	12.0
45	7	2.95	39.0	11.4
40	4	2.64	34.2	10.0
35	2	2.33	29.4	8.6
30	-1	2.39	28.5	8.4
25	-4	2.45	27.6	8.1
20	-7	2.51	26.8	7.9
17	-8	2.54	26.2	7.7
15	-9	2.51	25.3	7.4
10	-12	2.42	22.8	6.7
5	-15	2.27	20.3	5.9
0	-18	2.12	17.8	5.2
-5	-21	1.97	15.3	4.5
-10	-23	1.82	12.8	3.8
-15	-26	1.68	10.4	3.0
-20	-29	1.53	7.9	2.3

HEATING PERFORMANCE at 1405 cfm (660 L/s) Indoor Coil Air Volume 13HPD-042 with [CR33-50/60C-F + G61MPV-60C-110] [CR33-50/60C-F + G71MPP-60C-110]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.37	49.7	14.6
60	16	3.29	47.2	13.8
55	13	3.20	44.8	13.1
50	10	3.11	42.3	12.4
47	8	3.06	40.9	12.0
45	7	2.94	39.0	11.4
40	4	2.63	34.2	10.0
35	2	2.33	29.4	8.6
30	-1	2.39	28.5	8.4
25	-4	2.44	27.6	8.1
20	-7	2.50	26.8	7.9
17	-8	2.54	26.2	7.7
15	-9	2.50	25.2	7.4
10	-12	2.42	22.8	6.7
5	-15	2.27	20.3	5.9
0	-18	2.12	17.8	5.2
-5	-21	1.97	15.3	4.5
-10	-23	1.82	12.8	3.8
-15	-26	1.67	10.4	3.0
-20	-29	1.52	7.9	2.3

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

DOWN-FLOW INDOOR COILS WITH GAS FURNACES

COOLING CAPACITY - 13HPD-042 with [CR33-60D-F + G60DFV-60D-135]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1340	630	42.0	12.3	2.41	.78	.93	1.00	41.0	12.0	2.71	.79	.94	1.00	39.0	11.4	3.05	.80	.97	1.00	37.6	11.0	3.45	.82	.99	1.00
	1440	680	42.5	12.5	2.41	.79	.95	1.00	41.5	12.2	2.71	.81	.97	1.00	40.0	11.7	3.06	.82	.98	1.00	38.5	11.3	3.45	.84	.99	1.00
	1645	775	43.5	12.7	2.41	.82	.98	1.00	42.5	12.5	2.72	.84	.99	1.00	41.0	12.0	3.06	.86	1.00	1.00	39.5	11.6	3.45	.88	1.00	1.00
67°F (19°C)	1340	630	44.5	13.0	2.42	.61	.75	.89	43.0	12.6	2.72	.62	.77	.91	41.5	12.2	3.07	.63	.78	.93	40.0	11.7	3.46	.64	.80	.96
	1440	680	45.0	13.2	2.43	.62	.77	.91	43.5	12.7	2.72	.63	.78	.94	42.0	12.3	3.06	.64	.80	.96	40.5	11.9	3.46	.65	.82	.98
	1645	775	46.0	13.5	2.43	.64	.80	.96	44.5	13.0	2.73	.65	.82	.98	43.0	12.6	3.07	.66	.84	.99	41.0	12.0	3.46	.67	.86	1.00
71°F (22°C)	1340	630	47.0	13.8	2.44	.46	.60	.73	45.5	13.3	2.74	.46	.61	.74	44.0	12.9	3.08	.47	.62	.76	42.0	12.3	3.47	.47	.63	.78
	1440	680	47.5	13.9	2.45	.46	.61	.75	46.0	13.5	2.74	.47	.62	.76	44.5	13.0	3.08	.47	.63	.78	42.5	12.5	3.47	.48	.64	.80
	1645	775	48.5	14.2	2.46	.47	.63	.78	47.0	13.8	2.75	.48	.64	.79	45.5	13.3	3.08	.48	.65	.81	43.5	12.7	3.47	.49	.66	.84

COOLING CAPACITY - 13HPD-042 with [CR33-60D-F + G61MPV-60D-135] [CR33-60D-F + G71MPP-60D-135]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1305	615	42.0	12.3	2.40	.77	.92	1.00	40.5	11.9	2.70	.78	.94	1.00	39.0	11.4	3.05	.80	.96	1.00	37.4	11.0	3.45	.82	.98	1.00
	1400	660	42.5	12.5	2.41	.79	.94	1.00	41.0	12.0	2.71	.80	.96	1.00	39.5	11.6	3.05	.81	.98	1.00	38.0	11.1	3.46	.84	.99	1.00
	1600	755	43.5	12.7	2.41	.82	.98	1.00	42.0	12.3	2.71	.83	.99	1.00	41.0	12.0	3.06	.85	1.00	1.00	39.5	11.6	3.46	.87	1.00	1.00
67°F (19°C)	1305	615	44.5	13.0	2.42	.61	.75	.88	43.0	12.6	2.72	.62	.76	.90	41.5	12.2	3.06	.63	.77	.92	39.5	11.6	3.45	.64	.79	.95
	1400	660	45.0	13.2	2.43	.62	.76	.91	43.5	12.7	2.72	.63	.78	.93	42.0	12.3	3.06	.63	.79	.95	40.0	11.7	3.46	.65	.81	.97
	1600	755	46.0	13.5	2.43	.64	.79	.95	44.5	13.0	2.73	.65	.81	.97	43.0	12.6	3.07	.66	.83	.98	41.0	12.0	3.45	.67	.85	1.00
71°F (22°C)	1305	615	46.5	13.6	2.44	.46	.60	.72	45.5	13.3	2.73	.46	.60	.74	43.5	12.7	3.07	.46	.61	.75	42.0	12.3	3.46	.47	.62	.77
	1400	660	47.5	13.9	2.45	.47	.61	.74	46.0	13.5	2.74	.47	.61	.75	44.0	12.9	3.08	.46	.62	.77	42.5	12.5	3.47	.47	.63	.79
	1600	755	48.5	14.2	2.46	.47	.63	.77	47.0	13.8	2.75	.48	.63	.79	45.0	13.2	3.08	.48	.64	.80	43.5	12.7	3.47	.49	.66	.83

HEATING CAPACITY - 13HPD-042 with [CR33-60D-F + G60DFV-60D-135]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1340	630	49.4	14.5	3.40	38.7	11.3	2.98	27.4	8.0	2.49	20.0	5.9	2.32	10.1	3.0	1.73
1440	680	49.6	14.5	3.34	38.9	11.4	2.92	27.6	8.1	2.43	20.2	5.9	2.26	10.3	3.0	1.67
1645	775	50.0	14.7	3.27	39.3	11.5	2.85	28.0	8.2	2.36	20.7	6.1	2.19	10.7	3.1	1.60

HEATING CAPACITY - 13HPD-042 with [CR33-60D-F + G61MPV-60D-135] [CR33-60D-F + G71MPP-60D-135]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1305	615	49.4	14.5	3.42	38.7	11.3	2.99	27.3	8.0	2.50	20.0	5.9	2.32	10.1	3.0	1.72
1400	660	49.6	14.5	3.37	38.9	11.4	2.94	27.5	8.1	2.45	20.2	5.9	2.27	10.3	3.0	1.67
1600	755	50.0	14.7	3.29	39.3	11.5	2.86	28.0	8.2	2.37	20.7	6.1	2.19	10.8	3.2	1.59

HEATING PERFORMANCE at 1440 cfm (680 L/s) Indoor Coil Air Volume 13HPD-042 with [CR33-60D-F + G60DFV-60D-135]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.34	49.6	14.5
60	16	3.26	47.1	13.8
55	13	3.17	44.7	13.1
50	10	3.09	42.3	12.4
47	8	3.04	40.8	12.0
45	7	2.92	38.9	11.4
40	4	2.62	34.1	10.0
35	2	2.31	29.3	8.6
30	-1	2.37	28.4	8.3
25	-4	2.43	27.6	8.1
20	-7	2.49	26.7	7.8
17	-8	2.53	26.1	7.6
15	-9	2.50	25.1	7.4
10	-12	2.41	22.7	6.7
5	-15	2.26	20.2	5.9
0	-18	2.11	17.7	5.2
-5	-21	1.96	15.3	4.5
-10	-23	1.82	12.8	3.8
-15	-26	1.67	10.3	3.0
-20	-29	1.52	7.8	2.3

HEATING PERFORMANCE at 1400 cfm (660 L/s) Indoor Coil Air Volume 13HPD-042 with [CR33-60D-F + G61MPV-60D-135] [CR33-60D-F + G71MPP-60D-135]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.37	49.6	14.5
60	16	3.29	47.1	13.8
55	13	3.20	44.7	13.1
50	10	3.11	42.2	12.4
47	8	3.06	40.8	12.0
45	7	2.94	38.9	11.4
40	4	2.63	34.1	10.0
35	2	2.33	29.3	8.6
30	-1	2.39	28.4	8.3
25	-4	2.45	27.5	8.1
20	-7	2.50	26.6	7.8
17	-8	2.54	26.1	7.6
15	-9	2.50	25.1	7.4
10	-12	2.42	22.7	6.7
5	-15	2.27	20.2	5.9
0	-18	2.12	17.7	5.2
-5	-21	1.97	15.3	4.5
-10	-23	1.82	12.8	3.8
-15	-26	1.67	10.3	3.0
-20	-29	1.52	7.8	2.3

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HORIZONTAL INDOOR COILS WITH GAS FURNACES

COOLING CAPACITY - 13HPD-042 with [CH23-41 + G60UHV-36B-090]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F	1225	580	39.0	11.4	2.39	.74	.88	.99	37.8	11.1	2.70	.75	.89	1.00	36.6	10.7	3.06	.77	.92	1.00	35.0	10.3	3.46	.79	.94	1.00
(17°C)	1385	655	40.0	11.7	2.39	.77	.91	1.00	39.0	11.4	2.70	.78	.93	1.00	37.4	11.0	3.05	.80	.95	1.00	36.0	10.6	3.46	.81	.97	1.00
67°F	1225	580	42.0	12.3	2.40	.60	.72	.84	40.5	11.9	2.70	.60	.73	.86	39.0	11.4	3.05	.61	.75	.88	37.4	11.0	3.46	.62	.76	.90
(19°C)	1385	655	42.5	12.5	2.41	.61	.74	.88	41.5	12.2	2.71	.61	.76	.90	40.0	11.7	3.06	.63	.77	.92	38.0	11.1	3.45	.63	.79	.94
71°F	1225	580	44.5	13.0	2.42	.46	.58	.70	43.0	12.6	2.72	.46	.59	.71	41.5	12.2	3.06	.46	.60	.72	40.0	11.7	3.46	.46	.60	.74
(22°C)	1385	655	45.5	13.3	2.43	.46	.60	.72	44.0	12.9	2.72	.46	.60	.73	42.5	12.5	3.06	.47	.61	.75	40.5	11.9	3.46	.47	.62	.77

COOLING CAPACITY - 13HPD-042 with [CH23-41 + G60UHV-60C-090]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F	1355	640	40.0	11.7	2.39	.76	.90	1.00	38.5	11.3	2.70	.78	.92	1.00	37.2	10.9	3.05	.79	.94	1.00	35.8	10.5	3.46	.81	.97	1.00
(17°C)	1520	715	41.0	12.0	2.40	.79	.94	1.00	39.5	11.6	2.70	.80	.96	1.00	38.0	11.1	3.05	.82	.97	1.00	37.0	10.8	3.45	.84	.99	1.00
67°F	1355	640	42.5	12.5	2.41	.61	.74	.87	41.0	12.0	2.71	.61	.75	.89	40.0	11.7	3.05	.62	.77	.91	38.0	11.1	3.45	.63	.79	.94
(19°C)	1520	715	43.5	12.7	2.41	.62	.76	.91	42.0	12.3	2.71	.63	.78	.93	40.5	11.9	3.06	.64	.80	.95	39.0	11.4	3.46	.65	.81	.97
71°F	1355	640	45.0	13.2	2.43	.46	.59	.72	44.0	12.9	2.72	.46	.60	.73	42.0	12.3	3.06	.47	.61	.75	40.5	11.9	3.46	.47	.62	.76
(22°C)	1520	715	46.0	13.5	2.43	.46	.61	.74	44.5	13.0	2.73	.47	.62	.76	43.0	12.6	3.07	.47	.63	.77	41.5	12.2	3.46	.48	.64	.79

HEATING CAPACITY - 13HPD-042 with [CH23-41 + G60UHV-36B-090]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil														
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1225	580	48.8	14.3	3.81	38.3	11.2	3.28	27.1	7.9	2.69	19.9	5.8	2.48	10.0	2.9	1.87
1385	655	49.1	14.4	3.69	38.6	11.3	3.16	27.4	8.0	2.57	20.2	5.9	2.36	10.3	3.0	1.75

HEATING CAPACITY - 13HPD-042 with [CH23-41 + G60UHV-60C-090]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil														
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1355	640	48.9	14.3	3.72	38.4	11.3	3.18	27.2	8.0	2.58	20.0	5.9	2.36	10.2	3.0	1.76
1520	715	49.3	14.4	3.62	38.8	11.4	3.09	27.6	8.1	2.49	20.4	6.0	2.27	10.6	3.1	1.66

HEATING PERFORMANCE at 1385 cfm (655 L/s) Indoor Coil Air Volume 13HPD-042 with [CH23-41 + G60UHV-36B-090]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.69	49.1	14.4
60	16	3.58	46.7	13.7
55	13	3.48	44.3	13.0
50	10	3.37	41.9	12.3
47	8	3.31	40.5	11.9
45	7	3.16	38.6	11.3
40	4	2.81	33.9	9.9
35	2	2.45	29.1	8.5
30	-1	2.51	28.3	8.3
25	-4	2.57	27.4	8.0
20	-7	2.63	26.6	7.8
17	-8	2.66	26.1	7.6
15	-9	2.62	25.1	7.4
10	-12	2.51	22.7	6.7
5	-15	2.36	20.2	5.9
0	-18	2.21	17.8	5.2
-5	-21	2.05	15.3	4.5
-10	-23	1.90	12.8	3.8
-15	-26	1.75	10.3	3.0
-20	-29	1.60	7.8	2.3

HEATING PERFORMANCE at 1355 cfm (640 L/s) Indoor Coil Air Volume 13HPD-042 with [CH23-41 + G60UHV-60C-090]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.72	48.9	14.3
60	16	3.61	46.5	13.6
55	13	3.50	44.1	12.9
50	10	3.39	41.7	12.2
47	8	3.32	40.3	11.8
45	7	3.18	38.4	11.3
40	4	2.82	33.7	9.9
35	2	2.46	28.9	8.5
30	-1	2.52	28.1	8.2
25	-4	2.58	27.2	8.0
20	-7	2.64	26.4	7.7
17	-8	2.67	25.9	7.6
15	-9	2.63	24.9	7.3
10	-12	2.52	22.5	6.6
5	-15	2.36	20.0	5.9
0	-18	2.21	17.6	5.2
-5	-21	2.06	15.1	4.4
-10	-23	1.91	12.7	3.7
-15	-26	1.76	10.2	3.0
-20	-29	1.60	7.8	2.3

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HORIZONTAL INDOOR COILS WITH GAS FURNACES

COOLING CAPACITY - 13HPD-042 with [CH23-41 + G60UHV-60C-110]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1295	610	39.5	11.6	2.39	.75	.89	1.00	38.5	11.3	2.69	.77	.91	1.00	37.0	10.8	3.06	.78	.93	1.00	35.4	10.4	3.46	.80	.95	1.00
	1395	660	40.0	11.7	2.39	.77	.91	1.00	39.0	11.4	2.70	.78	.93	1.00	37.4	11.0	3.05	.80	.95	1.00	36.0	10.6	3.46	.82	.97	1.00
	1600	755	41.0	12.0	2.40	.80	.95	1.00	40.0	11.7	2.70	.81	.97	1.00	38.5	11.3	3.06	.83	.99	1.00	37.4	11.0	3.45	.85	1.00	1.00
67°F (19°C)	1295	610	42.0	12.3	2.40	.60	.73	.86	41.0	12.0	2.71	.61	.74	.88	39.5	11.6	3.06	.61	.76	.90	37.8	11.1	3.45	.62	.77	.92
	1395	660	43.0	12.6	2.41	.61	.74	.88	41.5	12.2	2.71	.62	.76	.90	40.0	11.7	3.06	.63	.77	.92	38.5	11.3	3.45	.64	.79	.94
	1600	755	43.5	12.7	2.41	.63	.78	.92	42.5	12.5	2.71	.63	.79	.94	40.5	11.9	3.06	.65	.81	.96	39.0	11.4	3.45	.66	.83	.98
71°F (22°C)	1295	610	45.0	13.2	2.42	.46	.59	.71	43.5	12.7	2.72	.46	.59	.72	42.0	12.3	3.06	.46	.60	.74	40.5	11.9	3.46	.47	.61	.75
	1395	660	45.5	13.3	2.43	.46	.60	.72	44.0	12.9	2.72	.47	.60	.74	42.5	12.5	3.06	.47	.61	.75	41.0	12.0	3.46	.47	.62	.77
	1600	755	46.5	13.6	2.44	.46	.61	.75	45.0	13.2	2.73	.47	.62	.77	43.5	12.7	3.07	.48	.63	.79	42.0	12.3	3.46	.48	.65	.80

COOLING CAPACITY - 13HPD-042 with [CH23-51 + G60UHV-60C-090]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1355	640	41.5	12.2	2.40	.77	.92	1.00	40.0	11.7	2.70	.78	.94	1.00	38.5	11.3	3.05	.80	.95	1.00	37.0	10.8	3.46	.82	.98	1.00
	1520	715	42.5	12.5	2.41	.80	.95	1.00	41.0	12.0	2.71	.81	.97	1.00	39.5	11.6	3.05	.83	.99	1.00	38.0	11.1	3.45	.85	1.00	1.00
67°F (19°C)	1355	640	44.0	12.9	2.41	.61	.75	.89	42.5	12.5	2.71	.61	.76	.90	41.0	12.0	3.06	.62	.77	.92	39.5	11.6	3.46	.63	.79	.94
	1520	715	45.0	13.2	2.42	.62	.78	.92	43.5	12.7	2.72	.63	.79	.94	42.0	12.3	3.06	.64	.80	.96	40.0	11.7	3.46	.65	.82	.98
71°F (22°C)	1355	640	46.5	13.6	2.44	.46	.59	.73	45.0	13.2	2.73	.46	.60	.74	43.0	12.6	3.07	.46	.61	.75	41.5	12.2	3.46	.47	.62	.77
	1520	715	47.0	13.8	2.44	.47	.61	.75	45.5	13.3	2.74	.47	.62	.77	44.0	12.9	3.08	.47	.63	.78	42.5	12.5	3.47	.48	.64	.80

HEATING CAPACITY - 13HPD-042 with [CH23-41 + G60UHV-60C-110]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1295	610	48.8	14.3	3.75	38.2	11.2	3.22	27.0	7.9	2.63	19.8	5.8	2.43	10.0	2.9	1.82
1395	660	49.1	14.4	3.68	38.5	11.3	3.15	27.4	8.0	2.56	20.2	5.9	2.36	10.3	3.0	1.75
1600	755	49.4	14.5	3.59	38.9	11.4	3.06	27.7	8.1	2.47	20.5	6.0	2.27	10.6	3.1	1.66

HEATING CAPACITY - 13HPD-042 with [CH23-51 + G60UHV-60C-090]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1355	640	49.1	14.4	3.57	38.5	11.3	3.08	27.3	8.0	2.52	20.0	5.9	2.33	10.2	3.0	1.72
1520	715	49.5	14.5	3.50	38.9	11.4	3.00	27.7	8.1	2.44	20.4	6.0	2.25	10.6	3.1	1.65

HEATING PERFORMANCE at 1395 cfm (660 L/s) Indoor Coil Air Volume 13HPD-042 with [CH23-41 + G60UHV-60C-110]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.68	49.1	14.4
60	16	3.57	46.7	13.7
55	13	3.47	44.3	13.0
50	10	3.36	41.9	12.3
47	8	3.30	40.4	11.8
45	7	3.15	38.5	11.3
40	4	2.80	33.8	9.9
35	2	2.44	29.1	8.5
30	-1	2.50	28.2	8.3
25	-4	2.56	27.4	8.0
20	-7	2.62	26.5	7.8
17	-8	2.66	26.0	7.6
15	-9	2.62	25.0	7.3
10	-12	2.51	22.6	6.6
5	-15	2.36	20.2	5.9
0	-18	2.21	17.7	5.2
-5	-21	2.05	15.2	4.5
-10	-23	1.90	12.7	3.7
-15	-26	1.75	10.3	3.0
-20	-29	1.60	7.8	2.3

HEATING PERFORMANCE at 1355 cfm (640 L/s) Indoor Coil Air Volume 13HPD-042 with [CH23-51 + G60UHV-60C-090]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.57	49.1	14.4
60	16	3.47	46.7	13.7
55	13	3.37	44.3	13.0
50	10	3.27	41.9	12.3
47	8	3.21	40.4	11.8
45	7	3.08	38.5	11.3
40	4	2.74	33.8	9.9
35	2	2.40	29.0	8.5
30	-1	2.46	28.2	8.3
25	-4	2.52	27.3	8.0
20	-7	2.58	26.4	7.7
17	-8	2.62	25.9	7.6
15	-9	2.58	24.9	7.3
10	-12	2.48	22.5	6.6
5	-15	2.33	20.0	5.9
0	-18	2.17	17.6	5.2
-5	-21	2.02	15.1	4.4
-10	-23	1.87	12.7	3.7
-15	-26	1.72	10.2	3.0
-20	-29	1.57	7.8	2.3

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HORIZONTAL INDOOR COILS WITH GAS FURNACES

COOLING CAPACITY - 13HPD-042 with [CH23-51 + G60UHV-60C-110]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1295	610	41.5	12.2	2.40	.76	.91	1.00	40.0	11.7	2.70	.77	.92	1.00	38.5	11.3	3.05	.79	.94	1.00	36.6	10.7	3.46	.81	.96	1.00
	1395	660	42.0	12.3	2.40	.78	.93	1.00	40.5	11.9	2.71	.79	.95	1.00	39.0	11.4	3.06	.81	.96	1.00	37.2	10.9	3.46	.82	.98	1.00
	1600	755	43.0	12.6	2.41	.81	.97	1.00	41.5	12.2	2.71	.82	.98	1.00	40.0	11.7	3.06	.84	.99	1.00	38.5	11.3	3.46	.86	1.00	1.00
67°F (19°C)	1295	610	43.5	12.7	2.41	.60	.74	.87	42.0	12.3	2.71	.61	.75	.89	40.5	11.9	3.06	.61	.76	.91	39.0	11.4	3.46	.63	.78	.93
	1395	660	44.0	12.9	2.42	.61	.76	.90	43.0	12.6	2.71	.62	.77	.91	41.5	12.2	3.06	.63	.78	.93	39.5	11.6	3.46	.64	.80	.95
	1600	755	45.0	13.2	2.43	.63	.79	.94	43.5	12.7	2.72	.64	.80	.96	42.0	12.3	3.07	.65	.82	.97	40.5	11.9	3.46	.66	.84	.99
71°F (22°C)	1295	610	46.0	13.5	2.43	.46	.59	.71	44.5	13.0	2.73	.46	.59	.73	43.0	12.6	3.06	.46	.60	.74	41.0	12.0	3.46	.46	.61	.76
	1395	660	46.5	13.6	2.44	.46	.60	.73	45.0	13.2	2.73	.47	.61	.75	43.5	12.7	3.07	.46	.62	.76	42.0	12.3	3.46	.47	.62	.78
	1600	755	47.5	13.9	2.45	.46	.62	.77	46.0	13.5	2.74	.47	.63	.78	44.5	13.0	3.08	.48	.64	.79	42.5	12.5	3.47	.48	.65	.82

COOLING CAPACITY - 13HPD-042 with [CH23-51 + G61MPV-36C-090] [CH23-51 + G71MPP-36C-090]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1185	560	40.5	11.9	2.39	.75	.88	.99	39.0	11.4	2.69	.75	.90	1.00	37.6	11.0	3.05	.77	.92	1.00	36.0	10.6	3.46	.78	.94	1.00
	1395	660	42.0	12.3	2.40	.78	.93	1.00	40.5	11.9	2.71	.79	.95	1.00	39.0	11.4	3.06	.81	.96	1.00	37.2	10.9	3.46	.82	.98	1.00
67°F (19°C)	1185	560	43.0	12.6	2.41	.59	.72	.85	41.5	12.2	2.71	.60	.73	.86	40.0	11.7	3.05	.60	.74	.88	38.5	11.3	3.46	.61	.76	.90
	1395	660	44.0	12.9	2.42	.61	.76	.90	43.0	12.6	2.71	.62	.77	.91	41.0	12.0	3.06	.63	.78	.93	39.5	11.6	3.46	.64	.80	.95
71°F (22°C)	1185	560	45.0	13.2	2.43	.46	.58	.70	43.5	12.7	2.72	.46	.58	.71	42.0	12.3	3.06	.46	.59	.72	40.5	11.9	3.45	.46	.60	.73
	1395	660	46.5	13.6	2.44	.46	.60	.73	45.0	13.2	2.73	.46	.61	.75	43.5	12.7	3.07	.47	.62	.76	41.5	12.2	3.46	.47	.62	.78

HEATING CAPACITY - 13HPD-042 with [CH23-51 + G60UHV-60C-110]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil													
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1295	610	48.9	14.3	3.60	38.3	11.2	3.12	27.1	7.9	2.58	19.8	5.8	2.39	10.0	2.9	1.79
1395	660	49.3	14.4	3.53	38.7	11.3	3.05	27.4	8.0	2.51	20.2	5.9	2.32	10.3	3.0	1.72
1600	755	49.6	14.5	3.46	39.0	11.4	2.98	27.8	8.1	2.43	20.5	6.0	2.24	10.6	3.1	1.64

HEATING CAPACITY - 13HPD-042 with [CH23-51 + G61MPV-36C-090] [CH23-51 + G71MPP-36C-090]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil													
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1185	560	49.0	14.4	3.68	38.3	11.2	3.20	27.1	7.9	2.66	19.8	5.8	2.47	9.9	2.9	1.86
1395	660	49.5	14.5	3.53	38.9	11.4	3.05	27.6	8.1	2.51	20.4	6.0	2.32	10.4	3.0	1.72

HEATING PERFORMANCE at 1395 cfm (660 L/s) Indoor Coil Air Volume 13HPD-042 with [CH23-51 + G60UHV-60C-110]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.53	49.3	14.4
60	16	3.44	46.8	13.7
55	13	3.34	44.4	13.0
50	10	3.24	42.0	12.3
47	8	3.19	40.5	11.9
45	7	3.05	38.7	11.3
40	4	2.72	33.9	9.9
35	2	2.39	29.2	8.6
30	-1	2.45	28.3	8.3
25	-4	2.51	27.4	8.0
20	-7	2.57	26.6	7.8
17	-8	2.61	26.0	7.6
15	-9	2.57	25.1	7.4
10	-12	2.47	22.6	6.6
5	-15	2.32	20.2	5.9
0	-18	2.17	17.7	5.2
-5	-21	2.02	15.2	4.5
-10	-23	1.87	12.8	3.8
-15	-26	1.72	10.3	3.0
-20	-29	1.56	7.8	2.3

HEATING PERFORMANCE at 1395 cfm (660 L/s) Indoor Coil Air Volume 13HPD-042 with [CH23-51 + G61MPV-36C-090] [CH23-51 + G71MPP-36C-090]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.53	49.5	14.5
60	16	3.44	47.0	13.8
55	13	3.34	44.6	13.1
50	10	3.24	42.2	12.4
47	8	3.19	40.8	12.0
45	7	3.05	38.9	11.4
40	4	2.72	34.1	10.0
35	2	2.39	29.4	8.6
30	-1	2.45	28.5	8.4
25	-4	2.51	27.6	8.1
20	-7	2.57	26.8	7.9
17	-8	2.61	26.2	7.7
15	-9	2.57	25.3	7.4
10	-12	2.47	22.8	6.7
5	-15	2.32	20.4	6.0
0	-18	2.17	17.9	5.2
-5	-21	2.02	15.4	4.5
-10	-23	1.87	12.9	3.8
-15	-26	1.72	10.4	3.0
-20	-29	1.56	7.9	2.3

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HORIZONTAL INDOOR COILS WITH GAS FURNACES

COOLING CAPACITY - 13HPD-042 with [CH23-51 + G61MPV-60C-090] [CH23-51 + G71MPP-60C-090]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1275	600	41.0	12.0	2.40	.76	.90	1.00	39.5	11.6	2.70	.77	.92	1.00	38.5	11.3	3.06	.78	.94	1.00	36.6	10.7	3.46	.80	.96	1.00
	1380	650	42.0	12.3	2.40	.78	.93	1.00	40.5	11.9	2.70	.79	.94	1.00	39.0	11.4	3.05	.80	.96	1.00	37.2	10.9	3.46	.82	.98	1.00
	1560	735	42.5	12.5	2.41	.80	.96	1.00	41.5	12.2	2.71	.82	.97	1.00	40.0	11.7	3.06	.83	.99	1.00	38.5	11.3	3.45	.86	1.00	1.00
67°F (19°C)	1275	600	43.5	12.7	2.41	.60	.74	.87	42.0	12.3	2.71	.61	.75	.88	40.5	11.9	3.06	.61	.76	.90	39.0	11.4	3.45	.62	.78	.93
	1380	650	44.0	12.9	2.42	.61	.75	.89	42.5	12.5	2.71	.62	.77	.91	41.0	12.0	3.06	.62	.78	.93	39.5	11.6	3.46	.64	.80	.95
	1560	735	45.0	13.2	2.43	.63	.78	.93	43.5	12.7	2.72	.64	.79	.95	42.0	12.3	3.07	.64	.81	.97	40.0	11.7	3.45	.65	.83	.99
71°F (22°C)	1275	600	46.0	13.5	2.43	.46	.59	.71	44.5	13.0	2.73	.46	.59	.72	43.0	12.6	3.07	.46	.60	.73	41.0	12.0	3.46	.46	.61	.75
	1380	650	46.5	13.6	2.44	.46	.60	.73	45.0	13.2	2.73	.46	.61	.74	43.5	12.7	3.07	.46	.61	.76	41.5	12.2	3.46	.47	.62	.77
	1560	735	47.5	13.9	2.45	.47	.61	.76	46.0	13.5	2.74	.47	.62	.77	44.0	12.9	3.08	.48	.63	.79	42.5	12.5	3.47	.48	.64	.81

