ENGINEERING DATA

HEAT PUMP OUTDOOR UNITS

ELITE 10™ AND VALUE 10™ HEAT PUMP UNITS EXPANDED RATING TABLES

HP29/10HPB

Bulletin No. 210112
April 1996

RATINGS

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

HP29–211 / 10HPB18 — COOLING CAPACITY — CB29M–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		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb						
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C				
63°F (17.2°C)	190	400	5.0	17,100	1260	.69	.81	.92	4.7	16,200	1360	.70	.82	.94	4.5	15,300	1460	.71	.84	.96	4.2	14,400	1560	.73	.87	.98				
	285	600	5.4	18,500	1290	.76	.91	1.00	5.1	17,500	1400	.78	.94	1.00	4.9	16,600	1500	.81	.96	1.00	4.6	15,600	1610	.83	.98	1.00				
	375	800	5.7	19,500	1310	.84	.99	1.00	5.5	18,600	1420	.87	1.00	1.00	5.2	17,700	1540	.89	1.00	1.00	4.9	16,700	1650	.92	1.00	1.00				
67°F (19.4°C)	190	400	5.4	18,400	1290	.55	.66	.77	5.1	17,500	1390	.55	.67	.78	4.8	16,500	1500	.56	.68	.81	4.5	15,500	1600	.57	.70	.83				
	285	600	5.8	19,700	1310	.59	.74	.88	5.5	18,700	1430	.60	.76	.90	5.2	17,600	1540	.61	.78	.93	4.9	16,600	1640	.63	.80	.96				
	375	800	6.0	20,500	1330	.64	.82	.97	5.7	19,400	1440	.65	.84	.99	5.4	18,300	1560	.67	.87	1.00	5.0	17,200	1670	.69	.90	1.00				
71°F (21.7°C)	190	400	5.8	19,800	1310	.42	.52	.63	5.5	18,800	1430	.42	.53	.64	5.2	17,800	1540	.42	.54	.65	4.9	16,800	1650	.43	.55	.67				
	285	600	6.2	21,200	1340	.43	.57	.71	5.9	20,100	1460	.44	.58	.73	5.5	18,900	1570	.44	.60	.75	5.2	17,800	1690	.45	.61	.78				
	375	800	6.4	21,900	1350	.45	.62	.79	6.1	20,700	1470	.46	.64	.82	5.7	19,500	1590	.46	.66	.84	5.4	18,300	1710	.47	.68	.87				

NOTE — All values are gross capacities and do not include indoor coil blower motor heat deduction.

HP29–211 / 10HPB18 — HEATING CAPACITY — CB29M–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 (-28°C)		
		Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input
L/s	cfm	kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh	
190	400	5.8	19,800	1450	4.4	14,900	1285	2.8	9,700	1105	1.8	6,100	995	.8	2,700	755
285	600	6.1	20,800	1370	4.7	15,900	1205	3.1	10,700	1025	2.1	7,100	915	1.1	3,700	675
380	800	6.3	21,400	1325	4.8	16,500	1160	3.3	11,300	980	2.3	7,700	870	1.3	4,300	630

NOTE — Heating capacities include the effect of defrost cycles in the temperature range where they occur.

HP29–211 / 10HPB18 — HEATING PERFORMANCE CB29M–21/26 at 600 cfm (285 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	1370	20,800	6.1
60	16	1335	19,600	5.7
55	13	1300	18,500	5.4
50	10	1265	17,300	5.1
47	8	1240	16,600	4.9
45	7	1205	15,900	4.7
40	4	1115	14,000	4.1
35	2	1025	12,100	3.5
30	-1	1025	11,400	3.3
25	-4	1025	10,700	3.1
20	-7	1025	10,000	2.9
17	-8	1025	9,600	2.8
15	-9	1010	9,100	2.7
10	-12	975	8,000	2.3
5	-15	915	7,100	2.1
0	-18	855	6,300	1.8
-5	-21	795	5,400	1.6
-10	-23	735	4,600	1.3
-15	-26	675	3,700	1.1
-20	-29	615	2,900	.8

*Outdoor temperature 70% relative humidity. Indoor temperature 70°F (21°C).

The maple leaf symbol in this bulletin denotes Canadian only usage where applicable

NOTE — Due to Lennox' ongoing committment to quality, Ratings subject to change without notice and without incurring liability.

RATINGS

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

HP29–211 / 10HPB18 — COOLING CAPACITY — 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		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	
63°F (17.2°C)	190	400	5.4	18,300	1290	.68	.80	.91	5.1	17,400	1390	.69	.82	.93	4.8	16,400	1500	.71	.84	.96	4.5	15,400	1600	.72	.86	.99	
	285	600	5.9	20,000	1320	.76	.91	1.00	5.5	18,900	1430	.78	.94	1.00	5.2	17,800	1540	.80	.96	1.00	4.9	16,700	1650	.83	.99	1.00	
	375	800	6.2	21,100	1340	.84	1.00	1.00	5.9	20,100	1460	.87	1.00	1.00	5.6	19,100	1580	.89	1.00	1.00	5.3	18,100	1700	.93	1.00	1.00	
67°F (19.4°C)	190	400	5.8	19,800	1320	.54	.65	.76	5.5	18,700	1430	.55	.66	.78	5.2	17,700	1540	.56	.68	.80	4.9	16,600	1650	.56	.69	.82	
	285	600	6.3	21,400	1340	.59	.73	.87	5.9	20,200	1460	.60	.75	.90	5.6	19,000	1580	.61	.78	.93	5.2	17,800	1690	.63	.80	.96	
	375	800	6.5	22,300	1360	.64	.82	.97	6.2	21,000	1480	.65	.84	.99	5.8	19,800	1600	.67	.87	1.00	5.4	18,500	1720	.69	.90	1.00	
71°F (21.7°C)	190	400	6.2	21,300	1340	.42	.52	.62	5.9	20,200	1460	.42	.53	.63	5.6	19,100	1580	.42	.54	.65	5.3	18,000	1700	.42	.54	.66	
	285	600	6.7	23,000	1370	.43	.57	.71	6.4	21,700	1490	.44	.58	.73	6.0	20,500	1620	.44	.60	.75	5.6	19,200	1740	.45	.61	.77	
	375	800	7.0	23,800	1380	.45	.62	.79	6.6	22,500	1510	.46	.64	.82	6.2	21,200	1630	.46	.66	.84	5.8	19,800	1760	.47	.68	.88	

NOTE — All values are gross capacities and do not include indoor coil blower motor heat deduction.

HP29-211 / 10HPB18 — COOLING CAPACITY — C26-21(FC) — CH23-21

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		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	
63°F (17.2°C)	235	500	5.3	18,100	1380	.72	.85	.97	5.0	17,000	1480	.74	.88	.99	4.7	16,000	1580	.76	.91	1.00	4.4	14,900	1670	.78	.94	1.00	
	285	600	5.5	18,700	1400	.76	.91	1.00	5.2	17,600	1500	.78	.93	1.00	4.9	16,600	1600	.81	.96	1.00	4.5	15,500	1700	.83	.99	1.00	
	330	700	5.7	19,300	1410	.80	.95	1.00	5.3	18,200	1510	.82	.98	1.00	5.0	17,100	1620	.85	1.00	1.00	4.7	16,100	1720	.88	1.00	1.00	
67°F (19.4°C)	235	500	5.7	19,400	1410	.56	.69	.82	5.4	18,300	1520	.57	.71	.84	5.0	17,100	1620	.58	.73	.87	4.7	16,000	1720	.60	.75	.90	
	285	600	5.9	20,000	1420	.59	.73	.87	5.5	18,800	1530	.60	.75	.90	5.2	17,600	1630	.61	.78	.93	4.8	16,400	1730	.63	.81	.96	
	330	700	6.0	20,400	1420	.61	.77	.92	5.6	19,200	1540	.62	.80	.95	5.3	18,000	1650	.64	.83	.97	4.9	16,700	1750	.66	.86	1.00	
71°F (21.7°C)	235	500	6.1	20,800	1430	.42	.54	.66	5.7	19,600	1550	.43	.55	.68	5.4	18,400	1660	.43	.57	.70	5.0	17,200	1770	.44	.58	.73	
	285	600	6.3	21,400	1440	.43	.57	.71	5.9	20,200	1560	.44	.58	.73	5.5	18,900	1670	.44	.60	.75	5.2	17,600	1780	.45	.61	.78	
	330	700	6.4	21,800	1440	.44	.60	.75	6.0	20,500	1560	.45	.61	.77	5.7	19,300	1680	.45	.63	.80	5.3	18,000	1790	.46	.65	.83	

NOTE — All values are gross capacities and do not include indoor coil blower motor heat deduction.

HP29–211 / 10HPB18 — HEATING CAPACITY — 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 (-28°C)		
		Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input
L/s	cfm	kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh	
190	400	5.9	20,100	1480	4.4	15,000	1300	2.9	9,800	1105	1.8	6,100	990	.8	2,700	755
285	600	6.2	21,100	1395	4.7	16,000	1215	3.2	10,800	1020	2.1	7,100	905	1.1	3,700	670
380	800	6.4	21,700	1345	4.9	16,600	1165	3.3	11,400	970	2.3	7,700	855	1.3	4,300	620

NOTE — Heating capacities include the effect of defrost cycles in the temperature range where they occur.

HP29-211/ 10HPB18 — HEATING CAPACITY — C26-21(FC) — CH23-21

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 (-28°C)		
		Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input
L/s	cfm	kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh	
235	500	6.3	21,400	1490	4.7	16,100	1275	3.1	10,600	1060	2.1	7100	855	1.0	3400	650
285	600	6.4	21,900	1460	4.9	16,600	1245	3.3	11,100	1030	2.2	7600	825	1.1	3900	620
330	700	6.6	22,400	1435	5.0	17,100	1215	3.4	11,600	1000	2.4	8100	795	1.3	4400	590

NOTE — Heating capacities include the effect of defrost cycles in the temperature range where they occur.

