



ENGINEERING DATA

AIR HANDLERS

CB27UH/CBX27UH

ARI and Expanded Ratings For Commercial Heat Pumps

Bulletin No. 210482

April 2007

Supersedes December 2006

ARI RATINGS SPB

1 ARI Standard 210/240 Ratings													Indoor Unit Model No.	Expansion Device
Capacity - Btuh			Efficiency				Total Watts			COP				
Cooling	High Temp. Heating	Low Temp. Heating	SEER	EER	HSPF		Cool	High Heat	Low Heat	High Heat	Low Heat			
SPB036													3 TON	
35,600	33,000	19,700	15.70	11.70	8.20	7.00	3000	2835	2440	3.42	2.36	4 CBX27UH-036 (Up-Flow / Horizontal)		2 49L24
36,800	32,800	19,700	16.20	12.20	8.20	7.20	2970	2805	2385	3.42	2.42	4 CBX27UH-042 (Up-Flow / Horizontal)		2 49L24
SPB048													4 TON	
47,500	45,000	27,000	15.70	12.00	8.00	7.00	3960	3910	3320	3.38	2.38	4 CBX27UH-048 (Up-Flow / Horizontal)		Factory TXV
47,000	45,000	26,800	15.70	11.70	8.00	6.70	3960	3990	3375	3.30	2.32	4 CBX27UH-060 (Up-Flow / Horizontal)		Factory TXV
SPB060													5 TON	
56,500	52,500	33,200	15.20	11.20	8.50	7.20	4985	4710	4115	3.26	2.36	4 CBX27UH-060 (Up-Flow / Horizontal)		Factory TXV

¹ Certified in accordance with USE certification program which is based on ARI Standard 210/240 with 25 ft. (7.6 m) of connecting refrigerant lines;
Cooling Ratings - 95°F (35°C) outdoor air temperature and 80°F (27°C) db/67°F (19°C) wb entering indoor coil air.
High Temperature Heating Ratings - 47°F (8°C) db/43°F (6°C) wb outdoor air temperature and 70°F (21°C) db entering indoor coil air.
Low Temperature Heating Ratings - 17°F (-8.3°C) db/15°F (-9.4°C) wb outdoor air temperature and 70°F (21°C) db entering indoor coil air.

² **Factory installed expansion valve or RFC on indoor unit MUST be replaced with valve specified.**

⁴ Blower control must be set for a time-off blower delay.

ARI RATINGS TP (R-410A)

1 ARI Standard 210/240 Ratings													Indoor Unit Model No.	Expansion Device
Capacity - Btuh			Efficiency				Total Watts			COP				
Cooling	High Temp. Heating	Low Temp. Heating	SEER	EER	HSPF		Cool	High Heat	Low Heat	High Heat	Low Heat			
TPA036S4													3 TON	
34,200	33,800	21,000	13.50	11.00	8.20	7.20	3110	2605	2380	3.80	2.58	4 CBX27UH-036 (Up-Flow / Horizontal)		Factory TXV
35,400	33,800	21,000	14.00	11.50	8.50	7.20	3080	2545	2330	3.90	2.64	4 CBX27UH-042 (Up-Flow / Horizontal)		Factory TXV
TPA042S4													3.5 TON	
42,500	41,000	25,400	14.00	12.00	8.20	7.20	3540	3345	3035	3.60	2.46	4 CBX27UH-042 (Up-Flow / Horizontal)		Factory TXV
42,500	41,000	25,400	14.00	12.00	8.20	7.20	3540	3355	3045	3.58	2.44	4 CBX27UH-048 (Up-Flow / Horizontal)		2 49L25
TPA048S4													4 TON	
47,500	45,500	29,400	13.50	11.00	8.20	7.20	4320	3780	3445	3.52	2.50	4 CBX27UH-048 (Up-Flow / Horizontal)		Factory TXV
47,000	45,500	29,200	13.50	11.00	7.70	7.20	4275	3795	3460	3.52	2.48	4 CBX27UH-060 (Up-Flow / Horizontal)		Factory TXV
TPA060S4													5 TON	
57,000	56,000	36,400	13.00	11.00	7.70	6.70	5340	4890	4375	3.36	2.44	4 CBX27UH-060 (Up-Flow / Horizontal)		Factory TXV

¹ Certified in accordance with USE certification program which is based on ARI Standard 210/240 with 25 ft. (7.6 m) of connecting refrigerant lines;
Cooling Ratings - 95°F (35°C) outdoor air temperature and 80°F (27°C) db/67°F (19°C) wb entering indoor coil air.
High Temperature Heating Ratings - 47°F (8°C) db/43°F (6°C) wb outdoor air temperature and 70°F (21°C) db entering indoor coil air.
Low Temperature Heating Ratings - 17°F (-8.3°C) db/15°F (-9.4°C) wb outdoor air temperature and 70°F (21°C) db entering indoor coil air.

² **Factory installed expansion valve or RFC on indoor unit MUST be replaced with valve specified.**

⁴ Blower control must be set for a time-off blower delay.

ARI RATINGS
TP (R-22)

1 ARI Standard 210/240 Ratings													Indoor Unit Model No.	Expansion Device
Capacity - Btuh			Efficiency				Total Watts			COP				
Cooling	High Temp. Heating	Low Temp. Heating	SEER	EER	HSPF		Cool	High Heat	Low Heat	High Heat	Low Heat			
TPA036S2													3 TON	
34,800	33,200	20,600	13.50	11.00	7.70	6.70	3165	2705	2570	3.60	2.34	4 CB27UH-036 (Up-Flow / Horizontal)		Factory TXV 2 56J20
36,400	33,000	20,400	14.00	12.00	7.70	6.70	3035	2700	2505	3.58	2.38	4 CB27UH-042 (Up-Flow / Horizontal)		
TPA048S2													4 TON	
49,500	47,500	30,200	13.00	11.00	8.50	7.50	4500	3690	3435	3.78	2.58	4 CB27UH-048 (Up-Flow / Horizontal)		Factory TXV
49,000	47,500	30,200	13.00	11.00	8.50	7.50	4455	3660	3420	3.80	2.58	4 CB27UH-060 (Up-Flow / Horizontal)		Factory TXV
TPA060S2													5 TON	
54,000	55,000	35,400	13.00	11.00	7.70	6.70	4950	4580	3950	3.52	2.62	4 CB27UH-060 (Up-Flow / Horizontal)		Factory TXV

1 Certified in accordance with USE certification program which is based on ARI Standard 210/240 with 25 ft. (7.6 m) of connecting refrigerant lines;
Cooling Ratings - 95°F (35°C) outdoor air temperature and 80°F (27°C) db/67°F (19°C) wb entering indoor coil air.
High Temperature Heating Ratings - 47°F (8°C) db/43°F (6°C) wb outdoor air temperature and 70°F (21°C) db entering indoor coil air.
Low Temperature Heating Ratings - 17°F (-8.3°C) db/15°F (-9.4°C) wb outdoor air temperature and 70°F (21°C) db entering indoor coil air.
2 **Factory installed expansion valve or RFC on indoor unit MUST be replaced with valve specified.**
4 Blower control must be set for a time-off blower delay.

ARI RATINGS
HP29

1 ARI Standard 210/240 Ratings													Indoor Unit Model No.	Expansion Device
Capacity - Btuh			Efficiency				Total Watts			COP				
Cooling	High Temp. Heating	Low Temp. Heating	SEER	EER	HSPF		Cool	High Heat	Low Heat	High Heat	Low Heat			
HP29-036													3 TON	
35,200	33,800	22,600	11.85	10.00	8.00	7.25	3515	2925	2635	3.38	2.52	4 CB27UH-036 (Up-Flow / Horizontal)		
37,000	33,800	22,400	12.45	10.50	8.10	7.25	3520	2855	2620	3.46	2.50	4 CB27UH-042 (Up-Flow / Horizontal)		
HP29-042													3.5 TON	
41,500	39,500	25,200	11.70	9.95	7.95	6.90	4180	3485	3245	3.32	2.28	4 CB27UH-042 (Up-Flow / Horizontal)		
41,500	39,500	25,400	11.65	9.90	7.95	6.90	4190	3495	3255	3.32	2.28	4 CB27UH-048 (Up-Flow / Horizontal)		
HP29-048													4 TON	
46,000	43,000	27,200	11.25	9.50	7.80	6.90	4830	3815	3440	3.30	2.32	4 CB27UH-048 (Up-Flow / Horizontal)		
45,500	43,000	27,200	11.30	9.50	7.80	6.90	4800	3815	3425	3.30	2.32	4 CB27UH-060 (Up-Flow / Horizontal)		
HP29-060													5 TON	
58,000	54,000	34,600	11.15	9.45	7.30	6.60	6125	5450	4645	2.90	2.18	4 CB27UH-060 (Up-Flow / Horizontal)		

EXPANDED RATING TABLES

SPB - 3 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.

FIRST STAGE COOLING CAPACITY - SPB036 with

[CBX27UH-036]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			75°F (24°C)						85°F (29°C)						95°F (35°C)						105°F (41°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		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 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	27.0	7.9	1.21	.78	.93	1.00	25.6	7.5	1.41	.80	.96	1.00	24.0	7.0	1.64	.82	.99	1.00	22.6	6.6	1.91	.85	1.00	1.00
1000	470	28.2	8.3	1.22	.82	.98	1.00	26.8	7.9	1.42	.85	1.00	1.00	25.4	7.4	1.64	.88	1.00	1.00	23.8	7.0	1.91	.91	1.00	1.00	
67°F (19°C)	840	395	28.8	8.4	1.22	.61	.76	.89	27.4	8.0	1.42	.62	.77	.92	25.8	7.6	1.64	.63	.79	.95	24.0	7.0	1.91	.65	.82	.98
1000	470	29.8	8.7	1.22	.64	.80	.95	28.4	8.3	1.42	.65	.82	.98	26.8	7.9	1.65	.67	.85	1.00	24.8	7.3	1.92	.68	.88	1.00	
71°F (22°C)	840	395	30.6	9.0	1.23	.46	.60	.73	29.2	8.6	1.42	.46	.61	.75	27.4	8.0	1.65	.47	.62	.77	25.8	7.6	1.92	.47	.63	.79
1000	470	31.6	9.3	1.23	.47	.62	.77	30.2	8.9	1.43	.48	.64	.79	28.6	8.4	1.66	.48	.65	.82	26.6	7.8	1.93	.49	.67	.85	