COOLING CAPACITY - 13HPD-042 with [CH23-51 + G61MPV-60C-110] [CH23-51 + G71MPP-60C-110]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1290	610	41.5	12.2	2.40	.76	.91	1.00	40.0	11.7	2.70	.77	.92	1.00	38.5	11.3	3.06	.78	.94	1.00	36.6	10.7	3.46	.80	.96	1.00
	1405	665	42.0	12.3	2.40	.78	.93	1.00	40.5	11.9	2.71	.79	.95	1.00	39.0	11.4	3.06	.81	.97	1.00	37.2	10.9	3.46	.83	.99	1.00
	1605	760	43.0	12.6	2.41	.81	.97	1.00	41.5	12.2	2.71	.82	.98	1.00	40.0	11.7	3.06	.84	1.00	1.00	38.5	11.3	3.46	.87	1.00	1.00
67°F (19°C)	1290	610	43.5	12.7	2.41	.60	.74	.87	42.0	12.3	2.71	.61	.75	.89	40.5	11.9	3.06	.61	.76	.91	39.0	11.4	3.46	.63	.78	.93
	1405	665	44.5	13.0	2.42	.61	.76	.90	43.0	12.6	2.71	.62	.77	.92	41.5	12.2	3.06	.63	.78	.93	39.5	11.6	3.46	.64	.80	.96
	1605	760	45.0	13.2	2.43	.63	.79	.94	43.5	12.7	2.72	.64	.80	.96	42.0	12.3	3.07	.65	.82	.98	40.5	11.9	3.46	.66	.84	.99
71°F (22°C)	1290	610	46.0	13.5	2.43	.46	.59	.71	44.5	13.0	2.73	.46	.59	.73	43.0	12.6	3.06	.46	.60	.74	41.0	12.0	3.46	.46	.61	.75
	1405	665	46.5	13.6	2.44	.46	.60	.73	45.0	13.2	2.73	.47	.61	.75	43.5	12.7	3.07	.46	.62	.76	42.0	12.3	3.46	.47	.62	.78
	1605	760	47.5	13.9	2.45	.46	.62	.77	46.0	13.5	2.74	.47	.63	.78	44.5	13.0	3.08	.48	.64	.79	42.5	12.5	3.47	.48	.65	.81

HEATING CAPACITY - 13HPD-042 with [CH23-51 + G61MPV-60C-090] [CH23-51 + G71MPP-60C-090]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1275	600	49.1	14.4	3.62	38.5	11.3	3.14	27.3	8.0	2.59	20.0	5.9	2.40	10.1	3.0	1.79
1380	650	49.3	14.4	3.55	38.7	11.3	3.06	27.5	8.1	2.51	20.2	5.9	2.32	10.3	3.0	1.72
1560	735	49.8	14.6	3.47	39.2	11.5	2.99	28.0	8.2	2.44	20.7	6.1	2.25	10.8	3.2	1.65

HEATING CAPACITY - 13HPD-042 with [CH23-51 + G61MPV-60C-110] [CH23-51 + G71MPP-60C-110]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1290	610	49.1	14.4	3.60	38.5	11.3	3.13	27.3	8.0	2.58	20.0	5.9	2.40	10.1	3.0	1.79
1405	660	49.3	14.4	3.53	38.7	11.3	3.05	27.5	8.1	2.51	20.2	5.9	2.32	10.3	3.0	1.71
1605	760	49.8	14.6	3.45	39.2	11.5	2.97	28.0	8.2	2.43	20.7	6.1	2.24	10.8	3.2	1.64

HEATING PERFORMANCE at 1380 cfm (650 L/s) Indoor Coil Air Volume 13HPD-042 with [CH23-51 + G61MPV-60C-090] [CH23-51 + G71MPP-60C-090]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.55	49.3	14.4
60	16	3.45	46.9	13.7
55	13	3.35	44.5	13.0
50	10	3.25	42.1	12.3
47	8	3.19	40.6	11.9
45	7	3.06	38.7	11.3
40	4	2.73	34.0	10.0
35	2	2.39	29.2	8.6
30	-1	2.45	28.4	8.3
25	-4	2.51	27.5	8.1
20	-7	2.57	26.6	7.8
17	-8	2.61	26.1	7.6
15	-9	2.57	25.1	7.4
10	-12	2.47	22.7	6.7
5	-15	2.32	20.2	5.9
0	-18	2.17	17.8	5.2
-5	-21	2.02	15.3	4.5
-10	-23	1.87	12.8	3.8
-15	-26	1.72	10.3	3.0
-20	-29	1.57	7.8	2.3

HEATING PERFORMANCE at 1405 cfm (665 L/s) Indoor Coil Air Volume 13HPD-042 with [CH23-51 + G61MPV-60C-110] [CH23-51 + G71MPP-60C-110]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.53	49.3	14.4
60	16	3.43	46.9	13.7
55	13	3.34	44.5	13.0
50	10	3.24	42.1	12.3
47	8	3.18	40.6	11.9
45	7	3.05	38.7	11.3
40	4	2.72	34.0	10.0
35	2	2.38	29.2	8.6
30	-1	2.44	28.4	8.3
25	-4	2.51	27.5	8.1
20	-7	2.57	26.6	7.8
17	-8	2.60	26.1	7.6
15	-9	2.57	25.1	7.4
10	-12	2.47	22.7	6.7
5	-15	2.32	20.2	5.9
0	-18	2.17	17.7	5.2
-5	-21	2.02	15.3	4.5
-10	-23	1.87	12.8	3.8
-15	-26	1.71	10.3	3.0
-20	-29	1.56	7.8	2.3

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HORIZONTAL INDOOR COILS WITH GAS FURNACES

COOLING CAPACITY - 13HPD-042 with [CH23-65 + G60UHV-60D-135]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1275	600	41.5	12.2	2.40	.76	.91	1.00	40.0	11.7	2.70	.77	.92	1.00	38.5	11.3	3.05	.79	.94	1.00	37.0	10.8	3.45	.80	.96	1.00
	1430	675	42.5	12.5	2.40	.79	.94	1.00	41.0	12.0	2.71	.80	.96	1.00	39.5	11.6	3.05	.81	.98	1.00	37.8	11.1	3.45	.83	.99	1.00
	1575	745	43.5	12.7	2.41	.81	.97	1.00	42.0	12.3	2.71	.82	.98	1.00	40.5	11.9	3.06	.84	1.00	1.00	39.0	11.4	3.45	.86	1.00	1.00
67°F (19°C)	1275	600	44.0	12.9	2.42	.60	.74	.87	42.5	12.5	2.71	.61	.75	.89	41.0	12.0	3.06	.61	.76	.91	39.0	11.4	3.46	.63	.78	.93
	1430	675	45.0	13.2	2.42	.62	.76	.91	43.5	12.7	2.72	.62	.78	.93	42.0	12.3	3.07	.63	.79	.95	40.0	11.7	3.46	.64	.81	.97
	1575	745	45.5	13.3	2.43	.63	.79	.94	44.0	12.9	2.72	.64	.80	.96	42.5	12.5	3.07	.65	.82	.98	40.5	11.9	3.46	.66	.84	.99
71°F (22°C)	1275	600	46.5	13.6	2.44	.46	.59	.72	45.0	13.2	2.73	.46	.59	.73	43.0	12.6	3.07	.46	.60	.74	41.5	12.2	3.46	.46	.61	.76
	1430	675	47.5	13.9	2.45	.46	.60	.74	46.0	13.5	2.74	.47	.61	.76	44.0	12.9	3.08	.47	.62	.77	42.5	12.5	3.47	.47	.63	.78
	1575	745	48.0	14.1	2.45	.47	.62	.77	46.5	13.6	2.74	.47	.63	.78	45.0	13.2	3.08	.48	.64	.80	43.0	12.6	3.46	.48	.65	.82

COOLING CAPACITY - 13HPD-042 with [CH23-65 + G61MPV-60D-135] [CH23-65 + G71MPP-60D-135]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1305	615	42.0	12.3	2.40	.77	.91	1.00	40.5	11.9	2.70	.78	.93	1.00	39.0	11.4	3.05	.79	.95	1.00	37.0	10.8	3.45	.81	.97	1.00
	1400	660	42.5	12.5	2.40	.78	.94	1.00	41.0	12.0	2.70	.80	.95	1.00	39.5	11.6	3.06	.81	.97	1.00	37.6	11.0	3.45	.83	.99	1.00
	1600	755	43.5	12.7	2.41	.81	.97	1.00	42.0	12.3	2.71	.83	.99	1.00	40.5	11.9	3.06	.85	1.00	1.00	39.0	11.4	3.45	.87	1.00	1.00
67°F (19°C)	1305	615	44.0	12.9	2.42	.61	.74	.88	43.0	12.6	2.71	.61	.76	.90	41.0	12.0	3.06	.62	.77	.92	39.5	11.6	3.46	.63	.79	.94
	1400	660	45.0	13.2	2.42	.61	.76	.90	43.5	12.7	2.72	.62	.77	.92	41.5	12.2	3.06	.63	.79	.94	40.0	11.7	3.45	.64	.81	.96
	1600	755	46.0	13.5	2.43	.63	.79	.95	44.5	13.0	2.73	.64	.81	.96	42.5	12.5	3.07	.65	.82	.98	41.0	12.0	3.46	.66	.85	.99
71°F (22°C)	1305	615	46.5	13.6	2.44	.46	.59	.72	45.0	13.2	2.73	.46	.60	.73	43.5	12.7	3.07	.46	.60	.75	41.5	12.2	3.46	.46	.61	.76
	1400	660	47.0	13.8	2.44	.46	.60	.74	45.5	13.3	2.73	.47	.61	.75	44.0	12.9	3.08	.46	.62	.76	42.0	12.3	3.47	.47	.63	.78
	1600	755	48.0	14.1	2.45	.47	.62	.77	46.5	13.6	2.74	.47	.63	.78	45.0	13.2	3.08	.48	.64	.80	43.0	12.6	3.47	.48	.65	.82

HEATING CAPACITY - 13HPD-042 with [CH23-65 + G60UHV-60D-135]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1275	600	49.2	14.4	3.47	38.5	11.3	3.02	27.2	8.0	2.52	19.8	5.8	2.35
1430	675	49.5	14.5	3.40	38.8	11.4	2.95	27.5	8.1	2.44	20.1	5.9	2.28
1575	745	49.8	14.6	3.34	39.1	11.5	2.89	27.8	8.1	2.39	20.4	6.0	2.22

Indoor Coil Air Volume 70°F db (21°C db)		-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW	
1275	600	10.0	2.9	1.75
1430	675	10.3	3.0	1.68
1575	745	10.6	3.1	1.62

HEATING CAPACITY - 13HPD-042 with [CH23-65 + G61MPV-60D-135] [CH23-65 + G71MPP-60D-135]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1305	615	49.4	14.5	3.46	38.7	11.3	3.01	27.4	8.0	2.50	20.0	5.9	2.33
1400	660	49.5	14.5	3.41	38.8	11.4	2.96	27.5	8.1	2.45	20.2	5.9	2.28
1600	755	50.0	14.7	3.33	39.3	11.5	2.88	28.0	8.2	2.37	20.6	6.0	2.20

Indoor Coil Air Volume 70°F db (21°C db)		-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW	
1305	615	10.1	3.0	1.73
1400	660	10.3	3.0	1.68
1600	755	10.7	3.1	1.60

HEATING PERFORMANCE at 1430 cfm (675 L/s) Indoor Coil Air Volume 13HPD-042 with [CH23-65 + G60UHV-60D-135]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.40	49.5	14.5
60	16	3.31	47.0	13.8
55	13	3.22	44.6	13.1
50	10	3.13	42.2	12.4
47	8	3.08	40.7	11.9
45	7	2.95	38.8	11.4
40	4	2.63	34.0	10.0
35	2	2.31	29.3	8.6
30	-1	2.38	28.4	8.3
25	-4	2.44	27.5	8.1
20	-7	2.51	26.6	7.8
17	-8	2.55	26.0	7.6
15	-9	2.51	25.0	7.3
10	-12	2.42	22.6	6.6
5	-15	2.28	20.1	5.9
0	-18	2.13	17.7	5.2
-5	-21	1.98	15.2	4.5
-10	-23	1.83	12.7	3.7
-15	-26	1.68	10.3	3.0
-20	-29	1.53	7.8	2.3

HEATING PERFORMANCE at 1400 cfm (660 L/s) Indoor Coil Air Volume 13HPD-042 with [CH23-65 + G61MPV-60D-135] [CH23-65 + G71MPP-60D-135]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.41	49.5	14.5
60	16	3.32	47.1	13.8
55	13	3.23	44.6	13.1
50	10	3.15	42.2	12.4
47	8	3.09	40.7	11.9
45	7	2.96	38.8	11.4
40	4	2.64	34.1	10.0
35	2	2.32	29.3	8.6
30	-1	2.39	28.4	8.3
25	-4	2.45	27.5	8.1
20	-7	2.52	26.6	7.8
17	-8	2.55	26.1	7.6
15	-9	2.52	25.1	7.4
10	-12	2.43	22.7	6.7
5	-15	2.28	20.2	5.9
0	-18	2.13	17.7	5.2
-5	-21	1.98	15.2	4.5
-10	-23	1.83	12.8	3.8
-15	-26	1.68	10.3	3.0
-20	-29	1.53	7.8	2.3

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

AIR HANDLERS

COOLING CAPACITY - 13HPD-048 with [CB26UH-048]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F	1400	660	50.0	14.7	3.21	.75	.87	.99	48.5	14.2	3.58	.76	.89	1.00	46.5	13.6	4.01	.77	.90	1.00	44.5	13.0	4.52	.78	.92	1.00
(17°C)	1600	755	51.5	15.1	3.22	.77	.91	1.00	50.0	14.7	3.59	.78	.93	1.00	48.0	14.1	4.03	.80	.95	1.00	46.0	13.5	4.53	.81	.97	1.00
67°F	1400	660	52.5	15.4	3.24	.60	.72	.84	51.0	14.9	3.61	.61	.73	.85	49.0	14.4	4.04	.61	.74	.87	47.0	13.8	4.55	.62	.76	.89
(19°C)	1600	755	54.0	15.8	3.26	.62	.75	.88	52.5	15.4	3.63	.62	.76	.90	50.5	14.8	4.06	.63	.78	.91	48.0	14.1	4.56	.64	.79	.94
71°F	1400	660	55.5	16.3	3.28	.47	.58	.70	53.5	15.7	3.65	.47	.59	.71	51.5	15.1	4.08	.47	.60	.73	49.5	14.5	4.58	.47	.61	.73
(22°C)	1600	755	57.0	16.7	3.31	.47	.61	.73	55.0	16.1	3.67	.48	.61	.74	53.0	15.5	4.10	.48	.62	.75	51.0	14.9	4.59	.48	.63	.77

COOLING CAPACITY - 13HPD-048 with [CB27UH-048]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F	1400	660	48.5	14.2	3.18	.74	.87	.99	47.0	13.8	3.56	.75	.89	1.00	45.0	13.2	4.00	.76	.90	1.00	43.0	12.6	4.51	.77	.92	1.00
(17°C)	1600	755	50.0	14.7	3.20	.77	.91	1.00	48.0	14.1	3.57	.78	.93	1.00	46.5	13.6	4.01	.79	.95	1.00	44.5	13.0	4.52	.81	.97	1.00
67°F	1400	660	51.0	14.9	3.22	.59	.72	.84	49.5	14.5	3.59	.59	.72	.85	47.5	13.9	4.03	.60	.74	.87	45.5	13.3	4.54	.61	.75	.89
(19°C)	1600	755	52.5	15.4	3.24	.60	.74	.88	50.5	14.8	3.61	.61	.75	.90	49.0	14.4	4.04	.62	.77	.92	47.0	13.8	4.55	.63	.79	.94
71°F	1400	660	53.5	15.7	3.26	.45	.57	.69	52.0	15.2	3.63	.45	.58	.70	50.0	14.7	4.06	.45	.59	.71	48.0	14.1	4.56	.46	.60	.73
(22°C)	1600	755	55.0	16.1	3.28	.46	.59	.72	53.5	15.7	3.65	.46	.60	.73	51.0	14.9	4.07	.46	.61	.75	49.0	14.4	4.57	.46	.62	.76

HEATING CAPACITY - 13HPD-048 with [CB26UH-048]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1400	660	57.1	16.7	3.38	44.5	13.0	3.27	30.9	9.1	3.13	24.1	7.1	3.00	12.1	3.5	2.19
1600	755	57.3	16.8	3.25	44.8	13.1	3.13	31.1	9.1	2.99	24.3	7.1	2.86	12.3	3.6	2.05

HEATING CAPACITY - 13HPD-048 with [CB27UH-048]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1400	660	57.1	16.7	3.16	44.1	12.9	2.96	30.0	8.8	2.73	22.9	6.7	2.53	11.5	3.4	1.87
1600	755	57.6	16.9	3.05	44.6	13.1	2.85	30.6	9.0	2.62	23.4	6.9	2.42	12.0	3.5	1.76

HEATING PERFORMANCE at 1600 cfm (755 L/s) Indoor Coil Air Volume 13HPD-048 with [CB26UH-048]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.25	57.3	16.8
60	16	3.23	54.6	16.0
55	13	3.21	51.9	15.2
50	10	3.20	49.2	14.4
47	8	3.19	47.5	13.9
45	7	3.13	44.8	13.1
40	4	3.00	37.9	11.1
35	2	2.87	31.1	9.1
30	-1	2.93	31.1	9.1
25	-4	2.99	31.1	9.1
20	-7	3.05	31.2	9.1
17	-8	3.08	31.2	9.1
15	-9	3.08	30.1	8.8
10	-12	3.06	27.4	8.0
5	-15	2.86	24.4	7.2
0	-18	2.66	21.4	6.3
-5	-21	2.46	18.4	5.4
-10	-23	2.25	15.4	4.5
-15	-26	2.05	12.4	3.6
-20	-29	1.85	9.4	2.8

HEATING PERFORMANCE at 1600 cfm (755 L/s) Indoor Coil Air Volume 13HPD-048 with [CB27UH-048]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.05	57.5	16.9
60	16	3.01	54.7	16.0
55	13	2.96	51.8	15.2
50	10	2.92	49.0	14.4
47	8	2.90	47.3	13.9
45	7	2.85	44.5	13.0
40	4	2.71	37.7	11.0
35	2	2.58	30.9	9.1
30	-1	2.60	30.7	9.0
25	-4	2.62	30.5	8.9
20	-7	2.64	30.3	8.9
17	-8	2.65	30.2	8.9
15	-9	2.63	29.1	8.5
10	-12	2.59	26.2	7.7
5	-15	2.42	23.4	6.9
0	-18	2.26	20.5	6.0
-5	-21	2.09	17.6	5.2
-10	-23	1.92	14.8	4.3
-15	-26	1.76	11.9	3.5
-20	-29	1.59	9.1	2.7

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

AIR HANDLERS

COOLING CAPACITY - 13HPD-048 with [CB27UH-060]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F	1260	595	46.5	13.6	3.16	.71	.83	.93	45.0	13.2	3.54	.72	.84	.95	43.5	12.7	3.99	.73	.85	.97	41.5	12.2	4.50	.74	.87	.98
(17°C)	1600	755	49.0	14.4	3.19	.75	.88	.99	47.5	13.9	3.57	.76	.90	1.00	45.5	13.3	4.01	.77	.92	1.00	44.0	12.9	4.52	.79	.94	1.00
67°F	1260	595	49.0	14.4	3.19	.58	.69	.80	47.5	13.9	3.57	.58	.70	.81	45.5	13.3	4.01	.59	.71	.82	44.0	12.9	4.52	.60	.72	.84
(19°C)	1600	755	51.5	15.1	3.23	.60	.73	.85	50.0	14.7	3.60	.61	.74	.87	48.0	14.1	4.03	.62	.75	.89	46.0	13.5	4.54	.62	.77	.91
71°F	1260	595	51.0	14.9	3.22	.45	.57	.67	49.5	14.5	3.59	.45	.57	.68	48.0	14.1	4.03	.45	.58	.69	46.0	13.5	4.54	.46	.58	.70
(22°C)	1600	755	54.0	15.8	3.26	.46	.59	.71	52.5	15.4	3.63	.46	.60	.72	50.5	14.8	4.06	.46	.60	.73	48.5	14.2	4.56	.46	.61	.75

COOLING CAPACITY - 13HPD-048 with [CB30M-51]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F	1400	660	49.0	14.4	3.19	.75	.88	1.00	47.0	13.8	3.56	.76	.90	1.00	45.5	13.3	4.00	.77	.92	1.00	43.5	12.7	4.52	.79	.94	1.00
(17°C)	1600	755	50.0	14.7	3.20	.78	.92	1.00	48.5	14.2	3.58	.79	.94	1.00	46.5	13.6	4.02	.81	.96	1.00	44.5	13.0	4.53	.82	.98	1.00
67°F	1400	660	51.5	15.1	3.22	.60	.73	.85	50.0	14.7	3.60	.61	.74	.87	48.0	14.1	4.03	.61	.75	.88	46.0	13.5	4.54	.62	.76	.90
(19°C)	1600	755	53.0	15.5	3.24	.62	.76	.89	51.0	14.9	3.61	.63	.77	.91	49.0	14.4	4.04	.63	.78	.93	47.0	13.8	4.55	.64	.80	.95
71°F	1400	660	54.0	15.8	3.26	.46	.59	.70	52.0	15.2	3.63	.47	.59	.71	50.5	14.8	4.06	.47	.60	.73	48.5	14.2	4.56	.47	.61	.74
(22°C)	1600	755	55.5	16.3	3.28	.47	.61	.74	53.5	15.7	3.65	.47	.61	.75	51.5	15.1	4.08	.48	.62	.76	49.5	14.5	4.58	.48	.63	.78

HEATING CAPACITY - 13HPD-048 with [CB27UH-060]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1260	595	56.7	16.6	3.27	43.7	12.8	3.07	29.7	8.7	2.85	22.5	6.6	2.65	11.1	3.3	1.98
1600	755	57.5	16.9	3.04	44.5	13.0	2.85	30.5	8.9	2.62	23.3	6.8	2.43	11.9	3.5	1.76

HEATING CAPACITY - 13HPD-048 with [CB30M-51]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1400	660	57.2	16.8	3.12	44.5	13.0	2.99	30.6	9.0	2.83	23.7	6.9	2.71	11.9	3.5	1.98
1600	755	57.6	16.9	3.01	44.8	13.1	2.88	31.0	9.1	2.72	24.1	7.1	2.59	12.2	3.6	1.87

HEATING PERFORMANCE at 1600 cfm (755 L/s) Indoor Coil Air Volume 13HPD-048 with [CB27UH-060]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.04	57.5	16.9
60	16	3.00	54.7	16.0
55	13	2.96	51.8	15.2
50	10	2.92	49.0	14.4
47	8	2.90	47.3	13.9
45	7	2.85	44.5	13.0
40	4	2.71	37.7	11.0
35	2	2.58	30.9	9.1
30	-1	2.60	30.7	9.0
25	-4	2.62	30.5	8.9
20	-7	2.64	30.3	8.9
17	-8	2.66	30.2	8.9
15	-9	2.64	29.0	8.5
10	-12	2.60	26.2	7.7
5	-15	2.43	23.3	6.8
0	-18	2.26	20.5	6.0
-5	-21	2.10	17.6	5.2
-10	-23	1.93	14.8	4.3
-15	-26	1.76	11.9	3.5
-20	-29	1.59	9.1	2.7

HEATING PERFORMANCE at 1600 cfm (755 L/s) Indoor Coil Air Volume 13HPD-048 with [CB30M-51]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.01	57.6	16.9
60	16	2.99	54.8	16.1
55	13	2.97	52.0	15.2
50	10	2.94	49.2	14.4
47	8	2.93	47.6	14.0
45	7	2.88	44.8	13.1
40	4	2.75	38.0	11.1
35	2	2.61	31.1	9.1
30	-1	2.67	31.0	9.1
25	-4	2.72	31.0	9.1
20	-7	2.77	31.0	9.1
17	-8	2.80	30.9	9.1
15	-9	2.80	29.8	8.7
10	-12	2.77	27.0	7.9
5	-15	2.59	24.1	7.1
0	-18	2.41	21.1	6.2
-5	-21	2.23	18.2	5.3
-10	-23	2.05	15.2	4.5
-15	-26	1.87	12.2	3.6
-20	-29	1.68	9.3	2.7

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

AIR HANDLERS

COOLING CAPACITY - 13HPD-048 with [CBX32MV-048] [CBX40UHV-048]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1425	675	49.0	14.4	3.19	.75	.89	1.00	47.5	13.9	3.56	.76	.90	1.00	45.5	13.3	4.00	.78	.92	1.00	43.5	12.7	4.52	.79	.94	1.00
	1625	765	50.0	14.7	3.20	.78	.93	1.00	48.5	14.2	3.58	.79	.94	1.00	46.5	13.6	4.02	.81	.96	1.00	44.5	13.0	4.53	.82	.98	1.00
	1820	860	51.5	15.1	3.22	.81	.97	1.00	49.5	14.5	3.60	.83	.98	1.00	48.0	14.1	4.03	.84	.99	1.00	46.0	13.5	4.53	.86	1.00	1.00
67°F (19°C)	1425	675	51.5	15.1	3.23	.60	.73	.86	50.0	14.7	3.60	.61	.74	.87	48.0	14.1	4.03	.62	.75	.89	46.0	13.5	4.54	.62	.77	.91
	1625	765	53.0	15.5	3.25	.62	.76	.90	51.0	14.9	3.61	.62	.77	.91	49.0	14.4	4.04	.63	.78	.93	47.0	13.8	4.55	.64	.80	.95
	1820	860	54.0	15.8	3.26	.64	.79	.94	52.0	15.2	3.63	.65	.81	.96	50.5	14.8	4.06	.66	.82	.97	48.0	14.1	4.56	.67	.84	.99
71°F (22°C)	1425	675	54.0	15.8	3.27	.46	.59	.71	52.5	15.4	3.63	.46	.59	.72	50.5	14.8	4.06	.47	.60	.73	48.5	14.2	4.56	.47	.61	.74
	1625	765	55.5	16.3	3.28	.47	.60	.74	53.5	15.7	3.65	.47	.61	.75	51.5	15.1	4.08	.47	.62	.76	49.5	14.5	4.58	.48	.63	.78
	1820	860	56.5	16.6	3.30	.48	.63	.77	55.0	16.1	3.67	.49	.64	.78	53.0	15.5	4.10	.49	.65	.80	50.5	14.8	4.59	.50	.66	.82

HEATING CAPACITY - 13HPD-048 with [CBX32MV-048] [CBX40UHV-048]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1425	675	57.1	16.7	3.10	44.3	13.0	2.97	30.6	9.0	2.82	23.6	6.9	2.69	12.0	3.5	1.97
1625	765	57.2	16.8	2.98	44.4	13.0	2.86	30.6	9.0	2.70	23.7	6.9	2.58	12.1	3.5	1.86
1820	860	58.3	17.1	2.92	45.6	13.4	2.79	31.8	9.3	2.64	24.9	7.3	2.51	13.2	3.9	1.79

HEATING PERFORMANCE at 1625 cfm (765 L/s) Indoor Coil Air Volume 13HPD-048 with [CBX32MV-048][CBX40UHV-048]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.98	57.2	16.8
60	16	2.96	54.4	15.9
55	13	2.94	51.6	15.1
50	10	2.92	48.8	14.3
47	8	2.91	47.2	13.8
45	7	2.86	44.4	13.0
40	4	2.73	37.6	11.0
35	2	2.60	30.8	9.0
30	-1	2.65	30.7	9.0
25	-4	2.70	30.6	9.0
20	-7	2.76	30.6	9.0
17	-8	2.79	30.5	8.9
15	-9	2.78	29.4	8.6
10	-12	2.76	26.7	7.8
5	-15	2.58	23.7	6.9
0	-18	2.40	20.8	6.1
-5	-21	2.22	17.9	5.2
-10	-23	2.04	15.0	4.4
-15	-26	1.86	12.1	3.5
-20	-29	1.67	9.2	2.7