HP29–211 / 10HPB18 — HEATING PERFORMANCE CB30M–21/26 at 600 cfm (285 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	1395	21,100	6.2
60	16	1360	19,900	5.8
55	13	1320	18,700	5.5
50	10	1280	17,500	5.1
47	8	1255	16,800	4.9
45	7	1215	16,000	4.7
40	4	1120	14,100	4.1
35	2	1020	12,300	3.6
30	-1	1020	11,500	3.4
25	-4	1020	10,800	3.2
20	-7	1020	10,000	2.9
17	-8	1020	9,600	2.8
15	-9	1005	9,100	2.7
10	-12	965	7,900	2.3
5	-15	905	7,100	2.1
0	-18	850	6,200	1.8
-5	-21	790	5,400	1.6
-10	-23	730	4,600	1.3
-15	-26	670	3,700	1.1
-20	-29	615	2,900	.8

*Outdoor temperature 70% relative humidity. Indoor temperature 70°F (21°C).

HP29-211 / 10HPB18 — HEATING PERFORMANCE C26-21(FC) — CH23–21 at 600 cfm (285 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	1460	21,900	6.4
60	16	1410	20,700	6.1
55	13	1355	19,400	5.7
50	10	1300	18,200	5.3
47	8	1270	17,400	5.1
45	7	1245	16,600	4.9
40	4	1190	14,600	4.3
35	2	1130	12,700	3.7
30	-1	1080	11,900	3.5
25	-4	1030	11,100	3.3
20	-7	980	10,300	3.0
17	-8	950	9900	2.9
15	-9	930	9500	2.8
10	-12	880	8600	2.5
5	-15	825	7600	2.2
0	-18	775	6700	2.0
-5	-21	725	5800	1.7
-10	-23	670	4800	1.4
-15	-26	620	3900	1.1
-20	-29	570	3000	0.9

*Outdoor temperature 70% relative humidity. Indoor temperature 70°F (21°C).

RATINGS

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

HP29-211 / 10HPB18 — COOLING CAPACITY — C26-26(W)(FC)

Outdoor Air Temperature Entering Outdoor Coil

Entering Wet Bulb Temperature	Total Air Volume L/s	Total Air Volume cfm	85°F (29°C) Total Cooling Capacity kW	85°F (29°C) Total Cooling Capacity Btuh	85°F (29°C) Compressor Motor Watts Input	85°F (29°C) S/T Dry Bulb 75°F 24°C	85°F (29°C) S/T Dry Bulb 80°F 27°C	85°F (29°C) S/T Dry Bulb 85°F 29°C	95°F (35°C) Total Cooling Capacity kW	95°F (35°C) Total Cooling Capacity Btuh	95°F (35°C) Compressor Motor Watts Input	95°F (35°C) S/T Dry Bulb 75°F 24°C	95°F (35°C) S/T Dry Bulb 80°F 27°C	95°F (35°C) S/T Dry Bulb 85°F 29°C	105°F (41°C) Total Cooling Capacity kW	105°F (41°C) Total Cooling Capacity Btuh	105°F (41°C) Compressor Motor Watts Input	105°F (41°C) S/T Dry Bulb 75°F 24°C	105°F (41°C) S/T Dry Bulb 80°F 27°C	105°F (41°C) S/T Dry Bulb 85°F 29°C	115°F (46°C) Total Cooling Capacity kW	115°F (46°C) Total Cooling Capacity Btuh	115°F (46°C) Compressor Motor Watts Input	115°F (46°C) S/T Dry Bulb 75°F 24°C	115°F (46°C) S/T Dry Bulb 80°F 27°C	115°F (46°C) S/T Dry Bulb 85°F 29°C
63°F (17.2°C)	235	500	5.5	18,600	1400	.72	.85	.97	5.1	17,500	1500	.73	.87	.99	4.8	16,400	1600	.75	.90	1.00	4.5	15,300	1690	.78	.93	1.00
	285	600	5.7	19,300	1410	.76	.90	1.00	5.3	18,200	1520	.78	.93	1.00	5.0	17,000	1620	.80	.96	1.00	4.7	15,900	1720	.83	.99	1.00
	330	700	5.8	19,900	1420	.80	.95	1.00	5.5	18,700	1530	.82	.98	1.00	5.2	17,600	1640	.85	1.00	1.00	4.9	16,600	1750	.88	1.00	1.00
67°F (19.4°C)	235	500	5.9	20,000	1420	.56	.69	.81	5.5	18,800	1530	.57	.71	.84	5.2	17,600	1640	.58	.73	.86	4.8	16,400	1740	.60	.75	.90
	285	600	6.0	20,600	1430	.58	.73	.87	5.7	19,400	1540	.60	.75	.89	5.3	18,200	1650	.61	.78	.93	5.0	16,900	1760	.63	.80	.96
	330	700	6.2	21,100	1440	.61	.77	.92	5.8	19,800	1550	.62	.79	.95	5.4	18,500	1670	.64	.82	.98	5.1	17,300	1770	.66	.85	1.00
71°F (21.7°C)	235	500	6.3	21,500	1440	.42	.54	.66	5.9	20,300	1560	.43	.55	.68	5.6	19,000	1680	.43	.56	.70	5.2	17,800	1790	.43	.58	.72
	285	600	6.5	22,100	1450	.43	.57	.70	6.1	20,800	1570	.44	.58	.72	5.7	19,500	1690	.44	.59	.75	5.3	18,200	1810	.45	.61	.78
	330	700	6.6	22,600	1450	.44	.59	.74	6.2	21,300	1580	.45	.61	.77	5.8	19,900	1700	.45	.63	.80	5.4	18,500	1820	.46	.65	.83

NOTE — All values are gross capacities and do not include indoor coil blower motor heat deduction.

HP29-211 / 10HPB18 — COOLING CAPACITY — CR26-21

Outdoor Air Temperature Entering Outdoor Coil

Entering Wet Bulb Temperature	Total Air Volume L/s	Total Air Volume cfm	85°F (29°C) Total Cooling Capacity kW	85°F (29°C) Total Cooling Capacity Btuh	85°F (29°C) Compressor Motor Watts Input	85°F (29°C) S/T Dry Bulb 75°F 24°C	85°F (29°C) S/T Dry Bulb 80°F 27°C	85°F (29°C) S/T Dry Bulb 85°F 29°C	95°F (35°C) Total Cooling Capacity kW	95°F (35°C) Total Cooling Capacity Btuh	95°F (35°C) Compressor Motor Watts Input	95°F (35°C) S/T Dry Bulb 75°F 24°C	95°F (35°C) S/T Dry Bulb 80°F 27°C	95°F (35°C) S/T Dry Bulb 85°F 29°C	105°F (41°C) Total Cooling Capacity kW	105°F (41°C) Total Cooling Capacity Btuh	105°F (41°C) Compressor Motor Watts Input	105°F (41°C) S/T Dry Bulb 75°F 24°C	105°F (41°C) S/T Dry Bulb 80°F 27°C	105°F (41°C) S/T Dry Bulb 85°F 29°C	115°F (46°C) Total Cooling Capacity kW	115°F (46°C) Total Cooling Capacity Btuh	115°F (46°C) Compressor Motor Watts Input	115°F (46°C) S/T Dry Bulb 75°F 24°C	115°F (46°C) S/T Dry Bulb 80°F 27°C	115°F (46°C) S/T Dry Bulb 85°F 29°C
63°F (17.2°C)	235	500	5.2	17,700	1380	.71	.84	.96	4.9	16,700	1470	.73	.87	.98	4.6	15,700	1570	.75	.89	1.00	4.3	14,600	1660	.77	.92	1.00
	285	600	5.4	18,300	1390	.75	.89	1.00	5.1	17,300	1490	.77	.92	1.00	4.7	16,200	1590	.79	.95	1.00	4.5	15,200	1680	.82	.97	1.00
	330	700	5.5	18,800	1400	.78	.94	1.00	5.2	17,800	1500	.81	.96	1.00	4.9	16,700	1600	.83	.99	1.00	4.6	15,700	1700	.86	1.00	1.00
67°F (19.4°C)	235	500	5.6	19,100	1400	.56	.68	.81	5.3	18,000	1510	.57	.70	.83	5.0	16,900	1610	.58	.72	.86	4.6	15,700	1710	.59	.74	.89
	285	600	5.7	19,600	1410	.58	.72	.86	5.4	18,500	1520	.59	.74	.88	5.1	17,300	1630	.60	.76	.91	4.7	16,100	1720	.62	.79	.94
	330	700	5.9	20,100	1420	.60	.76	.90	5.5	18,900	1530	.61	.78	.93	5.2	17,700	1640	.63	.81	.96	4.8	16,500	1740	.65	.84	.99
71°F (21.7°C)	235	500	6.0	20,500	1430	.42	.54	.66	5.7	19,300	1540	.43	.55	.67	5.3	18,200	1650	.43	.56	.69	5.0	17,000	1760	.43	.57	.71
	285	600	6.2	21,100	1430	.43	.56	.69	5.8	19,900	1550	.43	.57	.71	5.5	18,600	1660	.44	.59	.74	5.1	17,400	1770	.44	.60	.76
	330	700	6.3	21,500	1440	.44	.58	.73	5.9	20,300	1560	.44	.60	.75	5.6	19,000	1670	.45	.61	.78	5.2	17,700	1790	.46	.63	.81

NOTE — All values are gross capacities and do not include indoor coil blower motor heat deduction.