SECOND STAGE COOLING CAPACITY - SPB036 with

[CBX27UH-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		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 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	2.21	.75	.90	1.00	33.2	9.7	2.50	.77	.92	1.00	31.2	9.1	2.83	.79	.96	1.00	29.0	8.5	3.19	.82	.99	1.00
1200	565	36.4	10.7	2.22	.80	.96	1.00	34.4	10.1	2.51	.82	.98	1.00	32.4	9.5	2.83	.85	1.00	1.00	30.4	8.9	3.21	.88	1.00	1.00	
67°F (19°C)	1000	470	37.2	10.9	2.22	.60	.73	.86	35.2	10.3	2.52	.60	.75	.89	33.2	9.7	2.84	.62	.77	.92	30.8	9.0	3.21	.63	.80	.96
1200	565	38.5	11.3	2.24	.62	.78	.92	36.6	10.7	2.53	.63	.80	.95	34.4	10.1	2.85	.65	.82	.98	31.8	9.3	3.21	.67	.85	1.00	
71°F (22°C)	1000	470	39.0	11.4	2.24	.45	.58	.71	37.2	10.9	2.53	.45	.59	.73	35.0	10.3	2.86	.46	.60	.74	32.8	9.6	3.23	.46	.62	.77
1200	565	40.5	11.9	2.25	.46	.61	.75	38.5	11.3	2.55	.47	.62	.77	36.2	10.6	2.87	.47	.64	.80	33.8	9.9	3.23	.48	.66	.83	

FIRST STAGE HEATING CAPACITY - SPB036 with

[CBX27UH-036]

Indoor Coil Air Volume 70°F db (21°C db)			Air Temperature Entering Outdoor Coil											
			65°F (18°C)			60°F (16°C)			55°F (13°C)			50°F (10°C)		
cfm	L/s		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
			kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
840	395		23.2	6.8	1.72	23.2	6.8	1.74	23.1	6.8	1.77	23.0	6.7	1.80
1000	470		23.5	6.9	1.64	23.4	6.9	1.67	23.3	6.8	1.69	23.2	6.8	1.72

SECOND STAGE HEATING CAPACITY - SPB036 with

[CBX27UH-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)		
cfm	L/s		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
			kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1000	470		34.2	10.0	2.86	31.6	9.3	2.40	28.7	8.4	1.91	24.9	7.3	1.63
1200	565		34.9	10.2	2.74	32.3	9.5	2.28	29.5	8.6	1.79	25.6	7.5	1.50

HEATING PERFORMANCE at 1200 cfm (565 L/s) Indoor Coil Air Volume SPB036 with

[CBX27UH-036]

°Outdoor Temperature		Compressor Motor kW Input		Total Output	
°F	°C			kBtuh	kW
65	18	2.74		34.9	10.2
60	16	2.64		34.3	10.1
55	13	2.53		33.8	9.9
50	10	2.43		33.3	9.8
47	8	2.37		32.9	9.6
45	7	2.28		32.3	9.5
40	4	2.06		30.8	9.0
35	2	1.85		29.2	8.6
30	-1	1.82		29.3	8.6
25	-4	1.79		29.5	8.6
20	-7	1.76		29.6	8.7
17	-8	1.74		29.7	8.7
15	-9	1.70		29.5	8.6
10	-12	1.60		28.9	8.5
5	-15	1.50		25.6	7.5
0	-18	1.41		22.3	6.5
-5	-21	1.32		18.9	5.5
-10	-23	1.23		15.6	4.6
-15	-26	1.14		12.2	3.6
-20	-29	1.05		8.9	2.6

EXPANDED RATING TABLES

SPB - 3 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.

FIRST STAGE COOLING CAPACITY - SPB036 with

[CBX27UH-042]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			75°F (24°C)						85°F (29°C)						95°F (35°C)						105°F (41°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		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 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	28.8	8.4	1.22	.82	.98	1.00	27.4	8.0	1.42	.85	1.00	1.00	26.0	7.6	1.65	.88	1.00	1.00	24.4	7.2	1.91	.91	1.00	1.00
	1200	565	30.2	8.9	1.23	.88	1.00	1.00	29.0	8.5	1.42	.91	1.00	1.00	27.4	8.0	1.65	.94	1.00	1.00	25.8	7.6	1.92	.98	1.00	1.00
67°F (19°C)	1000	470	30.4	8.9	1.22	.63	.79	.95	29.0	8.5	1.42	.65	.82	.98	27.4	8.0	1.65	.66	.85	1.00	25.4	7.4	1.92	.69	.88	1.00
	1200	565	31.4	9.2	1.23	.67	.84	1.00	30.0	8.8	1.43	.69	.88	1.00	28.2	8.3	1.65	.70	.91	1.00	26.2	7.7	1.92	.73	.95	1.00
71°F (22°C)	1000	470	32.2	9.4	1.23	.47	.62	.77	30.8	9.0	1.43	.47	.63	.79	29.2	8.6	1.66	.48	.65	.82	27.2	8.0	1.92	.49	.67	.85
	1200	565	33.4	9.8	1.24	.48	.66	.82	31.8	9.3	1.43	.49	.67	.84	30.2	8.9	1.66	.50	.70	.89	28.0	8.2	1.92	.50	.72	.92

SECOND STAGE COOLING CAPACITY - SPB036 with

[CBX27UH-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		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 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	36.2	10.6	2.22	.76	.90	1.00	34.2	10.0	2.51	.77	.92	1.00	32.0	9.4	2.83	.80	.96	1.00	29.8	8.7	3.20	.82	.99	1.00
	1200	565	37.6	11.0	2.23	.80	.96	1.00	35.6	10.4	2.52	.82	.98	1.00	33.4	9.8	2.85	.85	1.00	1.00	31.4	9.2	3.22	.88	1.00	1.00
67°F (19°C)	1000	470	38.5	11.3	2.23	.60	.73	.86	36.2	10.6	2.53	.61	.75	.89	34.2	10.0	2.84	.62	.77	.92	31.8	9.3	3.22	.63	.80	.96
	1200	565	39.5	11.6	2.24	.62	.77	.93	37.6	11.0	2.54	.64	.80	.95	35.2	10.3	2.86	.65	.82	.98	32.8	9.6	3.24	.67	.86	1.00
71°F (22°C)	1000	470	40.5	11.9	2.25	.45	.58	.70	38.5	11.3	2.54	.45	.59	.73	36.0	10.6	2.86	.46	.60	.75	33.6	9.8	3.24	.46	.62	.77
	1200	565	42.0	12.3	2.26	.46	.61	.75	39.5	11.6	2.55	.47	.62	.77	37.4	11.0	2.88	.47	.64	.80	34.8	10.2	3.25	.48	.66	.83

FIRST STAGE HEATING CAPACITY - SPB036 with

[CBX27UH-042]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			60°F (16°C)			55°F (13°C)			50°F (10°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
kBtuh	kW	kBtuh	kW		kBtuh	kW		kBtuh	kW				
1000	470	23.6	6.9	1.62	23.5	6.9	1.65	23.4	6.9	1.67	23.3	6.8	1.70
1200	565	24.0	7.0	1.55	23.8	7.0	1.58	23.7	6.9	1.60	23.6	6.9	1.62

SECOND STAGE HEATING CAPACITY - SPB036 with

[CBX27UH-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
kBtuh	kW	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW				
1000	470	33.8	9.9	2.92	31.7	9.3	2.39	29.3	8.6	1.81	25.5	7.5	1.52	11.8	3.5	1.19
1200	565	34.5	10.1	2.80	32.3	9.5	2.26	30.0	8.8	1.69	26.1	7.6	1.39	12.5	3.7	1.07

HEATING PERFORMANCE at 1200 cfm (565 L/s) Indoor Coil Air Volume SPB036 with

[CBX27UH-042]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.80	34.5	10.1
60	16	2.68	34.0	10.0
55	13	2.56	33.6	9.8
50	10	2.44	33.1	9.7
47	8	2.37	32.8	9.6
45	7	2.26	32.3	9.5
40	4	2.01	31.0	9.1
35	2	1.75	29.7	8.7
30	-1	1.72	29.8	8.7
25	-4	1.69	30.0	8.8
20	-7	1.66	30.1	8.8
17	-8	1.64	30.2	8.9
15	-9	1.60	30.0	8.8
10	-12	1.47	29.5	8.6
5	-15	1.39	26.1	7.6
0	-18	1.31	22.7	6.7
-5	-21	1.23	19.3	5.7
-10	-23	1.15	15.9	4.7
-15	-26	1.07	12.5	3.7
-20	-29	.99	9.0	2.6

EXPANDED RATING TABLES

SPB - 4 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.

FIRST STAGE COOLING CAPACITY - SPB048 with

[CBX27UH-048]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			75°F (24°C)						85°F (29°C)						95°F (35°C)						105°F (41°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		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 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)	1175	555	37.4	11.0	1.69	.79	.94	1.00	35.6	10.4	1.95	.81	.97	1.00	33.6	9.8	2.26	.83	.99	1.00	31.6	9.3	2.59	.86	1.00	1.00
	1455	685	39.5	11.6	1.68	.84	1.00	1.00	37.4	11.0	1.94	.87	1.00	1.00	35.8	10.5	2.24	.90	1.00	1.00	33.8	9.9	2.56	.93	1.00	1.00
67°F (19°C)	1175	555	40.0	11.7	1.68	.62	.76	.91	38.0	11.1	1.94	.62	.78	.93	35.8	10.5	2.23	.64	.80	.96	33.6	9.8	2.57	.65	.83	.99
	1455	685	41.5	12.2	1.68	.65	.82	.97	39.5	11.6	1.93	.66	.84	1.00	37.4	11.0	2.22	.68	.87	1.00	34.8	10.2	2.55	.70	.90	1.00
71°F (22°C)	1175	555	42.0	12.3	1.67	.46	.60	.73	40.5	11.9	1.93	.46	.61	.75	38.0	11.1	2.21	.46	.62	.77	35.8	10.5	2.54	.47	.64	.80
	1455	685	44.0	12.9	1.67	.48	.64	.79	42.0	12.3	1.92	.48	.65	.81	39.5	11.6	2.20	.49	.66	.84	37.2	10.9	2.53	.49	.68	.87

SECOND STAGE COOLING CAPACITY - SPB048 with

[CBX27UH-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		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 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)	1400	660	47.0	13.8	2.91	.77	.91	1.00	44.5	13.0	3.24	.78	.94	1.00	42.0	12.3	3.61	.81	.97	1.00	39.0	11.4	4.02	.83	1.00	1.00
	1600	755	48.5	14.2	2.92	.80	.96	1.00	46.0	13.5	3.26	.82	.98	1.00	43.0	12.6	3.63	.84	1.00	1.00	40.5	11.9	4.04	.88	1.00	1.00
67°F (19°C)	1400	660	50.0	14.7	2.92	.60	.74	.88	47.5	13.9	3.27	.61	.76	.90	44.5	13.0	3.64	.62	.78	.93	41.5	12.2	4.04	.64	.81	.97
	1600	755	51.5	15.1	2.94	.62	.77	.92	48.5	14.2	3.27	.63	.79	.95	46.0	13.5	3.64	.65	.82	.98	42.5	12.5	4.06	.67	.85	1.00
71°F (22°C)	1400	660	53.0	15.5	2.95	.45	.59	.71	50.0	14.7	3.29	.46	.60	.73	47.5	13.9	3.67	.46	.61	.75	44.0	12.9	4.07	.47	.63	.78
	1600	755	54.5	16.0	2.97	.46	.61	.75	51.5	15.1	3.30	.47	.62	.77	48.5	14.2	3.67	.47	.63	.79	45.5	13.3	4.09	.48	.65	.82