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

UP-FLOW INDOOR COIL WITH GAS FURNACES

COOLING CAPACITY - 13HPD-048 with [C33-49C + G60UHV-60C-090]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1460	690	49.5	14.5	3.19	.74	.86	.98	48.0	14.1	3.57	.75	.88	.99	46.0	13.5	4.01	.76	.89	1.00	44.0	12.9	4.53	.77	.91	1.00
	1635	770	50.5	14.8	3.21	.76	.89	1.00	49.0	14.4	3.59	.77	.91	1.00	47.0	13.8	4.02	.78	.93	1.00	45.5	13.3	4.53	.80	.95	1.00
	1845	870	52.0	15.2	3.23	.79	.93	1.00	50.0	14.7	3.60	.80	.95	1.00	48.5	14.2	4.03	.81	.97	1.00	46.5	13.6	4.54	.83	.99	1.00
67°F (19°C)	1460	690	52.0	15.2	3.23	.60	.72	.83	50.5	14.8	3.60	.60	.73	.85	48.5	14.2	4.03	.61	.74	.86	46.5	13.6	4.54	.62	.75	.88
	1635	770	53.0	15.5	3.25	.61	.74	.86	51.5	15.1	3.62	.62	.75	.88	49.5	14.5	4.05	.63	.76	.90	47.5	13.9	4.55	.63	.78	.92
	1845	870	54.5	16.0	3.27	.63	.77	.90	53.0	15.5	3.64	.64	.78	.92	51.0	14.9	4.06	.64	.79	.94	49.0	14.4	4.57	.65	.81	.96
71°F (22°C)	1460	690	54.5	16.0	3.27	.47	.58	.69	52.5	15.4	3.64	.47	.59	.70	51.0	14.9	4.07	.47	.60	.72	49.0	14.4	4.57	.47	.60	.73
	1635	770	55.5	16.3	3.29	.47	.60	.72	54.0	15.8	3.66	.47	.60	.73	52.0	15.2	4.08	.48	.61	.74	50.0	14.7	4.58	.48	.62	.76
	1845	870	57.0	16.7	3.31	.48	.61	.74	55.0	16.1	3.68	.48	.62	.76	53.0	15.5	4.10	.49	.63	.77	51.0	14.9	4.59	.49	.64	.79

COOLING CAPACITY - 13HPD-048 with [C33-49C + G60UHV-60C-110]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1395	660	49.0	14.4	3.19	.73	.85	.97	47.5	13.9	3.56	.74	.87	.98	45.5	13.3	4.01	.75	.88	1.00	44.0	12.9	4.52	.76	.90	1.00
	1600	755	50.5	14.8	3.21	.76	.89	1.00	48.5	14.2	3.58	.77	.90	1.00	47.0	13.8	4.02	.78	.92	1.00	45.0	13.2	4.53	.79	.94	1.00
	1780	840	51.5	15.1	3.22	.78	.92	1.00	49.5	14.5	3.60	.79	.94	1.00	48.0	14.1	4.03	.81	.96	1.00	46.0	13.5	4.54	.82	.98	1.00
67°F (19°C)	1395	660	51.5	15.1	3.22	.59	.71	.82	50.0	14.7	3.60	.60	.72	.84	48.0	14.1	4.03	.60	.73	.85	46.0	13.5	4.54	.61	.74	.87
	1600	755	53.0	15.5	3.25	.61	.73	.86	51.0	14.9	3.62	.61	.74	.87	49.5	14.5	4.05	.62	.76	.89	47.5	13.9	4.55	.63	.77	.91
	1780	840	54.0	15.8	3.26	.62	.76	.89	52.5	15.4	3.63	.63	.77	.91	50.5	14.8	4.06	.64	.78	.93	48.5	14.2	4.56	.65	.80	.95
71°F (22°C)	1395	660	54.0	15.8	3.26	.46	.58	.69	52.0	15.2	3.63	.47	.58	.70	50.5	14.8	4.06	.47	.59	.71	48.5	14.2	4.56	.47	.60	.72
	1600	755	55.5	16.3	3.28	.47	.60	.71	53.5	15.7	3.65	.47	.60	.72	52.0	15.2	4.08	.48	.61	.74	50.0	14.7	4.58	.48	.62	.75
	1780	840	56.5	16.6	3.30	.48	.61	.74	55.0	16.1	3.67	.48	.62	.75	53.0	15.5	4.10	.48	.63	.76	51.0	14.9	4.59	.49	.64	.78

HEATING CAPACITY - 13HPD-048 with [C33-49C + G60UHV-60C-090]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1460	690	56.7	16.6	3.38	44.1	12.9	3.23	30.5	8.9	3.05	23.7	6.9	2.91	11.8	3.5	2.13
1635	770	57.1	16.7	3.26	44.5	13.0	3.11	30.9	9.1	2.93	24.1	7.1	2.79	12.2	3.6	2.01
1845	870	57.6	16.9	3.16	45.1	13.2	3.01	31.4	9.2	2.83	24.6	7.2	2.69	12.7	3.7	1.91

HEATING CAPACITY - 13HPD-048 with [C33-49C + G60UHV-60C-110]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1395	660	56.6	16.6	3.43	44.0	12.9	3.28	30.4	8.9	3.10	23.7	6.9	2.95	11.8	3.5	2.17
1600	755	57.0	16.7	3.28	44.5	13.0	3.13	30.9	9.1	2.95	24.1	7.1	2.80	12.2	3.6	2.02
1780	840	57.5	16.9	3.19	45.0	13.2	3.04	31.4	9.2	2.86	24.6	7.2	2.71	12.8	3.8	1.92

HEATING PERFORMANCE at 1635 cfm (770 L/s) Indoor Coil Air Volume 13HPD-048 with [C33-49C + G60UHV-60C-090]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.26	57.1	16.7
60	16	3.23	54.4	15.9
55	13	3.21	51.6	15.1
50	10	3.18	48.9	14.3
47	8	3.17	47.3	13.9
45	7	3.11	44.5	13.0
40	4	2.96	37.7	11.0
35	2	2.82	30.9	9.1
30	-1	2.87	30.9	9.1
25	-4	2.93	30.9	9.1
20	-7	2.98	30.9	9.1
17	-8	3.02	30.9	9.1
15	-9	3.01	29.8	8.7
10	-12	2.98	27.1	7.9
5	-15	2.79	24.1	7.1
0	-18	2.59	21.1	6.2
-5	-21	2.40	18.2	5.3
-10	-23	2.20	15.2	4.5
-15	-26	2.01	12.2	3.6
-20	-29	1.81	9.3	2.7

HEATING PERFORMANCE at 1600 cfm (755 L/s) Indoor Coil Air Volume 13HPD-048 with [C33-49C + G60UHV-60C-110]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.28	57.0	16.7
60	16	3.26	54.3	15.9
55	13	3.23	51.6	15.1
50	10	3.20	48.8	14.3
47	8	3.19	47.2	13.8
45	7	3.13	44.5	13.0
40	4	2.99	37.7	11.0
35	2	2.84	30.8	9.0
30	-1	2.90	30.8	9.0
25	-4	2.95	30.9	9.1
20	-7	3.00	30.9	9.1
17	-8	3.03	30.9	9.1
15	-9	3.02	29.8	8.7
10	-12	3.00	27.1	7.9
5	-15	2.80	24.1	7.1
0	-18	2.60	21.2	6.2
-5	-21	2.41	18.2	5.3
-10	-23	2.21	15.2	4.5
-15	-26	2.02	12.2	3.6
-20	-29	1.82	9.3	2.7

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

UP-FLOW INDOOR COIL WITH GAS FURNACES

COOLING CAPACITY - 13HPD-048 with [C33-49C + G61MPV-60C-090] [C33-49C + G71MPP-60C-090]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1380	650	49.0	14.4	3.19	.73	.85	.97	47.0	13.8	3.56	.74	.86	.98	45.5	13.3	4.01	.75	.88	1.00	43.5	12.7	4.52	.76	.90	1.00
	1605	760	50.5	14.8	3.21	.76	.89	1.00	49.0	14.4	3.58	.77	.90	1.00	47.0	13.8	4.02	.78	.92	1.00	45.0	13.2	4.53	.80	.95	1.00
	1755	830	51.5	15.1	3.22	.78	.92	1.00	49.5	14.5	3.59	.79	.93	1.00	48.0	14.1	4.03	.80	.95	1.00	46.0	13.5	4.54	.82	.98	1.00
67°F (19°C)	1380	650	51.5	15.1	3.22	.59	.71	.82	49.5	14.5	3.60	.60	.72	.83	48.0	14.1	4.03	.60	.73	.85	46.0	13.5	4.54	.61	.74	.87
	1605	760	53.0	15.5	3.25	.61	.74	.86	51.5	15.1	3.62	.62	.75	.87	49.5	14.5	4.05	.62	.76	.89	47.5	13.9	4.55	.63	.78	.91
	1755	830	54.0	15.8	3.26	.62	.76	.89	52.5	15.4	3.63	.63	.77	.90	50.5	14.8	4.06	.64	.78	.92	48.5	14.2	4.56	.65	.80	.95
71°F (22°C)	1380	650	53.5	15.7	3.26	.46	.58	.69	52.0	15.2	3.63	.47	.58	.69	50.5	14.8	4.06	.47	.59	.71	48.5	14.2	4.56	.47	.60	.72
	1605	760	55.5	16.3	3.29	.47	.60	.72	54.0	15.8	3.65	.47	.60	.73	52.0	15.2	4.08	.48	.61	.74	50.0	14.7	4.58	.48	.62	.75
	1755	830	56.5	16.6	3.30	.48	.61	.73	55.0	16.1	3.67	.48	.62	.75	53.0	15.5	4.09	.48	.63	.76	50.5	14.8	4.59	.49	.64	.78

COOLING CAPACITY - 13HPD-048 with [C33-49C + G61MPV-60C-110] [C33-49C + G71MPP-60C-110]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1405	665	49.0	14.4	3.19	.73	.85	.97	47.5	13.9	3.56	.74	.87	.99	46.0	13.5	4.01	.75	.88	1.00	44.0	12.9	4.52	.77	.90	1.00
	1605	760	50.5	14.8	3.21	.76	.89	1.00	49.0	14.4	3.58	.77	.90	1.00	47.0	13.8	4.02	.78	.92	1.00	45.0	13.2	4.53	.80	.95	1.00
	1790	845	51.5	15.1	3.22	.78	.92	1.00	50.0	14.7	3.60	.79	.94	1.00	48.0	14.1	4.03	.81	.96	1.00	46.5	13.6	4.54	.83	.98	1.00
67°F (19°C)	1405	665	51.5	15.1	3.22	.59	.71	.82	50.0	14.7	3.60	.60	.72	.84	48.0	14.1	4.03	.61	.73	.85	46.0	13.5	4.54	.61	.74	.87
	1605	760	53.0	15.5	3.25	.61	.74	.86	51.5	15.1	3.62	.62	.75	.87	49.5	14.5	4.05	.62	.76	.89	47.5	13.9	4.55	.63	.78	.91
	1790	845	54.0	15.8	3.27	.62	.76	.89	52.5	15.4	3.63	.63	.77	.91	50.5	14.8	4.07	.64	.79	.93	48.5	14.2	4.57	.65	.80	.95
71°F (22°C)	1405	665	54.0	15.8	3.26	.47	.58	.69	52.0	15.2	3.63	.47	.59	.70	50.5	14.8	4.06	.47	.59	.71	48.5	14.2	4.56	.47	.60	.72
	1605	760	55.5	16.3	3.29	.47	.60	.72	54.0	15.8	3.65	.47	.60	.73	52.0	15.2	4.08	.48	.61	.74	50.0	14.7	4.58	.48	.62	.75
	1790	845	56.5	16.6	3.30	.48	.61	.74	55.0	16.1	3.67	.48	.62	.75	53.0	15.5	4.10	.49	.63	.77	51.0	14.9	4.60	.49	.64	.78

HEATING CAPACITY - 13HPD-048 with [C33-49C + G61MPV-60C-090] [C33-49C + G71MPP-60C-090]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1380	650	56.6	16.6	3.45	44.1	12.9	3.30	30.5	8.9	3.12	23.8	7.0	2.97	11.8	3.5	2.19
1605	760	57.1	16.7	3.28	44.6	13.1	3.13	31.0	9.1	2.95	24.3	7.1	2.80	12.3	3.6	2.02
1755	830	57.7	16.9	3.21	45.2	13.2	3.06	31.6	9.3	2.88	24.8	7.3	2.73	12.9	3.8	1.94

HEATING CAPACITY - 13HPD-048 with [C33-49C + G61MPV-60C-110] [C33-49C + G71MPP-60C-110]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1405	665	56.6	16.6	3.43	44.1	12.9	3.28	30.5	8.9	3.10	23.8	7.0	2.95	11.8	3.5	2.17
1605	760	57.1	16.7	3.28	44.6	13.1	3.13	31.0	9.1	2.95	24.3	7.1	2.80	12.3	3.6	2.02
1790	845	57.6	16.9	3.19	45.1	13.2	3.04	31.6	9.3	2.86	24.8	7.3	2.71	12.9	3.8	1.92

HEATING PERFORMANCE at 1605 cfm (760 L/s) Indoor Coil Air Volume 13HPD-048 with [C33-49C + G61MPV-60C-090] [C33-49C + G71MPP-60C-090]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.28	57.1	16.7
60	16	3.25	54.4	15.9
55	13	3.23	51.7	15.2
50	10	3.20	49.0	14.4
47	8	3.19	47.4	13.9
45	7	3.13	44.6	13.1
40	4	2.99	37.8	11.1
35	2	2.84	31.0	9.1
30	-1	2.90	31.0	9.1
25	-4	2.95	31.0	9.1
20	-7	3.00	31.1	9.1
17	-8	3.03	31.1	9.1
15	-9	3.02	30.0	8.8
10	-12	3.00	27.3	8.0
5	-15	2.80	24.3	7.1
0	-18	2.61	21.3	6.2
-5	-21	2.41	18.3	5.4
-10	-23	2.21	15.3	4.5
-15	-26	2.02	12.3	3.6
-20	-29	1.82	9.3	2.7

HEATING PERFORMANCE at 1605 cfm (760 L/s) Indoor Coil Air Volume 13HPD-048 with [C33-49C + G61MPV-60C-110] [C33-49C + G71MPP-60C-110]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.28	57.1	16.7
60	16	3.25	54.4	15.9
55	13	3.23	51.7	15.2
50	10	3.20	48.9	14.3
47	8	3.19	47.3	13.9
45	7	3.13	44.6	13.1
40	4	2.99	37.8	11.1
35	2	2.84	31.0	9.1
30	-1	2.90	31.0	9.1
25	-4	2.95	31.0	9.1
20	-7	3.00	31.0	9.1
17	-8	3.03	31.1	9.1
15	-9	3.02	30.0	8.8
10	-12	3.00	27.3	8.0
5	-15	2.80	24.3	7.1
0	-18	2.60	21.3	6.2
-5	-21	2.41	18.3	5.4
-10	-23	2.21	15.3	4.5
-15	-26	2.02	12.3	3.6
-20	-29	1.82	9.3	2.7

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

UP-FLOW INDOOR COIL WITH GAS FURNACES

COOLING CAPACITY - 13HPD-048 with [C33-50/60C + G60UHV-60C-090]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1460	690	49.0	14.4	3.19	.74	.86	.98	47.5	13.9	3.57	.75	.88	1.00	45.5	13.3	4.01	.76	.89	1.00	44.0	12.9	4.52	.77	.91	1.00
	1635	770	50.0	14.7	3.20	.75	.89	1.00	48.5	14.2	3.58	.77	.91	1.00	47.0	13.8	4.02	.78	.93	1.00	45.0	13.2	4.53	.80	.95	1.00
	1845	870	51.5	15.1	3.22	.78	.93	1.00	49.5	14.5	3.59	.80	.95	1.00	48.0	14.1	4.03	.81	.97	1.00	46.0	13.5	4.53	.83	.99	1.00
67°F (19°C)	1460	690	51.5	15.1	3.22	.59	.71	.83	50.0	14.7	3.60	.60	.72	.85	48.0	14.1	4.04	.61	.74	.86	46.0	13.5	4.53	.62	.75	.88
	1635	770	52.5	15.4	3.24	.61	.74	.86	51.0	14.9	3.61	.61	.75	.88	49.0	14.4	4.04	.62	.76	.89	47.0	13.8	4.55	.63	.78	.92
	1845	870	54.0	15.8	3.26	.63	.76	.90	52.0	15.2	3.63	.63	.77	.92	50.0	14.7	4.05	.64	.79	.94	48.0	14.1	4.56	.65	.81	.96
71°F (22°C)	1460	690	54.0	15.8	3.26	.46	.58	.69	52.5	15.4	3.63	.47	.58	.70	50.5	14.8	4.07	.47	.59	.71	48.5	14.2	4.56	.47	.60	.73
	1635	770	55.5	16.3	3.28	.47	.60	.71	53.5	15.7	3.65	.47	.60	.73	51.5	15.1	4.07	.48	.61	.74	49.5	14.5	4.58	.48	.61	.75
	1845	870	56.5	16.6	3.30	.48	.61	.74	54.5	16.0	3.66	.48	.62	.75	52.5	15.4	4.09	.48	.63	.77	50.5	14.8	4.59	.49	.64	.79

COOLING CAPACITY - 13HPD-048 with [C33-50/60C + G60UHV-60C-110]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1395	660	48.5	14.2	3.18	.73	.85	.97	47.0	13.8	3.56	.74	.87	.99	45.5	13.3	4.00	.75	.88	1.00	43.5	12.7	4.52	.76	.90	1.00
	1600	755	50.0	14.7	3.20	.76	.89	1.00	48.5	14.2	3.58	.77	.90	1.00	46.5	13.6	4.01	.78	.92	1.00	44.5	13.0	4.53	.79	.94	1.00
	1780	840	51.0	14.9	3.22	.77	.92	1.00	49.5	14.5	3.59	.79	.94	1.00	47.5	13.9	4.02	.81	.95	1.00	45.5	13.3	4.54	.82	.98	1.00
67°F (19°C)	1395	660	51.0	14.9	3.22	.59	.71	.82	49.5	14.5	3.59	.59	.72	.83	48.0	14.1	4.03	.60	.73	.85	46.0	13.5	4.53	.61	.74	.87
	1600	755	52.5	15.4	3.24	.61	.73	.86	50.5	14.8	3.61	.61	.74	.87	49.0	14.4	4.04	.62	.75	.89	47.0	13.8	4.55	.63	.77	.91
	1780	840	53.5	15.7	3.25	.62	.75	.89	51.5	15.1	3.62	.63	.77	.90	50.0	14.7	4.05	.63	.78	.92	48.0	14.1	4.56	.65	.80	.95
71°F (22°C)	1395	660	53.5	15.7	3.25	.46	.57	.68	52.0	15.2	3.63	.47	.58	.69	50.0	14.7	4.06	.47	.59	.71	48.5	14.2	4.56	.47	.60	.72
	1600	755	55.0	16.1	3.28	.47	.59	.71	53.5	15.7	3.65	.47	.60	.72	51.5	15.1	4.08	.48	.60	.73	49.5	14.5	4.57	.48	.61	.75
	1780	840	56.0	16.4	3.30	.48	.61	.73	54.5	16.0	3.66	.48	.62	.74	52.5	15.4	4.09	.48	.62	.76	50.5	14.8	4.59	.49	.63	.78

HEATING CAPACITY - 13HPD-048 with [C33-50/60C + G60UHV-60C-090]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1460	690	56.7	16.6	3.41	44.2	13.0	3.26	30.6	9.0	3.08	23.8	7.0	2.93	11.9	3.5	2.14
1635	770	57.1	16.7	3.29	44.6	13.1	3.13	31.0	9.1	2.95	24.2	7.1	2.80	12.3	3.6	2.02
1845	870	57.7	16.9	3.19	45.2	13.2	3.03	31.6	9.3	2.85	24.8	7.3	2.70	12.9	3.8	1.92

HEATING CAPACITY - 13HPD-048 with [C33-50/60C + G60UHV-60C-110]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1395	690	56.6	16.6	3.45	44.1	12.9	3.30	30.5	8.9	3.11	23.8	7.0	2.95	11.8	3.5	2.17
1600	770	57.1	16.7	3.31	44.6	13.1	3.16	31.0	9.1	2.97	24.2	7.1	2.81	12.3	3.6	2.03
1780	870	57.6	16.9	3.22	45.1	13.2	3.06	31.5	9.2	2.87	24.7	7.2	2.72	12.8	3.8	1.93

HEATING PERFORMANCE at 1635 cfm (770 L/s) Indoor Coil Air Volume 13HPD-048 with [C33-50/60C + G60UHV-60C-090]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.29	57.1	16.7
60	16	3.26	54.4	15.9
55	13	3.23	51.7	15.2
50	10	3.21	49.0	14.4
47	8	3.19	47.3	13.9
45	7	3.13	44.6	13.1
40	4	2.99	37.8	11.1
35	2	2.85	30.9	9.1
30	-1	2.90	31.0	9.1
25	-4	2.95	31.0	9.1
20	-7	3.00	31.0	9.1
17	-8	3.03	31.0	9.1
15	-9	3.02	29.9	8.8
10	-12	2.99	27.2	8.0
5	-15	2.80	24.2	7.1
0	-18	2.60	21.2	6.2
-5	-21	2.41	18.3	5.4
-10	-23	2.21	15.3	4.5
-15	-26	2.02	12.3	3.6
-20	-29	1.82	9.3	2.7

HEATING PERFORMANCE at 1600 cfm (770 L/s) Indoor Coil Air Volume 13HPD-048 with [C33-50/60C + G60UHV-60C-110]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.31	57.1	16.7
60	16	3.29	54.4	15.9
55	13	3.26	51.7	15.2
50	10	3.23	48.9	14.3
47	8	3.21	47.3	13.9
45	7	3.16	44.6	13.1
40	4	3.01	37.8	11.1
35	2	2.87	30.9	9.1
30	-1	2.92	31.0	9.1
25	-4	2.97	31.0	9.1
20	-7	3.02	31.0	9.1
17	-8	3.05	31.0	9.1
15	-9	3.04	29.9	8.8
10	-12	3.01	27.2	8.0
5	-15	2.81	24.2	7.1
0	-18	2.61	21.2	6.2
-5	-21	2.42	18.3	5.4
-10	-23	2.22	15.3	4.5
-15	-26	2.03	12.3	3.6
-20	-29	1.83	9.3	2.7

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

UP-FLOW INDOOR COIL WITH GAS FURNACES

COOLING CAPACITY - 13HPD-048 with [C33-60D + G60UHV-60D-135]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1370	645	49.0	14.4	3.19	.73	.85	.97	47.5	13.9	3.56	.74	.87	.99	45.5	13.3	4.00	.75	.88	1.00	43.5	12.7	4.52	.76	.90	1.00
	1575	745	50.5	14.8	3.21	.76	.89	1.00	48.5	14.2	3.59	.77	.91	1.00	47.0	13.8	4.02	.78	.93	1.00	45.0	13.2	4.53	.80	.95	1.00
	1745	825	51.5	15.1	3.22	.78	.92	1.00	50.0	14.7	3.59	.79	.94	1.00	48.0	14.1	4.03	.81	.96	1.00	46.0	13.5	4.54	.82	.98	1.00
67°F (19°C)	1370	645	51.5	15.1	3.22	.59	.71	.82	49.5	14.5	3.60	.59	.72	.84	48.0	14.1	4.03	.60	.73	.85	46.0	13.5	4.54	.61	.74	.87
	1575	745	53.0	15.5	3.25	.61	.74	.86	51.0	14.9	3.62	.61	.75	.88	49.5	14.5	4.05	.62	.76	.89	47.5	13.9	4.55	.63	.78	.92
	1745	825	54.0	15.8	3.26	.62	.76	.89	52.5	15.4	3.63	.62	.77	.91	50.5	14.8	4.06	.64	.79	.93	48.5	14.2	4.56	.65	.80	.95
71°F (22°C)	1370	645	54.0	15.8	3.26	.46	.58	.69	52.5	15.4	3.63	.46	.58	.70	50.5	14.8	4.06	.46	.59	.71	48.5	14.2	4.56	.47	.60	.72
	1575	745	55.5	16.3	3.28	.46	.60	.71	53.5	15.7	3.65	.47	.60	.73	52.0	15.2	4.08	.47	.61	.74	50.0	14.7	4.58	.48	.62	.75
	1745	825	56.5	16.6	3.30	.47	.61	.74	54.5	16.0	3.67	.48	.62	.75	52.5	15.4	4.09	.48	.62	.77	50.5	14.8	4.59	.49	.64	.78

COOLING CAPACITY - 13HPD-048 with [C33-60D + G61MPV-60D-135] [C33-60D + G71MPP-60D-135]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1500	710	50.0	14.7	3.20	.75	.88	1.00	48.5	14.2	3.58	.76	.89	1.00	46.5	13.6	4.01	.77	.91	1.00	44.5	13.0	4.53	.79	.93	1.00
	1600	755	50.5	14.8	3.21	.76	.90	1.00	49.0	14.4	3.59	.77	.91	1.00	47.0	13.8	4.02	.79	.93	1.00	45.0	13.2	4.53	.80	.95	1.00
	1780	840	51.5	15.1	3.23	.79	.93	1.00	50.0	14.7	3.60	.80	.95	1.00	48.0	14.1	4.03	.81	.97	1.00	46.0	13.5	4.54	.83	.99	1.00
67°F (19°C)	1500	710	52.5	15.4	3.24	.60	.73	.85	50.5	14.8	3.61	.61	.74	.86	49.0	14.4	4.04	.62	.75	.88	47.0	13.8	4.55	.62	.76	.90
	1600	755	53.0	15.5	3.25	.61	.74	.87	51.5	15.1	3.62	.62	.75	.88	49.5	14.5	4.05	.62	.77	.90	47.5	13.9	4.55	.64	.78	.92
	1780	840	54.5	16.0	3.27	.62	.77	.90	52.5	15.4	3.64	.63	.78	.92	50.5	14.8	4.07	.64	.79	.94	48.5	14.2	4.56	.65	.81	.96
71°F (22°C)	1500	710	55.0	16.1	3.27	.46	.58	.71	53.0	15.5	3.64	.47	.59	.72	51.5	15.1	4.07	.47	.60	.73	49.5	14.5	4.57	.47	.61	.74
	1600	755	55.5	16.3	3.29	.47	.60	.72	54.0	15.8	3.65	.47	.60	.73	52.0	15.2	4.08	.47	.61	.74	50.0	14.7	4.58	.48	.62	.76
	1780	840	56.5	16.6	3.30	.48	.61	.75	55.0	16.1	3.67	.48	.62	.76	53.0	15.5	4.09	.48	.63	.77	51.0	14.9	4.59	.49	.64	.79

HEATING CAPACITY - 13HPD-048 with [C33-60D + G60UHV-60D-135]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1370	645	56.3	16.5	3.41	43.8	12.8	3.26	30.2	8.9	3.07	23.4	6.9	2.92	11.7	3.4	2.14
1575	745	56.8	16.6	3.28	44.3	13.0	3.13	30.6	9.0	2.94	23.9	7.0	2.79	12.1	3.5	2.01
1745	825	57.2	16.8	3.19	44.7	13.1	3.04	31.1	9.1	2.85	24.3	7.1	2.70	12.6	3.7	1.92

HEATING CAPACITY - 13HPD-048 with [C33-60D + G61MPV-60D-135] [C33-60D + G71MPP-60D-135]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1500	710	56.6	16.6	3.32	44.0	12.9	3.17	30.4	8.9	2.99	23.6	6.9	2.84	11.8	3.5	2.06
1600	755	57.0	16.7	3.27	44.5	13.0	3.12	30.8	9.0	2.93	24.1	7.1	2.79	12.2	3.6	2.01
1780	840	57.5	16.9	3.18	45.0	13.2	3.03	31.3	9.2	2.85	24.6	7.2	2.70	12.7	3.7	1.92

HEATING PERFORMANCE at 1575 cfm (745 L/s) Indoor Coil Air Volume 13HPD-048 with [C33-60D + G60UHV-60D-135]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.28	56.8	16.6
60	16	3.25	54.0	15.8
55	13	3.23	51.3	15.0
50	10	3.20	48.6	14.2
47	8	3.19	47.0	13.8
45	7	3.13	44.3	13.0
40	4	2.98	37.5	11.0
35	2	2.84	30.7	9.0
30	-1	2.89	30.7	9.0
25	-4	2.94	30.6	9.0
20	-7	2.99	30.6	9.0
17	-8	3.03	30.6	9.0
15	-9	3.01	29.6	8.7
10	-12	2.99	26.8	7.9
5	-15	2.79	23.9	7.0
0	-18	2.60	21.0	6.2
-5	-21	2.40	18.0	5.3
-10	-23	2.21	15.1	4.4
-15	-26	2.01	12.1	3.5
-20	-29	1.82	9.2	2.7

HEATING PERFORMANCE at 1600 cfm (755 L/s) Indoor Coil Air Volume 13HPD-048 with [C33-60D + G61MPV-60D-135] [C33-60D + G71MPP-60D-135]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.27	57.0	16.7
60	16	3.24	54.3	15.9
55	13	3.22	51.6	15.1
50	10	3.19	48.8	14.3
47	8	3.17	47.2	13.8
45	7	3.12	44.5	13.0
40	4	2.97	37.6	11.0
35	2	2.83	30.8	9.0
30	-1	2.88	30.8	9.0
25	-4	2.93	30.8	9.0
20	-7	2.99	30.8	9.0
17	-8	3.02	30.8	9.0
15	-9	3.01	29.7	8.7
10	-12	2.98	27.0	7.9
5	-15	2.79	24.1	7.1
0	-18	2.59	21.1	6.2
-5	-21	2.40	18.1	5.3
-10	-23	2.20	15.2	4.5
-15	-26	2.01	12.2	3.6
-20	-29	1.81	9.3	2.7