HP29-211 / 10HPB18 — HEATING CAPACITY — C26-26(W)(FC)

Air Temperature Entering Outdoor Coil

Indoor Coil Air Volume 70°F db (21°C db) L/s	cfm	65°F (18°C) Total Heating Capacity kW	65°F (18°C) Total Heating Capacity Btuh	65°F (18°C) Comp. Motor Watts Input	45°F (7°C) Total Heating Capacity kW	45°F (7°C) Total Heating Capacity Btuh	45°F (7°C) Comp. Motor Watts Input	25°F (-4°C) Total Heating Capacity kW	25°F (-4°C) Total Heating Capacity Btuh	25°F (-4°C) Comp. Motor Watts Input	5°F (-15°C) Total Heating Capacity kW	5°F (-15°C) Total Heating Capacity Btuh	5°F (-15°C) Comp. Motor Watts Input	-15°F (-28°C) Total Heating Capacity kW	-15°F (-28°C) Total Heating Capacity Btuh	-15°F (-28°C) Comp. Motor Watts Input
235	500	6.3	21,500	1480	4.7	16,200	1270	3.1	10,700	1055	2.1	7200	855	1.0	3400	650
285	600	6.4	22,000	1450	4.9	16,700	1240	3.3	11,200	1025	2.3	7700	825	1.1	3900	620
330	700	6.6	22,600	1420	5.0	17,200	1210	3.4	11,700	1000	2.4	8200	795	1.3	4500	590

NOTE — Heating capacities include the effect of defrost cycles in the temperature range where they occur.

HP29-211 / 10HPB18 — HEATING CAPACITY — CR26-21

Air Temperature Entering Outdoor Coil

Indoor Coil Air Volume 70°F db (21°C db) L/s	cfm	65°F (18°C) Total Heating Capacity kW	65°F (18°C) Total Heating Capacity Btuh	65°F (18°C) Comp. Motor Watts Input	45°F (7°C) Total Heating Capacity kW	45°F (7°C) Total Heating Capacity Btuh	45°F (7°C) Comp. Motor Watts Input	25°F (-4°C) Total Heating Capacity kW	25°F (-4°C) Total Heating Capacity Btuh	25°F (-4°C) Comp. Motor Watts Input	5°F (-15°C) Total Heating Capacity kW	5°F (-15°C) Total Heating Capacity Btuh	5°F (-15°C) Comp. Motor Watts Input	-15°F (-28°C) Total Heating Capacity kW	-15°F (-28°C) Total Heating Capacity Btuh	-15°F (-28°C) Comp. Motor Watts Input
235	500	6.2	21,100	1510	4.7	15,900	1285	3.0	10,400	1065	2.1	7000	855	1.0	3300	650
285	600	6.4	21,700	1485	4.8	16,400	1260	3.2	11,000	1035	2.2	7600	830	1.1	3900	625
330	700	6.5	22,200	1455	5.0	16,900	1235	3.4	11,500	1010	2.4	8100	805	1.3	4400	595

NOTE — Heating capacities include the effect of defrost cycles in the temperature range where they occur.

HP29-211 / 10HPB18 — HEATING PERFORMANCE C26-26(W)(FC) at 600 cfm (285 L/s)

*Outdoor Temperature °F	*Outdoor Temperature °C	Compressor Motor Watts Input	Total Output Btuh	Total Output kW
65	18	1450	22,000	6.4
60	16	1395	20,800	6.1
55	13	1345	19,500	5.7
50	10	1295	18,300	5.4
47	8	1260	17,500	5.1
45	7	1240	16,700	4.9
40	4	1180	14,700	4.3
35	2	1125	12,700	3.7
30	-1	1075	11,900	3.5
25	-4	1025	11,200	3.3
20	-7	980	10,400	3.0
17	-8	950	9900	2.9
15	-9	930	9500	2.8
10	-12	875	8600	2.5
5	-15	825	7700	2.3
0	-18	775	6700	2.0
-5	-21	725	5800	1.7
-10	-23	670	4900	1.4
-15	-26	620	3900	1.1
-20	-29	570	3000	0.9

*Outdoor temperature 70% relative humidity. Indoor temperature 70°F (21°C).

HP29-211 / 10HPB18 — HEATING PERFORMANCE CR26-21 at 600 cfm (285 L/s)

*Outdoor Temperature °F	*Outdoor Temperature °C	Compressor Motor Watts Input	Total Output Btuh	Total Output kW
65	18	1500	21,400	6.3
60	16	1445	20,200	5.9
55	13	1385	18,900	5.5
50	10	1330	17,700	5.2
47	8	1295	17,000	5.0
45	7	1270	16,200	4.7
40	4	1210	14,300	4.2
35	2	1150	12,400	3.6
30	-1	1095	11,600	3.4
25	-4	1040	10,900	3.2
20	-7	990	10,100	3.0
17	-8	955	9700	2.8
15	-9	935	9300	2.7
10	-12	885	8400	2.5
5	-15	830	7500	2.2
0	-18	780	6600	1.9
-5	-21	730	5700	1.7
-10	-23	675	4700	1.4
-15	-26	625	3800	1.1
-20	-29	575	2900	0.8

*Outdoor temperature 70% relative humidity. Indoor temperature 70°F (21°C).

RATINGS

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

HP29–261 / 10HPB24 — COOLING CAPACITY — CB29M–21/26

Outdoor Air Temperature Entering Outdoor Coil

Entering Wet Bulb Temperature	Total Air Volume		85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
	L/s	cfm	Total Cooling Capacity kW	Total Cooling Capacity Btuh	Compressor Motor Watts Input	S/T Dry Bulb 75°F 24°C	80°F 27°C	85°F 29°C	Total Cooling Capacity kW	Total Cooling Capacity Btuh	Compressor Motor Watts Input	S/T Dry Bulb 75°F 24°C	80°F 27°C	85°F 29°C	Total Cooling Capacity kW	Total Cooling Capacity Btuh	Compressor Motor Watts Input	S/T Dry Bulb 75°F 24°C	80°F 27°C	85°F 29°C	Total Cooling Capacity kW	Total Cooling Capacity Btuh	Compressor Motor Watts Input	S/T Dry Bulb 75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	305	650	6.5	22,100	1780	.72	.86	.97	6.1	20,900	1900	.74	.88	.99	5.8	19,700	2010	.76	.91	1.00	5.4	18,400	2110	.78	.94	1.00
	375	800	6.7	23,000	1800	.77	.92	1.00	6.4	21,700	1930	.79	.94	1.00	6.0	20,500	2040	.81	.96	1.00	5.6	19,200	2150	.84	.99	1.00
	450	950	6.9	23,700	1820	.81	.96	1.00	6.6	22,400	1950	.84	.98	1.00	6.2	21,200	2070	.86	1.00	1.00	5.8	19,900	2190	.89	1.00	1.00
67°F (19.4°C)	305	650	6.9	23,700	1820	.57	.70	.82	6.6	22,400	1950	.57	.71	.85	6.2	21,000	2060	.59	.73	.87	5.7	19,600	2170	.60	.76	.90
	375	800	7.2	24,400	1840	.59	.74	.88	6.8	23,100	1970	.60	.76	.91	6.4	21,700	2090	.62	.79	.94	5.9	20,200	2200	.64	.82	.96
	450	950	7.3	25,000	1860	.62	.79	.94	6.9	23,600	1990	.63	.81	.96	6.5	22,100	2110	.65	.84	.98	6.0	20,600	2220	.67	.87	1.00
71°F (21.7°C)	305	650	7.4	25,400	1870	.42	.55	.67	7.0	24,000	2000	.43	.56	.68	6.6	22,600	2130	.43	.57	.70	6.2	21,100	2250	.44	.58	.73
	375	800	7.7	26,200	1890	.43	.58	.72	7.2	24,700	2030	.44	.59	.74	6.8	23,200	2160	.44	.60	.76	6.4	21,700	2280	.45	.62	.79
	450	950	7.8	26,700	1900	.44	.60	.76	7.4	25,200	2040	.45	.62	.79	6.9	23,700	2170	.46	.64	.81	6.4	22,000	2300	.47	.66	.85

NOTE — All values are gross capacities and do not include indoor coil blower motor heat deduction.

HP29–261 / 10HPB24 — COOLING CAPACITY — CB29M–31

Outdoor Air Temperature Entering Outdoor Coil

Entering Wet Bulb Temperature	Total Air Volume		85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
	L/s	cfm	Total Cooling Capacity kW	Total Cooling Capacity Btuh	Compressor Motor Watts Input	S/T Dry Bulb 75°F 24°C	80°F 27°C	85°F 29°C	Total Cooling Capacity kW	Total Cooling Capacity Btuh	Compressor Motor Watts Input	S/T Dry Bulb 75°F 24°C	80°F 27°C	85°F 29°C	Total Cooling Capacity kW	Total Cooling Capacity Btuh	Compressor Motor Watts Input	S/T Dry Bulb 75°F 24°C	80°F 27°C	85°F 29°C	Total Cooling Capacity kW	Total Cooling Capacity Btuh	Compressor Motor Watts Input	S/T Dry Bulb 75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	330	700	6.7	22,900	1800	.74	.88	.99	6.4	21,700	1920	.75	.90	1.00	6.0	20,400	2030	.78	.93	1.00	5.6	19,000	2140	.80	.96	1.00
	375	800	6.9	23,500	1820	.77	.91	1.00	6.5	22,200	1940	.79	.94	1.00	6.1	20,900	2060	.81	.96	1.00	5.7	19,600	2170	.84	.99	1.00
	425	900	7.0	24,000	1830	.80	.95	1.00	6.7	22,700	1960	.82	.97	1.00	6.3	21,400	2080	.84	.99	1.00	5.9	20,100	2200	.88	1.00	1.00
67°F (19.4°C)	330	700	7.2	24,500	1840	.57	.71	.84	6.8	23,200	1970	.58	.73	.86	6.4	21,800	2090	.60	.75	.89	5.9	20,300	2200	.61	.77	.92
	375	800	7.3	25,000	1860	.59	.74	.88	6.9	23,600	1990	.60	.76	.91	6.5	22,100	2110	.62	.79	.93	6.0	20,600	2220	.63	.81	.96
	425	900	7.4	25,400	1870	.61	.77	.92	7.0	24,000	2000	.62	.79	.94	6.6	22,500	2120	.64	.82	.97	6.1	20,900	2240	.66	.85	.99
71°F (21.7°C)	330	700	7.7	26,300	1890	.43	.55	.68	7.3	24,900	2030	.43	.57	.70	6.9	23,400	2160	.43	.58	.72	6.4	21,800	2280	.44	.59	.75
	375	800	7.9	26,800	1910	.43	.57	.71	7.4	25,300	2040	.44	.59	.73	7.0	23,800	2180	.44	.60	.76	6.5	22,100	2300	.45	.62	.79
	425	900	8.0	27,200	1920	.44	.59	.74	7.5	25,700	2060	.45	.61	.77	7.1	24,100	2190	.45	.62	.80	6.6	22,400	2310	.46	.65	.83

NOTE — All values are gross capacities and do not include indoor coil blower motor heat deduction.