FIRST STAGE HEATING CAPACITY - SPB048 with

[CBX27UH-048]

Indoor Coil Air Volume 70°F db (21°C db)			Air Temperature Entering Outdoor Coil											
			65°F (18°C)			60°F (16°C)			55°F (13°C)			50°F (10°C)		
cfm	L/s		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
			kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1175	555		31.8	9.3	2.34	31.6	9.3	2.38	31.3	9.2	2.42	31.1	9.1	2.47
1455	685		32.6	9.6	2.21	32.3	9.5	2.25	32.0	9.4	2.30	31.8	9.3	2.34

SECOND STAGE HEATING CAPACITY - SPB048 with

[CBX27UH-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)		
cfm	L/s		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
			kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1400	660		47.7	14.0	3.87	43.7	12.8	3.21	39.2	11.5	2.52	33.9	9.9	2.10
1600	755		48.5	14.2	3.76	44.5	13.0	3.10	40.0	11.7	2.41	34.8	10.2	2.00

HEATING PERFORMANCE at 1600 cfm (755 L/s) Indoor Coil Air Volume SPB048 with

[CBX27UH-048]

°Outdoor Temperature		Compressor Motor kW Input		Total Output	
°F	°C			kBtuh	kW
65	18	3.76		48.4	14.2
60	16	3.61		47.6	14.0
55	13	3.46		46.8	13.7
50	10	3.31		45.9	13.5
47	8	3.22		45.4	13.3
45	7	3.10		44.4	13.0
40	4	2.81		41.9	12.3
35	2	2.52		39.4	11.5
30	-1	2.46		39.7	11.6
25	-4	2.41		39.9	11.7
20	-7	2.36		40.2	11.8
17	-8	2.32		40.4	11.8
15	-9	2.26		40.0	11.7
10	-12	2.12		39.2	11.5
5	-15	2.00		34.7	10.2
0	-18	1.88		30.2	8.9
-5	-21	1.76		25.7	7.5
-10	-23	1.64		21.1	6.2
-15	-26	1.52		16.6	4.9
-20	-29	1.40		12.1	3.5

EXPANDED RATING TABLES

SPB - 4 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.

FIRST STAGE COOLING CAPACITY - SPB048 with

[CBX27UH-060]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			75°F (24°C)						85°F (29°C)						95°F (35°C)						105°F (41°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		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 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)	1260	595	35.4	10.4	1.69	.80	.96	1.00	33.9	9.9	1.95	.82	.98	1.00	32.4	9.5	2.26	.84	1.00	1.00	30.9	9.1	2.60	.87	1.00	1.00
1600	755	37.5	11.0	1.68	.88	1.00	1.00	36.2	10.6	1.94	.90	1.00	1.00	34.7	10.2	2.23	.92	1.00	1.00	33.1	9.7	2.58	.95	1.00	1.00	
67°F (19°C)	1260	595	37.9	11.1	1.67	.61	.77	.93	36.2	10.6	1.94	.62	.79	.95	34.5	10.1	2.24	.63	.81	.97	32.6	9.6	2.59	.65	.83	.99
1600	755	39.3	11.5	1.67	.71	.85	1.00	37.5	11.0	1.93	.67	.87	1.00	35.7	10.5	2.23	.68	.90	1.00	33.8	9.9	2.57	.71	.92	1.00	
71°F (22°C)	1260	595	41.0	12.0	1.66	.44	.59	.74	39.2	11.5	1.92	.44	.60	.76	37.3	10.9	2.22	.45	.62	.78	35.3	10.4	2.56	.45	.63	.81
1600	755	42.3	12.4	1.66	.46	.64	.82	40.4	11.8	1.92	.47	.66	.84	38.4	11.3	2.21	.47	.67	.87	36.3	10.6	2.55	.48	.69	.90	

SECOND STAGE COOLING CAPACITY - SPB048 with

[CBX27UH-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		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 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)	1260	595	44.5	13.0	2.89	.74	.87	.98	42.5	12.5	3.23	.76	.89	1.00	40.5	11.9	3.59	.78	.92	1.00	37.8	11.1	4.01	.80	.95	1.00
1600	755	47.5	13.9	2.90	.79	.93	1.00	45.0	13.2	3.24	.81	.96	1.00	42.5	12.5	3.62	.83	.98	1.00	40.0	11.7	4.04	.86	1.00	1.00	
67°F (19°C)	1260	595	47.5	13.9	2.90	.60	.72	.83	45.0	13.2	3.25	.60	.73	.86	42.5	12.5	3.61	.61	.75	.88	40.0	11.7	4.03	.63	.77	.92
1600	755	50.0	14.7	2.93	.62	.76	.90	47.5	13.9	3.27	.63	.78	.93	45.0	13.2	3.64	.65	.81	.95	42.0	12.3	4.06	.66	.84	.99	
71°F (22°C)	1260	595	50.0	14.7	2.93	.46	.58	.69	47.5	13.9	3.26	.46	.59	.71	45.0	13.2	3.64	.46	.60	.73	42.5	12.5	4.06	.47	.61	.75
1600	755	53.0	15.5	2.95	.47	.61	.74	50.0	14.7	3.29	.47	.62	.76	47.5	13.9	3.66	.47	.63	.78	44.5	13.0	4.08	.48	.65	.81	

FIRST STAGE HEATING CAPACITY - SPB048 with

[CBX27UH-060]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			60°F (16°C)			55°F (13°C)			50°F (10°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
kBtuh	kW	kBtuh	kW		kBtuh	kW		kBtuh	kW				
1260	595	31.9	9.3	2.37	31.5	9.2	2.42	31.2	9.1	2.46	30.9	9.1	2.50
1600	755	32.8	9.6	2.25	32.5	9.5	2.29	32.2	9.4	2.33	31.9	9.3	2.37

SECOND HEATING CAPACITY - SPB048 with

[CBX27UH-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
kBtuh	kW	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW				
1260	595	46.1	13.5	4.09	42.5	12.5	3.36	38.5	11.3	2.60	33.4	9.8	2.17	15.1	4.4	1.70
1600	755	47.7	14.0	3.89	44.2	13.0	3.17	40.1	11.8	2.40	35.1	10.3	1.98	16.8	4.9	1.51

HEATING PERFORMANCE at 1600 cfm (755 L/s) Indoor Coil Air Volume SPB048 with

[CBX27UH-060]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.89	47.7	14.0
60	16	3.73	47.0	13.8
55	13	3.57	46.3	13.6
50	10	3.40	45.5	13.3
47	8	3.30	45.1	13.2
45	7	3.17	44.2	13.0
40	4	2.84	41.8	12.3
35	2	2.51	39.4	11.5
30	-1	2.45	39.8	11.7
25	-4	2.40	40.1	11.8
20	-7	2.35	40.5	11.9
17	-8	2.32	40.7	11.9
15	-9	2.26	40.4	11.8
10	-12	2.09	39.7	11.6
5	-15	1.98	35.1	10.3
0	-18	1.86	30.5	8.9
-5	-21	1.74	25.9	7.6
-10	-23	1.63	21.4	6.3
-15	-26	1.51	16.8	4.9
-20	-29	1.39	12.2	3.6

EXPANDED RATING TABLES

SPB - 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.

FIRST STAGE COOLING CAPACITY - SPB060 with

[CBX27UH-060]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			75°F (24°C)						85°F (29°C)						95°F (35°C)						105°F (41°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		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 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)	1260	595	43.0	12.6	2.07	.75	.88	.99	41.0	12.0	2.41	.77	.90	1.00	39.0	11.4	2.80	.78	.93	1.00	37.0	10.8	3.24	.81	.96	1.00
	1600	755	45.0	13.2	2.06	.80	.95	1.00	43.5	12.7	2.40	.82	.97	1.00	.0	.0	.00	.84	.93	1.00	39.5	11.6	3.22	.87	1.00	1.00
67°F (19°C)	1260	595	45.5	13.3	2.06	.60	.73	.85	43.5	12.7	2.40	.61	.74	.87	41.5	12.2	2.78	.62	.76	.89	39.0	11.4	3.22	.63	.78	.93
	1600	755	48.0	14.1	2.04	.63	.77	.92	46.0	13.5	2.38	.64	.79	.94	43.5	12.7	2.76	.65	.82	.97	41.0	12.0	3.20	.67	.84	.99
71°F (22°C)	1260	595	48.0	14.1	2.05	.45	.59	.70	46.0	13.5	2.38	.46	.59	.72	44.0	12.9	2.77	.46	.61	.74	41.5	12.2	3.20	.47	.62	.76
	1600	755	50.5	14.8	2.04	.47	.62	.75	48.5	14.2	2.37	.47	.63	.77	46.0	13.5	2.75	.48	.64	.79	43.5	12.7	3.18	.49	.66	.82

SECOND STAGE COOLING CAPACITY - SPB060 with

[CBX27UH-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		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 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	55.5	16.3	3.60	.74	.87	.98	53.0	15.5	4.05	.76	.89	1.00	50.0	14.7	4.57	.77	.91	1.00	47.0	13.8	5.14	.80	.95	1.00
	1800	850	57.0	16.7	3.62	.76	.90	1.00	54.5	16.0	4.07	.78	.92	1.00	51.5	15.1	4.59	.80	.95	1.00	48.5	14.2	5.16	.82	.98	1.00
	2000	945	58.5	17.1	3.63	.78	.92	1.00	55.5	16.3	4.10	.80	.95	1.00	53.0	15.5	4.61	.82	.97	1.00	49.5	14.5	5.18	.85	1.00	1.00
67°F (19°C)	1600	755	58.5	17.1	3.64	.60	.72	.83	56.0	16.4	4.10	.60	.73	.85	53.0	15.5	4.61	.61	.75	.88	50.0	14.7	5.18	.63	.77	.91
	1800	850	60.5	17.7	3.66	.61	.74	.86	57.5	16.9	4.12	.62	.75	.89	54.5	16.0	4.63	.63	.77	.91	51.0	14.9	5.21	.64	.80	.95
	2000	945	61.5	18.0	3.67	.62	.76	.89	58.5	17.1	4.14	.63	.78	.92	55.5	16.3	4.65	.64	.80	.94	52.0	15.2	5.23	.66	.83	.97
71°F (22°C)	1600	755	61.5	18.0	3.68	.46	.58	.69	59.0	17.3	4.14	.46	.59	.71	56.0	16.4	4.65	.46	.60	.73	52.5	15.4	5.22	.46	.61	.75
	1800	850	63.5	18.6	3.69	.46	.59	.71	60.5	17.7	4.16	.46	.60	.73	57.5	16.9	4.67	.47	.61	.75	54.0	15.8	5.25	.47	.63	.77
	2000	945	65.0	19.0	3.71	.47	.61	.73	62.0	18.2	4.17	.47	.62	.75	58.5	17.1	4.69	.47	.63	.77	55.0	16.1	5.27	.48	.65	.80