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

UP-FLOW INDOOR COIL WITH GAS FURNACES

COOLING CAPACITY - 13HPD-048 with [C33-62C + G60UHV-60C-090]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1460	690	51.0	14.9	3.22	.76	.89	1.00	49.0	14.4	3.59	.76	.90	1.00	47.5	13.9	4.03	.78	.92	1.00	45.5	13.3	4.53	.80	.94	1.00
	1635	770	52.0	15.2	3.23	.78	.93	1.00	50.5	14.8	3.61	.80	.94	1.00	48.5	14.2	4.04	.81	.96	1.00	46.5	13.6	4.54	.83	.99	1.00
	1845	870	53.5	15.7	3.25	.82	.97	1.00	51.5	15.1	3.62	.83	.99	1.00	49.5	14.5	4.05	.85	1.00	1.00	47.5	13.9	4.55	.86	1.00	1.00
67°F (19°C)	1460	690	53.5	15.7	3.25	.61	.74	.86	51.5	15.1	3.62	.61	.74	.87	50.0	14.7	4.05	.61	.75	.89	48.0	14.1	4.55	.63	.77	.91
	1635	770	54.5	16.0	3.27	.62	.76	.90	53.0	15.5	3.64	.63	.77	.91	51.0	14.9	4.07	.64	.79	.93	49.0	14.4	4.57	.65	.80	.96
	1845	870	56.0	16.4	3.29	.64	.79	.94	54.0	15.8	3.66	.65	.81	.96	52.0	15.2	4.08	.66	.82	.98	49.5	14.5	4.58	.67	.84	1.00
71°F (22°C)	1460	690	56.0	16.4	3.30	.46	.59	.71	54.5	16.0	3.66	.47	.59	.73	52.5	15.4	4.09	.47	.60	.73	50.5	14.8	4.59	.47	.61	.75
	1635	770	57.5	16.9	3.32	.47	.61	.74	55.5	16.3	3.68	.48	.61	.75	53.5	15.7	4.11	.48	.63	.77	51.5	15.1	4.60	.48	.64	.78
	1845	870	58.5	17.1	3.34	.48	.63	.77	56.5	16.6	3.70	.49	.64	.79	54.5	16.0	4.13	.49	.65	.80	52.5	15.4	4.62	.50	.66	.82

COOLING CAPACITY - 13HPD-048 with [C33-62C + G60UHV-60C-110]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1395	660	50.5	14.8	3.21	.75	.88	1.00	49.0	14.4	3.58	.76	.89	1.00	47.0	13.8	4.02	.77	.90	1.00	45.0	13.2	4.53	.78	.93	1.00
	1600	755	52.0	15.2	3.23	.78	.92	1.00	50.0	14.7	3.60	.79	.94	1.00	48.0	14.1	4.03	.80	.96	1.00	46.0	13.5	4.54	.82	.98	1.00
	1780	840	53.0	15.5	3.25	.81	.96	1.00	51.5	15.1	3.62	.82	.98	1.00	49.5	14.5	4.05	.83	.99	1.00	47.5	13.9	4.55	.85	1.00	1.00
67°F (19°C)	1395	660	53.0	15.5	3.25	.60	.73	.85	51.5	15.1	3.62	.60	.74	.86	49.5	14.5	4.05	.61	.74	.88	47.5	13.9	4.55	.62	.76	.89
	1600	755	54.5	16.0	3.27	.62	.75	.89	52.5	15.4	3.64	.62	.77	.90	51.0	14.9	4.07	.64	.78	.92	48.5	14.2	4.57	.64	.80	.95
	1780	840	55.5	16.3	3.29	.64	.78	.93	53.5	15.7	3.65	.65	.80	.95	51.5	15.1	4.08	.65	.82	.97	49.5	14.5	4.57	.67	.83	.99
71°F (22°C)	1395	660	55.5	16.3	3.29	.46	.59	.70	54.0	15.8	3.66	.47	.59	.71	52.0	15.2	4.08	.47	.60	.72	50.0	14.7	4.57	.47	.60	.74
	1600	755	57.0	16.7	3.31	.48	.61	.73	55.0	16.1	3.68	.47	.61	.74	53.5	15.7	4.10	.48	.62	.76	51.0	14.9	4.60	.48	.63	.78
	1780	840	58.5	17.1	3.33	.48	.62	.76	56.5	16.6	3.70	.49	.63	.77	54.5	16.0	4.12	.49	.64	.79	52.0	15.2	4.61	.50	.66	.81

HEATING CAPACITY - 13HPD-048 with [C33-62C + G60UHV-60C-090]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1460	690	56.7	16.6	3.38	44.2	13.0	3.26	30.6	9.0	3.11	23.8	7.0	2.97	11.9	3.5	2.17
1635	770	57.2	16.8	3.26	44.6	13.1	3.14	31.0	9.1	2.99	24.2	7.1	2.86	12.3	3.6	2.05
1845	870	57.8	16.9	3.16	45.2	13.2	3.04	31.6	9.3	2.89	24.8	7.3	2.76	12.9	3.8	1.95

HEATING CAPACITY - 13HPD-048 with [C33-62C + G60UHV-60C-110]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1395	660	56.7	16.6	3.43	44.1	12.9	3.31	30.5	8.9	3.15	23.8	7.0	3.02	11.8	3.5	2.21
1600	755	57.1	16.7	3.28	44.6	13.1	3.16	31.0	9.1	3.01	24.2	7.1	2.87	12.3	3.6	2.07
1780	840	57.7	16.9	3.19	45.1	13.2	3.07	31.5	9.2	2.92	24.8	7.3	2.78	12.8	3.8	1.97

HEATING PERFORMANCE at 1635 cfm (770 L/s) Indoor Coil Air Volume 13HPD-048 with [C33-62C + G60UHV-60C-090]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.26	57.2	16.8
60	16	3.24	54.4	15.9
55	13	3.22	51.7	15.2
50	10	3.21	49.0	14.4
47	8	3.19	47.3	13.9
45	7	3.14	44.6	13.1
40	4	3.01	37.8	11.1
35	2	2.87	30.9	9.1
30	-1	2.93	30.9	9.1
25	-4	2.99	31.0	9.1
20	-7	3.05	31.0	9.1
17	-8	3.08	31.0	9.1
15	-9	3.08	29.9	8.8
10	-12	3.06	27.2	8.0
5	-15	2.86	24.2	7.1
0	-18	2.65	21.2	6.2
-5	-21	2.45	18.2	5.3
-10	-23	2.25	15.3	4.5
-15	-26	2.05	12.3	3.6
-20	-29	1.85	9.3	2.7

HEATING PERFORMANCE at 1600 cfm (755 L/s) Indoor Coil Air Volume 13HPD-048 with [C33-62C + G60UHV-60C-110]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.28	57.1	16.7
60	16	3.27	54.4	15.9
55	13	3.25	51.7	15.2
50	10	3.23	49.0	14.4
47	8	3.22	47.3	13.9
45	7	3.16	44.6	13.1
40	4	3.03	37.7	11.0
35	2	2.89	30.9	9.1
30	-1	2.95	30.9	9.1
25	-4	3.01	31.0	9.1
20	-7	3.07	31.0	9.1
17	-8	3.10	31.0	9.1
15	-9	3.10	29.9	8.8
10	-12	3.08	27.2	8.0
5	-15	2.87	24.2	7.1
0	-18	2.67	21.2	6.2
-5	-21	2.47	18.2	5.3
-10	-23	2.27	15.3	4.5
-15	-26	2.07	12.3	3.6
-20	-29	1.86	9.3	2.7

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

UP-FLOW INDOOR COIL WITH GAS FURNACES

COOLING CAPACITY - 13HPD-048 with [C33-62C + G61MPV-60C-090] [C33-62C + G71MPP-60C-090]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1380	650	50.5	14.8	3.21	.75	.87	.99	48.5	14.2	3.58	.76	.89	1.00	47.0	13.8	4.02	.76	.90	1.00	45.0	13.2	4.53	.78	.93	1.00
	1605	760	52.0	15.2	3.23	.78	.92	1.00	50.0	14.7	3.60	.79	.94	1.00	48.5	14.2	4.03	.81	.96	1.00	46.5	13.6	4.54	.82	.98	1.00
	1755	830	53.0	15.5	3.25	.80	.95	1.00	51.0	14.9	3.62	.82	.97	1.00	49.0	14.4	4.05	.83	.99	1.00	47.0	13.8	4.55	.85	1.00	1.00
67°F (19°C)	1380	650	53.0	15.5	3.25	.60	.72	.84	51.5	15.1	3.62	.61	.73	.86	49.5	14.5	4.05	.61	.74	.87	47.5	13.9	4.55	.62	.76	.89
	1605	760	54.5	16.0	3.27	.62	.75	.89	53.0	15.5	3.64	.63	.77	.91	51.0	14.9	4.07	.64	.78	.93	48.5	14.2	4.57	.65	.80	.95
	1755	830	55.5	16.3	3.29	.63	.78	.92	53.5	15.7	3.65	.64	.80	.94	51.5	15.1	4.08	.65	.81	.96	49.5	14.5	4.57	.67	.83	.98
71°F (22°C)	1380	650	55.5	16.3	3.29	.46	.58	.70	54.0	15.8	3.66	.47	.59	.71	52.0	15.2	4.08	.47	.59	.73	49.5	14.5	4.57	.47	.60	.74
	1605	760	57.5	16.9	3.31	.48	.61	.73	55.5	16.3	3.68	.47	.61	.75	53.5	15.7	4.10	.48	.63	.76	51.0	14.9	4.60	.49	.63	.78
	1755	830	58.0	17.0	3.33	.48	.62	.76	56.5	16.6	3.69	.48	.63	.77	54.5	16.0	4.12	.49	.64	.79	52.0	15.2	4.61	.50	.65	.80

COOLING CAPACITY - 13HPD-048 with [C33-62C + G61MPV-60C-110] [C33-62C + G71MPP-60C-110]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1405	665	50.5	14.8	3.21	.75	.88	1.00	49.0	14.4	3.58	.76	.89	1.00	47.0	13.8	4.02	.77	.91	1.00	45.0	13.2	4.53	.78	.93	1.00
	1605	760	52.0	15.2	3.23	.78	.92	1.00	50.0	14.7	3.60	.79	.94	1.00	48.5	14.2	4.03	.81	.96	1.00	46.5	13.6	4.54	.82	.98	1.00
	1790	845	53.0	15.5	3.25	.81	.96	1.00	51.5	15.1	3.62	.82	.98	1.00	49.5	14.5	4.05	.84	1.00	1.00	47.5	13.9	4.54	.85	1.00	1.00
67°F (19°C)	1405	665	53.0	15.5	3.25	.60	.73	.85	51.5	15.1	3.62	.60	.74	.86	49.5	14.5	4.05	.61	.74	.88	47.5	13.9	4.56	.62	.76	.90
	1605	760	54.5	16.0	3.27	.62	.75	.89	53.0	15.5	3.64	.63	.77	.91	51.0	14.9	4.07	.64	.78	.93	48.5	14.2	4.57	.65	.80	.95
	1790	845	55.5	16.3	3.29	.64	.79	.93	54.0	15.8	3.66	.65	.80	.95	52.0	15.2	4.08	.66	.82	.97	49.5	14.5	4.57	.67	.84	.99
71°F (22°C)	1405	665	56.0	16.4	3.29	.46	.59	.70	54.0	15.8	3.66	.47	.60	.72	52.0	15.2	4.08	.47	.60	.72	50.0	14.7	4.58	.47	.60	.74
	1605	760	57.5	16.9	3.31	.48	.61	.73	55.5	16.3	3.68	.47	.61	.75	53.5	15.7	4.10	.48	.63	.76	51.0	14.9	4.60	.49	.63	.78
	1790	845	58.5	17.1	3.33	.48	.63	.77	56.5	16.6	3.70	.49	.64	.78	54.5	16.0	4.12	.49	.65	.80	52.0	15.2	4.61	.50	.66	.82

HEATING CAPACITY - 13HPD-048 with [C33-62C + G61MPV-60C-090] [C33-62C + G71MPP-60C-090]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1380	650	56.7	16.6	3.44	44.2	13.0	3.32	30.5	8.9	3.17	23.8	7.0	3.03	11.8	3.5	2.22
1605	760	57.3	16.8	3.28	44.8	13.1	3.16	31.1	9.1	3.01	24.3	7.1	2.87	12.3	3.6	2.06
1755	830	57.8	16.9	3.20	45.3	13.3	3.08	31.6	9.3	2.93	24.9	7.3	2.79	12.9	3.8	1.98

HEATING CAPACITY - 13HPD-048 with [C33-62C + G61MPV-60C-110] [C33-62C + G71MPP-60C-110]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1405	665	56.7	16.6	3.42	44.2	13.0	3.30	30.6	9.0	3.15	23.8	7.0	3.01	11.8	3.5	2.21
1605	760	57.3	16.8	3.28	44.7	13.1	3.16	31.1	9.1	3.01	24.3	7.1	2.87	12.3	3.6	2.06
1790	845	57.8	16.9	3.19	45.3	13.3	3.07	31.6	9.3	2.91	24.9	7.3	2.78	12.9	3.8	1.97

HEATING PERFORMANCE at 1605 cfm (760 L/s) Indoor Coil Air Volume 13HPD-048 with [C33-62C + G61MPV-60C-090] [C33-62C + G71MPP-60C-090]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.28	57.3	16.8
60	16	3.26	54.6	16.0
55	13	3.25	51.9	15.2
50	10	3.23	49.1	14.4
47	8	3.22	47.5	13.9
45	7	3.16	44.8	13.1
40	4	3.03	37.9	11.1
35	2	2.89	31.0	9.1
30	-1	2.95	31.1	9.1
25	-4	3.01	31.1	9.1
20	-7	3.07	31.1	9.1
17	-8	3.10	31.2	9.1
15	-9	3.09	30.1	8.8
10	-12	3.07	27.3	8.0
5	-15	2.87	24.3	7.1
0	-18	2.67	21.3	6.2
-5	-21	2.47	18.3	5.4
-10	-23	2.27	15.3	4.5
-15	-26	2.06	12.3	3.6
-20	-29	1.86	9.3	2.7

HEATING PERFORMANCE at 1605 cfm (760 L/s) Indoor Coil Air Volume 13HPD-048 with [C33-62C + G61MPV-60C-110] [C33-62C + G71MPP-60C-110]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.28	57.3	16.8
60	16	3.26	54.6	16.0
55	13	3.24	51.8	15.2
50	10	3.23	49.1	14.4
47	8	3.21	47.5	13.9
45	7	3.16	44.7	13.1
40	4	3.02	37.9	11.1
35	2	2.89	31.0	9.1
30	-1	2.95	31.1	9.1
25	-4	3.01	31.1	9.1
20	-7	3.07	31.1	9.1
17	-8	3.10	31.1	9.1
15	-9	3.09	30.1	8.8
10	-12	3.08	27.3	8.0
5	-15	2.87	24.3	7.1
0	-18	2.67	21.3	6.2
-5	-21	2.47	18.3	5.4
-10	-23	2.27	15.3	4.5
-15	-26	2.06	12.3	3.6
-20	-29	1.86	9.3	2.7

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

DOWN-FLOW INDOOR COILS WITH GAS FURNACES

COOLING CAPACITY - 13HPD-048 with [CR33-50/60C-F + G60DFV-60C-090]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1390	655	48.0	14.1	3.17	.74	.87	.98	46.5	13.6	3.55	.75	.88	.99	45.0	13.2	3.99	.76	.90	1.00	43.0	12.6	4.51	.78	.92	1.00
	1685	795	49.5	14.5	3.20	.78	.92	1.00	48.0	14.1	3.57	.79	.94	1.00	46.5	13.6	4.01	.81	.96	1.00	44.5	13.0	4.52	.82	.98	1.00
	1860	880	50.5	14.8	3.21	.80	.96	1.00	49.0	14.4	3.58	.82	.97	1.00	47.0	13.8	4.02	.83	.98	1.00	45.5	13.3	4.53	.85	.99	1.00
67°F (19°C)	1390	655	50.5	14.8	3.21	.60	.72	.84	49.0	14.4	3.58	.60	.73	.85	47.0	13.8	4.02	.61	.74	.87	45.5	13.3	4.53	.62	.75	.89
	1685	795	52.5	15.4	3.24	.62	.76	.89	50.5	14.8	3.61	.63	.77	.91	49.0	14.4	4.04	.64	.78	.93	47.0	13.8	4.55	.65	.80	.95
	1860	880	53.0	15.5	3.25	.64	.78	.93	51.5	15.1	3.62	.65	.80	.95	49.5	14.5	4.05	.65	.81	.97	47.5	13.9	4.55	.67	.83	.98
71°F (22°C)	1390	655	53.0	15.5	3.24	.46	.58	.70	51.5	15.1	3.62	.46	.59	.71	49.5	14.5	4.05	.46	.60	.72	47.5	13.9	4.56	.46	.60	.73
	1685	795	55.0	16.1	3.27	.47	.61	.73	53.0	15.5	3.65	.48	.62	.75	51.5	15.1	4.07	.48	.63	.76	49.5	14.5	4.57	.48	.64	.78
	1860	880	56.0	16.4	3.29	.49	.63	.76	54.0	15.8	3.66	.49	.63	.78	52.0	15.2	4.08	.49	.64	.79	50.0	14.7	4.58	.50	.65	.81

COOLING CAPACITY - 13HPD-048 with [CR33-50/60C-F + G60DFV-60C-110]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1450	685	48.5	14.2	3.18	.75	.88	.99	47.0	13.8	3.56	.76	.89	1.00	45.0	13.2	3.99	.77	.91	1.00	43.0	12.6	4.51	.79	.93	1.00
	1645	775	49.5	14.5	3.20	.77	.92	1.00	48.0	14.1	3.57	.79	.93	1.00	46.0	13.5	4.01	.80	.95	1.00	44.5	13.0	4.52	.82	.97	1.00
	1800	850	50.0	14.7	3.21	.80	.95	1.00	48.5	14.2	3.58	.81	.96	1.00	47.0	13.8	4.02	.82	.98	1.00	45.0	13.2	4.53	.84	.99	1.00
67°F (19°C)	1450	685	51.0	14.9	3.22	.60	.73	.85	49.5	14.5	3.59	.61	.74	.86	47.5	13.9	4.03	.62	.75	.88	45.5	13.3	4.53	.62	.76	.90
	1645	775	52.0	15.2	3.23	.62	.75	.89	50.5	14.8	3.61	.62	.77	.90	48.5	14.2	4.04	.63	.78	.92	46.5	13.6	4.54	.64	.80	.95
	1800	850	53.0	15.5	3.25	.63	.77	.92	51.0	14.9	3.62	.64	.79	.93	49.5	14.5	4.05	.65	.80	.95	47.5	13.9	4.55	.66	.82	.97
71°F (22°C)	1450	685	53.5	15.7	3.25	.46	.59	.70	51.5	15.1	3.62	.46	.59	.71	50.0	14.7	4.06	.47	.60	.73	48.0	14.1	4.56	.47	.61	.74
	1645	775	54.5	16.0	3.27	.47	.61	.73	53.0	15.5	3.64	.47	.61	.74	51.0	14.9	4.07	.48	.62	.76	49.0	14.4	4.57	.48	.63	.77
	1800	850	55.5	16.3	3.28	.48	.62	.75	53.5	15.7	3.65	.48	.63	.77	52.0	15.2	4.08	.49	.64	.78	50.0	14.7	4.57	.49	.65	.80

HEATING CAPACITY - 13HPD-048 with [CR33-50/60C-F + G60DFV-60C-090]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1390	655	56.8	16.6	3.11	44.0	12.9	2.97	30.2	8.9	2.80	23.2	6.8	2.67	11.5	3.4	1.96
1685	795	57.5	16.9	2.96	44.7	13.1	2.82	30.9	9.1	2.65	23.9	7.0	2.52	12.2	3.6	1.81
1860	880	57.9	17.0	2.90	45.2	13.2	2.76	31.3	9.2	2.58	24.4	7.2	2.45	12.6	3.7	1.75

HEATING CAPACITY - 13HPD-048 with [CR33-50/60C-F + G60DFV-60C-110]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1450	685	57.0	16.7	3.09	44.2	13.0	2.94	30.3	8.9	2.76	23.4	6.9	2.62	11.7	3.4	1.92
1645	775	57.4	16.8	2.99	44.7	13.1	2.84	30.8	9.0	2.66	23.8	7.0	2.52	12.1	3.5	1.82
1800	850	57.8	16.9	2.93	45.0	13.2	2.78	31.1	9.1	2.60	24.2	7.1	2.46	12.5	3.7	1.76

HEATING PERFORMANCE at 1685 cfm (795 L/s) Indoor Coil Air Volume 13HPD-048 with [CR33-50/60C-F + G60DFV-60C-090]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.96	57.5	16.9
60	16	2.94	54.7	16.0
55	13	2.91	51.9	15.2
50	10	2.89	49.1	14.4
47	8	2.87	47.4	13.9
45	7	2.82	44.7	13.1
40	4	2.69	37.9	11.1
35	2	2.55	31.0	9.1
30	-1	2.60	30.9	9.1
25	-4	2.65	30.9	9.1
20	-7	2.70	30.8	9.0
17	-8	2.73	30.7	9.0
15	-9	2.72	29.6	8.7
10	-12	2.69	26.8	7.9
5	-15	2.52	23.9	7.0
0	-18	2.34	21.0	6.2
-5	-21	2.17	18.0	5.3
-10	-23	1.99	15.1	4.4
-15	-26	1.81	12.2	3.6
-20	-29	1.64	9.2	2.7

HEATING PERFORMANCE at 1645 cfm (775 L/s) Indoor Coil Air Volume 13HPD-048 with [CR33-50/60C-F + G60DFV-60C-110]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.99	57.4	16.8
60	16	2.96	54.6	16.0
55	13	2.94	51.9	15.2
50	10	2.91	49.1	14.4
47	8	2.89	47.4	13.9
45	7	2.84	44.7	13.1
40	4	2.70	37.8	11.1
35	2	2.56	31.0	9.1
30	-1	2.61	30.9	9.1
25	-4	2.66	30.8	9.0
20	-7	2.71	30.7	9.0
17	-8	2.74	30.7	9.0
15	-9	2.72	29.6	8.7
10	-12	2.70	26.8	7.9
5	-15	2.52	23.8	7.0
0	-18	2.35	20.9	6.1
-5	-21	2.17	18.0	5.3
-10	-23	1.99	15.1	4.4
-15	-26	1.82	12.1	3.5
-20	-29	1.64	9.2	2.7

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

DOWN-FLOW INDOOR COILS WITH GAS FURNACES

COOLING CAPACITY - 13HPD-048 with [CR33-50/60C-F + G61MPV-60C-110] [CR33-50/60C-F + G71MPP-60C-110]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1405	665	48.0	14.1	3.18	.74	.87	.99	46.5	13.6	3.56	.75	.89	.99	45.0	13.2	4.00	.77	.91	1.00	43.0	12.6	4.51	.78	.93	1.00
	1605	760	49.5	14.5	3.19	.77	.91	1.00	48.0	14.1	3.57	.78	.93	1.00	46.0	13.5	4.01	.80	.95	1.00	44.0	12.9	4.52	.81	.97	1.00
	1790	845	50.0	14.7	3.21	.80	.95	1.00	48.5	14.2	3.58	.81	.96	1.00	47.0	13.8	4.02	.82	.98	1.00	45.0	13.2	4.53	.84	.99	1.00
67°F (19°C)	1405	665	50.5	14.8	3.21	.60	.72	.84	49.0	14.4	3.59	.61	.73	.85	47.5	13.9	4.03	.61	.74	.87	45.5	13.3	4.53	.62	.76	.89
	1605	760	52.0	15.2	3.23	.62	.75	.88	50.5	14.8	3.61	.62	.76	.90	48.5	14.2	4.04	.63	.78	.92	46.5	13.6	4.54	.64	.79	.94
	1790	845	53.0	15.5	3.25	.63	.77	.92	51.5	15.1	3.62	.64	.79	.93	49.5	14.5	4.05	.65	.80	.95	47.5	13.9	4.55	.66	.82	.97
71°F (22°C)	1405	665	53.0	15.5	3.25	.46	.58	.70	51.5	15.1	3.62	.46	.59	.71	49.5	14.5	4.05	.46	.60	.72	48.0	14.1	4.56	.47	.61	.74
	1605	760	54.5	16.0	3.27	.47	.60	.73	53.0	15.5	3.64	.47	.61	.74	51.0	14.9	4.07	.48	.62	.75	49.0	14.4	4.57	.48	.63	.77
	1790	845	55.5	16.3	3.28	.48	.62	.75	54.0	15.8	3.65	.49	.63	.77	52.0	15.2	4.08	.49	.64	.78	50.0	14.7	4.57	.50	.65	.80

COOLING CAPACITY - 13HPD-048 with [CR33-60D-F + G60DFV-60D-135]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1440	680	48.5	14.2	3.18	.75	.88	.99	46.5	13.6	3.56	.76	.89	1.00	45.0	13.2	4.00	.77	.91	1.00	43.0	12.6	4.51	.79	.93	1.00
	1645	775	49.5	14.5	3.20	.77	.92	1.00	48.0	14.1	3.57	.79	.93	1.00	46.0	13.5	4.01	.80	.95	1.00	44.5	13.0	4.52	.82	.97	1.00
	1810	855	50.5	14.8	3.21	.80	.95	1.00	48.5	14.2	3.58	.81	.96	1.00	47.0	13.8	4.02	.83	.98	1.00	45.0	13.2	4.53	.85	.99	1.00
67°F (19°C)	1440	680	51.0	14.9	3.22	.60	.72	.85	49.5	14.5	3.59	.61	.74	.86	47.5	13.9	4.03	.61	.75	.88	45.5	13.3	4.53	.62	.76	.90
	1645	775	52.0	15.2	3.23	.62	.75	.89	50.5	14.8	3.61	.63	.76	.90	48.5	14.2	4.04	.63	.78	.92	46.5	13.6	4.54	.64	.80	.95
	1810	855	53.0	15.5	3.25	.63	.78	.92	51.5	15.1	3.62	.64	.79	.94	49.5	14.5	4.05	.65	.80	.96	47.5	13.9	4.56	.66	.82	.98
71°F (22°C)	1440	680	53.5	15.7	3.25	.46	.59	.70	51.5	15.1	3.62	.46	.59	.71	50.0	14.7	4.06	.47	.60	.73	48.0	14.1	4.56	.47	.61	.74
	1645	775	54.5	16.0	3.27	.47	.61	.73	53.0	15.5	3.64	.47	.61	.74	51.0	14.9	4.07	.48	.62	.76	49.0	14.4	4.57	.48	.63	.77
	1810	855	55.5	16.3	3.28	.48	.62	.75	54.0	15.8	3.65	.49	.63	.77	52.0	15.2	4.08	.49	.64	.78	50.0	14.7	4.58	.49	.65	.80

HEATING CAPACITY - 13HPD-048 with [CR33-50/60C-F + G61MPV-60C-110] [CR33-50/60C-F + G71MPP-60C-110]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1405	665	57.0	16.7	3.12	44.2	13.0	2.96	30.4	8.9	2.78	23.4	6.9	2.64	11.6	3.4	1.93
1605	760	57.6	16.9	3.02	44.9	13.2	2.86	31.0	9.1	2.68	24.0	7.0	2.53	12.2	3.6	1.83
1790	845	58.1	17.0	2.94	45.3	13.3	2.79	31.5	9.2	2.60	24.5	7.2	2.46	12.7	3.7	1.75

HEATING CAPACITY - 13HPD-048 with [CR33-60D-F + G60DFV-60D-135]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1440	680	56.9	16.7	3.09	44.2	13.0	2.94	30.3	8.9	2.76	23.4	6.9	2.62	11.6	3.4	1.92
1645	775	57.4	16.8	2.99	44.6	13.1	2.84	30.8	9.0	2.66	23.8	7.0	2.52	12.1	3.5	1.82
1810	855	57.8	16.9	2.92	45.0	13.2	2.77	31.2	9.1	2.59	24.2	7.1	2.46	12.5	3.7	1.75

HEATING PERFORMANCE at 1605 cfm (760 L/s) Indoor Coil Air Volume 13HPD-048 with [CR33-50/60C-F + G61MPV-60C-110] [CR33-50/60C-F + G71MPP-60C-110]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.02	57.6	16.9
60	16	2.99	54.8	16.1
55	13	2.96	52.1	15.3
50	10	2.93	49.3	14.4
47	8	2.92	47.6	14.0
45	7	2.86	44.9	13.2
40	4	2.72	38.0	11.1
35	2	2.58	31.1	9.1
30	-1	2.63	31.0	9.1
25	-4	2.68	31.0	9.1
20	-7	2.72	30.9	9.1
17	-8	2.75	30.9	9.1
15	-9	2.74	29.8	8.7
10	-12	2.71	27.0	7.9
5	-15	2.53	24.0	7.0
0	-18	2.36	21.1	6.2
-5	-21	2.18	18.1	5.3
-10	-23	2.00	15.2	4.5
-15	-26	1.83	12.2	3.6
-20	-29	1.65	9.3	2.7

HEATING PERFORMANCE at 1645 cfm (775 L/s) Indoor Coil Air Volume 13HPD-048 with [CR33-60D-F + G60DFV-60D-135]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.99	57.4	16.8
60	16	2.96	54.6	16.0
55	13	2.94	51.8	15.2
50	10	2.91	49.1	14.4
47	8	2.89	47.4	13.9
45	7	2.84	44.6	13.1
40	4	2.70	37.8	11.1
35	2	2.56	31.0	9.1
30	-1	2.61	30.9	9.1
25	-4	2.66	30.8	9.0
20	-7	2.71	30.7	9.0
17	-8	2.74	30.7	9.0
15	-9	2.72	29.5	8.6
10	-12	2.70	26.8	7.9
5	-15	2.52	23.8	7.0
0	-18	2.35	20.9	6.1
-5	-21	2.17	18.0	5.3
-10	-23	1.99	15.1	4.4
-15	-26	1.82	12.1	3.5
-20	-29	1.64	9.2	2.7