HP29–261 / 10HPB24 — HEATING CAPACITY — CB29M–21/26

Air Temperature Entering Outdoor Coil

Indoor Coil Air Volume 70°F db (21°C db)		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-28°C)		
L/s	cfm	Total Heating Capacity kW	Total Heating Capacity Btuh	Comp. Motor Watts Input	Total Heating Capacity kW	Total Heating Capacity Btuh	Comp. Motor Watts Input	Total Heating Capacity kW	Total Heating Capacity Btuh	Comp. Motor Watts Input	Total Heating Capacity kW	Total Heating Capacity Btuh	Comp. Motor Watts Input	Total Heating Capacity kW	Total Heating Capacity Btuh	Comp. Motor Watts Input
305	650	7.9	27,000	1810	6.0	20,600	1550	4.0	13,800	1285	2.8	9,500	1055	1.6	5,300	780
380	800	7.7	26,400	1840	5.9	20,000	1580	3.9	13,200	1315	2.6	8,900	1085	1.4	4,700	810
450	950	7.5	25,700	1880	5.7	19,300	1620	3.7	12,500	1355	2.4	8,200	1125	1.2	4,000	850

NOTE — Heating capacities include the effect of defrost cycles in the temperature range where they occur.

HP29–261 / 10HPB24 — HEATING CAPACITY — CB29M–31

Air Temperature Entering Outdoor Coil

Indoor Coil Air Volume 70°F db (21°C db)		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-28°C)		
L/s	cfm	Total Heating Capacity kW	Total Heating Capacity Btuh	Comp. Motor Watts Input	Total Heating Capacity kW	Total Heating Capacity Btuh	Comp. Motor Watts Input	Total Heating Capacity kW	Total Heating Capacity Btuh	Comp. Motor Watts Input	Total Heating Capacity kW	Total Heating Capacity Btuh	Comp. Motor Watts Input	Total Heating Capacity kW	Total Heating Capacity Btuh	Comp. Motor Watts Input
330	700	7.6	26,000	1820	5.7	19,600	1565	3.8	12,800	1305	2.5	8,500	1065	1.3	4,300	800
380	800	7.7	26,400	1820	5.9	20,000	1565	3.9	13,200	1305	2.6	8,900	1065	1.4	4,700	800
425	900	7.9	26,800	1800	6.0	20,400	1545	4.0	13,600	1285	2.7	9,300	1045	1.5	5,100	780

NOTE — Heating capacities include the effect of defrost cycles in the temperature range where they occur.

HP29–261 / 10HPB24 — HEATING PERFORMANCE CB29M–21/26 at 800 cfm (380 L/s)

*Outdoor Temperature °F	*Outdoor Temperature °C	Compressor Motor Watts Input	Total Output Btuh	Total Output kW
65	18	1840	26,400	7.7
60	16	1780	24,900	7.3
55	13	1715	23,400	6.9
50	10	1655	21,900	6.4
47	8	1615	21,000	6.2
45	7	1580	20,000	5.9
40	4	1495	17,400	5.1
35	2	1410	14,800	4.3
30	-1	1365	14,000	4.1
25	-4	1315	13,200	3.9
20	-7	1270	12,500	3.7
17	-8	1240	12,000	3.5
15	-9	1215	11,400	3.3
10	-12	1150	9,900	2.9
5	-15	1085	8,900	2.6
0	-18	1015	7,800	2.3
-5	-21	945	6,800	2.0
-10	-23	880	5,700	1.7
-15	-26	810	4,700	1.4
-20	-29	745	3,600	1.1

*Outdoor temperature 70% relative humidity. Indoor temperature 70°F (21°C).

HP29–261 / 10HPB24 — HEATING PERFORMANCE CB29M–31 at 800 cfm (380 L/s)

*Outdoor Temperature °F	*Outdoor Temperature °C	Compressor Motor Watts Input	Total Output Btuh	Total Output kW
65	18	1820	26,400	7.7
60	16	1760	24,900	7.3
55	13	1695	23,400	6.9
50	10	1635	21,900	6.4
47	8	1595	21,000	6.2
45	7	1565	20,000	5.9
40	4	1485	17,400	5.1
35	2	1405	14,800	4.3
30	-1	1355	14,000	4.1
25	-4	1305	13,200	3.9
20	-7	1250	12,500	3.7
17	-8	1220	12,000	3.5
15	-9	1195	11,400	3.3
10	-12	1130	9,900	2.9
5	-15	1065	8,900	2.6
0	-18	1000	7,800	2.3
-5	-21	930	6,800	2.0
-10	-23	865	5,700	1.7
-15	-26	800	4,700	1.4
-20	-29	730	3,600	1.1

*Outdoor temperature 70% relative humidity. Indoor temperature 70°F (21°C).

RATINGS

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

HP29–261 / 10HPB24 — COOLING CAPACITY — 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		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	330	700	7.0	23,800	1830	.73	.87	.99	6.6	22,400	1960	.75	.90	1.00	6.2	21,000	2080	.77	.93	1.00	5.7	19,600	2190	.80	.96	1.00
	375	800	7.2	24,400	1850	.76	.91	1.00	6.7	23,000	1980	.78	.94	1.00	6.3	21,600	2100	.81	.97	1.00	5.9	20,200	2220	.84	.99	1.00
	425	900	7.3	24,900	1870	.79	.95	1.00	6.9	23,500	2000	.82	.97	1.00	6.5	22,100	2120	.84	.99	1.00	6.1	20,800	2250	.88	1.00	1.00
67°F (19.4°C)	330	700	7.5	25,500	1880	.57	.70	.84	7.0	24,000	2020	.58	.72	.86	6.6	22,500	2140	.59	.75	.89	6.1	20,900	2260	.61	.77	.92
	375	800	7.6	26,100	1900	.59	.74	.88	7.2	24,500	2030	.60	.76	.90	6.7	22,900	2160	.62	.78	.93	6.2	21,300	2280	.63	.81	.97
	425	900	7.8	26,500	1910	.61	.77	.92	7.3	24,900	2050	.62	.79	.94	6.8	23,300	2170	.64	.82	.97	6.4	21,700	2290	.66	.85	1.00
71°F (21.7°C)	330	700	8.0	27,400	1930	.43	.55	.68	7.6	25,800	2070	.43	.56	.70	7.1	24,200	2210	.43	.58	.72	6.6	22,500	2340	.44	.59	.74
	375	800	8.2	28,000	1940	.43	.57	.71	7.7	26,300	2090	.44	.58	.73	7.2	24,700	2230	.44	.60	.76	6.7	22,900	2350	.45	.62	.79
	425	900	8.3	28,400	1960	.44	.59	.74	7.8	26,700	2100	.44	.61	.77	7.3	25,000	2240	.45	.62	.79	6.8	23,200	2370	.46	.65	.83

NOTE — All values are gross capacities and do not include indoor coil blower motor heat deduction.

HP29–261 / 10HPB24 — COOLING CAPACITY — 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		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	285	600	6.8	23,300	1820	.70	.83	.94	6.4	21,900	1940	.72	.85	.97	6.0	20,500	2050	.73	.88	.99	5.6	19,100	2160	.76	.91	1.00
	375	800	7.2	24,700	1850	.76	.91	1.00	6.8	23,200	1990	.78	.94	1.00	6.4	21,800	2110	.81	.97	1.00	5.9	20,300	2220	.84	1.00	1.00
	470	1000	7.6	25,800	1880	.82	.98	1.00	7.1	24,300	2020	.85	1.00	1.00	6.7	23,000	2160	.88	1.00	1.00	6.3	21,500	2290	.91	1.00	1.00
67°F (19.4°C)	285	600	7.4	25,100	1870	.55	.67	.79	6.9	23,600	2000	.56	.69	.81	6.5	22,100	2120	.57	.70	.84	6.0	20,600	2240	.58	.73	.87
	375	800	7.7	26,400	1900	.59	.73	.87	7.3	24,800	2040	.60	.75	.90	6.8	23,200	2170	.61	.78	.93	6.3	21,500	2290	.63	.81	.97
	470	1000	8.0	27,300	1920	.62	.80	.95	7.5	25,600	2060	.64	.82	.98	7.0	23,900	2200	.66	.85	1.00	6.5	22,200	2320	.68	.89	1.00
71°F (21.7°C)	285	600	7.9	27,000	1920	.42	.53	.64	7.5	25,500	2060	.42	.54	.66	7.0	23,900	2190	.43	.55	.68	6.5	22,200	2320	.43	.57	.70
	375	800	8.3	28,400	1950	.43	.57	.71	7.8	26,700	2100	.44	.58	.73	7.3	25,000	2240	.44	.60	.75	6.8	23,100	2360	.45	.62	.78
	470	1000	8.6	29,200	1970	.45	.61	.77	8.0	27,400	2120	.45	.63	.80	7.5	25,600	2260	.46	.65	.83	6.9	23,700	2390	.47	.67	.86

NOTE — All values are gross capacities and do not include indoor coil blower motor heat deduction.