FIRST STAGE HEATING CAPACITY - SPB060 with

[CBX27UH-060]

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			60°F (16°C)			55°F (13°C)			50°F (10°C)		
		Total Heating Capacity	Comp. Motor kW Input	kW	Total Heating Capacity	Comp. Motor kW Input	kW	Total Heating Capacity	Comp. Motor kW Input	kW	Total Heating Capacity	Comp. Motor kW Input	kW
kBtuh	kBtuh	kBtuh			kBtuh								
1260	595	38.0	11.1	2.91	37.6	11.0	2.99	37.2	10.9	3.06	36.9	10.8	3.13
1600	755	39.1	11.5	2.69	38.7	11.3	2.77	38.3	11.2	2.84	38.0	11.1	2.91

SECOND STAGE HEATING CAPACITY - SPB060 with

[CBX27UH-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					
kBtuh	kW	kBtuh		kW		kBtuh		kW		kBtuh		kW	kBtuh	kW		
1600	755	54.4	15.9	4.60	50.6	14.8	3.88	46.3	13.6	3.13	40.4	11.8	2.62	18.8	5.5	2.01
1800	850	55.3	16.2	4.46	51.5	15.1	3.74	47.2	13.8	2.99	41.3	12.1	2.48	19.7	5.8	1.87
2000	945	57.2	16.8	4.36	53.3	15.6	3.64	49.0	14.4	2.88	43.2	12.7	2.37	21.6	6.3	1.76

HEATING PERFORMANCE at 1800 cfm (850 L/s) Indoor Coil

Air Volume SPB060 with [CBX27UH-060]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	4.46	55.3	16.2
60	16	4.30	54.5	16.0
55	13	4.13	53.7	15.7
50	10	3.96	52.9	15.5
47	8	3.86	52.5	15.4
45	7	3.74	51.5	15.1
40	4	3.45	48.9	14.3
35	2	3.15	46.3	13.6
30	-1	3.07	46.8	13.7
25	-4	2.99	47.2	13.8
20	-7	2.91	47.6	14.0
17	-8	2.86	47.8	14.0
15	-9	2.80	47.5	13.9
10	-12	2.63	46.7	13.7
5	-15	2.48	41.3	12.1
0	-18	2.33	35.9	10.5
-5	-21	2.17	30.5	8.9
-10	-23	2.02	25.1	7.4
-15	-26	1.87	19.7	5.8
-20	-29	1.72	14.3	4.2

EXPANDED RATING TABLES

TP (R-410A)- 3 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.

COOLING CAPACITY - TPA036S4 with

[CBX27UH-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		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 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	33.8	9.9	2.26	.75	.89	1.00	32.0	9.4	2.54	.77	.92	1.00	30.2	8.9	2.87	.79	.94	1.00	28.0	8.2	3.25	.81	.98	1.00
	1200	565	35.0	10.3	2.27	.79	.95	1.00	33.2	9.7	2.56	.81	.97	1.00	31.4	9.2	2.89	.84	1.00	1.00	29.4	8.6	3.27	.87	1.00	1.00
67°F (19°C)	1000	470	35.8	10.5	2.28	.59	.73	.86	34.0	10.0	2.56	.60	.74	.88	32.0	9.4	2.90	.61	.76	.91	29.8	8.7	3.28	.63	.79	.95
	1200	565	37.0	10.8	2.30	.62	.77	.92	35.2	10.3	2.58	.63	.79	.94	33.0	9.7	2.91	.64	.81	.97	30.8	9.0	3.29	.66	.84	1.00
71°F (22°C)	1000	470	37.6	11.0	2.31	.45	.58	.70	35.8	10.5	2.59	.45	.59	.72	33.8	9.9	2.92	.46	.60	.74	31.6	9.3	3.30	.46	.62	.77
	1200	565	39.0	11.4	2.33	.46	.61	.75	37.0	10.8	2.61	.46	.62	.77	34.8	10.2	2.94	.47	.63	.79	32.6	9.6	3.32	.48	.65	.82

COOLING CAPACITY - TPA036S4 with

[CBX27UH-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		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 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	34.8	10.2	2.27	.75	.89	1.00	33.0	9.7	2.55	.77	.92	1.00	31.0	9.1	2.88	.79	.94	1.00	29.0	8.5	3.27	.81	.98	1.00
	1200	565	36.0	10.6	2.29	.79	.95	1.00	34.2	10.0	2.57	.81	.98	1.00	32.2	9.4	2.90	.84	1.00	1.00	30.2	8.9	3.28	.87	1.00	1.00
67°F (19°C)	1000	470	36.8	10.8	2.30	.59	.73	.86	35.0	10.3	2.58	.60	.74	.88	33.0	9.7	2.91	.61	.76	.91	30.6	9.0	3.29	.63	.79	.95
	1200	565	38.0	11.1	2.31	.62	.77	.92	36.2	10.6	2.60	.63	.79	.95	34.0	10.0	2.93	.65	.82	.98	31.8	9.3	3.30	.66	.85	1.00
71°F (22°C)	1000	470	38.5	11.3	2.32	.45	.58	.70	36.8	10.8	2.61	.45	.59	.72	34.8	10.2	2.93	.46	.60	.74	32.4	9.5	3.32	.46	.62	.77
	1200	565	40.0	11.7	2.34	.46	.61	.75	38.0	11.1	2.63	.46	.62	.77	36.0	10.6	2.96	.47	.63	.79	33.4	9.8	3.33	.48	.65	.82

HEATING CAPACITY - TPA036S4 with

[CBX27UH-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	Total Heating Capacity		Comp. Motor kW Input		
kBtuh	kW	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW			
1000	470	40.8	12.0	2.43	31.3	9.2	2.27	21.2	6.2	2.10	15.3	4.5	1.90	7.5	2.2	1.42					
1200	565	41.6	12.2	2.31	32.1	9.4	2.15	21.9	6.4	1.98	16.0	4.7	1.78	8.2	2.4	1.29					

HEATING CAPACITY - TPA036S4 with

[CBX27UH-042]

Indoor Coil Air Volume 70°F 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	Total Heating Capacity		Comp. Motor kW Input		
kBtuh	kW	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW			
1000	470	41.0	12.0	2.40	31.4	9.2	2.24	21.3	6.2	2.07	15.3	4.5	1.88	7.6	2.2	1.40					
1200	565	41.7	12.2	2.27	32.1	9.4	2.12	21.9	6.4	1.95	16.0	4.7	1.76	8.2	2.4	1.28					

HEATING PERFORMANCE at 1200 cfm (565 L/s) Indoor Coil Air Volume TPA036S4 with

[CBX27UH-036]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.31	41.6	12.2
60	16	2.27	39.4	11.5
55	13	2.23	37.3	10.9
50	10	2.19	35.1	10.3
47	8	2.17	33.9	9.9
45	7	2.15	32.1	9.4
40	4	2.08	27.6	8.1
35	2	2.01	23.1	6.8
30	-1	1.99	22.5	6.6
25	-4	1.98	21.9	6.4
20	-7	1.96	21.3	6.2
17	-8	1.95	21.0	6.2
15	-9	1.94	20.1	5.9
10	-12	1.90	18.0	5.3
5	-15	1.78	16.0	4.7
0	-18	1.66	14.1	4.1
-5	-21	1.54	12.1	3.5
-10	-23	1.41	10.2	3.0
-15	-26	1.29	8.2	2.4
-20	-29	1.17	6.3	1.8

HEATING PERFORMANCE at 1200 cfm (565 L/s) Indoor Coil Air Volume TPA036S4 with

[CBX27UH-042]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.27	41.7	12.2
60	16	2.24	39.5	11.6
55	13	2.20	37.3	10.9
50	10	2.17	35.2	10.3
47	8	2.14	33.9	9.9
45	7	2.12	32.1	9.4
40	4	2.05	27.6	8.1
35	2	1.98	23.1	6.8
30	-1	1.96	22.5	6.6
25	-4	1.95	21.9	6.4
20	-7	1.94	21.3	6.2
17	-8	1.93	20.9	6.1
15	-9	1.91	20.1	5.9
10	-12	1.88	17.9	5.2
5	-15	1.76	16.0	4.7
0	-18	1.64	14.0	4.1
-5	-21	1.52	12.1	3.5
-10	-23	1.40	10.2	3.0
-15	-26	1.28	8.2	2.4
-20	-29	1.16	6.3	1.8

EXPANDED RATING TABLES

TP (R-410A) - 3.5 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.

COOLING CAPACITY - TPA042S4 with

[CBX27UH-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		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 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)	1200	565	42.5	12.5	2.52	.76	.91	1.00	40.0	11.7	2.85	.78	.93	1.00	37.6	11.0	3.23	.80	.97	1.00	34.8	10.2	3.69	.83	1.00	1.00
	1400	660	43.5	12.7	2.54	.80	.96	1.00	41.0	12.0	2.87	.82	.98	1.00	38.5	11.3	3.26	.85	1.00	1.00	36.4	10.7	3.72	.88	1.00	1.00
67°F (19°C)	1200	565	44.5	13.0	2.56	.60	.74	.87	42.5	12.5	2.89	.61	.75	.90	40.0	11.7	3.28	.62	.78	.93	37.2	10.9	3.74	.64	.81	.97
	1400	660	46.0	13.5	2.58	.62	.78	.93	43.5	12.7	2.92	.63	.80	.96	41.0	12.0	3.31	.65	.82	.98	38.0	11.1	3.77	.67	.86	1.00
71°F (22°C)	1200	565	47.0	13.8	2.60	.45	.58	.71	44.5	13.0	2.94	.45	.59	.73	42.0	12.3	3.34	.46	.61	.75	39.5	11.6	3.80	.46	.62	.78
	1400	660	48.5	14.2	2.63	.46	.61	.75	46.0	13.5	2.97	.46	.62	.77	43.5	12.7	3.36	.47	.64	.80	40.5	11.9	3.84	.48	.66	.83