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

DOWN-FLOW INDOOR COILS WITH GAS FURNACES

COOLING CAPACITY - 13HPD-048 with [CR33-60D-F + G61MPV-60D-135] [CR33-60D-F + G71MPP-60D-135]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1500	710	48.5	14.2	3.18	.75	.89	.99	47.0	13.8	3.57	.77	.90	1.00	45.5	13.3	4.00	.78	.92	1.00	43.5	12.7	4.51	.79	.94	1.00
	1600	755	49.5	14.5	3.20	.77	.91	1.00	47.5	13.9	3.57	.78	.93	1.00	46.0	13.5	4.01	.80	.95	1.00	44.0	12.9	4.52	.81	.97	1.00
	1780	840	50.0	14.7	3.20	.79	.94	1.00	48.5	14.2	3.58	.81	.96	1.00	47.0	13.8	4.02	.82	.98	1.00	45.0	13.2	4.53	.84	.99	1.00
67°F (19°C)	1500	710	51.0	14.9	3.22	.60	.73	.86	49.5	14.5	3.60	.61	.74	.87	48.0	14.1	4.03	.62	.76	.89	46.0	13.5	4.54	.63	.77	.91
	1600	755	52.0	15.2	3.23	.62	.75	.88	50.5	14.8	3.60	.62	.76	.90	48.5	14.2	4.04	.63	.77	.91	46.5	13.6	4.54	.64	.79	.94
	1780	840	53.0	15.5	3.24	.63	.77	.91	51.5	15.1	3.62	.64	.79	.93	49.5	14.5	4.05	.65	.80	.95	47.5	13.9	4.55	.66	.82	.97
71°F (22°C)	1500	710	54.0	15.8	3.26	.46	.59	.71	52.0	15.2	3.63	.47	.60	.72	50.5	14.8	4.06	.47	.60	.73	48.5	14.2	4.56	.47	.62	.75
	1600	755	54.5	16.0	3.27	.47	.60	.73	53.0	15.5	3.64	.47	.61	.74	51.0	14.9	4.07	.48	.62	.75	49.0	14.4	4.56	.48	.63	.77
	1780	840	55.5	16.3	3.28	.48	.62	.75	53.5	15.7	3.65	.48	.63	.76	52.0	15.2	4.08	.49	.64	.78	49.5	14.5	4.57	.49	.65	.80

HEATING CAPACITY - 13HPD-048 with [CR33-60D-F + G61MPV-60D-135] [CR33-60D-F + G71MPP-60D-135]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1500	710	56.9	16.7	3.06	44.2	13.0	2.90	30.3	8.9	2.72	23.4	6.9	2.58	11.7	3.4	1.87
1600	755	57.4	16.8	3.01	44.6	13.1	2.86	30.8	9.0	2.67	23.9	7.0	2.53	12.1	3.5	1.83
1780	840	57.9	17.0	2.94	45.1	13.2	2.79	31.3	9.2	2.60	24.3	7.1	2.46	12.6	3.7	1.76

HEATING PERFORMANCE at 1600 cfm (755 L/s) Indoor Coil Air Volume 13HPD-048 with [CR33-60D-F + G61MPV-60D-135] [CR33-60D-F + G71MPP-60D-135]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.01	57.4	16.8
60	16	2.98	54.6	16.0
55	13	2.96	51.8	15.2
50	10	2.93	49.1	14.4
47	8	2.91	47.4	13.9
45	7	2.86	44.6	13.1
40	4	2.72	37.8	11.1
35	2	2.58	31.0	9.1
30	-1	2.63	30.9	9.1
25	-4	2.67	30.8	9.0
20	-7	2.72	30.7	9.0
17	-8	2.75	30.7	9.0
15	-9	2.74	29.6	8.7
10	-12	2.71	26.8	7.9
5	-15	2.53	23.9	7.0
0	-18	2.36	20.9	6.1
-5	-21	2.18	18.0	5.3
-10	-23	2.00	15.1	4.4
-15	-26	1.83	12.1	3.5
-20	-29	1.65	9.2	2.7

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HORIZONTAL INDOOR COILS WITH GAS FURNACES

COOLING CAPACITY - 13HPD-048 with [CH23-68 + G60UHV-60D-135]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1370	645	49.5	14.5	3.19	.73	.86	.98	47.5	13.9	3.57	.74	.87	.99	46.0	13.5	4.01	.75	.89	1.00	44.0	12.9	4.52	.77	.91	1.00
	1575	745	51.0	14.9	3.22	.76	.90	1.00	49.0	14.4	3.59	.77	.92	1.00	47.5	13.9	4.02	.79	.93	1.00	45.5	13.3	4.53	.80	.96	1.00
	1745	825	52.0	15.2	3.23	.78	.93	1.00	50.0	14.7	3.60	.80	.95	1.00	48.5	14.2	4.04	.82	.97	1.00	46.5	13.6	4.54	.83	.99	1.00
67°F (19°C)	1370	645	52.0	15.2	3.23	.59	.71	.83	50.5	14.8	3.60	.60	.72	.84	48.5	14.2	4.04	.60	.73	.86	46.5	13.6	4.54	.61	.75	.88
	1575	745	53.5	15.7	3.25	.61	.74	.87	52.0	15.2	3.62	.62	.75	.89	50.0	14.7	4.06	.62	.77	.91	48.0	14.1	4.56	.63	.78	.93
	1745	825	54.5	16.0	3.27	.62	.76	.91	53.0	15.5	3.64	.63	.78	.92	51.0	14.9	4.07	.64	.79	.94	48.5	14.2	4.57	.65	.81	.96
71°F (22°C)	1370	645	55.0	16.1	3.28	.45	.57	.69	53.5	15.7	3.65	.45	.58	.70	51.5	15.1	4.07	.45	.59	.71	49.5	14.5	4.58	.46	.60	.72
	1575	745	56.5	16.6	3.30	.47	.59	.72	54.5	16.0	3.67	.46	.60	.73	52.5	15.4	4.09	.47	.61	.74	50.5	14.8	4.59	.47	.62	.76
	1745	825	57.5	16.9	3.31	.47	.61	.74	55.5	16.3	3.68	.47	.62	.76	53.5	15.7	4.11	.48	.63	.77	51.5	15.1	4.60	.48	.64	.79

COOLING CAPACITY - 13HPD-048 with [CH23-68 + G61MPV-60D-135] [CH23-68 + G71MPP-60D-135]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1500	710	50.5	14.8	3.21	.75	.89	1.00	48.5	14.2	3.58	.76	.90	1.00	47.0	13.8	4.02	.78	.92	1.00	45.0	13.2	4.53	.79	.94	1.00
	1600	755	51.0	14.9	3.22	.77	.91	1.00	49.5	14.5	3.59	.78	.92	1.00	47.5	13.9	4.03	.79	.94	1.00	45.5	13.3	4.53	.81	.96	1.00
	1780	840	52.0	15.2	3.24	.79	.94	1.00	50.5	14.8	3.61	.81	.96	1.00	48.5	14.2	4.04	.82	.98	1.00	46.5	13.6	4.54	.84	.99	1.00
67°F (19°C)	1500	710	53.0	15.5	3.25	.60	.73	.86	51.5	15.1	3.62	.61	.74	.87	49.5	14.5	4.05	.61	.75	.89	47.5	13.9	4.55	.63	.77	.91
	1600	755	53.5	15.7	3.26	.61	.75	.88	52.0	15.2	3.62	.62	.76	.89	50.0	14.7	4.06	.63	.77	.91	48.0	14.1	4.56	.64	.79	.93
	1780	840	54.5	16.0	3.27	.63	.77	.91	53.0	15.5	3.64	.63	.79	.93	51.0	14.9	4.07	.65	.80	.95	49.0	14.4	4.57	.66	.82	.97
71°F (22°C)	1500	710	56.0	16.4	3.29	.46	.58	.71	54.0	15.8	3.66	.46	.59	.72	52.5	15.4	4.09	.47	.60	.73	50.0	14.7	4.58	.47	.61	.75
	1600	755	56.5	16.6	3.30	.46	.60	.72	55.0	16.1	3.67	.47	.61	.74	53.0	15.5	4.10	.47	.61	.75	51.0	14.9	4.59	.48	.62	.77
	1780	840	57.5	16.9	3.32	.48	.62	.75	56.0	16.4	3.68	.48	.62	.76	54.0	15.8	4.11	.48	.63	.78	51.5	15.1	4.61	.48	.65	.80

HEATING CAPACITY - 13HPD-048 with [CH23-68 + G60UHV-60D-135]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1370	645	56.9	16.7	2.98	44.1	12.9	2.85	30.2	8.9	2.68	23.2	6.8	2.56	11.6	3.4	1.87
1575	745	57.3	16.8	2.87	44.5	13.0	2.73	30.7	9.0	2.57	23.7	6.9	2.45	12.1	3.5	1.76
1745	825	57.8	16.9	2.80	45.0	13.2	2.67	31.1	9.1	2.50	24.1	7.1	2.38	12.5	3.7	1.70

HEATING CAPACITY - 13HPD-048 with [CH23-68 + G61MPV-60D-135] [CH23-68 + G71MPP-60D-135]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1500	710	57.2	16.8	2.90	44.3	13.0	2.77	30.4	8.9	2.61	23.4	6.9	2.49	11.7	3.4	1.80
1600	755	57.6	16.9	2.86	44.8	13.1	2.73	30.8	9.0	2.56	23.8	7.0	2.44	12.1	3.5	1.76
1780	840	58.1	17.0	2.79	45.3	13.3	2.66	31.3	9.2	2.50	24.3	7.1	2.37	12.6	3.7	1.69

HEATING PERFORMANCE at 1575 cfm (745 L/s) Indoor Coil Air Volume 13HPD-048 with [CH23-68 + G60UHV-60D-135]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.87	57.3	16.8
60	16	2.85	54.6	16.0
55	13	2.82	51.8	15.2
50	10	2.80	49.0	14.4
47	8	2.79	47.3	13.9
45	7	2.73	44.5	13.0
40	4	2.60	37.7	11.0
35	2	2.47	30.9	9.1
30	-1	2.52	30.8	9.0
25	-4	2.57	30.7	9.0
20	-7	2.62	30.6	9.0
17	-8	2.65	30.5	8.9
15	-9	2.64	29.4	8.6
10	-12	2.62	26.6	7.8
5	-15	2.45	23.7	6.9
0	-18	2.28	20.8	6.1
-5	-21	2.10	17.9	5.2
-10	-23	1.93	15.0	4.4
-15	-26	1.76	12.1	3.5
-20	-29	1.59	9.2	2.7

HEATING PERFORMANCE at 1600 cfm (755 L/s) Indoor Coil Air Volume 13HPD-048 with [CH23-68 + G61MPV-60D-135] [CH23-68 + G71MPP-60D-135]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.86	57.6	16.9
60	16	2.84	54.8	16.1
55	13	2.81	52.0	15.2
50	10	2.79	49.2	14.4
47	8	2.78	47.5	13.9
45	7	2.73	44.8	13.1
40	4	2.59	37.9	11.1
35	2	2.46	31.0	9.1
30	-1	2.51	30.9	9.1
25	-4	2.56	30.8	9.0
20	-7	2.61	30.8	9.0
17	-8	2.64	30.7	9.0
15	-9	2.63	29.6	8.7
10	-12	2.61	26.8	7.9
5	-15	2.44	23.8	7.0
0	-18	2.27	20.9	6.1
-5	-21	2.10	18.0	5.3
-10	-23	1.93	15.1	4.4
-15	-26	1.76	12.1	3.5
-20	-29	1.59	9.2	2.7

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HORIZONTAL INDOOR COILS WITH GAS FURNACES

COOLING CAPACITY - 13HPD-048 with [CH33-50/60C-2F + G60UHV-60C-090]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1460	690	50.0	14.7	3.20	.74	.87	.99	48.0	14.1	3.57	.75	.89	1.00	46.5	13.6	4.01	.76	.90	1.00	44.5	13.0	4.53	.78	.92	1.00
	1635	770	51.0	14.9	3.22	.76	.90	1.00	49.5	14.5	3.59	.77	.92	1.00	47.5	13.9	4.02	.79	.94	1.00	45.5	13.3	4.53	.81	.96	1.00
	1845	870	52.0	15.2	3.23	.79	.94	1.00	50.5	14.8	3.61	.81	.96	1.00	48.5	14.2	4.04	.82	.98	1.00	46.5	13.6	4.54	.84	1.00	1.00
67°F (19°C)	1460	690	52.5	15.4	3.24	.60	.72	.84	51.0	14.9	3.61	.60	.73	.85	49.0	14.4	4.05	.61	.74	.87	47.0	13.8	4.55	.62	.76	.89
	1635	770	53.5	15.7	3.26	.61	.74	.87	52.0	15.2	3.63	.62	.75	.89	50.0	14.7	4.05	.62	.77	.91	48.0	14.1	4.56	.64	.79	.93
	1845	870	55.0	16.1	3.27	.63	.77	.91	53.0	15.5	3.64	.64	.78	.93	51.0	14.9	4.07	.65	.80	.95	49.0	14.4	4.57	.66	.82	.97
71°F (22°C)	1460	690	55.0	16.1	3.28	.46	.58	.70	53.5	15.7	3.65	.46	.59	.71	51.5	15.1	4.07	.47	.59	.72	49.5	14.5	4.57	.47	.60	.73
	1635	770	56.5	16.6	3.30	.47	.60	.72	54.5	16.0	3.66	.47	.61	.73	52.5	15.4	4.09	.47	.61	.75	50.5	14.8	4.59	.48	.62	.76
	1845	870	57.5	16.9	3.32	.48	.62	.75	55.5	16.3	3.68	.48	.62	.76	53.5	15.7	4.11	.49	.64	.77	51.5	15.1	4.60	.49	.65	.80

COOLING CAPACITY - 13HPD-048 with [CH33-50/60C-2F + G60UHV-60C-110]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1395	660	49.5	14.5	3.19	.74	.86	.98	48.0	14.1	3.57	.75	.87	.99	46.0	13.5	4.01	.76	.89	1.00	44.0	12.9	4.53	.77	.91	1.00
	1600	755	51.0	14.9	3.21	.77	.90	1.00	49.0	14.4	3.59	.77	.91	1.00	47.5	13.9	4.02	.78	.93	1.00	45.5	13.3	4.53	.80	.95	1.00
	1780	840	52.0	15.2	3.23	.78	.93	1.00	50.0	14.7	3.60	.80	.95	1.00	48.0	14.1	4.04	.81	.97	1.00	46.5	13.6	4.54	.83	.99	1.00
67°F (19°C)	1395	660	52.0	15.2	3.23	.59	.71	.83	50.5	14.8	3.61	.60	.72	.84	48.5	14.2	4.04	.61	.74	.86	46.5	13.6	4.54	.61	.74	.88
	1600	755	53.5	15.7	3.26	.61	.74	.87	51.5	15.1	3.62	.61	.75	.88	50.0	14.7	4.05	.62	.76	.90	47.5	13.9	4.55	.63	.78	.92
	1780	840	54.5	16.0	3.27	.62	.76	.90	52.5	15.4	3.64	.63	.78	.92	51.0	14.9	4.07	.64	.79	.94	48.5	14.2	4.56	.65	.81	.96
71°F (22°C)	1395	660	54.5	16.0	3.27	.46	.58	.69	53.0	15.5	3.64	.46	.58	.70	51.0	14.9	4.07	.47	.59	.71	49.0	14.4	4.56	.47	.60	.72
	1600	755	56.0	16.4	3.29	.47	.60	.72	54.5	16.0	3.66	.47	.60	.73	52.5	15.4	4.09	.47	.61	.74	50.5	14.8	4.59	.48	.62	.76
	1780	840	57.0	16.7	3.31	.48	.61	.74	55.5	16.3	3.68	.48	.62	.76	53.5	15.7	4.10	.48	.63	.77	51.0	14.9	4.60	.49	.64	.79

HEATING CAPACITY - 13HPD-048 with [CH33-50/60C-2F + G60UHV-60C-090]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1460	690	56.8	16.6	3.34	44.2	13.0	3.22	30.5	8.9	3.06	23.7	6.9	2.92	11.8	3.5	2.13
1635	770	57.2	16.8	3.22	44.7	13.1	3.09	31.0	9.1	2.93	24.2	7.1	2.79	12.3	3.6	2.01
1845	870	57.8	16.9	3.12	45.2	13.2	3.00	31.5	9.2	2.84	24.7	7.2	2.70	12.8	3.8	1.91

HEATING CAPACITY - 13HPD-048 with [CH33-50/60C-2F + G60UHV-60C-110]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1395	660	56.7	16.6	3.40	44.2	13.0	3.26	30.5	8.9	3.08	23.8	7.0	2.94	11.8	3.5	2.15
1600	755	57.2	16.8	3.27	44.6	13.1	3.13	31.0	9.1	2.95	24.2	7.1	2.80	12.3	3.6	2.02
1780	840	57.7	16.9	3.16	45.1	13.2	3.02	31.5	9.2	2.84	24.7	7.2	2.70	12.8	3.8	1.91

HEATING PERFORMANCE at 1635 cfm (770 L/s) Indoor Coil Air Volume 13HPD-048 with [CH33-50/60C-2F + G60UHV-60C-090]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.22	57.2	16.8
60	16	3.20	54.5	16.0
55	13	3.18	51.8	15.2
50	10	3.16	49.0	14.4
47	8	3.15	47.4	13.9
45	7	3.09	44.7	13.1
40	4	2.96	37.8	11.1
35	2	2.83	31.0	9.1
30	-1	2.88	31.0	9.1
25	-4	2.93	31.0	9.1
20	-7	2.99	31.0	9.1
17	-8	3.02	31.0	9.1
15	-9	3.01	29.9	8.8
10	-12	2.99	27.2	8.0
5	-15	2.79	24.2	7.1
0	-18	2.60	21.2	6.2
-5	-21	2.40	18.2	5.3
-10	-23	2.21	15.3	4.5
-15	-26	2.01	12.3	3.6
-20	-29	1.81	9.3	2.7

HEATING PERFORMANCE at 1600 cfm (755 L/s) Indoor Coil Air Volume 13HPD-048 with [CH33-50/60C-2F + G60UHV-60C-110]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.27	57.2	16.8
60	16	3.24	54.4	15.9
55	13	3.22	51.7	15.2
50	10	3.20	49.0	14.4
47	8	3.18	47.4	13.9
45	7	3.13	44.6	13.1
40	4	2.98	37.8	11.1
35	2	2.84	30.9	9.1
30	-1	2.90	31.0	9.1
25	-4	2.95	31.0	9.1
20	-7	3.00	31.0	9.1
17	-8	3.04	31.0	9.1
15	-9	3.03	29.9	8.8
10	-12	3.00	27.2	8.0
5	-15	2.80	24.2	7.1
0	-18	2.61	21.2	6.2
-5	-21	2.41	18.3	5.4
-10	-23	2.22	15.3	4.5
-15	-26	2.02	12.3	3.6
-20	-29	1.82	9.3	2.7

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HORIZONTAL INDOOR COILS WITH GAS FURNACES

COOLING CAPACITY - 13HPD-048 with [CH33-50/60C-2F + G61MPV-60C-090] [CH33-50/60C-2F + G71MPP-60C-090]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1380	650	49.5	14.5	3.20	.74	.86	.98	47.5	13.9	3.57	.74	.87	.99	46.0	13.5	4.01	.76	.89	1.00	44.0	12.9	4.52	.77	.91	1.00
	1605	760	51.0	14.9	3.22	.77	.90	1.00	49.5	14.5	3.59	.77	.92	1.00	47.5	13.9	4.02	.79	.94	1.00	45.5	13.3	4.53	.81	.96	1.00
	1755	830	52.0	15.2	3.23	.78	.93	1.00	50.0	14.7	3.60	.80	.94	1.00	48.0	14.1	4.04	.81	.97	1.00	46.0	13.5	4.54	.83	.99	1.00
67°F (19°C)	1380	650	52.0	15.2	3.23	.59	.71	.83	50.5	14.8	3.60	.60	.72	.84	48.5	14.2	4.04	.61	.73	.86	46.5	13.6	4.54	.61	.75	.87
	1605	760	53.5	15.7	3.25	.61	.74	.87	51.5	15.1	3.62	.62	.75	.88	50.0	14.7	4.05	.62	.76	.90	48.0	14.1	4.56	.64	.78	.92
	1755	830	54.5	16.0	3.27	.63	.76	.90	52.5	15.4	3.64	.63	.77	.92	50.5	14.8	4.06	.64	.79	.93	48.5	14.2	4.56	.65	.81	.96
71°F (22°C)	1380	650	54.5	16.0	3.27	.46	.57	.69	53.0	15.5	3.64	.46	.58	.70	51.0	14.9	4.07	.47	.59	.71	49.0	14.4	4.56	.47	.60	.72
	1605	760	56.0	16.4	3.30	.47	.60	.72	54.5	16.0	3.66	.47	.60	.73	52.5	15.4	4.09	.47	.61	.74	50.5	14.8	4.59	.48	.62	.76
	1755	830	57.0	16.7	3.31	.48	.62	.74	55.0	16.1	3.67	.48	.62	.75	53.5	15.7	4.10	.49	.63	.77	51.0	14.9	4.60	.49	.64	.78

COOLING CAPACITY - 13HPD-048 with [CH33-50/60C-2F + G61MPV-60C-110] [CH33-50/60C-2F + G71MPP-60C-110]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1405	665	49.5	14.5	3.20	.74	.86	.98	48.0	14.1	3.57	.74	.88	1.00	46.0	13.5	4.01	.76	.89	1.00	44.0	12.9	4.52	.77	.91	1.00
	1605	760	51.0	14.9	3.22	.77	.90	1.00	49.5	14.5	3.59	.77	.92	1.00	47.5	13.9	4.02	.79	.94	1.00	45.5	13.3	4.53	.81	.96	1.00
	1790	845	52.0	15.2	3.23	.78	.93	1.00	50.5	14.8	3.61	.80	.95	1.00	48.5	14.2	4.04	.82	.97	1.00	46.5	13.6	4.54	.83	.99	1.00
67°F (19°C)	1405	665	52.0	15.2	3.23	.59	.71	.83	50.5	14.8	3.60	.60	.72	.85	48.5	14.2	4.04	.61	.74	.86	46.5	13.6	4.55	.61	.75	.88
	1605	760	53.5	15.7	3.25	.61	.74	.87	51.5	15.1	3.62	.62	.75	.88	50.0	14.7	4.05	.62	.76	.90	48.0	14.1	4.56	.64	.78	.92
	1790	845	54.5	16.0	3.27	.63	.76	.90	53.0	15.5	3.64	.63	.78	.92	51.0	14.9	4.07	.64	.79	.94	48.5	14.2	4.56	.65	.81	.96
71°F (22°C)	1405	665	54.5	16.0	3.27	.46	.58	.69	53.0	15.5	3.64	.46	.58	.70	51.0	14.9	4.07	.47	.59	.71	49.0	14.4	4.56	.47	.60	.72
	1605	760	56.0	16.4	3.30	.47	.60	.72	54.5	16.0	3.66	.47	.60	.73	52.5	15.4	4.09	.47	.61	.74	50.5	14.8	4.59	.48	.62	.76
	1790	845	57.5	16.9	3.31	.48	.61	.74	55.5	16.3	3.68	.48	.62	.76	53.5	15.7	4.11	.49	.63	.77	51.5	15.1	4.60	.49	.64	.79

HEATING CAPACITY - 13HPD-048 with [CH33-50/60C-2F + G61MPV-60C-090] [CH33-50/60C-2F + G61MPV-60C-090]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1380	650	56.8	16.6	3.42	44.2	13.0	3.28	30.6	9.0	3.10	23.8	7.0	2.96	11.8	3.5	2.17
1605	760	57.3	16.8	3.27	44.8	13.1	3.12	31.1	9.1	2.95	24.4	7.2	2.81	12.4	3.6	2.02
1755	830	57.8	16.9	3.18	45.3	13.3	3.04	31.6	9.3	2.86	24.9	7.3	2.72	12.9	3.8	1.93

HEATING CAPACITY - 13HPD-048 with [CH33-50/60C-2F + G61MPV-60C-110][CH33-50/60C-2F + G71MPP-60C-110]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1405	665	56.8	16.6	3.39	44.2	13.0	3.26	30.5	8.9	3.10	23.8	7.0	2.96	11.8	3.5	2.17
1605	760	57.4	16.8	3.24	44.8	13.1	3.11	31.1	9.1	2.95	24.3	7.1	2.81	12.4	3.6	2.02
1790	845	57.9	17.0	3.15	45.3	13.3	3.02	31.6	9.3	2.86	24.8	7.3	2.72	12.8	3.8	1.93

HEATING PERFORMANCE at 1605 cfm (760 L/s) Indoor Coil Air Volume 13HPD-048 with [CH33-50/60C-2F + G61MPV-60C-090] [CH33-50/60C-2F + G71MPP-60C-090]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.27	57.3	16.8
60	16	3.24	54.6	16.0
55	13	3.22	51.9	15.2
50	10	3.19	49.2	14.4
47	8	3.18	47.5	13.9
45	7	3.12	44.8	13.1
40	4	2.98	37.9	11.1
35	2	2.84	31.1	9.1
30	-1	2.90	31.1	9.1
25	-4	2.95	31.1	9.1
20	-7	3.00	31.2	9.1
17	-8	3.04	31.2	9.1
15	-9	3.03	30.1	8.8
10	-12	3.00	27.4	8.0
5	-15	2.81	24.4	7.2
0	-18	2.61	21.4	6.3
-5	-21	2.41	18.4	5.4
-10	-23	2.22	15.4	4.5
-15	-26	2.02	12.4	3.6
-20	-29	1.82	9.4	2.8

HEATING PERFORMANCE at 1605 cfm (760 L/s) Indoor Coil Air Volume 13HPD-048 with [CH33-50/60C-2F + G61MPV-60C-110] [CH33-50/60C-2F + G71MPP-60C-110]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.24	57.4	16.8
60	16	3.22	54.7	16.0
55	13	3.20	51.9	15.2
50	10	3.18	49.2	14.4
47	8	3.16	47.6	14.0
45	7	3.11	44.8	13.1
40	4	2.98	37.9	11.1
35	2	2.84	31.1	9.1
30	-1	2.90	31.1	9.1
25	-4	2.95	31.1	9.1
20	-7	3.00	31.2	9.1
17	-8	3.04	31.2	9.1
15	-9	3.03	30.1	8.8
10	-12	3.01	27.3	8.0
5	-15	2.81	24.3	7.1
0	-18	2.61	21.3	6.2
-5	-21	2.41	18.3	5.4
-10	-23	2.22	15.3	4.5
-15	-26	2.02	12.4	3.6
-20	-29	1.82	9.4	2.8

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HORIZONTAL INDOOR COILS WITH GAS FURNACES

COOLING CAPACITY - 13HPD-048 with [CH33-60D-2F + G60UHV-60D-135]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1370	645	48.5	14.2	3.18	.73	.85	.97	47.0	13.8	3.56	.74	.86	.98	45.5	13.3	4.00	.75	.88	1.00	43.5	12.7	4.52	.76	.89	1.00
	1575	745	50.0	14.7	3.21	.75	.88	1.00	48.5	14.2	3.58	.76	.90	1.00	47.0	13.8	4.02	.77	.92	1.00	45.0	13.2	4.52	.79	.94	1.00
	1745	825	51.0	14.9	3.22	.77	.91	1.00	49.5	14.5	3.59	.78	.93	1.00	47.5	13.9	4.03	.80	.95	1.00	45.5	13.3	4.53	.82	.97	1.00
67°F (19°C)	1370	645	51.5	15.1	3.22	.59	.70	.82	49.5	14.5	3.60	.59	.71	.83	48.0	14.1	4.03	.60	.72	.85	46.0	13.5	4.53	.60	.74	.86
	1575	745	53.0	15.5	3.24	.60	.73	.86	51.0	14.9	3.62	.61	.74	.87	49.0	14.4	4.04	.62	.75	.88	47.0	13.8	4.55	.62	.77	.91
	1745	825	53.5	15.7	3.26	.61	.75	.88	52.0	15.2	3.62	.62	.76	.90	50.0	14.7	4.06	.63	.78	.92	48.0	14.1	4.56	.64	.79	.94
71°F (22°C)	1370	645	54.0	15.8	3.26	.46	.57	.68	52.0	15.2	3.63	.46	.58	.69	50.5	14.8	4.06	.46	.58	.70	48.5	14.2	4.56	.47	.59	.71
	1575	745	55.5	16.3	3.28	.46	.59	.71	53.5	15.7	3.65	.47	.60	.72	51.5	15.1	4.08	.47	.60	.73	49.5	14.5	4.58	.47	.61	.74
	1745	825	56.5	16.6	3.30	.47	.61	.73	54.5	16.0	3.66	.48	.61	.74	52.5	15.4	4.09	.48	.62	.76	50.5	14.8	4.59	.48	.63	.77