HP29–261 / 10HPB24 — HEATING CAPACITY — 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 (-28°C)		
		Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input
L/s	cfm	kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh	
330	700	7.7	26,200	1890	5.7	19,600	1610	3.8	12,800	1325	2.4	8,300	1095	1.2	4,100	830
380	800	7.8	26,700	1865	5.9	20,100	1585	3.9	13,300	1300	2.6	8,800	1070	1.3	4,600	805
425	900	8.0	27,200	1845	6.0	20,600	1565	4.0	13,800	1280	2.7	9,300	1050	1.5	5,100	785

NOTE — Heating capacities include the effect of defrost cycles in the temperature range where they occur.

HP29–261 / 10HPB24 — HEATING CAPACITY — 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 (-28°C)		
		Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input
L/s	cfm	kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh	
330	700	7.6	25,800	1975	5.6	19,200	1685	3.6	12,400	1385	2.3	7,900	1175	1.1	3,700	895
380	800	7.8	26,700	1915	5.9	20,100	1625	3.9	13,300	1325	2.6	8,800	1115	1.3	4,600	835
425	900	8.0	27,200	1875	6.0	20,600	1585	4.0	13,800	1285	2.7	9,300	1075	1.5	5,100	795

NOTE — Heating capacities include the effect of defrost cycles in the temperature range where they occur.

HP29–261 / 10HPB24 — HEATING PERFORMANCE CB30M–21/26 at 800 cfm (380 L/s)

*Outdoor Temperature °F	°C	Compressor Motor Watts Input	Total Output Btuh	kW
65	18	1865	26,700	7.8
60	16	1800	25,200	7.4
55	13	1730	23,700	6.9
50	10	1665	22,100	6.5
47	8	1625	21,200	6.2
45	7	1585	20,100	5.9
40	4	1490	17,500	5.1
35	2	1395	14,900	4.4
30	-1	1345	14,100	4.1
25	-4	1300	13,300	3.9
20	-7	1255	12,500	3.7
17	-8	1230	12,000	3.5
15	-9	1205	11,400	3.3
10	-12	1135	9,900	2.9
5	-15	1070	8,800	2.6
0	-18	1005	7,800	2.3
-5	-21	935	6,700	2.0
-10	-23	870	5,700	1.7
-15	-26	805	4,600	1.3
-20	-29	735	3,600	1.1

*Outdoor temperature 70% relative humidity. Indoor temperature 70°F(21°C).

HP29–261 / 10HPB24 — HEATING PERFORMANCE CB30M–31 at 800 cfm (380 L/s)

*Outdoor Temperature °F	°C	Compressor Motor Watts Input	Total Output Btuh	kW
65	18	1915	26,700	7.8
60	16	1850	25,200	7.4
55	13	1780	23,700	6.9
50	10	1715	22,100	6.5
47	8	1675	21,200	6.2
45	7	1625	20,100	5.9
40	4	1505	17,500	5.1
35	2	1385	14,900	4.4
30	-1	1355	14,100	4.1
25	-4	1325	13,300	3.9
20	-7	1295	12,500	3.7
17	-8	1280	12,000	3.5
15	-9	1255	11,400	3.3
10	-12	1185	9,900	2.9
5	-15	1115	8,800	2.6
0	-18	1045	7,800	2.3
-5	-21	975	6,700	2.0
-10	-23	905	5,700	1.7
-15	-26	835	4,600	1.3
-20	-29	765	3,600	1.1

*Outdoor temperature 70% relative humidity. Indoor temperature 70°F(21°C).

RATINGS

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

HP29-261 / 10HPB24 — COOLING CAPACITY — C26-21(FC) — CH23-21

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		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	305	650	6.6	22,400	1790	.73	.86	.97	6.2	21,200	1910	.74	.88	.99	5.8	19,900	2020	.76	.91	1.00	5.5	18,700	2120	.79	.94	1.00
	375	800	6.8	23,300	1820	.77	.92	1.00	6.4	22,000	1940	.79	.94	1.00	6.1	20,700	2060	.82	.97	1.00	5.7	19,400	2170	.85	.99	1.00
	450	950	7.0	24,000	1840	.82	.97	1.00	6.7	22,800	1960	.84	.99	1.00	6.3	21,500	2090	.87	1.00	1.00	5.9	20,200	2210	.90	1.00	1.00
67°F (19.4°C)	305	650	7.0	24,000	1840	.57	.70	.83	6.7	22,700	1960	.58	.72	.85	6.2	21,300	2080	.59	.74	.88	5.8	19,900	2190	.60	.76	.91
	375	800	7.3	24,800	1860	.59	.75	.89	6.9	23,400	1990	.61	.77	.91	6.4	21,900	2110	.62	.79	.94	6.0	20,400	2220	.64	.82	.97
	450	950	7.4	25,300	1870	.62	.79	.94	7.0	23,900	2000	.64	.82	.96	6.6	22,400	2130	.65	.85	.99	6.1	20,900	2240	.68	.88	1.00
71°F (21.7°C)	305	650	7.5	25,700	1880	.43	.55	.67	7.1	24,300	2020	.43	.56	.69	6.7	22,900	2150	.43	.57	.71	6.3	21,400	2260	.44	.59	.73
	375	800	7.8	26,500	1900	.43	.58	.72	7.3	25,000	2040	.44	.59	.74	6.9	23,500	2170	.44	.61	.77	6.4	21,900	2290	.45	.63	.80
	450	950	7.9	27,000	1920	.45	.61	.77	7.5	25,500	2060	.45	.62	.79	7.0	23,900	2190	.46	.64	.82	6.5	22,300	2310	.47	.66	.85

NOTE — All values are gross capacities and do not include indoor coil blower motor heat deduction.

HP29-261 / 10HPB24 — COOLING CAPACITY — C26-26(W)(FC) — CH23-31

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		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	305	650	6.8	23,200	1820	.72	.86	.97	6.4	21,900	1940	.74	.88	.99	6.0	20,600	2060	.76	.91	1.00	5.6	19,200	2160	.78	.94	1.00
	375	800	7.1	24,100	1850	.77	.92	1.00	6.7	22,800	1970	.79	.94	1.00	6.3	21,400	2090	.81	.97	1.00	5.9	20,100	2210	.84	.99	1.00
	450	950	7.3	24,900	1870	.81	.97	1.00	6.9	23,600	2000	.84	.99	1.00	6.5	22,200	2130	.87	1.00	1.00	6.1	20,900	2250	.90	1.00	1.00
67°F (19.4°C)	305	650	7.3	24,900	1870	.56	.69	.82	6.9	23,500	2000	.57	.71	.84	6.4	22,000	2120	.59	.73	.87	6.0	20,500	2230	.60	.76	.90
	375	800	7.5	25,700	1890	.59	.74	.88	7.1	24,200	2020	.60	.76	.91	6.7	22,700	2150	.62	.79	.94	6.2	21,100	2260	.64	.82	.97
	450	950	7.7	26,300	1900	.62	.79	.94	7.3	24,800	2040	.63	.81	.96	6.8	23,200	2170	.65	.84	.99	6.3	21,600	2290	.67	.87	1.00
71°F (21.7°C)	305	650	7.8	26,700	1910	.42	.55	.67	7.4	25,200	2050	.43	.56	.68	6.9	23,700	2190	.43	.57	.70	6.5	22,100	2310	.44	.58	.73
	375	800	8.1	27,600	1940	.43	.57	.72	7.6	26,000	2080	.44	.59	.74	7.2	24,400	2210	.44	.60	.76	6.7	22,700	2340	.45	.62	.79
	450	950	8.3	28,200	1950	.44	.60	.76	7.8	26,500	2100	.45	.62	.79	7.3	24,800	2230	.46	.64	.82	6.8	23,100	2360	.47	.66	.85

NOTE — All values are gross capacities and do not include indoor coil blower motor heat deduction.

HP29-261 / 10HPB24 — HEATING CAPACITY — C26-21(FC) — CH23-21

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 (-28°C)		
		Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input
L/s	cfm	kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh	
305	650	8.0	27,200	1980	5.9	20,200	1685	3.8	12,900	1385	2.5	8700	1120	1.2	4100	850
375	800	8.2	27,900	1945	6.1	20,900	1645	4.0	13,600	1345	2.8	9400	1080	1.4	4800	810
450	950	8.4	28,700	1905	6.3	21,600	1610	4.2	14,300	1310	3.0	10,100	1045	1.6	5500	775

NOTE — Heating capacities include the effect of defrost cycles in the temperature range where they occur.

HP29-261 / 10HPB24 — HEATING CAPACITY — C26-26(W)(FC) — CH23-31

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 (-28°C)		
		Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input
L/s	cfm	kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh	
305	650	8.1	27,500	1960	6.0	20,400	1670	3.8	13,000	1380	2.5	8700	1120	1.2	4100	855
375	800	8.3	28,200	1915	6.2	21,100	1630	4.0	13,700	1340	2.8	9400	1080	1.4	4800	810
450	950	8.5	28,900	1875	6.4	21,800	1585	4.2	14,400	1295	3.0	10,200	1035	1.6	5500	770

NOTE — Heating capacities include the effect of defrost cycles in the temperature range where they occur.