COOLING CAPACITY - TPA042S4 with

[CBX27UH-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		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 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)	1120	530	41.5	12.2	2.51	.75	.89	1.00	39.5	11.6	2.84	.76	.91	1.00	37.0	10.8	3.22	.78	.94	1.00	34.4	10.1	3.67	.81	.98	1.00
	1400	660	43.5	12.7	2.54	.80	.96	1.00	41.0	12.0	2.87	.82	.98	1.00	38.5	11.3	3.26	.85	1.00	1.00	36.4	10.7	3.72	.88	1.00	1.00
67°F (19°C)	1120	530	44.0	12.9	2.55	.59	.72	.85	42.0	12.3	2.88	.60	.74	.88	39.5	11.6	3.27	.61	.76	.90	36.6	10.7	3.73	.63	.79	.94
	1400	660	46.0	13.5	2.58	.62	.78	.93	43.5	12.7	2.92	.63	.80	.96	41.0	12.0	3.31	.65	.82	.98	38.0	11.1	3.77	.67	.86	1.00
71°F (22°C)	1120	530	46.5	13.6	2.59	.44	.57	.70	44.0	12.9	2.92	.45	.58	.71	41.5	12.2	3.32	.45	.60	.73	38.5	11.3	3.79	.46	.61	.76
	1400	660	48.5	14.2	2.63	.46	.61	.75	46.0	13.5	2.97	.46	.62	.77	43.5	12.7	3.36	.47	.64	.80	40.5	11.9	3.84	.48	.66	.83

HEATING CAPACITY - TPA042S4 with

[CBX27UH-042]

Indoor Coil Air Volume 70°F db (21°C db)	Air Volume		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		
1200	565	49.7	14.6	3.05	38.5	11.3	2.82	26.9	7.9	2.59	18.6	5.5	2.32	9.2	2.7	1.73	
1400	660	50.5	14.8	2.92	39.3	11.5	2.69	27.7	8.1	2.46	19.4	5.7	2.19	10.0	2.9	1.60	

HEATING CAPACITY - TPA042S4 with

[CBX27UH-048]

Indoor Coil Air Volume 70°F db (21°C db)	Air Volume		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		
1120	530	49.4	14.5	3.12	38.2	11.2	2.90	26.6	7.8	2.66	18.3	5.4	2.39	8.9	2.6	1.80	
1400	660	50.5	14.8	2.92	39.3	11.5	2.69	27.7	8.1	2.46	19.4	5.7	2.19	10.0	2.9	1.60	

HEATING PERFORMANCE at 1400 cfm (660 L/s) Indoor Coil Air Volume TPA042S4 with

[CBX27UH-042]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.92	50.5	14.8
60	16	2.86	47.8	14.0
55	13	2.81	45.2	13.2
50	10	2.76	42.6	12.5
47	8	2.73	41.1	12.0
45	7	2.69	39.3	11.5
40	4	2.61	34.9	10.2
35	2	2.52	30.5	8.9
30	-1	2.49	29.1	8.5
25	-4	2.46	27.7	8.1
20	-7	2.43	26.2	7.7
17	-8	2.41	25.4	7.4
15	-9	2.39	24.3	7.1
10	-12	2.34	21.7	6.4
5	-15	2.19	19.4	5.7
0	-18	2.04	17.0	5.0
-5	-21	1.89	14.7	4.3
-10	-23	1.74	12.3	3.6
-15	-26	1.60	10.0	2.9
-20	-29	1.45	7.6	2.2

HEATING PERFORMANCE at 1400 cfm (660 L/s) Indoor Coil Air Volume TPA042S4 with

[CBX27UH-048]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.92	50.5	14.8
60	16	2.86	47.8	14.0
55	13	2.81	45.2	13.2
50	10	2.76	42.6	12.5
47	8	2.73	41.1	12.0
45	7	2.69	39.3	11.5
40	4	2.61	34.9	10.2
35	2	2.52	30.5	8.9
30	-1	2.49	29.1	8.5
25	-4	2.46	27.7	8.1
20	-7	2.43	26.2	7.7
17	-8	2.41	25.4	7.4
15	-9	2.39	24.3	7.1
10	-12	2.34	21.7	6.4
5	-15	2.19	19.4	5.7
0	-18	2.04	17.0	5.0
-5	-21	1.89	14.7	4.3
-10	-23	1.74	12.3	3.6
-15	-26	1.60	10.0	2.9
-20	-29	1.45	7.6	2.2

EXPANDED RATING TABLES

TP (R-410A) - 4 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.

COOLING CAPACITY - TPA048S4 with

[CBX27UH-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		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 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)	1400	660	47.5	13.9	3.03	.75	.89	1.00	45.0	13.2	3.43	.77	.92	1.00	42.5	12.5	3.88	.79	.94	1.00	40.0	11.7	4.40	.81	.97	1.00
1600	755	48.5	14.2	3.04	.78	.94	1.00	46.5	13.6	3.44	.80	.96	1.00	44.0	12.9	3.89	.82	.98	1.00	41.0	12.0	4.41	.85	1.00	1.00	
67°F (19°C)	1400	660	50.0	14.7	3.04	.60	.73	.86	48.0	14.1	3.45	.60	.75	.88	45.5	13.3	3.90	.62	.76	.91	42.5	12.5	4.41	.63	.79	.94
1600	755	51.5	15.1	3.05	.61	.76	.90	49.0	14.4	3.46	.62	.78	.93	46.5	13.6	3.91	.64	.80	.96	43.5	12.7	4.42	.65	.83	.98	
71°F (22°C)	1400	660	53.0	15.5	3.06	.45	.58	.71	50.5	14.8	3.47	.46	.59	.72	48.0	14.1	3.93	.46	.60	.74	45.0	13.2	4.44	.46	.62	.76
1600	755	54.5	16.0	3.06	.46	.60	.74	51.5	15.1	3.48	.46	.61	.76	49.0	14.4	3.94	.47	.62	.78	46.0	13.5	4.45	.47	.64	.80	

COOLING CAPACITY - TPA048S4 with

[CBX27UH-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		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 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)	1260	595	45.0	13.2	3.02	.73	.85	.97	43.0	12.6	3.42	.74	.87	.99	41.0	12.0	3.86	.76	.89	1.00	38.5	11.3	4.38	.78	.92	1.00
1600	755	47.5	13.9	3.03	.77	.91	1.00	45.5	13.3	3.43	.79	.94	1.00	43.5	12.7	3.89	.81	.96	1.00	41.0	12.0	4.40	.84	.99	1.00	
67°F (19°C)	1260	595	47.5	13.9	3.03	.59	.71	.82	45.5	13.3	3.44	.60	.72	.84	43.5	12.7	3.89	.60	.74	.86	41.0	12.0	4.40	.62	.76	.89
1600	755	50.5	14.8	3.04	.62	.75	.88	48.0	14.1	3.45	.63	.77	.91	45.5	13.3	3.90	.64	.79	.94	43.0	12.6	4.42	.65	.81	.96	
71°F (22°C)	1260	595	50.0	14.7	3.04	.45	.57	.69	48.0	14.1	3.46	.46	.58	.70	45.5	13.3	3.91	.46	.59	.71	43.0	12.6	4.42	.46	.60	.73
1600	755	53.0	15.5	3.05	.46	.60	.73	50.5	14.8	3.47	.47	.61	.75	48.0	14.1	3.93	.47	.63	.77	45.0	13.2	4.44	.48	.64	.79	

HEATING CAPACITY - TPA048S4 with

[CBX27UH-048]

Indoor Coil Air Volume 70°F db (21°C db)	Total Air Volume		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	Sensible To Total Ratio (S/T) Dry Bulb		Total Heating Capacity	Comp. Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		Total Heating Capacity	Comp. Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		Total Heating Capacity	Comp. Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb
kBtuh	kW	75°F 24°C	80°F 27°C		85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C		kBtuh	kW	75°F 24°C		80°F 27°C
1400	660	54.3	15.9	3.31	42.5	12.5	3.08	30.1	8.8	2.86	22.0	6.4	2.54	10.8	3.2	1.88	
1600	755	55.2	16.2	3.19	43.4	12.7	2.97	30.9	9.1	2.75	22.9	6.7	2.43	11.7	3.4	1.77	

HEATING CAPACITY - TPA048S4 with

[CBX27UH-060]

Indoor Coil Air Volume 70°F db (21°C db)	Total Air Volume		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	Sensible To Total Ratio (S/T) Dry Bulb		Total Heating Capacity	Comp. Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		Total Heating Capacity	Comp. Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		Total Heating Capacity	Comp. Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb
kBtuh	kW	75°F 24°C	80°F 27°C		85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C		kBtuh	kW	75°F 24°C		80°F 27°C
1260	595	53.5	15.7	3.43	41.7	12.2	3.21	29.2	8.6	2.99	21.2	6.2	2.67	10.1	3.0	2.00	
1600	755	55.0	16.1	3.22	43.2	12.7	3.00	30.8	9.0	2.78	22.7	6.7	2.46	11.6	3.4	1.79	

HEATING PERFORMANCE at 1600 cfm (755 L/s) Indoor Coil Air Volume TPA048S4 with

[CBX27UH-048]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.19	55.1	16.1
60	16	3.14	52.4	15.4
55	13	3.08	49.7	14.6
50	10	3.03	47.0	13.8
47	8	3.00	45.4	13.3
45	7	2.97	43.3	12.7
40	4	2.91	38.0	11.1
35	2	2.84	32.7	9.6
30	-1	2.79	31.8	9.3
25	-4	2.75	30.8	9.0
20	-7	2.70	29.9	8.8
17	-8	2.67	29.3	8.6
15	-9	2.65	28.3	8.3
10	-12	2.59	25.6	7.5
5	-15	2.43	22.8	6.7
0	-18	2.26	20.0	5.9
-5	-21	2.10	17.2	5.0
-10	-23	1.93	14.4	4.2
-15	-26	1.77	11.6	3.4
-20	-29	1.60	8.8	2.6

HEATING PERFORMANCE at 1600 cfm (755 L/s) Indoor Coil Air Volume TPA048S4 with

[CBX27UH-060]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.22	55.0	16.1
60	16	3.17	52.3	15.3
55	13	3.12	49.6	14.5
50	10	3.06	46.9	13.7
47	8	3.03	45.3	13.3
45	7	3.00	43.2	12.7
40	4	2.94	37.9	11.1
35	2	2.87	32.6	9.6
30	-1	2.82	31.7	9.3
25	-4	2.78	30.8	9.0
20	-7	2.73	29.8	8.7
17	-8	2.70	29.3	8.6
15	-9	2.68	28.2	8.3
10	-12	2.63	25.5	7.5
5	-15	2.46	22.7	6.7
0	-18	2.29	19.9	5.8
-5	-21	2.13	17.1	5.0
-10	-23	1.96	14.4	4.2
-15	-26	1.79	11.6	3.4
-20	-29	1.62	8.8	2.6

EXPANDED RATING TABLES

TP (R-410A) - 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.