COOLING CAPACITY - 13HPD-048 with [CH33-60D-2F + G61MPV-60D-135] [CH33-60D-2F + G71MPP-60D-135]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1500	710	49.5	14.5	3.20	.74	.87	.99	48.0	14.1	3.57	.75	.89	1.00	46.5	13.6	4.01	.76	.90	1.00	44.5	13.0	4.53	.78	.92	1.00
	1600	755	50.5	14.8	3.21	.76	.89	1.00	48.5	14.2	3.58	.77	.90	1.00	47.0	13.8	4.02	.78	.92	1.00	45.0	13.2	4.52	.79	.95	1.00
	1780	840	51.5	15.1	3.23	.78	.92	1.00	49.5	14.5	3.60	.79	.94	1.00	48.0	14.1	4.03	.81	.96	1.00	46.0	13.5	4.53	.82	.98	1.00
67°F (19°C)	1500	710	52.5	15.4	3.24	.60	.72	.84	50.5	14.8	3.61	.60	.73	.85	49.0	14.4	4.04	.61	.75	.87	46.5	13.6	4.54	.62	.75	.89
	1600	755	53.0	15.5	3.24	.61	.74	.86	51.5	15.1	3.62	.61	.75	.88	49.5	14.5	4.05	.62	.75	.89	47.5	13.9	4.55	.63	.77	.91
	1780	840	54.0	15.8	3.26	.62	.76	.89	52.0	15.2	3.63	.63	.77	.91	50.5	14.8	4.06	.64	.78	.93	48.0	14.1	4.56	.65	.80	.95
71°F (22°C)	1500	710	55.0	16.1	3.27	.46	.58	.70	53.0	15.5	3.65	.46	.59	.71	51.5	15.1	4.07	.47	.59	.72	49.0	14.4	4.57	.47	.60	.73
	1600	755	55.5	16.3	3.29	.47	.59	.71	54.0	15.8	3.65	.47	.60	.72	52.0	15.2	4.08	.47	.60	.73	50.0	14.7	4.58	.48	.61	.75
	1780	840	56.5	16.6	3.30	.48	.61	.74	55.0	16.1	3.67	.48	.62	.75	53.0	15.5	4.10	.48	.62	.76	51.0	14.9	4.60	.49	.64	.78

HEATING CAPACITY - 13HPD-048 with [CH33-60D-2F + G60UHV-60D-135]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1370	645	56.3	16.5	3.43	43.8	12.8	3.29	30.2	8.9	3.11	23.5	6.9	2.97	11.7	3.4	2.18
1575	745	56.7	16.6	3.27	44.2	13.0	3.13	30.6	9.0	2.95	23.9	7.0	2.81	12.1	3.5	2.02
1745	825	57.1	16.7	3.18	44.6	13.1	3.04	31.1	9.1	2.87	24.4	7.2	2.72	12.6	3.7	1.93

HEATING CAPACITY - 13HPD-048 with [CH33-60D-2F + G61MPV-60D-135] [CH33-60D-2F + G71MPP-60D-135]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1500	710	56.5	16.6	3.33	44.0	12.9	3.19	30.4	8.9	3.02	23.7	6.9	2.87	11.8	3.5	2.09
1600	755	56.9	16.7	3.26	44.4	13.0	3.12	30.8	9.0	2.95	24.1	7.1	2.80	12.2	3.6	2.01
1780	840	57.4	16.8	3.17	44.9	13.2	3.03	31.3	9.2	2.86	24.6	7.2	2.71	12.7	3.7	1.93

HEATING PERFORMANCE at 1575 cfm (745 L/s) Indoor Coil Air Volume 13HPD-048 with [CH33-60D-2F + G60UHV-60D-135]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.27	56.7	16.6
60	16	3.25	54.0	15.8
55	13	3.22	51.3	15.0
50	10	3.20	48.5	14.2
47	8	3.18	46.9	13.7
45	7	3.13	44.2	13.0
40	4	2.99	37.4	11.0
35	2	2.85	30.6	9.0
30	-1	2.90	30.6	9.0
25	-4	2.95	30.6	9.0
20	-7	3.01	30.7	9.0
17	-8	3.04	30.7	9.0
15	-9	3.03	29.6	8.7
10	-12	3.00	26.9	7.9
5	-15	2.81	23.9	7.0
0	-18	2.61	21.0	6.2
-5	-21	2.41	18.0	5.3
-10	-23	2.22	15.1	4.4
-15	-26	2.02	12.1	3.5
-20	-29	1.82	9.2	2.7

HEATING PERFORMANCE at 1600 cfm (755 L/s) Indoor Coil Air Volume 13HPD-048 with [CH33-60D-2F + G61MPV-60D-135] [CH33-60D-2F + G71MPP-60D-135]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.26	56.9	16.7
60	16	3.23	54.2	15.9
55	13	3.21	51.5	15.1
50	10	3.19	48.8	14.3
47	8	3.17	47.2	13.8
45	7	3.12	44.4	13.0
40	4	2.98	37.6	11.0
35	2	2.84	30.8	9.0
30	-1	2.89	30.8	9.0
25	-4	2.95	30.8	9.0
20	-7	3.00	30.8	9.0
17	-8	3.03	30.8	9.0
15	-9	3.02	29.8	8.7
10	-12	3.00	27.0	7.9
5	-15	2.80	24.1	7.1
0	-18	2.60	21.1	6.2
-5	-21	2.41	18.1	5.3
-10	-23	2.21	15.2	4.5
-15	-26	2.01	12.2	3.6
-20	-29	1.82	9.3	2.7

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

AIR HANDLERS

COOLING CAPACITY - 13HPD-060 with [CB26UH-060-R]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1835	865	59.0	17.3	3.68	.76	.90	1.00	56.5	16.6	4.13	.78	.92	1.00	54.5	16.0	4.64	.79	.94	1.00	52.0	15.2	5.22	.80	.96	1.00
67°F (19°C)	1835	865	62.5	18.3	3.72	.60	.74	.87	60.0	17.6	4.17	.61	.75	.89	58.0	17.0	4.68	.61	.76	.91	55.5	16.3	5.26	.62	.78	.93
71°F (22°C)	1835	865	66.0	19.3	3.76	.46	.59	.71	63.5	18.6	4.22	.46	.60	.73	61.0	17.9	4.72	.47	.60	.74	58.5	17.1	5.30	.47	.61	.75

COOLING CAPACITY - 13HPD-060 with [CB27UH-060]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1600	755	55.0	16.1	3.63	.74	.87	.98	53.5	15.7	4.09	.75	.88	.99	51.5	15.1	4.61	.76	.90	1.00	49.5	14.5	5.19	.78	.92	1.00
	1800	850	56.5	16.6	3.65	.76	.90	1.00	55.0	16.1	4.11	.77	.92	1.00	53.0	15.5	4.62	.79	.93	1.00	51.0	14.9	5.21	.80	.95	1.00
	1940	915	57.5	16.9	3.66	.78	.92	1.00	56.0	16.4	4.12	.79	.94	1.00	54.0	15.8	4.64	.80	.95	1.00	51.5	15.1	5.22	.82	.97	1.00
67°F (19°C)	1600	755	58.5	17.1	3.67	.60	.72	.84	56.5	16.6	4.13	.60	.73	.85	54.5	16.0	4.64	.61	.74	.87	52.5	15.4	5.22	.62	.75	.89
	1800	850	60.0	17.6	3.69	.61	.74	.87	58.0	17.0	4.15	.62	.75	.88	56.0	16.4	4.66	.62	.77	.90	53.5	15.7	5.24	.63	.78	.92
	1940	915	61.0	17.9	3.70	.62	.76	.89	59.0	17.3	4.16	.63	.77	.91	56.5	16.6	4.67	.63	.78	.93	54.5	16.0	5.25	.64	.80	.95
71°F (22°C)	1600	755	61.5	18.0	3.71	.46	.58	.70	59.5	17.4	4.17	.46	.59	.71	57.5	16.9	4.68	.46	.60	.72	55.0	16.1	5.26	.46	.60	.73
	1800	850	63.0	18.5	3.73	.46	.60	.72	61.0	17.9	4.18	.47	.60	.73	59.0	17.3	4.70	.47	.61	.74	56.5	16.6	5.27	.47	.62	.76
	1940	915	64.0	18.8	3.74	.47	.61	.74	62.0	18.2	4.20	.47	.61	.75	60.0	17.6	4.71	.47	.62	.76	57.5	16.9	5.28	.48	.63	.78

HEATING CAPACITY - 13HPD-060 with [CB26UH-060-R]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1835	865	67.3	19.7	4.26	52.9	15.5	3.89	37.5	11.0	3.51	28.2	8.3	3.08	14.6	4.3	2.26

HEATING CAPACITY - 13HPD-060 with [CB27UH-060]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1600	755	67.3	19.7	4.19	52.7	15.4	3.85	37.2	10.9	3.50	27.8	8.1	3.14	14.2	4.2	2.33
1800	850	67.1	19.7	4.04	52.6	15.4	3.71	37.1	10.9	3.36	27.7	8.1	3.00	14.1	4.1	2.19
1940	915	68.7	20.1	3.97	54.2	15.9	3.63	38.7	11.3	3.28	29.3	8.6	2.92	15.7	4.6	2.11

HEATING PERFORMANCE at 1835 cfm (865 L/s) Indoor Coil Air Volume 13HPD-060 with [CB26UH-060-R]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	4.26	66.9	19.6
60	16	4.17	63.6	18.6
55	13	4.08	60.4	17.7
50	10	3.99	57.1	16.7
47	8	3.94	55.2	16.2
45	7	3.89	52.4	15.4
40	4	3.76	45.6	13.4
35	2	3.63	38.8	11.4
30	-1	3.57	38.0	11.1
25	-4	3.51	37.1	10.9
20	-7	3.45	36.2	10.6
17	-8	3.41	35.7	10.5
15	-9	3.38	34.4	10.1
10	-12	3.29	31.1	9.1
5	-15	3.08	27.7	8.1
0	-18	2.88	24.3	7.1
-5	-21	2.67	20.9	6.1
-10	-23	2.46	17.5	5.1
-15	-26	2.26	14.1	4.1
-20	-29	2.05	10.7	3.1

HEATING PERFORMANCE at 1800 cfm (850 L/s) Indoor Coil Air Volume 13HPD-060 with [CB27UH-060]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	4.04	67.1	19.7
60	16	3.97	63.9	18.7
55	13	3.89	60.6	17.8
50	10	3.81	57.3	16.8
47	8	3.77	55.3	16.2
45	7	3.71	52.6	15.4
40	4	3.56	45.7	13.4
35	2	3.42	38.9	11.4
30	-1	3.39	38.0	11.1
25	-4	3.36	37.1	10.9
20	-7	3.32	36.2	10.6
17	-8	3.31	35.6	10.4
15	-9	3.28	34.3	10.1
10	-12	3.20	31.0	9.1
5	-15	3.00	27.7	8.1
0	-18	2.79	24.3	7.1
-5	-21	2.59	20.9	6.1
-10	-23	2.39	17.5	5.1
-15	-26	2.19	14.1	4.1
-20	-29	1.98	10.7	3.1

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

AIR HANDLERS

COOLING CAPACITY - 13HPD-060 with [CB30M-65]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1515	715	56.0	16.4	3.64	.73	.86	.97	54.5	16.0	4.10	.74	.87	.99	52.0	15.2	4.62	.75	.89	1.00	50.0	14.7	5.20	.76	.91	1.00
	1725	815	58.0	17.0	3.67	.75	.89	1.00	56.0	16.4	4.12	.77	.91	1.00	53.5	15.7	4.63	.78	.93	1.00	51.5	15.1	5.21	.79	.95	1.00
67°F (19°C)	1515	715	59.5	17.4	3.68	.58	.71	.82	57.0	16.7	4.13	.59	.72	.84	55.0	16.1	4.65	.60	.73	.85	53.0	15.5	5.23	.60	.74	.87
	1725	815	61.0	17.9	3.71	.60	.73	.86	59.0	17.3	4.16	.60	.74	.87	56.5	16.6	4.67	.61	.75	.89	54.0	15.8	5.25	.62	.77	.91
71°F (22°C)	1515	715	62.5	18.3	3.72	.45	.57	.68	60.5	17.7	4.18	.45	.58	.69	58.0	17.0	4.69	.46	.58	.70	56.0	16.4	5.27	.46	.59	.72
	1725	815	64.0	18.8	3.74	.46	.59	.71	62.0	18.2	4.20	.46	.59	.72	59.5	17.4	4.71	.46	.60	.73	57.5	16.9	5.28	.47	.61	.75

COOLING CAPACITY - 13HPD-060 with [CBX32MV-048] [CBX40UHV-048]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1525	720	55.0	16.1	3.64	.74	.87	.99	53.0	15.5	4.09	.75	.89	1.00	51.0	14.9	4.60	.76	.90	1.00	49.0	14.4	5.18	.77	.92	1.00
	1725	815	56.5	16.6	3.65	.76	.91	1.00	54.5	16.0	4.10	.77	.92	1.00	52.5	15.4	4.62	.79	.94	1.00	50.0	14.7	5.20	.80	.96	1.00
	1865	880	57.5	16.9	3.66	.78	.93	1.00	55.5	16.3	4.12	.79	.95	1.00	53.0	15.5	4.62	.81	.97	1.00	51.0	14.9	5.21	.82	.98	1.00
67°F (19°C)	1525	720	58.0	17.0	3.67	.59	.71	.84	56.5	16.6	4.13	.59	.72	.85	54.0	15.8	4.64	.60	.74	.87	52.0	15.2	5.22	.61	.75	.89
	1725	815	60.0	17.6	3.69	.60	.74	.87	57.5	16.9	4.14	.61	.75	.89	55.5	16.3	4.65	.62	.76	.91	53.0	15.5	5.23	.63	.78	.93
	1865	880	60.5	17.7	3.70	.61	.76	.90	58.5	17.1	4.15	.62	.77	.92	56.5	16.6	4.66	.63	.78	.94	54.0	15.8	5.24	.64	.80	.96
71°F (22°C)	1525	720	61.5	18.0	3.71	.45	.57	.69	59.0	17.3	4.16	.45	.58	.70	57.0	16.7	4.68	.45	.58	.71	55.0	16.1	5.26	.45	.59	.72
	1725	815	63.0	18.5	3.73	.45	.59	.71	61.0	17.9	4.18	.46	.59	.73	58.5	17.1	4.69	.46	.60	.74	56.0	16.4	5.27	.46	.61	.76
	1865	880	64.0	18.8	3.74	.46	.60	.73	61.5	18.0	4.19	.46	.61	.75	59.5	17.4	4.70	.47	.62	.76	57.0	16.7	5.28	.47	.63	.78

HEATING CAPACITY - 13HPD-060 with [CB30M-65]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1515	715	67.0	19.6	4.35	52.5	15.4	3.98	37.0	10.8	3.59	27.6	8.1	3.20	14.0	4.1	2.39
1725	815	67.7	19.8	4.18	53.2	15.6	3.81	37.7	11.0	3.41	28.3	8.3	3.03	14.7	4.3	2.22

HEATING CAPACITY - 13HPD-060 with [CBX32MV-048] [CBX40UHV-048]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1525	720	67.1	19.7	4.35	52.6	15.4	3.98	37.2	10.9	3.59	27.8	8.1	3.20	14.3	4.2	2.38
1725	815	66.9	19.6	4.18	52.4	15.4	3.81	36.9	10.8	3.42	27.5	8.1	3.03	14.0	4.1	2.22
1865	880	68.6	20.1	4.10	54.1	15.9	3.73	38.7	11.3	3.34	29.3	8.6	2.95	15.8	4.6	2.13

HEATING PERFORMANCE at 1725 cfm (815 L/s) Indoor Coil Air Volume 13HPD-060 with [CB30M-65]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	4.18	67.1	19.7
60	16	4.09	63.9	18.7
55	13	4.01	60.6	17.8
50	10	3.92	57.3	16.8
47	8	3.87	55.3	16.2
45	7	3.81	52.6	15.4
40	4	3.65	45.8	13.4
35	2	3.49	38.9	11.4
30	-1	3.45	38.0	11.1
25	-4	3.41	37.1	10.9
20	-7	3.38	36.2	10.6
17	-8	3.35	35.7	10.5
15	-9	3.32	34.4	10.1
10	-12	3.23	31.1	9.1
5	-15	3.03	27.7	8.1
0	-18	2.83	24.3	7.1
-5	-21	2.62	20.9	6.1
-10	-23	2.42	17.5	5.1
-15	-26	2.22	14.1	4.1
-20	-29	2.01	10.7	3.1

HEATING PERFORMANCE at 1725 cfm (815 L/s) Indoor Coil Air Volume 13HPD-060 with [CBX32MV-048] [CBX40UHV-048]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	4.18	66.9	19.6
60	16	4.10	63.6	18.6
55	13	4.01	60.3	17.7
50	10	3.93	57.1	16.7
47	8	3.87	55.1	16.1
45	7	3.81	52.4	15.4
40	4	3.66	45.5	13.3
35	2	3.50	38.7	11.3
30	-1	3.46	37.8	11.1
25	-4	3.42	36.9	10.8
20	-7	3.38	36.0	10.6
17	-8	3.36	35.4	10.4
15	-9	3.32	34.1	10.0
10	-12	3.24	30.9	9.1
5	-15	3.03	27.5	8.1
0	-18	2.83	24.1	7.1
-5	-21	2.63	20.7	6.1
-10	-23	2.42	17.4	5.1
-15	-26	2.22	14.0	4.1
-20	-29	2.02	10.6	3.1

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

AIR HANDLERS

COOLING CAPACITY - 13HPD-060 with [CBX32MV-060] [CBX40UHV-060]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1525	720	56.0	16.4	3.65	.73	.86	.98	54.5	16.0	4.10	.74	.87	.99	52.5	15.4	4.62	.75	.89	1.00	50.0	14.7	5.20	.76	.91	1.00
	1725	815	58.0	17.0	3.67	.75	.89	1.00	56.0	16.4	4.12	.77	.91	1.00	53.5	15.7	4.63	.78	.93	1.00	51.5	15.1	5.21	.79	.95	1.00
	1865	880	58.5	17.1	3.68	.77	.91	1.00	57.0	16.7	4.13	.78	.93	1.00	54.5	16.0	4.64	.80	.95	1.00	52.0	15.2	5.22	.81	.97	1.00
67°F (19°C)	1525	720	59.5	17.4	3.68	.58	.71	.83	57.5	16.9	4.14	.59	.72	.84	55.0	16.1	4.65	.60	.73	.85	53.0	15.5	5.23	.60	.74	.87
	1725	815	61.0	17.9	3.71	.60	.73	.86	59.0	17.3	4.16	.60	.74	.87	56.5	16.6	4.67	.61	.75	.89	54.0	15.8	5.25	.62	.77	.91
	1865	880	62.0	18.2	3.71	.61	.75	.88	59.5	17.4	4.17	.62	.76	.90	57.5	16.9	4.68	.62	.77	.92	55.0	16.1	5.25	.63	.79	.94
71°F (22°C)	1525	720	62.5	18.3	3.72	.45	.57	.68	60.5	17.7	4.18	.45	.58	.69	58.5	17.1	4.69	.46	.58	.70	56.0	16.4	5.27	.46	.59	.72
	1725	815	64.0	18.8	3.74	.46	.59	.71	62.0	18.2	4.20	.46	.59	.72	59.5	17.4	4.71	.46	.60	.73	57.5	16.9	5.28	.47	.61	.75
	1865	880	65.0	19.0	3.76	.46	.59	.72	63.0	18.5	4.21	.46	.60	.74	60.5	17.7	4.72	.47	.61	.75	58.0	17.0	5.29	.47	.62	.77

COOLING CAPACITY - 13HPD-060 with [CBX32MV-060] [CBX40UHV-060]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1525	720	67.1	19.7	4.34	52.6	15.4	3.97	37.2	10.9	3.58	27.8	8.1	3.19	14.3	4.2	2.38
1725	815	66.9	19.6	4.18	52.3	15.3	3.81	36.9	10.8	3.41	27.5	8.1	3.03	14.0	4.1	2.22
1865	880	68.6	20.1	4.09	54.1	15.9	3.72	38.7	11.3	3.32	29.3	8.6	2.94	15.8	4.6	2.13

HEATING PERFORMANCE at 1725 cfm (815 L/s) Indoor Coil Air Volume 13HPD-060 with [CBX32MV-060] [CBX40UHV-060]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	4.18	66.9	19.6
60	16	4.09	63.6	18.6
55	13	4.01	60.3	17.7
50	10	3.92	57.0	16.7
47	8	3.87	55.1	16.1
45	7	3.81	52.3	15.3
40	4	3.65	45.5	13.3
35	2	3.49	38.7	11.3
30	-1	3.45	37.8	11.1
25	-4	3.41	36.9	10.8
20	-7	3.38	36.0	10.6
17	-8	3.35	35.4	10.4
15	-9	3.32	34.1	10.0
10	-12	3.23	30.9	9.1
5	-15	3.03	27.5	8.1
0	-18	2.83	24.1	7.1
-5	-21	2.62	20.7	6.1
-10	-23	2.42	17.4	5.1
-15	-26	2.22	14.0	4.1
-20	-29	2.01	10.6	3.1

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

UP-FLOW INDOOR COIL WITH GAS FURNACES

COOLING CAPACITY - 13HPD-060 with [C33-60D + G60UHV-60D-135]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1700	800	57.5	16.9	3.66	.76	.89	1.00	55.5	16.3	4.12	.77	.90	1.00	53.5	15.7	4.63	.78	.92	1.00	51.5	15.1	5.21	.79	.94	1.00
	1900	895	59.0	17.3	3.68	.78	.92	1.00	57.0	16.7	4.13	.79	.93	1.00	54.5	16.0	4.65	.80	.95	1.00	52.5	15.4	5.23	.82	.98	1.00
	2095	990	60.0	17.6	3.69	.80	.95	1.00	58.0	17.0	4.14	.82	.97	1.00	56.0	16.4	4.66	.83	.99	1.00	53.5	15.7	5.24	.85	1.00	1.00
67°F (19°C)	1700	800	60.5	17.7	3.70	.61	.73	.85	58.5	17.1	4.15	.61	.74	.87	56.5	16.6	4.67	.62	.76	.88	54.0	15.8	5.25	.63	.77	.91
	1900	895	62.0	18.2	3.72	.62	.75	.89	60.0	17.6	4.17	.63	.77	.90	57.5	16.9	4.68	.63	.78	.92	55.5	16.3	5.26	.64	.80	.94
	2095	990	63.0	18.5	3.73	.63	.78	.92	61.0	17.9	4.18	.64	.79	.94	59.0	17.3	4.70	.65	.81	.96	56.5	16.6	5.27	.67	.83	.98
71°F (22°C)	1700	800	64.0	18.8	3.74	.47	.59	.71	62.0	18.2	4.19	.47	.60	.72	59.5	17.4	4.71	.47	.61	.73	57.5	16.9	5.28	.48	.61	.75
	1900	895	65.0	19.0	3.76	.47	.60	.73	63.0	18.5	4.21	.48	.61	.74	61.0	17.9	4.72	.48	.62	.76	58.5	17.1	5.30	.48	.63	.77
	2095	990	66.0	19.3	3.77	.48	.63	.76	64.0	18.8	4.22	.49	.63	.77	61.5	18.0	4.73	.49	.64	.79	59.5	17.4	5.31	.50	.65	.80

COOLING CAPACITY - 13HPD-060 with [C33-60D + G61MPV-60D-135] [C33-60D + G71MPP-60D-135]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1525	720	56.0	16.4	3.65	.74	.86	.98	54.5	16.0	4.10	.75	.87	.99	52.5	15.4	4.62	.76	.89	1.00	50.0	14.7	5.20	.77	.91	1.00
	1780	840	58.0	17.0	3.67	.77	.90	1.00	56.0	16.4	4.12	.78	.92	1.00	54.0	15.8	4.64	.79	.93	1.00	52.0	15.2	5.21	.81	.96	1.00
	1985	935	59.5	17.4	3.69	.80	.94	1.00	57.5	16.9	4.14	.81	.95	1.00	55.5	16.3	4.65	.82	.98	1.00	53.0	15.5	5.23	.84	.99	1.00
67°F (19°C)	1525	720	59.0	17.3	3.68	.60	.72	.83	57.0	16.7	4.14	.60	.72	.84	55.0	16.1	4.65	.61	.74	.86	53.0	15.5	5.23	.62	.75	.88
	1780	840	61.5	18.0	3.71	.61	.74	.87	59.0	17.3	4.16	.62	.75	.88	57.0	16.7	4.67	.63	.77	.90	54.5	16.0	5.25	.64	.78	.92
	1985	935	63.0	18.5	3.73	.63	.77	.90	60.5	17.7	4.18	.64	.78	.92	58.5	17.1	4.69	.65	.80	.94	56.0	16.4	5.27	.66	.82	.96
71°F (22°C)	1525	720	62.5	18.3	3.72	.47	.58	.69	60.5	17.7	4.18	.47	.59	.70	58.5	17.1	4.69	.47	.59	.71	56.0	16.4	5.27	.47	.60	.72
	1780	840	64.5	18.9	3.75	.47	.59	.72	62.5	18.3	4.20	.48	.60	.73	60.0	17.6	4.71	.48	.62	.74	58.0	17.0	5.29	.48	.62	.76
	1985	935	66.0	19.3	3.77	.48	.62	.75	63.5	18.6	4.22	.49	.63	.76	61.5	18.0	4.73	.49	.64	.78	59.0	17.3	5.31	.50	.65	.79

HEATING CAPACITY - 13HPD-060 with [C33-60D + G60UHV-60D-135]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1699	800	66.4	19.5	4.53	51.9	15.2	4.12	36.5	10.7	3.70	27.2	8.0	3.26	13.6	4.0	2.43
1900	895	66.8	19.6	4.39	52.3	15.3	3.98	36.9	10.8	3.56	27.6	8.1	3.13	14.0	4.1	2.29
2095	990	67.5	19.8	4.27	53.0	15.5	3.86	37.7	11.0	3.44	28.3	8.3	3.00	14.8	4.3	2.17

HEATING CAPACITY - 13HPD-060 with [C33-60D + G61MPV-60D-135] [C33-60D + G71MPP-60D-135]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1526	720	66.3	19.4	4.71	51.9	15.2	4.30	36.6	10.7	3.87	27.4	8.0	3.43	13.8	4.0	2.58
1780	840	66.6	19.5	4.46	52.2	15.3	4.05	36.9	10.8	3.62	27.7	8.1	3.19	14.1	4.1	2.34
1986	935	67.9	19.9	4.36	53.6	15.7	3.95	38.3	11.2	3.52	29.0	8.5	3.09	15.4	4.5	2.24

HEATING PERFORMANCE at 1900 cfm (895 L/s) Indoor Coil Air Volume 13HPD-060 with [C33-60D + G60UHV-60D-135]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	4.39	66.8	19.6
60	16	4.30	63.5	18.6
55	13	4.20	60.3	17.7
50	10	4.10	57.0	16.7
47	8	4.05	55.0	16.1
45	7	3.98	52.3	15.3
40	4	3.83	45.5	13.3
35	2	3.67	38.7	11.3
30	-1	3.61	37.8	11.1
25	-4	3.56	36.9	10.8
20	-7	3.50	36.1	10.6
17	-8	3.47	35.5	10.4
15	-9	3.43	34.2	10.0
10	-12	3.33	31.0	9.1
5	-15	3.13	27.6	8.1
0	-18	2.92	24.2	7.1
-5	-21	2.71	20.8	6.1
-10	-23	2.50	17.4	5.1
-15	-26	2.29	14.0	4.1
-20	-29	2.08	10.7	3.1

HEATING PERFORMANCE at 1780 cfm (840 L/s) Indoor Coil Air Volume 13HPD-060 with [C33-60D + G61MPV-60D-135] [C33-60D + G71MPP-60D-135]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	4.46	66.6	19.5
60	16	4.37	63.3	18.6
55	13	4.27	60.1	17.6
50	10	4.17	56.9	16.7
47	8	4.12	54.9	16.1
45	7	4.05	52.2	15.3
40	4	3.89	45.4	13.3
35	2	3.73	38.7	11.3
30	-1	3.68	37.8	11.1
25	-4	3.62	36.9	10.8
20	-7	3.57	36.1	10.6
17	-8	3.54	35.6	10.4
15	-9	3.50	34.3	10.1
10	-12	3.40	31.1	9.1
5	-15	3.19	27.7	8.1
0	-18	2.97	24.3	7.1
-5	-21	2.76	20.9	6.1
-10	-23	2.55	17.5	5.1
-15	-26	2.34	14.1	4.1
-20	-29	2.12	10.7	3.1

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

UP-FLOW INDOOR COIL WITH GAS FURNACES

COOLING CAPACITY - 13HPD-060 with [C33-62C + G60UHV-60C-090]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil: 85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1625	765	58.5	17.1	3.67	.76	.89	1.00	56.5	16.6	4.13	.77	.91	1.00	54.5	16.0	4.64	.79	.93	1.00	52.0	15.2	5.22	.80	.95	1.00
	1845	870	60.0	17.6	3.69	.79	.93	1.00	58.0	17.0	4.15	.80	.95	1.00	56.0	16.4	4.66	.82	.97	1.00	53.5	15.7	5.24	.83	.99	1.00
	2085	985	62.0	18.2	3.72	.83	.98	1.00	60.0	17.6	4.17	.84	1.00	1.00	57.5	16.9	4.68	.86	1.00	1.00	55.5	16.3	5.26	.88	1.00	1.00
67°F (19°C)	1625	765	62.0	18.2	3.71	.61	.73	.86	60.0	17.6	4.17	.62	.75	.88	57.5	16.9	4.68	.62	.76	.89	55.0	16.1	5.26	.63	.77	.91
	1845	870	63.5	18.6	3.73	.62	.77	.90	61.0	17.9	4.19	.64	.78	.92	59.0	17.3	4.69	.64	.79	.94	56.5	16.6	5.27	.65	.81	.96
	2085	985	65.0	19.0	3.75	.65	.80	.95	62.5	18.3	4.21	.66	.82	.97	60.5	17.7	4.71	.67	.83	.99	58.0	17.0	5.29	.68	.85	1.00
71°F (22°C)	1625	765	65.0	19.0	3.75	.47	.59	.71	63.0	18.5	4.21	.47	.60	.73	60.5	17.7	4.72	.48	.61	.74	58.0	17.0	5.30	.48	.62	.75
	1845	870	67.0	19.6	3.78	.47	.61	.74	64.5	18.9	4.23	.48	.62	.75	62.0	18.2	4.74	.48	.63	.77	59.5	17.4	5.32	.49	.64	.79
	2085	985	68.0	19.9	3.80	.49	.64	.78	66.0	19.3	4.25	.50	.65	.79	63.5	18.6	4.76	.50	.66	.81	61.0	17.9	5.34	.51	.67	.83