HP29-261 / 10HPB24 — HEATING PERFORMANCE C26-21(FC) — CH23-21 at 800 cfm (375 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	1945	27,900	8.2
60	16	1870	26,300	7.7
55	13	1795	24,600	7.2
50	10	1725	23,000	6.7
47	8	1680	22,000	6.4
45	7	1645	20,900	6.1
40	4	1560	18,100	5.3
35	2	1475	15,400	4.5
30	-1	1410	14,500	4.2
25	-4	1345	13,600	4.0
20	-7	1280	12,700	3.7
17	-8	1245	12,100	3.5
15	-9	1215	11,700	3.4
10	-12	1150	10,500	3.1
5	-15	1080	9400	2.8
0	-18	1015	8200	2.4
-5	-21	945	7100	2.1
-10	-23	880	5900	1.7
-15	-26	810	4800	1.4
-20	-29	745	3600	1.1

*Outdoor temperature 70% relative humidity. Indoor temperature 70°F(21°C).

HP29-261 / 10HPB24 — HEATING PERFORMANCE C26-26(W)(FC) — CH23-31 at 800 cfm (375 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	1915	28,200	8.3
60	16	1845	26,500	7.8
55	13	1775	24,900	7.3
50	10	1705	23,200	6.8
47	8	1665	22,200	6.5
45	7	1630	21,100	6.2
40	4	1545	18,300	5.4
35	2	1465	15,500	4.5
30	-1	1400	14,600	4.3
25	-4	1340	13,700	4.0
20	-7	1275	12,800	3.8
17	-8	1240	12,200	3.6
15	-9	1215	11,700	3.4
10	-12	1145	10,600	3.1
5	-15	1080	9400	2.8
0	-18	1010	8300	2.4
-5	-21	945	7100	2.1
-10	-23	880	6000	1.8
-15	-26	810	4800	1.4
-20	-29	745	3700	1.1

*Outdoor temperature 70% relative humidity. Indoor temperature 70°F(21°C).

RATINGS

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

HP29-261 / 10HPB24 — COOLING CAPACITY — CR26-21

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil 85°F (29°C) Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			95°F (35°C) Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			105°F (41°C) Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			115°F (46°C) Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	305	650	6.4	21,900	1780	.72	.85	.96	6.1	20,800	1890	.73	.87	.98	5.7	19,500	2000	.75	.90	1.00	5.4	18,300	2100	.77	.92	1.00
	375	800	6.7	22,800	1800	.76	.90	1.00	6.3	21,500	1920	.78	.93	1.00	5.9	20,300	2030	.80	.95	1.00	5.6	19,000	2140	.83	.98	1.00
	450	950	6.9	23,400	1820	.80	.95	1.00	6.5	22,200	1950	.82	.97	1.00	6.1	20,900	2060	.85	.99	1.00	5.8	19,700	2180	.88	1.00	1.00
67°F (19.4°C)	305	650	6.9	23,500	1820	.56	.69	.81	6.5	22,300	1950	.57	.70	.83	6.1	20,900	2060	.58	.72	.86	5.7	19,500	2170	.59	.75	.89
	375	800	7.1	24,300	1840	.58	.73	.87	6.7	22,900	1970	.60	.75	.89	6.3	21,500	2090	.61	.77	.92	5.9	20,100	2200	.63	.80	.95
	450	950	7.3	24,900	1860	.61	.77	.92	6.9	23,400	1990	.62	.80	.95	6.4	22,000	2110	.64	.82	.97	6.0	20,500	2220	.66	.85	.99
71°F (21.7°C)	305	650	7.4	25,300	1870	.42	.54	.66	7.0	23,900	2000	.43	.55	.68	6.6	22,500	2130	.43	.56	.69	6.2	21,000	2250	.43	.58	.72
	375	800	7.6	26,000	1890	.43	.57	.70	7.2	24,600	2030	.44	.58	.72	6.8	23,100	2160	.44	.59	.75	6.3	21,600	2280	.45	.61	.77
	450	950	7.8	26,600	1910	.44	.59	.75	7.4	25,100	2040	.45	.61	.77	6.9	23,600	2170	.45	.63	.80	6.4	22,000	2290	.46	.65	.83

NOTE — All values are gross capacities and do not include indoor coil blower motor heat deduction.

HP29–311 / 10HPB30 — COOLING CAPACITY — CB29M–31

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil 85°F (29°C) Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			95°F (35°C) Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			105°F (41°C) Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			115°F (46°C) Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	425	900	8.4	28,600	2310	.74	.88	.99	7.9	27,100	2470	.76	.91	1.00	7.5	25,500	2630	.78	.93	1.00	7.0	24,000	2770	.81	.96	1.00
	470	1000	8.5	29,100	2330	.77	.91	1.00	8.1	27,600	2490	.79	.94	1.00	7.6	26,000	2650	.81	.96	1.00	7.2	24,500	2800	.83	.98	1.00
	520	1100	8.6	29,500	2350	.79	.94	1.00	8.2	28,000	2510	.81	.96	1.00	7.8	26,500	2670	.83	.98	1.00	7.3	25,000	2830	.86	1.00	1.00
67°F (19.4°C)	425	900	8.9	30,400	2370	.58	.72	.85	8.4	28,800	2540	.59	.73	.87	8.0	27,200	2700	.60	.75	.90	7.4	25,400	2850	.61	.78	.93
	470	1000	9.1	30,900	2390	.59	.74	.88	8.6	29,300	2560	.60	.76	.90	8.1	27,500	2720	.62	.78	.93	7.6	25,800	2870	.63	.81	.96
	520	1100	9.2	31,300	2400	.60	.76	.91	8.7	29,600	2570	.62	.79	.93	8.2	27,900	2740	.63	.81	.96	7.6	26,100	2890	.65	.84	.98
71°F (21.7°C)	425	900	9.6	32,600	2440	.43	.56	.69	9.1	30,900	2620	.43	.57	.71	8.5	29,100	2790	.44	.58	.73	8.0	27,400	2960	.44	.60	.75
	470	1000	9.7	33,000	2460	.43	.57	.72	9.2	31,300	2640	.44	.59	.73	8.6	29,500	2810	.44	.60	.76	8.1	27,700	2970	.45	.62	.78
	520	1100	9.8	33,400	2470	.44	.59	.74	9.3	31,700	2650	.44	.60	.76	8.7	29,800	2830	.45	.62	.79	8.2	28,000	2990	.46	.64	.81

NOTE — All values are gross capacities and do not include indoor coil blower motor heat deduction.

HP29-261 / 10HPB24 — HEATING CAPACITY — CR26-21

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil 65°F (18°C) Total Heating Capacity		Comp. Motor Watts Input	45°F (7°C) Total Heating Capacity		Comp. Motor Watts Input	25°F (-4°C) Total Heating Capacity		Comp. Motor Watts Input	5°F (-15°C) Total Heating Capacity		Comp. Motor Watts Input	-15°F (-28°C) Total Heating Capacity		Comp. Motor Watts Input
L/s	cfm	kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh	
305	650	7.9	26,800	2015	5.9	20,000	1705	3.8	12,900	1385	2.5	8600	1115	1.2	4000	845
375	800	8.1	27,600	1980	6.1	20,800	1665	4.0	13,700	1345	2.8	9400	1075	1.4	4800	810
450	950	8.3	28,200	1940	6.3	21,400	1630	4.2	14,300	1310	2.9	10,000	1040	1.6	5400	770

NOTE — Heating capacities include the effect of defrost cycles in the temperature range where they occur.

HP29–311 / 10HPB30 — HEATING CAPACITY — CB29M–31

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil 65°F (18°C) Total Heating Capacity		Comp. Motor Watts Input	45°F (7°C) Total Heating Capacity		Comp. Motor Watts Input	25°F (-4°C) Total Heating Capacity		Comp. Motor Watts Input	5°F (-15°C) Total Heating Capacity		Comp. Motor Watts Input	-15°F (-28°C) Total Heating Capacity		Comp. Motor Watts Input
L/s	cfm	kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh	
425	900	9.2	31,400	2265	6.9	23,600	1975	4.5	15,300	1670	3.1	10,600	1445	1.6	5,400	1075
470	1000	9.3	31,800	2245	7.0	24,000	1955	4.6	15,700	1650	3.2	11,000	1425	1.7	5,800	1055
520	1100	9.4	32,200	2225	7.2	24,400	1935	4.7	16,100	1630	3.3	11,400	1405	1.8	6,200	1035

NOTE — Heating capacities include the effect of defrost cycles in the temperature range where they occur.

HP29-261 / 10HPB24 — HEATING PERFORMANCE CR26-21 at 800 cfm (375 L/s)

*Outdoor Temperature °F	°C	Compressor Motor Watts Input	Total Output Btuh	kW
65	18	1980	27,600	8.1
60	16	1900	26,000	7.6
55	13	1825	24,400	7.2
50	10	1745	22,800	6.7
47	8	1700	21,800	6.4
45	7	1665	20,800	6.1
40	4	1575	18,200	5.3
35	2	1485	15,600	4.6
30	-1	1415	14,600	4.3
25	-4	1345	13,700	4.0
20	-7	1280	12,700	3.7
17	-8	1235	12,200	3.6
15	-9	1210	11,700	3.4
10	-12	1145	10,500	3.1
5	-15	1075	9400	2.8
0	-18	1010	8200	2.4
-5	-21	940	7100	2.1
-10	-23	875	5900	1.7
-15	-26	810	4800	1.4
-20	-29	740	3600	1.1

*Outdoor temperature 70% relative humidity. Indoor temperature 70°F (21°C).