COOLING CAPACITY - TPA060S4 with

[CBX27UH-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				
				75°F 24°C	80°F 27°C	85°F 29°C				75°F 24°C	80°F 27°C	85°F 29°C				75°F 24°C	80°F 27°C	85°F 29°C				75°F 24°C	80°F 27°C	85°F 29°C		
cfm	L/s	kBtuh	kW				kBtuh	kW				kBtuh	kW				kBtuh	kW				kBtuh	kW			
63°F (17°C)	1600	755	56.0	16.4	3.93	.73	.85	.96	53.5	15.7	4.43	.74	.87	.98	51.0	14.9	5.03	.76	.89	1.00	48.0	14.1	5.72	.78	.92	1.00
	1800	850	57.5	16.9	3.95	.75	.88	.99	55.0	16.1	4.46	.76	.90	1.00	52.5	15.4	5.04	.78	.93	1.00	49.5	14.5	5.74	.80	.95	1.00
	2000	945	59.0	17.3	3.97	.77	.91	1.00	56.0	16.4	4.48	.78	.93	1.00	53.5	15.7	5.06	.80	.95	1.00	50.5	14.8	5.75	.83	.98	1.00
67°F (19°C)	1600	755	59.0	17.3	3.98	.59	.71	.82	56.5	16.6	4.48	.59	.72	.84	54.0	15.8	5.06	.60	.74	.86	50.5	14.8	5.76	.62	.75	.89
	1800	850	60.5	17.7	4.00	.60	.73	.85	58.0	17.0	4.50	.61	.74	.87	55.0	16.1	5.08	.62	.76	.89	52.0	15.2	5.76	.63	.78	.93
	2000	945	62.0	18.2	4.02	.61	.75	.88	59.0	17.3	4.52	.62	.76	.90	56.0	16.4	5.10	.63	.78	.93	53.0	15.5	5.79	.65	.81	.96
71°F (22°C)	1600	755	62.0	18.2	4.02	.45	.57	.69	59.5	17.4	4.52	.46	.58	.70	56.5	16.6	5.11	.46	.59	.71	53.0	15.5	5.79	.46	.60	.73
	1800	850	63.5	18.6	4.05	.46	.59	.71	61.0	17.9	4.54	.45	.60	.72	58.0	17.0	5.13	.47	.61	.74	54.5	16.0	5.81	.47	.62	.76
	2000	945	65.0	19.0	4.07	.46	.60	.73	62.0	18.2	4.57	.47	.61	.74	59.0	17.3	5.15	.47	.62	.76	55.5	16.3	5.83	.48	.64	.79

HEATING CAPACITY - TPA060S4 with

[CBX27UH-060]

Indoor Coil Air Volume 70°F db (21°C db)	Total Heating Capacity		Comp. 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	
																65°F (18°C)
	cfm	L/s	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW
1600	755	67.3	19.7	4.52	52.5	15.4	4.15	36.6	10.7	3.76	27.5	8.1	3.33	13.5	4.0	2.48
1800	850	68.2	20.0	4.37	53.4	15.6	3.99	37.5	11.0	3.60	28.4	8.3	3.18	14.4	4.2	2.33
2000	945	70.1	20.5	4.25	55.3	16.2	3.87	39.3	11.5	3.48	30.3	8.9	3.06	16.3	4.8	2.20

HEATING PERFORMANCE at 1800 cfm (850 L/s) Indoor Coil Air Volume TPA060S4 with

[CBX27UH-060]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	4.37	68.2	20.0
60	16	4.28	64.9	19.0
55	13	4.19	61.6	18.1
50	10	4.10	58.3	17.1
47	8	4.05	56.3	16.5
45	7	3.99	53.4	15.6
40	4	3.85	46.0	13.5
35	2	3.71	38.7	11.3
30	-1	3.66	38.1	11.2
25	-4	3.60	37.5	11.0
20	-7	3.55	36.9	10.8
17	-8	3.52	36.5	10.7
15	-9	3.48	35.2	10.3
10	-12	3.40	31.9	9.3
5	-15	3.18	28.4	8.3
0	-18	2.97	24.9	7.3
-5	-21	2.75	21.4	6.3
-10	-23	2.54	17.9	5.2
-15	-26	2.33	14.4	4.2
-20	-29	2.11	11.0	3.2

EXPANDED RATING TABLES

TP (R-22) - 3 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.

COOLING CAPACITY - TPA036S2 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		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 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

COOLING CAPACITY - TPA036S2 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		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 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

HEATING CAPACITY - TPA036S2 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	Total Heating Capacity		Comp. Motor kW Input		
kBtuh	kW	kBtuh	kW		kBtuh	kW		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	7.6	2.2	1.54					
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	8.1	2.4	1.43					

HEATING CAPACITY - TPA036S2 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	Total Heating Capacity		Comp. Motor kW Input		
kBtuh	kW	kBtuh	kW		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 PERFORMANCE at 1200 cfm (565 L/s) Indoor Coil Air Volume TPA036S2 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

HEATING PERFORMANCE at 1200 cfm (565 L/s) Indoor Coil Air Volume TPA036S2 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

EXPANDED RATING TABLES

TP (R-22) - 4 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.

COOLING CAPACITY - TPA048S2 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		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 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)	1400	660	48.5	14.2	3.18	.77	.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
1600	755	50.0	14.7	3.20	.74	.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 (19°C)	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
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 (22°C)	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
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	

COOLING CAPACITY - TPA048S2 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		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 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)	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
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 (19°C)	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
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 (22°C)	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
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	

HEATING CAPACITY - TPA048S2 with

[CB27UH-048]

Indoor Coil Air Volume 70°F db (21°C db)	Total Air Volume		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	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 CAPACITY - TPA048S2 with

[CB27UH-060]

Indoor Coil Air Volume 70°F db (21°C db)	Total Air Volume		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	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 PERFORMANCE at 1600 cfm (755 L/s) Indoor Coil Air Volume TPA048S2 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

HEATING PERFORMANCE at 1600 cfm (755 L/s) Indoor Coil Air Volume TPA048S2 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

EXPANDED RATING TABLES

TP (R-22) - 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.

COOLING CAPACITY - TPA060S2 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				
				75°F 24°C	80°F 27°C	85°F 29°C				75°F 24°C	80°F 27°C	85°F 29°C				75°F 24°C	80°F 27°C	85°F 29°C				75°F 24°C	80°F 27°C	85°F 29°C		
cfm	L/s	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW			
63°F (17°C)	1600	755	52.5	15.4	3.61	.74	.86	.98	51.0	14.9	4.05	.75	.88	.99	49.0	14.4	4.55	.76	.89	1.00	47.0	13.8	5.12	.77	.91	1.00
	1800	850	54.0	15.8	3.63	.76	.89	1.00	52.0	15.2	4.07	.77	.91	1.00	50.5	14.8	4.57	.78	.93	1.00	48.5	14.2	5.13	.80	.95	1.00
	2000	945	55.0	16.1	3.64	.78	.92	1.00	53.5	15.7	4.08	.79	.94	1.00	51.5	15.1	4.58	.80	.95	1.00	49.5	14.5	5.15	.82	.97	1.00
67°F (19°C)	1600	755	55.5	16.3	3.65	.59	.71	.83	54.0	15.8	4.09	.60	.72	.84	52.0	15.2	4.58	.61	.74	.86	50.0	14.7	5.16	.61	.75	.88
	1800	850	57.0	16.7	3.67	.61	.74	.86	55.5	16.3	4.11	.61	.75	.88	53.5	15.7	4.61	.62	.76	.89	51.5	15.1	5.17	.63	.77	.92
	2000	945	58.5	17.1	3.69	.62	.76	.89	56.5	16.6	4.12	.63	.77	.91	54.5	16.0	4.62	.63	.78	.93	52.5	15.4	5.18	.64	.80	.95
71°F (22°C)	1600	755	58.5	17.1	3.69	.46	.58	.69	56.5	16.6	4.13	.45	.59	.70	55.0	16.1	4.62	.46	.59	.71	53.0	15.5	5.18	.46	.60	.73
	1800	850	60.0	17.6	3.71	.46	.59	.71	58.0	17.0	4.15	.46	.60	.72	56.0	16.4	4.64	.46	.61	.74	54.0	15.8	5.21	.47	.62	.75
	2000	945	61.5	18.0	3.73	.47	.61	.73	59.5	17.4	4.16	.47	.61	.75	57.5	16.9	4.66	.47	.62	.76	55.0	16.1	5.22	.47	.63	.78

HEATING CAPACITY - TPA060S2 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)			
	cfm	L/s	Total Heating Capacity kBtuh	kW	Comp. Motor kW Input	Total Heating Capacity kBtuh	kW	Comp. Motor kW Input	Total Heating Capacity kBtuh	kW	Comp. Motor kW Input	Total Heating Capacity kBtuh	kW	Comp. Motor kW Input	Total Heating Capacity kBtuh	kW	Comp. Motor kW Input			
1600	755	65.9	19.3	4.28	51.6	15.1	3.83	36.5	10.7	3.36	26.8	7.9	2.93	13.4	3.9	2.20				
1800	850	66.5	19.5	4.13	52.2	15.3	3.68	37.1	10.9	3.22	27.5	8.1	2.79	14.0	4.1	2.06				
2000	945	68.2	20.0	4.02	53.9	15.8	3.57	38.7	11.3	3.10	29.1	8.5	2.68	15.6	4.6	1.94				

HEATING PERFORMANCE at 1800 cfm (850 L/s) Indoor Coil Air Volume TPA060S2 with

[CB27UH-060]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	4.13	66.5	19.5
60	16	4.03	63.3	18.6
55	13	3.92	60.0	17.6
50	10	3.82	56.8	16.6
47	8	3.75	54.8	16.1
45	7	3.68	52.2	15.3
40	4	3.51	45.7	13.4
35	2	3.33	39.2	11.5
30	-1	3.27	38.2	11.2
25	-4	3.22	37.1	10.9
20	-7	3.16	36.0	10.6
17	-8	3.12	35.4	10.4
15	-9	3.08	34.1	10.0
10	-12	2.97	30.8	9.0
5	-15	2.79	27.5	8.1
0	-18	2.61	24.1	7.1
-5	-21	2.42	20.7	6.1
-10	-23	2.24	17.4	5.1
-15	-26	2.06	14.0	4.1
-20	-29	1.87	10.6	3.1

EXPANDED RATING TABLES

HP29 - 3 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.