COOLING CAPACITY - 13HPD-060 with [C33-62C + G60UHV-60C-110]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil: 85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1515	715	57.5	16.9	3.66	.75	.87	.99	55.5	16.3	4.12	.76	.89	1.00	53.5	15.7	4.63	.77	.91	1.00	51.5	15.1	5.21	.78	.93	1.00
	1780	840	59.5	17.4	3.69	.78	.92	1.00	57.5	16.9	4.14	.79	.94	1.00	55.5	16.3	4.65	.80	.96	1.00	53.0	15.5	5.23	.82	.98	1.00
	1975	930	61.0	17.9	3.71	.80	.96	1.00	59.0	17.3	4.16	.83	.98	1.00	57.0	16.7	4.67	.84	1.00	1.00	54.5	16.0	5.25	.86	1.00	1.00
67°F (19°C)	1515	715	61.0	17.9	3.71	.60	.72	.84	59.0	17.3	4.16	.61	.73	.86	57.0	16.7	4.67	.61	.75	.87	54.5	16.0	5.25	.62	.76	.89
	1780	840	63.0	18.5	3.73	.62	.76	.89	61.0	17.9	4.18	.62	.77	.90	58.5	17.1	4.69	.63	.78	.92	56.0	16.4	5.27	.64	.80	.95
	1975	930	64.5	18.9	3.75	.65	.79	.93	62.0	18.2	4.20	.65	.80	.95	60.0	17.6	4.71	.66	.82	.97	57.5	16.9	5.29	.67	.84	.99
71°F (22°C)	1515	715	64.0	18.8	3.74	.47	.58	.70	62.0	18.2	4.20	.47	.59	.71	60.0	17.6	4.71	.47	.60	.72	57.5	16.9	5.28	.47	.60	.74
	1780	840	66.0	19.3	3.77	.47	.61	.73	64.0	18.8	4.22	.48	.61	.75	61.5	18.0	4.73	.48	.62	.76	59.0	17.3	5.31	.48	.63	.78
	1975	930	68.0	19.9	3.79	.49	.63	.76	65.0	19.0	4.24	.49	.64	.78	63.0	18.5	4.75	.50	.65	.79	60.5	17.7	5.33	.50	.66	.81

HEATING CAPACITY - 13HPD-060 with [C33-62C + G60UHV-60C-090]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil: 65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1626	765	66.7	19.5	4.51	52.3	15.3	4.15	36.9	10.8	3.79	27.6	8.1	3.36	13.9	4.1	2.51
1845	870	66.9	19.6	4.31	52.5	15.4	3.96	37.2	10.9	3.59	27.8	8.1	3.16	14.2	4.2	2.31
2086	985	68.4	20.0	4.21	54.0	15.8	3.85	38.6	11.3	3.48	29.3	8.6	3.05	15.6	4.6	2.20

HEATING CAPACITY - 13HPD-060 with [C33-62C + G60UHV-60C-110]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil: 65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1516	715	66.4	19.5	4.63	52.0	15.2	4.24	36.6	10.7	3.84	27.3	8.0	3.40	13.7	4.0	2.55
1780	840	66.9	19.6	4.40	52.5	15.4	4.02	37.1	10.9	3.61	27.8	8.1	3.18	14.1	4.1	2.33
1973	930	68.1	20.0	4.29	53.7	15.7	3.91	38.3	11.2	3.50	29.0	8.5	3.07	15.4	4.5	2.22

HEATING PERFORMANCE at 1845 cfm (870 L/s) Indoor Coil Air Volume 13HPD-060 with [C33-62C + G60UHV-60C-090]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	4.31	66.9	19.6
60	16	4.23	63.7	18.7
55	13	4.14	60.5	17.7
50	10	4.06	57.2	16.8
47	8	4.01	55.3	16.2
45	7	3.96	52.5	15.4
40	4	3.83	45.7	13.4
35	2	3.71	38.9	11.4
30	-1	3.65	38.0	11.1
25	-4	3.59	37.2	10.9
20	-7	3.53	36.3	10.6
17	-8	3.49	35.8	10.5
15	-9	3.46	34.5	10.1
10	-12	3.37	31.3	9.2
5	-15	3.16	27.8	8.1
0	-18	2.95	24.4	7.2
-5	-21	2.73	21.0	6.2
-10	-23	2.52	17.6	5.2
-15	-26	2.31	14.2	4.2
-20	-29	2.10	10.7	3.1

HEATING PERFORMANCE at 1780 cfm (840 L/s) Indoor Coil Air Volume 13HPD-060 with [C33-62C + G60UHV-60C-110]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	4.40	66.9	19.6
60	16	4.31	63.6	18.6
55	13	4.22	60.4	17.7
50	10	4.13	57.1	16.7
47	8	4.07	55.2	16.2
45	7	4.02	52.5	15.4
40	4	3.87	45.6	13.4
35	2	3.73	38.8	11.4
30	-1	3.67	37.9	11.1
25	-4	3.61	37.1	10.9
20	-7	3.56	36.3	10.6
17	-8	3.52	35.7	10.5
15	-9	3.48	34.4	10.1
10	-12	3.39	31.2	9.1
5	-15	3.18	27.8	8.1
0	-18	2.97	24.4	7.2
-5	-21	2.75	21.0	6.2
-10	-23	2.54	17.6	5.2
-15	-26	2.33	14.1	4.1
-20	-29	2.11	10.7	3.1

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

UP-FLOW INDOOR COIL WITH GAS FURNACES

COOLING CAPACITY - 13HPD-060 with [C33-62C + G61MPV-60C-090] [C33-62C + G71MPP-60C-090]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1550	730	58.0	17.0	3.67	.75	.88	1.00	56.0	16.4	4.12	.76	.90	1.00	54.0	15.8	4.64	.78	.92	1.00	51.5	15.1	5.21	.79	.93	1.00
	1755	830	59.5	17.4	3.69	.78	.92	1.00	57.5	16.9	4.14	.79	.93	1.00	55.5	16.3	4.65	.80	.95	1.00	53.0	15.5	5.23	.82	.98	1.00
	1960	925	61.0	17.9	3.71	.81	.96	1.00	59.0	17.3	4.16	.82	.98	1.00	57.0	16.7	4.67	.84	1.00	1.00	54.5	16.0	5.25	.86	1.00	1.00
67°F (19°C)	1550	730	61.5	18.0	3.71	.60	.73	.85	59.5	17.4	4.16	.61	.74	.86	57.0	16.7	4.67	.62	.75	.88	54.5	16.0	5.25	.62	.77	.90
	1755	830	63.0	18.5	3.73	.62	.75	.89	61.0	17.9	4.18	.62	.77	.90	58.5	17.1	4.69	.63	.78	.92	56.0	16.4	5.27	.64	.80	.94
	1960	925	64.5	18.9	3.75	.65	.79	.93	62.0	18.2	4.19	.65	.80	.95	60.0	17.6	4.71	.66	.82	.97	57.5	16.9	5.29	.67	.84	.99
71°F (22°C)	1550	730	64.5	18.9	3.75	.47	.59	.70	62.5	18.3	4.20	.47	.59	.71	60.0	17.6	4.71	.47	.60	.73	57.5	16.9	5.29	.48	.61	.74
	1755	830	66.0	19.3	3.77	.47	.61	.73	64.0	18.8	4.22	.48	.61	.74	61.5	18.0	4.73	.48	.63	.75	59.0	17.3	5.31	.49	.63	.77
	1960	925	68.0	19.9	3.79	.49	.63	.76	65.0	19.0	4.24	.49	.64	.78	63.0	18.5	4.75	.50	.65	.79	60.5	17.7	5.33	.51	.66	.81

COOLING CAPACITY - 13HPD-060 with [C33-62C + G61MPV-60C-110] [C33-62C + G71MPP-60C-110]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1540	725	58.0	17.0	3.67	.75	.88	1.00	56.0	16.4	4.12	.76	.89	1.00	53.5	15.7	4.63	.77	.91	1.00	51.5	15.1	5.21	.79	.93	1.00
	1790	845	60.0	17.6	3.69	.78	.92	1.00	58.0	17.0	4.14	.79	.94	1.00	55.5	16.3	4.65	.81	.96	1.00	53.0	15.5	5.23	.83	.98	1.00
	2010	950	61.5	18.0	3.71	.82	.97	1.00	59.5	17.4	4.16	.83	.99	1.00	57.0	16.7	4.67	.85	1.00	1.00	55.0	16.1	5.26	.87	1.00	1.00
67°F (19°C)	1540	725	61.0	17.9	3.71	.60	.72	.85	59.0	17.3	4.16	.61	.74	.86	57.0	16.7	4.67	.62	.75	.88	54.5	16.0	5.25	.62	.77	.90
	1790	845	63.0	18.5	3.73	.62	.76	.89	61.0	17.9	4.18	.63	.78	.91	58.5	17.1	4.69	.64	.78	.93	56.5	16.6	5.27	.65	.80	.95
	2010	950	64.5	18.9	3.75	.65	.79	.94	62.5	18.3	4.20	.65	.81	.96	60.0	17.6	4.71	.67	.82	.98	57.5	16.9	5.28	.68	.84	1.00
71°F (22°C)	1540	725	64.5	18.9	3.75	.47	.58	.70	62.5	18.3	4.20	.47	.59	.71	60.0	17.6	4.71	.47	.60	.73	57.5	16.9	5.29	.48	.61	.74
	1790	845	67.0	19.6	3.77	.47	.61	.74	64.0	18.8	4.23	.48	.61	.75	62.0	18.2	4.74	.48	.63	.76	59.5	17.4	5.31	.49	.63	.78
	2010	950	68.0	19.9	3.80	.49	.63	.77	66.0	19.3	4.24	.49	.64	.78	63.5	18.6	4.75	.50	.65	.80	60.5	17.7	5.33	.51	.67	.81

HEATING CAPACITY - 13HPD-060 with [C33-62C + G61MPV-60C-090] [C33-62C + G71MPP-60C-090]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil													
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1548	730	66.6	19.5	4.60	52.3	15.3	4.22	36.9	10.8	3.83	27.6	8.1	3.39	13.9	4.1	2.53
1755	830	67.0	19.6	4.40	52.6	15.4	4.02	37.2	10.9	3.63	27.9	8.2	3.20	14.2	4.2	2.34
1961	925	68.4	20.0	4.30	54.0	15.8	3.92	38.6	11.3	3.53	29.3	8.6	3.09	15.6	4.6	2.24

HEATING CAPACITY - 13HPD-060 with [C33-62C + G61MPV-60C-110] [C33-62C + G71MPP-60C-110]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil													
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1541	725	66.5	19.5	4.60	52.1	15.3	4.22	36.8	10.8	3.83	27.4	8.0	3.40	13.7	4.0	2.55
1790	845	67.0	19.6	4.37	52.6	15.4	4.00	37.3	10.9	3.61	27.9	8.2	3.18	14.2	4.2	2.33
2008	950	68.4	20.0	4.27	54.0	15.8	3.89	38.6	11.3	3.50	29.3	8.6	3.07	15.6	4.6	2.22

HEATING PERFORMANCE at 1755 cfm (830 L/s) Indoor Coil Air Volume 13HPD-060 with [C33-62C + G61MPV-60C-090] [C33-62C + G71MPP-60C-090]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	4.40	67.0	19.6
60	16	4.31	63.7	18.7
55	13	4.22	60.5	17.7
50	10	4.13	57.2	16.8
47	8	4.08	55.3	16.2
45	7	4.02	52.6	15.4
40	4	3.89	45.7	13.4
35	2	3.75	38.9	11.4
30	-1	3.69	38.1	11.2
25	-4	3.63	37.2	10.9
20	-7	3.57	36.4	10.7
17	-8	3.54	35.9	10.5
15	-9	3.50	34.6	10.1
10	-12	3.41	31.4	9.2
5	-15	3.20	27.9	8.2
0	-18	2.98	24.5	7.2
-5	-21	2.77	21.1	6.2
-10	-23	2.55	17.6	5.2
-15	-26	2.34	14.2	4.2
-20	-29	2.12	10.8	3.2

HEATING PERFORMANCE at 1790 cfm (845 L/s) Indoor Coil Air Volume 13HPD-060 with [C33-62C + G61MPV-60C-110] [C33-62C + G71MPP-60C-110]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	4.37	67.0	19.6
60	16	4.28	63.8	18.7
55	13	4.20	60.5	17.7
50	10	4.11	57.3	16.8
47	8	4.05	55.3	16.2
45	7	4.00	52.6	15.4
40	4	3.86	45.8	13.4
35	2	3.72	39.0	11.4
30	-1	3.67	38.1	11.2
25	-4	3.61	37.3	10.9
20	-7	3.55	36.4	10.7
17	-8	3.52	35.9	10.5
15	-9	3.48	34.6	10.1
10	-12	3.39	31.4	9.2
5	-15	3.18	27.9	8.2
0	-18	2.97	24.5	7.2
-5	-21	2.75	21.1	6.2
-10	-23	2.54	17.6	5.2
-15	-26	2.33	14.2	4.2
-20	-29	2.11	10.8	3.2

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

UP-FLOW INDOOR COIL WITH GAS FURNACES

COOLING CAPACITY - 13HPD-060 with [C33-62D + G60UHV-60D-135]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1700	800	58.5	17.1	3.67	.75	.88	1.00	56.5	16.6	4.13	.76	.90	1.00	54.5	16.0	4.64	.78	.92	1.00	52.0	15.2	5.22	.79	.94	1.00
	1900	895	60.0	17.6	3.69	.77	.91	1.00	58.0	17.0	4.14	.79	.93	1.00	55.5	16.3	4.66	.80	.95	1.00	53.5	15.7	5.24	.82	.97	1.00
	2095	990	61.0	17.9	3.71	.80	.95	1.00	59.0	17.3	4.16	.81	.97	1.00	57.0	16.7	4.67	.83	.99	1.00	54.5	16.0	5.25	.85	1.00	1.00
67°F (19°C)	1700	800	61.5	18.0	3.71	.61	.73	.85	59.5	17.4	4.16	.61	.74	.87	57.5	16.9	4.68	.62	.75	.88	55.0	16.1	5.25	.62	.77	.90
	1900	895	63.0	18.5	3.73	.62	.75	.88	61.0	17.9	4.18	.62	.76	.90	59.0	17.3	4.70	.63	.78	.92	56.5	16.6	5.27	.64	.79	.94
	2095	990	64.5	18.9	3.75	.63	.78	.91	62.0	18.2	4.20	.64	.79	.93	60.0	17.6	4.71	.65	.81	.95	57.5	16.9	5.29	.66	.82	.98
71°F (22°C)	1700	800	65.0	19.0	3.75	.46	.59	.71	63.0	18.5	4.21	.47	.60	.72	60.5	17.7	4.72	.47	.61	.73	58.0	17.0	5.29	.48	.61	.74
	1900	895	66.0	19.3	3.77	.47	.61	.73	64.5	18.9	4.22	.48	.62	.74	61.5	18.0	4.73	.48	.62	.75	59.5	17.4	5.31	.48	.63	.77
	2095	990	68.0	19.9	3.79	.48	.62	.75	65.0	19.0	4.24	.49	.63	.77	63.0	18.5	4.75	.49	.64	.78	60.5	17.7	5.33	.50	.65	.80

COOLING CAPACITY - 13HPD-060 with [C33-62D + G61MPV-60D-135] [C33-62D + G71MPP-60D-135]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1525	720	57.0	16.7	3.66	.74	.86	.97	55.0	16.1	4.11	.75	.87	.99	53.0	15.5	4.63	.76	.89	1.00	51.0	14.9	5.21	.77	.91	1.00
	1780	840	59.0	17.3	3.68	.76	.90	1.00	57.0	16.7	4.13	.77	.91	1.00	55.0	16.1	4.65	.79	.93	1.00	52.5	15.4	5.23	.80	.95	1.00
	1985	935	60.5	17.7	3.70	.79	.93	1.00	58.5	17.1	4.15	.80	.95	1.00	56.5	16.6	4.67	.82	.97	1.00	54.0	15.8	5.25	.84	.99	1.00
67°F (19°C)	1525	720	60.0	17.6	3.69	.60	.71	.83	58.0	17.0	4.15	.60	.72	.84	56.0	16.4	4.66	.61	.73	.85	54.0	15.8	5.24	.61	.75	.87
	1780	840	62.5	18.3	3.72	.61	.74	.86	60.0	17.6	4.17	.62	.75	.88	58.0	17.0	4.69	.62	.76	.90	55.5	16.3	5.27	.63	.78	.92
	1985	935	64.0	18.8	3.74	.63	.77	.90	61.5	18.0	4.19	.64	.78	.92	59.5	17.4	4.70	.65	.80	.94	57.0	16.7	5.28	.66	.81	.97
71°F (22°C)	1525	720	63.5	18.6	3.73	.47	.58	.69	61.5	18.0	4.19	.47	.59	.70	59.5	17.4	4.70	.47	.59	.71	57.0	16.7	5.28	.47	.60	.72
	1780	840	65.0	19.0	3.76	.47	.60	.72	63.5	18.6	4.21	.47	.60	.73	61.0	17.9	4.73	.48	.61	.74	58.5	17.1	5.30	.48	.62	.76
	1985	935	67.0	19.6	3.78	.49	.62	.74	65.0	19.0	4.23	.49	.63	.76	62.5	18.3	4.74	.49	.64	.77	60.0	17.6	5.32	.50	.65	.79

HEATING CAPACITY - 13HPD-060 with [C33-62D + G60UHV-60D-135]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1699	800	66.4	19.5	4.48	51.9	15.2	4.08	36.6	10.7	3.67	27.2	8.0	3.24	13.6	4.0	2.41
1900	895	66.8	19.6	4.35	52.3	15.3	3.95	37.0	10.8	3.54	27.6	8.1	3.11	14.0	4.1	2.28
2095	990	67.5	19.8	4.22	53.1	15.6	3.83	37.7	11.0	3.41	28.3	8.3	2.99	14.8	4.3	2.15

HEATING CAPACITY - 13HPD-060 with [C33-62D + G61MPV-60D-135] [C33-62D + G71MPP-60D-135]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1526	720	66.3	19.4	4.67	51.9	15.2	4.25	36.6	10.7	3.82	27.2	8.0	3.38	13.7	4.0	2.54
1780	840	66.7	19.5	4.44	52.3	15.3	4.02	37.0	10.8	3.59	27.6	8.1	3.15	14.1	4.1	2.31
1986	935	68.0	19.9	4.32	53.6	15.7	3.90	38.3	11.2	3.47	29.0	8.5	3.03	15.4	4.5	2.19

HEATING PERFORMANCE at 1900 cfm (895 L/s) Indoor Coil Air Volume 13HPD-060 with [C33-62D + G60UHV-60D-135]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	4.35	66.8	19.6
60	16	4.25	63.5	18.6
55	13	4.16	60.3	17.7
50	10	4.06	57.0	16.7
47	8	4.01	55.1	16.1
45	7	3.95	52.3	15.3
40	4	3.80	45.5	13.3
35	2	3.65	38.7	11.3
30	-1	3.59	37.8	11.1
25	-4	3.54	37.0	10.8
20	-7	3.48	36.1	10.6
17	-8	3.45	35.5	10.4
15	-9	3.41	34.2	10.0
10	-12	3.32	31.0	9.1
5	-15	3.11	27.6	8.1
0	-18	2.90	24.2	7.1
-5	-21	2.69	20.8	6.1
-10	-23	2.48	17.4	5.1
-15	-26	2.28	14.0	4.1
-20	-29	2.07	10.7	3.1

HEATING PERFORMANCE at 1780 cfm (840 L/s) Indoor Coil Air Volume 13HPD-060 with [C33-62D + G61MPV-60D-135] [C33-62D + G71MPP-60D-135]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	4.44	66.7	19.5
60	16	4.34	63.4	18.6
55	13	4.25	60.2	17.6
50	10	4.15	56.9	16.7
47	8	4.09	55.0	16.1
45	7	4.02	52.3	15.3
40	4	3.87	45.5	13.3
35	2	3.71	38.7	11.3
30	-1	3.65	37.8	11.1
25	-4	3.59	37.0	10.8
20	-7	3.53	36.1	10.6
17	-8	3.50	35.6	10.4
15	-9	3.46	34.3	10.1
10	-12	3.36	31.0	9.1
5	-15	3.15	27.6	8.1
0	-18	2.94	24.2	7.1
-5	-21	2.73	20.8	6.1
-10	-23	2.52	17.5	5.1
-15	-26	2.31	14.1	4.1
-20	-29	2.10	10.7	3.1

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

DOWN-FLOW INDOOR COILS WITH GAS FURNACES

COOLING CAPACITY - 13HPD-060 with [CR33-50/60C-F + G60DFV-60C-090]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1575	745	55.0	16.1	3.63	.75	.88	.99	53.0	15.5	4.09	.76	.90	1.00	51.5	15.1	4.61	.78	.92	1.00	49.5	14.5	5.19	.79	.94	1.00
	1750	825	56.0	16.4	3.65	.77	.91	1.00	54.5	16.0	4.10	.78	.93	1.00	52.5	15.4	4.61	.80	.95	1.00	50.0	14.7	5.20	.81	.97	1.00
	1960	925	57.5	16.9	3.66	.80	.95	1.00	55.5	16.3	4.12	.81	.96	1.00	53.5	15.7	4.63	.83	.98	1.00	51.5	15.1	5.21	.85	.99	1.00
67°F (19°C)	1575	745	58.0	17.0	3.67	.61	.73	.85	56.5	16.6	4.12	.61	.74	.86	54.5	16.0	4.64	.62	.75	.88	52.0	15.2	5.22	.63	.77	.90
	1750	825	59.5	17.4	3.69	.62	.75	.88	57.5	16.9	4.14	.62	.76	.89	55.5	16.3	4.65	.63	.77	.91	53.0	15.5	5.23	.64	.79	.94
	1960	925	60.5	17.7	3.70	.64	.78	.92	58.5	17.1	4.15	.64	.79	.93	56.5	16.6	4.67	.65	.81	.95	54.5	16.0	5.25	.66	.82	.97
71°F (22°C)	1575	745	61.5	18.0	3.71	.46	.59	.70	59.5	17.4	4.16	.47	.60	.71	57.5	16.9	4.67	.47	.60	.73	55.0	16.1	5.26	.47	.61	.74
	1750	825	62.5	18.3	3.72	.47	.60	.72	60.5	17.7	4.18	.47	.61	.74	58.5	17.1	4.69	.48	.62	.75	56.0	16.4	5.27	.48	.63	.77
	1960	925	64.0	18.8	3.74	.49	.62	.75	62.0	18.2	4.19	.49	.63	.77	59.5	17.4	4.71	.49	.64	.78	57.5	16.9	5.29	.50	.65	.80

COOLING CAPACITY - 13HPD-060 with [CR33-60D-F + G60DFV-60D-135]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1570	740	55.0	16.1	3.63	.75	.88	.99	53.0	15.5	4.09	.76	.90	1.00	51.5	15.1	4.61	.78	.92	1.00	49.5	14.5	5.19	.79	.94	1.00
	1810	855	56.5	16.6	3.65	.78	.92	1.00	54.5	16.0	4.11	.79	.94	1.00	52.5	15.4	4.62	.81	.96	1.00	50.5	14.8	5.20	.82	.97	1.00
	2070	975	58.0	17.0	3.67	.81	.96	1.00	56.0	16.4	4.12	.83	.98	1.00	54.0	15.8	4.64	.85	.99	1.00	52.5	15.4	5.22	.87	.99	1.00
67°F (19°C)	1570	740	58.0	17.0	3.67	.61	.73	.85	56.5	16.6	4.12	.61	.74	.86	54.5	16.0	4.64	.62	.75	.88	52.0	15.2	5.22	.63	.77	.90
	1810	855	60.0	17.6	3.69	.62	.75	.89	58.0	17.0	4.14	.63	.77	.90	56.0	16.4	4.66	.64	.78	.92	53.5	15.7	5.24	.64	.80	.95
	2070	975	61.5	18.0	3.71	.65	.79	.93	59.5	17.4	4.16	.66	.81	.96	57.0	16.7	4.67	.67	.82	.97	55.0	16.1	5.25	.68	.84	.98
71°F (22°C)	1570	740	61.5	18.0	3.71	.47	.59	.70	59.5	17.4	4.16	.47	.60	.71	57.5	16.9	4.67	.47	.61	.73	55.0	16.1	5.26	.47	.61	.74
	1810	855	63.0	18.5	3.73	.47	.61	.73	61.0	17.9	4.18	.48	.61	.74	59.0	17.3	4.69	.48	.62	.76	56.5	16.6	5.27	.48	.63	.78
	2070	975	64.5	18.9	3.75	.49	.63	.77	62.5	18.3	4.20	.50	.64	.78	60.0	17.6	4.71	.50	.65	.80	58.0	17.0	5.29	.51	.67	.82

HEATING CAPACITY - 13HPD-060 with [CR33-50/60C-F + G60DFV-60C-090]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1576	745	66.6	19.5	4.37	52.2	15.3	3.98	36.7	10.8	3.57	27.3	8.0	3.17	13.9	4.1	2.36
1750	825	66.8	19.6	4.24	52.3	15.3	3.85	36.9	10.8	3.44	27.5	8.1	3.04	14.0	4.1	2.23
1959	925	67.9	19.9	4.13	53.4	15.6	3.74	38.0	11.1	3.34	28.6	8.4	2.94	15.1	4.4	2.12

HEATING CAPACITY - 13HPD-060 with [CR33-60D-F + G60DFV-60D-135]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1572	740	66.9	19.6	4.37	52.3	15.3	3.99	36.8	10.8	3.59	27.4	8.0	3.20	13.9	4.1	2.39
1810	855	66.9	19.6	4.19	52.4	15.4	3.81	36.9	10.8	3.41	27.5	8.1	3.02	14.0	4.1	2.21
2068	975	68.6	20.1	4.08	54.1	15.9	3.70	38.6	11.3	3.30	29.2	8.6	2.91	15.7	4.6	2.10

HEATING PERFORMANCE at 1750 cfm (825 L/s) Indoor Coil Air Volume 13HPD-060 with [CR33-50/60C-F + G60DFV-60C-090]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	4.24	66.8	19.6
60	16	4.14	63.5	18.6
55	13	4.05	60.3	17.7
50	10	3.96	57.0	16.7
47	8	3.91	55.0	16.1
45	7	3.85	52.3	15.3
40	4	3.69	45.5	13.3
35	2	3.53	38.7	11.3
30	-1	3.48	37.8	11.1
25	-4	3.44	36.9	10.8
20	-7	3.40	36.0	10.6
17	-8	3.37	35.4	10.4
15	-9	3.33	34.1	10.0
10	-12	3.24	30.9	9.1
5	-15	3.04	27.5	8.1
0	-18	2.84	24.1	7.1
-5	-21	2.63	20.7	6.1
-10	-23	2.43	17.4	5.1
-15	-26	2.23	14.0	4.1
-20	-29	2.02	10.6	3.1

HEATING PERFORMANCE at 1810 cfm (855 L/s) Indoor Coil Air Volume 13HPD-060 with [CR33-60D-F + G60DFV-60D-135]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	4.19	66.9	19.6
60	16	4.10	63.7	18.7
55	13	4.01	60.4	17.7
50	10	3.92	57.1	16.7
47	8	3.87	55.1	16.1
45	7	3.81	52.4	15.4
40	4	3.65	45.6	13.4
35	2	3.49	38.7	11.3
30	-1	3.45	37.8	11.1
25	-4	3.41	36.9	10.8
20	-7	3.37	36.0	10.6
17	-8	3.35	35.5	10.4
15	-9	3.31	34.2	10.0
10	-12	3.23	30.9	9.1
5	-15	3.02	27.5	8.1
0	-18	2.82	24.1	7.1
-5	-21	2.62	20.8	6.1
-10	-23	2.41	17.4	5.1
-15	-26	2.21	14.0	4.1
-20	-29	2.01	10.6	3.1