HP29–311 / 10HPB30 — HEATING PERFORMANCE CB29M–31 at 1000 cfm (470 L/s)

*Outdoor Temperature °F	°C	Compressor Motor Watts Input	Total Output Btuh	kW
65	18	2245	31,800	9.3
60	16	2180	30,000	8.8
55	13	2110	28,200	8.3
50	10	2045	26,500	7.8
47	8	2005	25,400	7.4
45	7	1955	24,000	7.0
40	4	1830	20,300	5.9
35	2	1705	16,700	4.9
30	-1	1675	16,200	4.7
25	-4	1650	15,700	4.6
20	-7	1625	15,100	4.4
17	-8	1610	14,800	4.3
15	-9	1580	14,100	4.1
10	-12	1515	12,300	3.6
5	-15	1425	11,000	3.2
0	-18	1330	9,700	2.8
-5	-21	1240	8,400	2.5
-10	-23	1150	7,100	2.1
-15	-26	1055	5,800	1.7
-20	-29	965	4,400	1.3

*Outdoor temperature 70% relative humidity. Indoor temperature 70°F (21°C).

RATINGS

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

HP29–311 / 10HPB30 — COOLING CAPACITY — CB29M–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		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	425	900	8.5	28,900	2310	.74	.88	.99	8.0	27,400	2470	.76	.90	1.00	7.6	25,800	2620	.78	.93	1.00	7.1	24,200	2770	.80	.96	1.00
	470	1000	8.6	29,500	2330	.76	.91	1.00	8.2	27,900	2490	.78	.93	1.00	7.7	26,300	2650	.81	.96	1.00	7.2	24,700	2800	.83	.98	1.00
	520	1100	8.8	30,000	2340	.79	.94	1.00	8.3	28,400	2510	.81	.96	1.00	7.9	26,800	2670	.83	.98	1.00	7.4	25,200	2830	.86	1.00	1.00
67°F (19.4°C)	425	900	9.1	30,900	2370	.57	.71	.85	8.6	29,200	2540	.58	.73	.87	8.1	27,500	2700	.60	.75	.89	7.5	25,700	2860	.61	.78	.92
	470	1000	9.2	31,400	2390	.59	.74	.88	8.7	29,700	2560	.60	.76	.90	8.2	27,900	2720	.61	.78	.93	7.6	26,100	2880	.63	.81	.96
	520	1100	9.3	31,800	2400	.60	.76	.91	8.8	30,000	2570	.61	.78	.93	8.3	28,300	2740	.63	.81	.96	7.7	26,400	2890	.65	.84	.98
71°F (21.7°C)	425	900	9.7	33,100	2440	.43	.56	.68	9.2	31,400	2630	.43	.57	.70	8.7	29,600	2800	.44	.58	.72	8.1	27,700	2960	.44	.59	.75
	470	1000	9.8	33,600	2460	.43	.57	.71	9.3	31,800	2640	.44	.58	.73	8.8	30,000	2820	.44	.60	.75	8.2	28,100	2980	.45	.61	.78
	520	1100	10.0	34,000	2470	.44	.59	.74	9.4	32,200	2660	.44	.60	.76	8.9	30,300	2830	.45	.62	.78	8.3	28,400	3000	.46	.63	.81

NOTE — All values are gross capacities and do not include indoor coil blower motor heat deduction.

HP29–311 / 10HPB30 — COOLING CAPACITY — 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		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	375	800	8.5	29,000	2320	.71	.85	.96	8.0	27,400	2480	.73	.87	.98	7.6	25,800	2640	.75	.89	1.00	7.1	24,200	2780	.77	.92	1.00
	425	900	8.7	29,700	2340	.74	.88	.99	8.2	28,000	2510	.76	.90	1.00	7.7	26,400	2670	.78	.93	1.00	7.2	24,700	2810	.80	.96	1.00
	470	1000	8.9	30,200	2360	.76	.91	1.00	8.4	28,600	2530	.78	.93	1.00	7.9	26,900	2690	.81	.96	1.00	7.4	25,300	2840	.83	.99	1.00
67°F (19.4°C)	375	800	9.1	31,100	2390	.56	.69	.81	8.6	29,400	2560	.57	.70	.83	8.1	27,700	2730	.58	.72	.86	7.6	25,900	2880	.59	.74	.89
	425	900	9.3	31,700	2410	.57	.71	.84	8.8	30,000	2580	.58	.73	.87	8.3	28,200	2750	.60	.75	.89	7.7	26,300	2910	.61	.78	.92
	470	1000	9.4	32,200	2430	.59	.74	.88	8.9	30,400	2600	.60	.76	.90	8.4	28,600	2770	.61	.78	.93	7.8	26,700	2930	.63	.81	.96
71°F (21.7°C)	375	800	9.8	33,400	2460	.42	.54	.66	9.3	31,600	2650	.43	.55	.67	8.7	29,800	2820	.43	.56	.69	8.2	27,900	2990	.43	.57	.72
	425	900	10.0	34,000	2480	.43	.56	.68	9.4	32,200	2670	.43	.57	.70	8.9	30,300	2850	.44	.58	.72	8.3	28,400	3020	.44	.59	.75
	470	1000	10.1	34,500	2500	.43	.57	.71	9.6	32,700	2690	.44	.58	.73	9.0	30,700	2870	.44	.60	.75	8.4	28,700	3040	.45	.61	.78

NOTE — All values are gross capacities and do not include indoor coil blower motor heat deduction.

HP29–311 / 10HPB30 — HEATING CAPACITY — CB29M–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 (-28°C)		
		Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input
L/s	cfm	kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh	
425	900	9.3	31,600	2260	6.9	23,700	1970	4.5	15,400	1660	3.2	10,800	1455	1.6	5,400	1085
470	1000	9.4	32,000	2240	7.1	24,100	1950	4.6	15,800	1640	3.3	11,200	1435	1.7	5,800	1065
520	1100	9.5	32,300	2220	7.2	24,400	1930	4.7	16,100	1620	3.4	11,500	1415	1.8	6,100	1045

NOTE — Heating capacities include the effect of defrost cycles in the temperature range where they occur.

HP29–311 / 10HPB30 — HEATING CAPACITY — 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 (-28°C)		
		Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input
L/s	cfm	kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh	
380	800	9.2	31,400	2315	6.9	23,500	2005	4.5	15,200	1670	3.0	10,300	1445	1.5	5,200	1085
425	900	9.3	31,900	2285	7.0	24,000	1975	4.6	15,700	1640	3.2	10,800	1415	1.7	5,700	1055
470	1000	9.4	32,200	2260	7.1	24,300	1950	4.7	16,000	1615	3.3	11,100	1390	1.8	6,000	1030

NOTE — Heating capacities include the effect of defrost cycles in the temperature range where they occur.

HP29–311 / 10HPB30 — HEATING PERFORMANCE CB29M–41 at 1000 cfm (470 L/s)

*Outdoor Temperature °F	°C	Compressor Motor Watts Input	Total Output Btuh	kW
65	18	2240	32,000	9.4
60	16	2175	30,200	8.9
55	13	2110	28,400	8.3
50	10	2045	26,700	7.8
47	8	2005	25,600	7.5
45	7	1950	24,100	7.1
40	4	1810	20,500	6.0
35	2	1670	16,900	5.0
30	-1	1655	16,400	4.8
25	-4	1640	15,800	4.6
20	-7	1625	15,300	4.5
17	-8	1615	15,000	4.4
15	-9	1590	14,300	4.2
10	-12	1525	12,500	3.7
5	-15	1435	11,200	3.3
0	-18	1340	9,900	2.9
-5	-21	1250	8,500	2.5
-10	-23	1155	7,200	2.1
-15	-26	1065	5,800	1.7
-20	-29	970	4,500	1.3

*Outdoor temperature 70% relative humidity. Indoor temperature 70°F (21°C).

HP29–311 / 10HPB30 — HEATING PERFORMANCE CB30M–21/26 at 900 cfm (425 L/s)

*Outdoor Temperature °F	°C	Compressor Motor Watts Input	Total Output Btuh	kW
65	18	2285	31,900	9.3
60	16	2215	30,100	8.8
55	13	2145	28,300	8.3
50	10	2075	26,500	7.8
47	8	2030	25,400	7.4
45	7	1975	24,000	7.0
40	4	1830	20,600	6.0
35	2	1690	17,200	5.0
30	-1	1665	16,500	4.8
25	-4	1640	15,700	4.6
20	-7	1620	15,000	4.4
17	-8	1605	14,600	4.3
15	-9	1575	13,900	4.1
10	-12	1505	12,100	3.5
5	-15	1415	10,800	3.2
0	-18	1325	9,500	2.8
-5	-21	1235	8,200	2.4
-10	-23	1145	6,900	2.0
-15	-26	1055	5,700	1.7
-20	-29	960	4,400	1.3

*Outdoor temperature 70% relative humidity. Indoor temperature 70°F (21°C).