COOLING CAPACITY - HP29-036 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		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 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	2.72	.75	.90	1.00	32.6	9.6	3.01	.77	.92	1.00	31.0	9.1	3.34	.78	.94	1.00	29.6	8.7	3.72	.80	.96	1.00
1200	565	35.4	10.4	2.74	.80	.95	1.00	34.0	10.0	3.03	.81	.97	1.00	32.4	9.5	3.37	.83	.99	1.00	30.8	9.0	3.75	.85	1.00	1.00	
67°F (19°C)	1000	470	36.2	10.6	2.75	.59	.73	.86	34.6	10.1	3.05	.60	.74	.88	33.2	9.7	3.38	.61	.76	.90	31.6	9.3	3.77	.62	.78	.93
1200	565	37.6	11.0	2.78	.62	.77	.92	36.0	10.6	3.07	.63	.79	.94	34.4	10.1	3.41	.64	.81	.96	32.6	9.6	3.80	.65	.83	.98	
71°F (22°C)	1000	470	38.5	11.3	2.79	.45	.58	.70	36.8	10.8	3.09	.45	.58	.71	35.2	10.3	3.43	.45	.59	.73	33.6	9.8	3.81	.46	.60	.75
1200	565	40.0	11.7	2.82	.46	.60	.74	38.0	11.1	3.12	.46	.61	.76	36.4	10.7	3.46	.47	.62	.78	34.8	10.2	3.84	.47	.64	.80	

COOLING CAPACITY - HP29-036 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		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 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	35.6	10.4	2.74	.75	.89	1.00	34.0	10.0	3.04	.76	.91	1.00	32.6	9.6	3.37	.78	.93	1.00	31.0	9.1	3.76	.80	.96	1.00
1200	565	37.0	10.8	2.77	.79	.95	1.00	35.4	10.4	3.06	.81	.97	1.00	33.8	9.9	3.40	.83	.99	1.00	32.2	9.4	3.78	.85	1.00	1.00	
67°F (19°C)	1000	470	37.8	11.1	2.78	.59	.72	.85	36.4	10.7	3.08	.60	.74	.87	34.6	10.1	3.42	.61	.75	.89	33.0	9.7	3.81	.62	.77	.92
1200	565	39.5	11.6	2.81	.62	.77	.91	37.8	11.1	3.11	.63	.78	.94	36.0	10.6	3.45	.63	.80	.96	34.4	10.1	3.83	.65	.82	.98	
71°F (22°C)	1000	470	40.0	11.7	2.82	.45	.58	.70	38.5	11.3	3.12	.45	.58	.71	36.8	10.8	3.46	.45	.59	.73	35.2	10.3	3.85	.45	.60	.74
1200	565	41.5	12.2	2.86	.46	.60	.74	40.0	11.7	3.15	.46	.61	.76	38.5	11.3	3.50	.46	.62	.77	36.6	10.7	3.88	.47	.63	.79	

HEATING CAPACITY - HP29-036 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)			-15°F (-26°C)		
cfm	L/s	Total Heating Capacity		Comp. 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
		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1000	470	39.9	11.7	2.79	31.5	9.2	2.57	22.5	6.6	2.34	17.1	5.0	2.12	8.4	2.5	1.58
1200	565	40.4	11.8	2.66	32.0	9.4	2.45	23.0	6.7	2.22	17.7	5.2	1.99	8.9	2.6	1.45

HEATING CAPACITY - HP29-036 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)		
cfm	L/s	Total Heating Capacity		Comp. 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
		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1000	470	40.1	11.8	2.71	31.6	9.3	2.54	22.5	6.6	2.35	17.1	5.0	2.15	8.4	2.5	1.59
1200	565	40.5	11.9	2.59	32.0	9.4	2.41	22.9	6.7	2.22	17.5	5.1	2.02	8.9	2.6	1.47

HEATING PERFORMANCE at 1200 cfm (565 L/s) Indoor Coil Air Volume HP29-036 with

[CB27UH-036]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.66	40.4	11.8
60	16	2.62	38.6	11.3
55	13	2.57	36.7	10.8
50	10	2.52	34.8	10.2
47	8	2.49	33.7	9.9
45	7	2.45	32.0	9.4
40	4	2.35	27.9	8.2
35	2	2.26	23.7	6.9
30	-1	2.24	23.3	6.8
25	-4	2.22	23.0	6.7
20	-7	2.21	22.7	6.7
17	-8	2.20	22.5	6.6
15	-9	2.18	21.8	6.4
10	-12	2.13	19.9	5.8
5	-15	1.99	17.7	5.2
0	-18	1.86	15.5	4.5
-5	-21	1.72	13.3	3.9
-10	-23	1.59	11.1	3.3
-15	-26	1.45	8.9	2.6
-20	-29	1.32	6.7	2.0

HEATING PERFORMANCE at 1200 cfm (565 L/s) Indoor Coil Air Volume HP29-036 with

[CB27UH-042]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.59	40.5	11.9
60	16	2.55	38.6	11.3
55	13	2.51	36.7	10.8
50	10	2.47	34.8	10.2
47	8	2.45	33.7	9.9
45	7	2.41	32.0	9.4
40	4	2.32	27.8	8.1
35	2	2.23	23.6	6.9
30	-1	2.23	23.3	6.8
25	-4	2.22	22.9	6.7
20	-7	2.22	22.6	6.6
17	-8	2.22	22.4	6.6
15	-9	2.20	21.6	6.3
10	-12	2.16	19.7	5.8
5	-15	2.02	17.5	5.1
0	-18	1.88	15.4	4.5
-5	-21	1.75	13.2	3.9
-10	-23	1.61	11.0	3.2
-15	-26	1.47	8.9	2.6
-20	-29	1.33	6.7	2.0

EXPANDED RATING TABLES

HP29 - 3.5 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.

COOLING CAPACITY - HP29-042 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)					
	cfm	L/s	Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 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)	1200	565	40.5	11.9	3.17	.76	.90	1.00	39.0	11.4	3.50	.77	.92	1.00	37.2	10.9	3.88	.78	.94	1.00	35.4	10.4	4.31	.80	.96	1.00
1400	660	42.0	12.3	3.20	.79	.95	1.00	40.0	11.7	3.53	.81	.97	1.00	38.5	11.3	3.91	.82	.99	1.00	36.6	10.7	4.34	.85	1.00	1.00	
67°F (19°C)	1200	565	43.0	12.6	3.22	.60	.73	.86	41.5	12.2	3.56	.60	.74	.88	39.5	11.6	3.93	.61	.76	.90	37.8	11.1	4.37	.62	.78	.93
1400	660	44.5	13.0	3.25	.62	.77	.91	42.5	12.5	3.58	.62	.78	.93	41.0	12.0	3.96	.64	.80	.96	39.0	11.4	4.40	.65	.82	.98	
71°F (22°C)	1200	565	45.5	13.3	3.27	.45	.58	.71	43.5	12.7	3.61	.45	.59	.72	42.0	12.3	3.99	.46	.60	.73	40.0	11.7	4.42	.46	.61	.75
1400	660	47.0	13.8	3.30	.46	.60	.74	45.0	13.2	3.63	.46	.61	.76	43.0	12.6	4.02	.47	.62	.77	41.0	12.0	4.45	.47	.64	.79	

COOLING CAPACITY - HP29-042 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)					
	cfm	L/s	Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 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)	1120	530	40.0	11.7	3.16	.74	.88	1.00	38.5	11.3	3.49	.75	.89	1.00	36.6	10.7	3.87	.77	.92	1.00	35.0	10.3	4.31	.78	.94	1.00
1400	660	42.0	12.3	3.20	.79	.95	1.00	40.0	11.7	3.53	.81	.97	1.00	38.5	11.3	3.91	.82	.99	1.00	36.6	10.7	4.34	.85	1.00	1.00	
67°F (19°C)	1120	530	42.5	12.5	3.21	.59	.72	.84	41.0	12.0	3.54	.59	.73	.86	39.0	11.4	3.92	.60	.74	.88	37.2	10.9	4.35	.61	.76	.90
1400	660	44.5	13.0	3.25	.62	.77	.91	42.5	12.5	3.58	.62	.78	.93	41.0	12.0	3.96	.64	.80	.96	39.0	11.4	4.40	.65	.82	.98	
71°F (22°C)	1120	530	44.5	13.0	3.25	.45	.57	.69	43.0	12.6	3.59	.45	.58	.70	41.5	12.2	3.97	.45	.59	.72	39.5	11.6	4.41	.45	.60	.73
1400	660	47.0	13.8	3.30	.46	.60	.74	45.0	13.2	3.63	.46	.61	.76	43.0	12.6	4.02	.47	.62	.77	41.0	12.0	4.45	.47	.64	.79	

HEATING CAPACITY - HP29-042 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)			
	cfm	L/s	kBtuh	kW	Comp. Motor kW Input	kBtuh	kW	Comp. Motor kW Input	kBtuh	kW	Comp. Motor kW Input	kBtuh	kW	Comp. Motor kW Input	kBtuh	kW	Comp. Motor kW Input			
1200	565	47.4	13.9	3.15	37.2	10.9	2.96	26.4	7.7	2.76	19.0	5.6	2.55	9.4	2.8	1.88				
1400	660	47.9	14.0	3.03	37.7	11.0	2.84	27.0	7.9	2.64	19.5	5.7	2.43	10.0	2.9	1.76				
1400	660	47.9	14.0	3.03	37.7	11.0	2.84	27.0	7.9	2.64	19.5	5.7	2.43	10.0	2.9	1.76				

HEATING CAPACITY - HP29-042 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)			
	cfm	L/s	kBtuh	kW	Comp. Motor kW Input	kBtuh	kW	Comp. Motor kW Input	kBtuh	kW	Comp. Motor kW Input	kBtuh	kW	Comp. Motor kW Input	kBtuh	kW	Comp. Motor kW Input			
1400	660	51.6	15.1	3.43	40.0	11.7	3.14	27.6	8.1	2.83	20.4	6.0	2.57	10.1	3.0	1.91				
1600	755	52.2	15.3	3.31	40.6	11.9	3.03	28.2	8.3	2.72	21.0	6.2	2.46	10.7	3.1	1.79				

HEATING PERFORMANCE at 1400 cfm (660 L/s) Indoor Coil Air Volume HP29-042 with

[CB27UH-042]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.03	47.9	14.0
60	16	2.99	45.6	13.4
55	13	2.95	43.2	12.7
50	10	2.91	40.9	12.0
47	8	2.89	39.4	11.5
45	7	2.84	37.7	11.0
40	4	2.73	33.4	9.8
35	2	2.62	29.1	8.5
30	-1	2.63	28.0	8.2
25	-4	2.64	27.0	7.9
20	-7	2.65	25.9	7.6
17	-8	2.65	25.3	7.4
15	-9	2.64	24.3	7.1
10	-12	2.60	21.9	6.4
5	-15	2.43	19.5	5.7
0	-18	2.26	17.2	5.0
-5	-21	2.09	14.8	4.3
-10	-23	1.93	12.4	3.6
-15	-26	1.76	10.0	2.9
-20	-29	1.59	7.6	2.2

HEATING PERFORMANCE at 1600 cfm (755 L/s) Indoor Coil Air Volume HP29-042 with

[CB27UH-048]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.31	52.2	15.3
60	16	3.25	49.6	14.5
55	13	3.19	47.0	13.8
50	10	3.12	44.4	13.0
47	8	3.09	42.8	12.5
45	7	3.03	40.6	11.9
40	4	2.87	35.1	10.3
35	2	2.72	29.5	8.6
30	-1	2.72	28.9	8.5
25	-4	2.72	28.2	8.3
20	-7	2.71	27.6	8.1
17	-8	2.71	27.2	8.0
15	-9	2.69	26.1	7.6
10	-12	2.62	23.5	6.9
5	-15	2.46	21.0	6.2
0	-18	2.29	18.4	5.4
-5	-21	2.13	15.8	4.6
-10	-23	1.96	13.3	3.9
-15	-26	1.79	10.7	3.1
-20	-29	1.63	8.2	2.4

EXPANDED RATING TABLES

HP29 - 4 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.