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HORIZONTAL INDOOR COILS WITH GAS FURNACES

COOLING CAPACITY - 13HPD-060 with [CH23-68 + G60UHV-60D-135]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1700	800	58.0	17.0	3.67	.76	.89	1.00	56.0	16.4	4.12	.77	.91	1.00	54.0	15.8	4.64	.78	.92	1.00	51.5	15.1	5.22	.80	.94	1.00
	1900	895	59.5	17.4	3.69	.78	.92	1.00	57.5	16.9	4.14	.79	.94	1.00	55.0	16.1	4.65	.81	.96	1.00	53.0	15.5	5.23	.83	.98	1.00
	2095	990	60.5	17.7	3.70	.80	.95	1.00	58.5	17.1	4.15	.82	.97	1.00	56.5	16.6	4.66	.84	.99	1.00	54.5	16.0	5.25	.86	1.00	1.00
67°F (19°C)	1700	800	61.5	18.0	3.71	.60	.73	.86	59.5	17.4	4.16	.61	.74	.87	57.5	16.9	4.68	.62	.76	.89	55.0	16.1	5.26	.63	.77	.91
	1900	895	63.0	18.5	3.73	.62	.76	.89	61.0	17.9	4.18	.63	.77	.91	58.5	17.1	4.69	.64	.78	.93	56.0	16.4	5.27	.64	.80	.95
	2095	990	64.0	18.8	3.74	.63	.78	.92	62.0	18.2	4.19	.64	.80	.94	59.5	17.4	4.70	.65	.81	.96	57.0	16.7	5.28	.66	.83	.98
71°F (22°C)	1700	800	65.0	19.0	3.76	.46	.59	.71	63.0	18.5	4.21	.46	.60	.72	61.0	17.9	4.72	.47	.60	.73	58.5	17.1	5.30	.47	.61	.75
	1900	895	67.0	19.6	3.77	.47	.60	.73	64.5	18.9	4.23	.47	.61	.75	62.0	18.2	4.74	.48	.62	.76	59.5	17.4	5.32	.48	.63	.78
	2095	990	68.0	19.9	3.79	.48	.62	.76	65.0	19.0	4.24	.48	.63	.77	63.0	18.5	4.75	.48	.64	.79	60.5	17.7	5.33	.50	.65	.81

COOLING CAPACITY - 13HPD-060 with [CH23-68 + G61MPV-60D-135] [CH23-68 + G71MPP-60D-135]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1525	720	57.0	16.7	3.65	.74	.86	.98	55.0	16.1	4.11	.75	.88	.99	52.5	15.4	4.62	.76	.90	1.00	50.5	14.8	5.20	.77	.91	1.00
	1780	840	58.5	17.1	3.68	.77	.90	1.00	56.5	16.6	4.13	.78	.92	1.00	54.5	16.0	4.64	.79	.94	1.00	52.0	15.2	5.22	.81	.96	1.00
	1985	935	60.0	17.6	3.69	.80	.94	1.00	58.0	17.0	4.15	.81	.96	1.00	56.0	16.4	4.66	.83	.98	1.00	53.5	15.7	5.24	.85	.99	1.00
67°F (19°C)	1525	720	60.5	17.7	3.70	.59	.71	.83	58.5	17.1	4.15	.60	.72	.84	56.0	16.4	4.66	.61	.74	.86	54.0	15.8	5.24	.62	.75	.88
	1780	840	62.0	18.2	3.72	.61	.74	.87	60.0	17.6	4.17	.62	.75	.89	58.0	17.0	4.68	.62	.77	.91	55.5	16.3	5.27	.64	.79	.93
	1985	935	63.5	18.6	3.74	.63	.77	.91	61.5	18.0	4.19	.64	.79	.93	59.0	17.3	4.70	.65	.80	.95	57.0	16.7	5.28	.66	.82	.97
71°F (22°C)	1525	720	64.0	18.8	3.74	.46	.58	.69	62.0	18.2	4.19	.46	.58	.70	59.5	17.4	4.71	.46	.59	.71	57.0	16.7	5.28	.47	.60	.72
	1780	840	66.0	19.3	3.77	.46	.60	.72	63.5	18.6	4.22	.47	.60	.73	61.5	18.0	4.73	.47	.61	.74	59.0	17.3	5.30	.48	.62	.76
	1985	935	67.0	19.6	3.79	.48	.62	.75	65.0	19.0	4.24	.48	.63	.76	62.5	18.3	4.74	.49	.64	.78	60.0	17.6	5.32	.50	.65	.80

HEATING CAPACITY - 13HPD-060 with [CH23-68 + G60UHV-60D-135]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1699	800	67.0	19.6	4.02	52.3	15.3	3.71	36.7	10.8	3.39	27.2	8.0	3.06	13.7	4.0	2.26
1900	895	67.4	19.8	3.89	52.7	15.4	3.59	37.1	10.9	3.27	27.6	8.1	2.93	14.1	4.1	2.14
2095	990	68.1	20.0	3.81	53.4	15.6	3.50	37.8	11.1	3.18	28.3	8.3	2.85	14.8	4.3	2.05

HEATING CAPACITY - 13HPD-060 with [CH23-68 + G61MPV-60D-135] [CH23-68 + G71MPP-60D-135]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1526	720	66.9	19.6	4.17	52.4	15.4	3.85	36.8	10.8	3.51	27.4	8.0	3.17	13.8	4.0	2.36
1780	840	67.2	19.7	3.98	52.6	15.4	3.66	37.1	10.9	3.31	27.6	8.1	2.97	14.1	4.1	2.17
1986	935	68.5	20.1	3.88	53.9	15.8	3.56	38.4	11.3	3.22	28.9	8.5	2.88	15.4	4.5	2.07

HEATING PERFORMANCE at 1900 cfm (895 L/s) Indoor Coil Air Volume 13HPD-060 with [CH23-68 + G60UHV-60D-135]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.89	67.4	19.8
60	16	3.82	64.1	18.8
55	13	3.76	60.7	17.8
50	10	3.69	57.4	16.8
47	8	3.64	55.4	16.2
45	7	3.59	52.7	15.4
40	4	3.45	45.8	13.4
35	2	3.31	39.0	11.4
30	-1	3.29	38.0	11.1
25	-4	3.27	37.1	10.9
20	-7	3.24	36.1	10.6
17	-8	3.23	35.6	10.4
15	-9	3.20	34.3	10.1
10	-12	3.13	30.9	9.1
5	-15	2.93	27.6	8.1
0	-18	2.73	24.2	7.1
-5	-21	2.54	20.8	6.1
-10	-23	2.34	17.4	5.1
-15	-26	2.14	14.1	4.1
-20	-29	1.94	10.7	3.1

HEATING PERFORMANCE at 1780 cfm (840 L/s) Indoor Coil Air Volume 13HPD-060 with [CH23-68 + G61MPV-60D-135] [CH23-68 + G71MPP-60D-135]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.98	67.2	19.7
60	16	3.91	63.9	18.7
55	13	3.83	60.6	17.8
50	10	3.76	57.3	16.8
47	8	3.72	55.4	16.2
45	7	3.66	52.6	15.4
40	4	3.51	45.8	13.4
35	2	3.36	38.9	11.4
30	-1	3.34	38.0	11.1
25	-4	3.31	37.1	10.9
20	-7	3.29	36.2	10.6
17	-8	3.28	35.6	10.4
15	-9	3.25	34.3	10.1
10	-12	3.17	31.0	9.1
5	-15	2.97	27.6	8.1
0	-18	2.77	24.2	7.1
-5	-21	2.57	20.9	6.1
-10	-23	2.37	17.5	5.1
-15	-26	2.17	14.1	4.1
-20	-29	1.97	10.7	3.1

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HORIZONTAL INDOOR COILS WITH GAS FURNACES

COOLING CAPACITY - 13HPD-060 with [CH33-50/60C-2F + G60UHV-60C-090]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1575	745	57.0	16.7	3.65	.74	.87	.99	55.0	16.1	4.11	.75	.88	1.00	53.0	15.5	4.62	.76	.90	1.00	50.5	14.8	5.20	.78	.92	1.00
	1795	845	58.5	17.1	3.67	.77	.90	1.00	56.5	16.6	4.13	.78	.92	1.00	54.5	16.0	4.64	.79	.94	1.00	52.0	15.2	5.22	.81	.96	1.00
	2035	960	60.0	17.6	3.69	.80	.94	1.00	58.0	17.0	4.15	.81	.96	1.00	56.0	16.4	4.66	.83	.98	1.00	53.5	15.7	5.24	.84	1.00	1.00
67°F (19°C)	1575	745	60.0	17.6	3.69	.60	.72	.84	58.0	17.0	4.15	.60	.73	.85	56.0	16.4	4.66	.61	.74	.87	54.0	15.8	5.24	.62	.75	.88
	1795	845	61.5	18.0	3.71	.61	.74	.87	59.5	17.4	4.17	.62	.75	.89	57.5	16.9	4.68	.63	.77	.90	55.0	16.1	5.26	.63	.78	.92
	2035	960	63.5	18.6	3.73	.64	.78	.91	61.0	17.9	4.19	.65	.79	.93	59.0	17.3	4.70	.65	.80	.95	56.5	16.6	5.27	.66	.82	.97
71°F (22°C)	1575	745	63.5	18.6	3.73	.47	.58	.69	61.5	18.0	4.19	.47	.59	.70	59.0	17.3	4.70	.47	.60	.72	57.0	16.7	5.28	.48	.60	.73
	1795	845	65.0	19.0	3.75	.47	.60	.72	63.0	18.5	4.21	.47	.60	.73	60.5	17.7	4.72	.48	.61	.74	58.0	17.0	5.29	.48	.62	.76
	2035	960	67.0	19.6	3.78	.49	.62	.75	64.5	18.9	4.23	.49	.63	.76	62.0	18.2	4.74	.49	.64	.78	59.5	17.4	5.32	.50	.65	.80

COOLING CAPACITY - 13HPD-060 with [CH33-50/60C-2F + G60UHV-60C-110]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1465	690	56.0	16.4	3.65	.73	.85	.97	54.0	15.8	4.10	.74	.86	.98	52.0	15.2	4.61	.75	.88	1.00	50.0	14.7	5.20	.76	.90	1.00
	1730	815	58.0	17.0	3.67	.76	.89	1.00	56.0	16.4	4.12	.77	.91	1.00	54.0	15.8	4.64	.78	.93	1.00	51.5	15.1	5.22	.79	.95	1.00
	1925	910	59.5	17.4	3.68	.79	.93	1.00	57.5	16.9	4.14	.80	.94	1.00	55.0	16.1	4.65	.81	.96	1.00	53.0	15.5	5.23	.83	.98	1.00
67°F (19°C)	1465	690	59.0	17.3	3.68	.59	.71	.82	57.5	16.9	4.14	.60	.72	.83	55.0	16.1	4.65	.60	.73	.84	53.0	15.5	5.23	.61	.74	.86
	1730	815	61.5	18.0	3.71	.61	.73	.85	59.0	17.3	4.16	.61	.74	.87	57.0	16.7	4.67	.62	.76	.89	54.5	16.0	5.25	.63	.77	.91
	1925	910	62.5	18.3	3.72	.63	.76	.90	60.5	17.7	4.18	.63	.78	.91	58.5	17.1	4.69	.64	.79	.93	56.0	16.4	5.27	.65	.81	.95
71°F (22°C)	1465	690	62.5	18.3	3.72	.46	.58	.68	60.5	17.7	4.17	.47	.58	.69	58.5	17.1	4.69	.47	.59	.70	56.0	16.4	5.27	.47	.59	.71
	1730	815	64.5	18.9	3.75	.47	.59	.71	62.5	18.3	4.20	.47	.60	.72	60.0	17.6	4.71	.47	.61	.73	58.0	17.0	5.29	.48	.61	.75
	1925	910	66.0	19.3	3.77	.48	.61	.74	64.0	18.8	4.22	.49	.62	.75	61.5	18.0	4.73	.49	.63	.76	59.0	17.3	5.31	.49	.64	.78

HEATING CAPACITY - 13HPD-060 with [CH33-50/60C-2F + G60UHV-60C-090]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1576	745	66.5	19.5	4.65	52.1	15.3	4.23	36.8	10.8	3.80	27.5	8.1	3.36	13.8	4.0	2.51
1795	845	66.9	19.6	4.45	52.5	15.4	4.03	37.2	10.9	3.60	27.9	8.2	3.16	14.2	4.2	2.32
2036	960	68.3	20.0	4.32	54.0	15.8	3.90	38.6	11.3	3.47	29.3	8.6	3.03	15.6	4.6	2.19

HEATING CAPACITY - 13HPD-060 with [CH33-50/60C-2F + G60UHV-60C-110]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1466	690	66.3	19.4	4.76	51.9	15.2	4.33	36.6	10.7	3.89	27.3	8.0	3.44	13.7	4.0	2.59
1730	815	66.7	19.5	4.50	52.3	15.3	4.07	37.0	10.8	3.63	27.7	8.1	3.18	14.1	4.1	2.33
1923	910	68.0	19.9	4.40	53.7	15.7	3.98	38.4	11.3	3.53	29.1	8.5	3.08	15.5	4.5	2.23

HEATING PERFORMANCE at 1795 cfm (845 L/s) Indoor Coil Air Volume 13HPD-060 with [CH33-50/60C-2F + G60UHV-60C-090]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	4.45	66.9	19.6
60	16	4.35	63.7	18.7
55	13	4.25	60.4	17.7
50	10	4.16	57.2	16.8
47	8	4.10	55.3	16.2
45	7	4.03	52.5	15.4
40	4	3.87	45.7	13.4
35	2	3.71	38.9	11.4
30	-1	3.66	38.1	11.2
25	-4	3.60	37.2	10.9
20	-7	3.54	36.3	10.6
17	-8	3.51	35.8	10.5
15	-9	3.47	34.5	10.1
10	-12	3.37	31.3	9.2
5	-15	3.16	27.9	8.2
0	-18	2.95	24.4	7.2
-5	-21	2.74	21.0	6.2
-10	-23	2.53	17.6	5.2
-15	-26	2.32	14.2	4.2
-20	-29	2.10	10.7	3.1

HEATING PERFORMANCE at 1730 cfm (815 L/s) Indoor Coil Air Volume 13HPD-060 with [CH33-50/60C-2F + G60UHV-60C-110]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	4.50	66.7	19.5
60	16	4.40	63.5	18.6
55	13	4.30	60.2	17.6
50	10	4.20	57.0	16.7
47	8	4.14	55.1	16.1
45	7	4.07	52.3	15.3
40	4	3.91	45.5	13.3
35	2	3.75	38.7	11.3
30	-1	3.69	37.9	11.1
25	-4	3.63	37.0	10.8
20	-7	3.57	36.2	10.6
17	-8	3.53	35.7	10.5
15	-9	3.49	34.4	10.1
10	-12	3.39	31.2	9.1
5	-15	3.18	27.7	8.1
0	-18	2.97	24.3	7.1
-5	-21	2.75	20.9	6.1
-10	-23	2.54	17.5	5.1
-15	-26	2.33	14.1	4.1
-20	-29	2.12	10.7	3.1

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HORIZONTAL INDOOR COILS WITH GAS FURNACES

COOLING CAPACITY - 13HPD-060 with [CH33-60D-2F + G60UHV-60D-135]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1700	800	57.0	16.7	3.66	.75	.88	1.00	55.0	16.1	4.11	.76	.89	1.00	53.0	15.5	4.63	.77	.91	1.00	51.0	14.9	5.21	.79	.93	1.00
	1900	895	58.5	17.1	3.67	.77	.91	1.00	56.5	16.6	4.13	.78	.93	1.00	54.5	16.0	4.64	.80	.94	1.00	52.0	15.2	5.22	.81	.97	1.00
	2095	990	59.5	17.4	3.69	.80	.94	1.00	57.5	16.9	4.14	.81	.96	1.00	55.5	16.3	4.66	.82	.98	1.00	53.0	15.5	5.23	.84	1.00	1.00
67°F (19°C)	1700	800	60.5	17.7	3.70	.60	.72	.85	58.5	17.1	4.15	.61	.74	.86	56.5	16.6	4.66	.61	.75	.88	54.0	15.8	5.24	.62	.76	.90
	1900	895	61.5	18.0	3.71	.61	.75	.88	59.5	17.4	4.17	.62	.76	.89	57.5	16.9	4.68	.63	.77	.91	55.0	16.1	5.26	.64	.79	.93
	2095	990	63.0	18.5	3.73	.63	.77	.91	60.5	17.7	4.18	.64	.78	.92	58.5	17.1	4.69	.65	.80	.95	56.0	16.4	5.27	.66	.82	.97
71°F (22°C)	1700	800	63.5	18.6	3.74	.47	.59	.70	61.5	18.0	4.19	.47	.59	.71	59.5	17.4	4.71	.47	.60	.72	57.0	16.7	5.28	.48	.61	.74
	1900	895	65.0	19.0	3.76	.47	.60	.73	63.0	18.5	4.21	.47	.61	.74	60.5	17.7	4.72	.48	.62	.75	58.5	17.1	5.30	.48	.63	.76
	2095	990	66.0	19.3	3.77	.48	.62	.75	64.0	18.8	4.22	.48	.62	.76	61.5	18.0	4.73	.49	.63	.77	59.5	17.4	5.31	.49	.64	.79

COOLING CAPACITY - 13HPD-060 with [CH33-60D-2F + G61MPV-60D-135] [CH33-60D-2F + G71MPP-60D-135]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1525	720	56.0	16.4	3.64	.73	.86	.97	54.0	15.8	4.10	.74	.87	.99	52.0	15.2	4.61	.75	.89	1.00	50.0	14.7	5.20	.77	.90	1.00
	1780	840	58.0	17.0	3.66	.76	.89	1.00	56.0	16.4	4.12	.77	.91	1.00	53.5	15.7	4.63	.78	.93	1.00	51.5	15.1	5.22	.80	.95	1.00
	1985	935	59.0	17.3	3.68	.79	.93	1.00	57.0	16.7	4.14	.80	.95	1.00	55.0	16.1	4.65	.81	.97	1.00	53.0	15.5	5.23	.83	.99	1.00
67°F (19°C)	1525	720	59.0	17.3	3.68	.59	.71	.82	57.0	16.7	4.13	.60	.72	.83	55.0	16.1	4.65	.60	.73	.85	53.0	15.5	5.23	.61	.74	.87
	1780	840	61.0	17.9	3.70	.61	.74	.86	59.0	17.3	4.16	.61	.75	.87	57.0	16.7	4.67	.62	.76	.89	54.5	16.0	5.25	.63	.77	.91
	1985	935	62.5	18.3	3.72	.63	.76	.90	60.5	17.7	4.17	.63	.78	.91	58.0	17.0	4.69	.64	.79	.93	55.5	16.3	5.26	.65	.81	.96
71°F (22°C)	1525	720	62.5	18.3	3.72	.47	.58	.68	60.5	17.7	4.18	.47	.58	.69	58.0	17.0	4.69	.47	.59	.70	56.0	16.4	5.27	.47	.60	.72
	1780	840	64.5	18.9	3.74	.47	.59	.71	62.0	18.2	4.20	.47	.60	.72	60.0	17.6	4.71	.47	.61	.74	57.5	16.9	5.29	.48	.62	.75
	1985	935	66.0	19.3	3.77	.48	.62	.74	63.5	18.6	4.22	.49	.62	.75	61.5	18.0	4.73	.49	.63	.77	59.0	17.3	5.31	.49	.64	.78

HEATING CAPACITY - 13HPD-060 with [CH33-60D-2F + G60UHV-60D-135]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1699	800	66.3	19.4	4.57	51.9	15.2	4.15	36.5	10.7	3.71	27.2	8.0	3.28	13.7	4.0	2.44
1900	895	66.7	19.5	4.43	52.3	15.3	4.01	36.9	10.8	3.57	27.6	8.1	3.13	14.0	4.1	2.30
2095	990	67.4	19.8	4.32	53.0	15.5	3.90	37.7	11.0	3.46	28.3	8.3	3.03	14.8	4.3	2.19

HEATING CAPACITY - 13HPD-060 with [CH33-60D-2F + G61MPV-60D-135] [CH33-60D-2F + G71MPP-60D-135]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1526	720	66.2	19.4	4.77	51.9	15.2	4.33	36.6	10.7	3.88	27.3	8.0	3.43	13.7	4.0	2.58
1780	840	66.5	19.5	4.52	52.2	15.3	4.09	36.9	10.8	3.63	27.7	8.1	3.18	14.1	4.1	2.34
1986	935	67.9	19.9	4.42	53.6	15.7	3.98	38.3	11.2	3.53	29.0	8.5	3.08	15.4	4.5	2.23

HEATING PERFORMANCE at 1900 cfm (895 L/s) Indoor Coil Air Volume 13HPD-060 with [CH33-60D-2F + G60UHV-60D-135]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	4.43	66.7	19.5
60	16	4.33	63.4	18.6
55	13	4.23	60.2	17.6
50	10	4.13	57.0	16.7
47	8	4.07	55.0	16.1
45	7	4.01	52.3	15.3
40	4	3.84	45.5	13.3
35	2	3.68	38.7	11.3
30	-1	3.62	37.8	11.1
25	-4	3.57	36.9	10.8
20	-7	3.51	36.1	10.6
17	-8	3.48	35.5	10.4
15	-9	3.44	34.2	10.0
10	-12	3.34	31.0	9.1
5	-15	3.13	27.6	8.1
0	-18	2.92	24.2	7.1
-5	-21	2.72	20.8	6.1
-10	-23	2.51	17.4	5.1
-15	-26	2.30	14.0	4.1
-20	-29	2.09	10.7	3.1

HEATING PERFORMANCE at 1780 cfm (840 L/s) Indoor Coil Air Volume 13HPD-060 with [CH33-60D-2F + G61MPV-60D-135] [CH33-60D-2F + G71MPP-60D-135]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	4.52	66.5	19.5
60	16	4.42	63.3	18.6
55	13	4.32	60.1	17.6
50	10	4.21	56.9	16.7
47	8	4.15	54.9	16.1
45	7	4.09	52.2	15.3
40	4	3.92	45.4	13.3
35	2	3.75	38.6	11.3
30	-1	3.69	37.8	11.1
25	-4	3.63	36.9	10.8
20	-7	3.57	36.1	10.6
17	-8	3.54	35.6	10.4
15	-9	3.50	34.3	10.1
10	-12	3.39	31.1	9.1
5	-15	3.18	27.7	8.1
0	-18	2.97	24.3	7.1
-5	-21	2.76	20.9	6.1
-10	-23	2.55	17.5	5.1
-15	-26	2.34	14.1	4.1
-20	-29	2.12	10.7	3.1

NOTES: For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HORIZONTAL INDOOR COILS WITH GAS FURNACES

COOLING CAPACITY - 13HPD-060 with [CH33-62D-2F + G60UHV-60D-135]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1545	730	56.5	16.6	3.65	.73	.85	.97	54.5	16.0	4.10	.74	.86	.98	52.5	15.4	4.62	.75	.88	1.00	50.5	14.8	5.20	.77	.90	1.00
	1745	825	58.0	17.0	3.67	.75	.88	1.00	56.0	16.4	4.13	.76	.89	1.00	54.0	15.8	4.64	.77	.91	1.00	52.0	15.2	5.22	.79	.93	1.00
	1940	915	59.5	17.4	3.69	.78	.91	1.00	57.5	16.9	4.14	.79	.93	1.00	55.5	16.3	4.65	.80	.95	1.00	53.0	15.5	5.23	.82	.97	1.00
67°F (19°C)	1545	730	59.5	17.4	3.69	.59	.71	.82	57.5	16.9	4.14	.60	.72	.83	55.5	16.3	4.66	.60	.73	.85	53.5	15.7	5.23	.61	.74	.86
	1745	825	61.5	18.0	3.71	.60	.73	.85	59.5	17.4	4.16	.61	.74	.86	57.0	16.7	4.67	.62	.75	.88	55.0	16.1	5.26	.63	.76	.90
	1940	915	63.0	18.5	3.73	.62	.75	.88	61.0	17.9	4.18	.63	.76	.90	58.5	17.1	4.69	.64	.78	.91	56.0	16.4	5.27	.65	.79	.94
71°F (22°C)	1545	730	63.0	18.5	3.73	.46	.58	.68	61.0	17.9	4.18	.47	.58	.69	58.5	17.1	4.69	.47	.59	.70	56.5	16.6	5.27	.47	.60	.72
	1745	825	64.5	18.9	3.75	.47	.59	.70	62.5	18.3	4.20	.47	.60	.71	60.0	17.6	4.71	.47	.60	.73	57.5	16.9	5.29	.48	.61	.74
	1940	915	66.0	19.3	3.77	.48	.61	.73	64.0	18.8	4.22	.48	.61	.74	61.5	18.0	4.73	.48	.62	.75	59.0	17.3	5.31	.49	.63	.77

COOLING CAPACITY - 13HPD-060 with [CH33-62D-2F + G61MPV-60D-135] [CH33-62D-2F + G71MPP-60D-135]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1525	720	56.5	16.6	3.65	.73	.85	.96	54.5	16.0	4.10	.74	.86	.98	52.5	15.4	4.62	.75	.88	1.00	50.5	14.8	5.20	.76	.90	1.00
	1780	840	58.5	17.1	3.68	.76	.89	1.00	56.5	16.6	4.13	.77	.90	1.00	54.5	16.0	4.64	.78	.92	1.00	52.0	15.2	5.22	.79	.94	1.00
	1985	935	60.0	17.6	3.69	.78	.92	1.00	58.0	17.0	4.14	.80	.94	1.00	56.0	16.4	4.66	.81	.96	1.00	53.5	15.7	5.24	.83	.98	1.00
67°F (19°C)	1525	720	59.5	17.4	3.69	.59	.71	.82	57.5	16.9	4.14	.60	.72	.83	55.5	16.3	4.66	.60	.73	.84	53.5	15.7	5.23	.61	.74	.86
	1780	840	61.5	18.0	3.71	.61	.73	.85	59.5	17.4	4.16	.61	.74	.87	57.5	16.9	4.68	.62	.76	.89	55.0	16.1	5.26	.63	.77	.90
	1985	935	63.5	18.6	3.73	.63	.76	.89	61.0	17.9	4.19	.63	.77	.91	59.0	17.3	4.70	.64	.79	.93	56.5	16.6	5.27	.65	.80	.95
71°F (22°C)	1525	720	62.5	18.3	3.72	.46	.58	.68	60.5	17.7	4.18	.47	.58	.69	58.5	17.1	4.69	.47	.59	.70	56.0	16.4	5.27	.47	.60	.72
	1780	840	65.0	19.0	3.75	.47	.59	.71	62.5	18.3	4.21	.47	.60	.72	60.5	17.7	4.72	.48	.61	.73	58.0	17.0	5.29	.48	.62	.75
	1985	935	67.0	19.6	3.77	.48	.61	.74	64.5	18.9	4.23	.49	.62	.75	62.0	18.2	4.74	.49	.63	.76	59.5	17.4	5.31	.49	.64	.78

HEATING CAPACITY - 13HPD-060 with [CH33-62D-2F + G60UHV-60D-135]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1544	730	66.1	19.4	4.68	51.7	15.2	4.25	36.4	10.7	3.81	27.2	8.0	3.37	13.7	4.0	2.52
1745	825	66.4	19.5	4.49	52.0	15.2	4.07	36.7	10.8	3.63	27.4	8.0	3.19	14.0	4.1	2.34
1940	915	67.3	19.7	4.37	53.0	15.5	3.94	37.7	11.0	3.50	28.4	8.3	3.06	14.9	4.4	2.21

HEATING CAPACITY - 13HPD-060 with [CH33-62D-2F + G61MPV-60D-135] [CH33-62D-2F + G71MPP-60D-135]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1526	720	66.3	19.4	4.70	51.9	15.2	4.28	36.6	10.7	3.85	27.3	8.0	3.42	13.7	4.0	2.57
1780	840	66.6	19.5	4.46	52.2	15.3	4.04	36.9	10.8	3.61	27.6	8.1	3.18	14.1	4.1	2.33
1986	935	67.9	19.9	4.34	53.6	15.7	3.93	38.3	11.2	3.50	29.0	8.5	3.06	15.4	4.5	2.21

HEATING PERFORMANCE at 1745 cfm (825 L/s) Indoor Coil Air Volume 13HPD-060 with [CH33-62D-2F + G60UHV-60D-135]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	4.49	66.4	19.5
60	16	4.39	63.1	18.5
55	13	4.29	59.9	17.6
50	10	4.19	56.6	16.6
47	8	4.13	54.7	16.0
45	7	4.07	52.0	15.2
40	4	3.90	45.2	13.2
35	2	3.74	38.4	11.3
30	-1	3.68	37.6	11.0
25	-4	3.63	36.7	10.8
20	-7	3.57	35.8	10.5
17	-8	3.54	35.3	10.3
15	-9	3.50	34.0	10.0
10	-12	3.40	30.8	9.0
5	-15	3.19	27.4	8.0
0	-18	2.97	24.0	7.0
-5	-21	2.76	20.7	6.1
-10	-23	2.55	17.3	5.1
-15	-26	2.34	14.0	4.1
-20	-29	2.12	10.6	3.1

HEATING PERFORMANCE at 1780 cfm (840 L/s) Indoor Coil AirVolume 13HPD-060 with [CH33-62D-2F + G61MPV-60D-135] [CH33-62D-2F + G71MPP-60D-135]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	4.46	66.6	19.5
60	16	4.36	63.4	18.6
55	13	4.26	60.1	17.6
50	10	4.17	56.9	16.7
47	8	4.11	55.0	16.1
45	7	4.04	52.2	15.3
40	4	3.88	45.5	13.3
35	2	3.72	38.7	11.3
30	-1	3.67	37.8	11.1
25	-4	3.61	36.9	10.8
20	-7	3.56	36.1	10.6
17	-8	3.53	35.5	10.4
15	-9	3.49	34.3	10.1
10	-12	3.39	31.0	9.1
5	-15	3.18	27.6	8.1
0	-18	2.97	24.2	7.1
-5	-21	2.75	20.8	6.1
-10	-23	2.54	17.4	5.1
-15	-26	2.33	14.1	4.1
-20	-29	2.12	10.7	3.1

REVISIONS

Description of Change
Added ratings for CBX40UHV Air Handler.