COOLING CAPACITY - HP29-048 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		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 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)	1400	660	45.5	13.3	3.59	.77	.91	1.00	43.5	12.7	4.01	.78	.94	1.00	41.5	12.2	4.49	.80	.96	1.00	39.5	11.6	5.03	.82	.98	1.00
1600	755	46.5	13.6	3.62	.80	.96	1.00	44.5	13.0	4.04	.82	.98	1.00	42.5	12.5	4.52	.83	.99	1.00	40.5	11.9	5.07	.86	1.00	1.00	
67°F (19°C)	1400	660	48.0	14.1	3.66	.60	.74	.88	46.0	13.5	4.07	.61	.76	.90	44.0	12.9	4.55	.62	.77	.92	42.0	12.3	5.10	.63	.79	.95
1600	755	49.5	14.5	3.69	.62	.77	.92	47.5	13.9	4.11	.63	.79	.95	45.0	13.2	4.58	.64	.81	.97	43.0	12.6	5.13	.65	.83	.99	
71°F (22°C)	1400	660	50.5	14.8	3.72	.45	.59	.72	49.0	14.4	4.14	.46	.60	.73	46.5	13.6	4.62	.46	.61	.75	44.5	13.0	5.16	.46	.62	.77
1600	755	52.0	15.2	3.76	.46	.61	.75	50.0	14.7	4.18	.47	.62	.77	48.0	14.1	4.65	.47	.63	.79	45.5	13.3	5.20	.47	.64	.81	

COOLING CAPACITY - HP29-048 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		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 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)	1260	595	43.0	12.6	3.55	.74	.86	.97	41.5	12.2	3.97	.75	.88	.99	40.0	11.7	4.45	.76	.90	1.00	38.0	11.1	5.01	.78	.92	1.00
1600	755	45.5	13.3	3.60	.78	.92	1.00	44.0	12.9	4.02	.79	.94	1.00	42.0	12.3	4.51	.81	.97	1.00	40.5	11.9	5.05	.83	.99	1.00	
67°F (19°C)	1260	595	45.5	13.3	3.60	.59	.71	.83	44.0	12.9	4.03	.60	.72	.84	42.0	12.3	4.51	.61	.74	.87	40.5	11.9	5.06	.62	.75	.89
1600	755	48.0	14.1	3.66	.62	.76	.89	46.5	13.6	4.08	.63	.77	.91	44.5	13.0	4.56	.64	.79	.94	42.5	12.5	5.11	.65	.81	.96	
71°F (22°C)	1260	595	48.0	14.1	3.66	.45	.58	.69	46.5	13.6	4.08	.46	.58	.70	44.5	13.0	4.57	.46	.59	.72	42.5	12.5	5.12	.46	.60	.73
1600	755	51.0	14.9	3.73	.46	.61	.73	49.0	14.4	4.15	.47	.61	.75	47.0	13.8	4.63	.47	.63	.77	45.0	13.2	5.17	.48	.64	.79	

HEATING CAPACITY - HP29-048 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	Total Heating Capacity		Comp. Motor kW Input		
kBtuh	kW	kBtuh		kW	kBtuh		kW	kBtuh		kW	kBtuh		kW	kBtuh		kW	kBtuh		kW	
1400	660	51.6	15.1	3.43	40.0	11.7	3.14	27.6	8.1	2.83	20.4	6.0	2.57	10.1	3.0	1.91				
1600	755	52.2	15.3	3.31	40.6	11.9	3.03	28.2	8.3	2.72	21.0	6.2	2.46	10.7	3.1	1.79				

HEATING CAPACITY - HP29-048 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	Total Heating Capacity		Comp. Motor kW Input		
kBtuh	kW	kBtuh		kW	kBtuh		kW	kBtuh		kW	kBtuh		kW	kBtuh		kW	kBtuh		kW	
1260	595	51.0	14.9	3.54	39.4	11.5	3.26	27.0	7.9	2.95	19.8	5.8	2.68	9.6	2.8	2.02				
1600	755	52.1	15.3	3.32	40.5	11.9	3.04	28.2	8.3	2.74	20.9	6.1	2.47	10.7	3.1	1.80				

HEATING PERFORMANCE at 1600 cfm (755 L/s) Indoor Coil Air Volume HP29-048 with

[CB27UH-048]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.31	52.2	15.3
60	16	3.25	49.6	14.5
55	13	3.19	47.0	13.8
50	10	3.12	44.4	13.0
47	8	3.09	42.8	12.5
45	7	3.03	40.6	11.9
40	4	2.87	35.1	10.3
35	2	2.72	29.5	8.6
30	-1	2.72	28.9	8.5
25	-4	2.72	28.2	8.3
20	-7	2.71	27.6	8.1
17	-8	2.71	27.2	8.0
15	-9	2.69	26.1	7.6
10	-12	2.62	23.5	6.9
5	-15	2.46	21.0	6.2
0	-18	2.29	18.4	5.4
-5	-21	2.13	15.8	4.6
-10	-23	1.96	13.3	3.9
-15	-26	1.79	10.7	3.1
-20	-29	1.63	8.2	2.4

HEATING PERFORMANCE at 1600 cfm (755 L/s) Indoor Coil Air Volume HP29-048 with

[CB27UH-060]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.32	52.1	15.3
60	16	3.26	49.5	14.5
55	13	3.20	46.9	13.7
50	10	3.13	44.3	13.0
47	8	3.10	42.7	12.5
45	7	3.04	40.5	11.9
40	4	2.90	35.0	10.3
35	2	2.76	29.5	8.6
30	-1	2.75	28.9	8.5
25	-4	2.74	28.2	8.3
20	-7	2.73	27.5	8.1
17	-8	2.72	27.1	7.9
15	-9	2.69	26.1	7.6
10	-12	2.63	23.4	6.9
5	-15	2.47	20.9	6.1
0	-18	2.30	18.3	5.4
-5	-21	2.13	15.8	4.6
-10	-23	1.97	13.2	3.9
-15	-26	1.80	10.7	3.1
-20	-29	1.63	8.1	2.4

EXPANDED RATING TABLES

HP29 - 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.

COOLING CAPACITY - HP29-060 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				
				75°F 24°C	80°F 27°C	85°F 29°C				75°F 24°C	80°F 27°C	85°F 29°C				75°F 24°C	80°F 27°C	85°F 29°C				75°F 24°C	80°F 27°C	85°F 29°C		
cfm	L/s	kBtuh	kW				kBtuh	kW				kBtuh	kW				kBtuh	kW				kBtuh	kW			
63°F (17°C)	1600	755	56.0	16.4	4.55	.72	.84	.95	54.0	15.8	5.14	.73	.85	.97	52.0	15.2	5.80	.74	.87	.98	50.0	14.7	6.57	.76	.89	1.00
	1800	850	58.0	17.0	4.57	.74	.86	.98	56.0	16.4	5.15	.75	.88	.99	53.5	15.7	5.81	.76	.90	1.00	51.5	15.1	6.56	.78	.92	1.00
	2000	945	59.5	17.4	4.59	.76	.89	1.00	57.0	16.7	5.16	.77	.91	1.00	55.0	16.1	5.82	.78	.93	1.00	52.5	15.4	6.57	.80	.95	1.00
67°F (19°C)	1600	755	59.5	17.4	4.58	.58	.70	.81	57.5	16.9	5.15	.59	.71	.82	55.5	16.3	5.83	.60	.72	.84	53.0	15.5	6.58	.60	.73	.86
	1800	850	61.0	17.9	4.60	.59	.72	.83	59.0	17.3	5.17	.60	.73	.85	57.0	16.7	5.84	.61	.74	.87	54.5	16.0	6.60	.62	.75	.89
	2000	945	62.5	18.3	4.62	.61	.73	.86	60.5	17.7	5.19	.61	.75	.88	58.0	17.0	5.86	.62	.76	.90	55.5	16.3	6.61	.63	.78	.92
71°F (22°C)	1600	755	62.5	18.3	4.62	.45	.57	.68	60.5	17.7	5.18	.45	.58	.68	58.0	17.0	5.85	.46	.58	.70	56.0	16.4	6.61	.46	.59	.71
	1800	850	64.5	18.9	4.64	.46	.58	.69	62.5	18.3	5.21	.46	.59	.70	60.0	17.6	5.87	.46	.60	.72	57.5	16.9	6.65	.47	.60	.73
	2000	945	66.0	19.3	4.66	.46	.59	.71	63.5	18.6	5.23	.46	.60	.72	61.5	18.0	5.90	.47	.61	.74	58.5	17.1	6.66	.47	.62	.75

HEATING CAPACITY - HP29-060 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)		
	cfm	L/s	Total Heating Capacity kBtuh	Total Heating Capacity kW	Comp. Motor kW Input	Total Heating Capacity kBtuh	Total Heating Capacity kW	Comp. Motor kW Input	Total Heating Capacity kBtuh	Total Heating Capacity kW	Comp. Motor kW Input	Total Heating Capacity kBtuh	Total Heating Capacity kW	Comp. Motor kW Input	Total Heating Capacity kBtuh	Total Heating Capacity kW
1600	755	65.2	19.1	5.14	51.1	15.0	4.59	36.3	10.6	4.03	26.0	7.6	3.47	12.9	3.8	2.60
1800	850	65.9	19.3	4.99	51.8	15.2	4.44	37.0	10.8	3.88	26.7	7.8	3.32	13.6	4.0	2.45
2000	945	67.5	19.8	4.84	53.4	15.6	4.30	38.6	11.3	3.74	28.3	8.3	3.18	15.2	4.5	2.31

HEATING PERFORMANCE at 1800 cfm (850 L/s) Indoor Coil Air Volume HP29-060 with

[CB27UH-060]

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	4.99	65.9	19.3
60	16	4.85	62.6	18.3
55	13	4.72	59.3	17.4
50	10	4.59	56.1	16.4
47	8	4.51	54.1	15.9
45	7	4.44	51.8	15.2
40	4	4.26	45.9	13.5
35	2	4.08	40.0	11.7
30	-1	3.98	38.5	11.3
25	-4	3.88	37.0	10.8
20	-7	3.78	35.4	10.4
17	-8	3.72	34.5	10.1
15	-9	3.67	33.2	9.7
10	-12	3.53	30.0	8.8
5	-15	3.32	26.7	7.8
0	-18	3.10	23.4	6.9
-5	-21	2.88	20.2	5.9
-10	-23	2.67	16.9	5.0
-15	-26	2.45	13.6	4.0
-20	-29	2.23	10.4	3.0



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