RATINGS

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

HP29–311 / 10HPB30 — COOLING CAPACITY — CB30M–31

Entering Wet Bulb Temperature	Total Air Volume L/s	Total Air Volume cfm	85°F (29°C) Total Cooling Capacity kW	85°F (29°C) Total Cooling Capacity Btuh	85°F (29°C) Compressor Motor Watts Input	85°F (29°C) S/T Dry Bulb 75°F 24°C	85°F (29°C) S/T Dry Bulb 80°F 27°C	85°F (29°C) S/T Dry Bulb 85°F 29°C	95°F (35°C) Total Cooling Capacity kW	95°F (35°C) Total Cooling Capacity Btuh	95°F (35°C) Compressor Motor Watts Input	95°F (35°C) S/T Dry Bulb 75°F 24°C	95°F (35°C) S/T Dry Bulb 80°F 27°C	95°F (35°C) S/T Dry Bulb 85°F 29°C	105°F (41°C) Total Cooling Capacity kW	105°F (41°C) Total Cooling Capacity Btuh	105°F (41°C) Compressor Motor Watts Input	105°F (41°C) S/T Dry Bulb 75°F 24°C	105°F (41°C) S/T Dry Bulb 80°F 27°C	105°F (41°C) S/T Dry Bulb 85°F 29°C	115°F (46°C) Total Cooling Capacity kW	115°F (46°C) Total Cooling Capacity Btuh	115°F (46°C) Compressor Motor Watts Input	115°F (46°C) S/T Dry Bulb 75°F 24°C	115°F (46°C) S/T Dry Bulb 80°F 27°C	115°F (46°C) S/T Dry Bulb 85°F 29°C
63°F (17.2°C)	400	850	8.6	29,500	2340	.72	.86	.98	8.2	27,900	2510	.74	.88	1.00	7.7	26,200	2670	.76	.91	1.00	7.2	24,500	2820	.78	.94	1.00
	470	1000	8.9	30,500	2380	.76	.91	1.00	8.4	28,800	2550	.78	.93	1.00	7.9	27,100	2710	.80	.96	1.00	7.4	25,400	2860	.83	.99	1.00
	540	1150	9.2	31,300	2400	.80	.95	1.00	8.7	29,600	2580	.82	.97	1.00	8.2	27,900	2750	.84	.99	1.00	7.7	26,300	2920	.87	1.00	1.00
67°F (19.4°C)	400	850	9.3	31,700	2420	.57	.70	.82	8.8	29,900	2590	.57	.71	.85	8.2	28,100	2760	.59	.73	.87	7.7	26,300	2920	.60	.76	.90
	470	1000	9.5	32,500	2440	.59	.73	.87	9.0	30,700	2620	.60	.75	.90	8.4	28,800	2790	.61	.78	.93	7.9	26,900	2950	.63	.80	.96
	540	1150	9.7	33,200	2460	.61	.77	.92	9.2	31,300	2650	.62	.79	.94	8.6	29,400	2820	.64	.82	.97	8.0	27,400	2980	.66	.85	1.00
71°F (21.7°C)	400	850	10.0	34,000	2490	.42	.55	.67	9.4	32,200	2680	.43	.56	.68	8.9	30,300	2860	.43	.57	.70	8.3	28,300	3030	.44	.58	.73
	470	1000	10.2	34,900	2520	.43	.57	.71	9.7	33,000	2710	.44	.58	.73	9.1	31,000	2900	.44	.60	.75	8.5	29,000	3070	.45	.61	.78
	540	1150	10.4	35,600	2540	.44	.59	.74	9.8	33,600	2740	.44	.61	.77	9.2	31,500	2920	.45	.62	.79	8.6	29,400	3090	.46	.64	.82

Outdoor Air Temperature Entering Outdoor Coil. S/T = Sensible To Total Ratio (S/T).

NOTE — All values are gross capacities and do not include indoor coil blower motor heat deduction.

HP29-311 / 10HPB30 — COOLING CAPACITY — C26-26(W)(FC) — CH23-31

Entering Wet Bulb Temperature	Total Air Volume L/s	Total Air Volume cfm	85°F (29°C) Total Cooling Capacity kW	85°F (29°C) Total Cooling Capacity Btuh	85°F (29°C) Compressor Motor Watts Input	85°F (29°C) S/T Dry Bulb 75°F 24°C	85°F (29°C) S/T Dry Bulb 80°F 27°C	85°F (29°C) S/T Dry Bulb 85°F 29°C	95°F (35°C) Total Cooling Capacity kW	95°F (35°C) Total Cooling Capacity Btuh	95°F (35°C) Compressor Motor Watts Input	95°F (35°C) S/T Dry Bulb 75°F 24°C	95°F (35°C) S/T Dry Bulb 80°F 27°C	95°F (35°C) S/T Dry Bulb 85°F 29°C	105°F (41°C) Total Cooling Capacity kW	105°F (41°C) Total Cooling Capacity Btuh	105°F (41°C) Compressor Motor Watts Input	105°F (41°C) S/T Dry Bulb 75°F 24°C	105°F (41°C) S/T Dry Bulb 80°F 27°C	105°F (41°C) S/T Dry Bulb 85°F 29°C	115°F (46°C) Total Cooling Capacity kW	115°F (46°C) Total Cooling Capacity Btuh	115°F (46°C) Compressor Motor Watts Input	115°F (46°C) S/T Dry Bulb 75°F 24°C	115°F (46°C) S/T Dry Bulb 80°F 27°C	115°F (46°C) S/T Dry Bulb 85°F 29°C
63°F (17.2°C)	400	850	8.4	28,600	2280	.73	.87	.98	7.9	27,100	2430	.75	.89	1.00	7.5	25,500	2590	.77	.92	1.00	7.0	24,000	2730	.79	.94	1.00
	470	1000	8.6	29,500	2300	.77	.92	1.00	8.2	27,900	2470	.79	.94	1.00	7.7	26,300	2620	.81	.96	1.00	7.3	24,800	2770	.84	.99	1.00
	540	1150	8.9	30,200	2330	.80	.96	1.00	8.4	28,600	2490	.83	.98	1.00	7.9	27,100	2660	.85	.99	1.00	7.5	25,500	2820	.88	1.00	1.00
67°F (19.4°C)	400	850	9.0	30,600	2340	.57	.70	.83	8.5	28,900	2510	.58	.72	.86	8.0	27,200	2660	.59	.74	.88	7.5	25,500	2810	.61	.77	.91
	470	1000	9.2	31,300	2360	.59	.74	.88	8.7	29,600	2530	.60	.76	.91	8.2	27,900	2690	.62	.79	.93	7.6	26,100	2850	.63	.81	.96
	540	1150	9.3	31,900	2380	.61	.78	.93	8.8	30,100	2550	.63	.80	.95	8.3	28,400	2720	.64	.83	.97	7.8	26,500	2870	.66	.86	.99
71°F (21.7°C)	400	850	9.6	32,800	2410	.43	.55	.68	9.1	31,000	2590	.43	.56	.69	8.6	29,300	2760	.43	.57	.71	8.0	27,400	2920	.44	.59	.74
	470	1000	9.8	33,500	2430	.43	.58	.72	9.3	31,700	2610	.44	.59	.74	8.8	29,900	2780	.44	.60	.76	8.2	28,000	2950	.45	.62	.79
	540	1150	10.0	34,100	2450	.44	.60	.76	9.4	32,200	2630	.45	.61	.78	8.9	30,300	2810	.45	.63	.80	8.3	28,400	2970	.46	.65	.83

Outdoor Air Temperature Entering Outdoor Coil. S/T = Sensible To Total Ratio (S/T).

NOTE — All values are gross capacities and do not include indoor coil blower motor heat deduction.

HP29–311 / 10HPB30 — HEATING CAPACITY — CB30M–31

Indoor Coil Air Volume 70°F db (21°C db) L/s	cfm	65°F (18°C) Total Heating Capacity kW	65°F (18°C) Total Heating Capacity Btuh	65°F (18°C) Comp. Motor Watts Input	45°F (7°C) Total Heating Capacity kW	45°F (7°C) Total Heating Capacity Btuh	45°F (7°C) Comp. Motor Watts Input	25°F (-4°C) Total Heating Capacity kW	25°F (-4°C) Total Heating Capacity Btuh	25°F (-4°C) Comp. Motor Watts Input	5°F (-15°C) Total Heating Capacity kW	5°F (-15°C) Total Heating Capacity Btuh	5°F (-15°C) Comp. Motor Watts Input	-15°F (-28°C) Total Heating Capacity kW	-15°F (-28°C) Total Heating Capacity Btuh	-15°F (-28°C) Comp. Motor Watts Input
380	800	9.2	31,400	2315	6.9	23,500	2005	4.5	15,200	1670	3.0	10,300	1445	1.5	5,200	1085
425	900	9.3	31,900	2285	7.0	24,000	1975	4.6	15,700	1640	3.2	10,800	1415	1.7	5,700	1055
470	1000	9.4	32,200	2260	7.1	24,300	1950	4.7	16,000	1615	3.3	11,100	1390	1.8	6,000	1030

Air Temperature Entering Outdoor Coil.

NOTE — Heating capacities include the effect of defrost cycles in the temperature range where they occur.

HP29-311 / 10HPB30 — HEATING CAPACITY — C26-26(W)(FC) — CH23-31

Indoor Coil Air Volume 70°F db (21°C db) L/s	cfm	65°F (18°C) Total Heating Capacity kW	65°F (18°C) Total Heating Capacity Btuh	65°F (18°C) Comp. Motor Watts Input	45°F (7°C) Total Heating Capacity kW	45°F (7°C) Total Heating Capacity Btuh	45°F (7°C) Comp. Motor Watts Input	25°F (-4°C) Total Heating Capacity kW	25°F (-4°C) Total Heating Capacity Btuh	25°F (-4°C) Comp. Motor Watts Input	5°F (-15°C) Total Heating Capacity kW	5°F (-15°C) Total Heating Capacity Btuh	5°F (-15°C) Comp. Motor Watts Input	-15°F (-28°C) Total Heating Capacity kW	-15°F (-28°C) Total Heating Capacity Btuh	-15°F (-28°C) Comp. Motor Watts Input
400	850	8.9	30,400	2240	6.5	22,200	1925	4.0	13,600	1605	2.7	9300	1325	1.1	3600	995
470	1000	9.6	32,600	2250	7.2	24,500	1935	4.7	15,900	1615	3.4	11,600	1335	1.7	5900	1005
540	1150	10.2	34,700	2260	7.8	26,500	1950	5.2	17,900	1625	4.0	13,600	1345	2.3	7900	1015

Air Temperature Entering Outdoor Coil.

NOTE — Heating capacities include the effect of defrost cycles in the temperature range where they occur.

HP29–311 / 10HPB30 — HEATING PERFORMANCE CB30M–31 at 900 cfm (425 L/s)

*Outdoor Temperature °F	*Outdoor Temperature °C	Compressor Motor Watts Input	Total Output Btuh	Total Output kW
65	18	2285	31,900	9.3
60	16	2215	30,100	8.8
55	13	2145	28,300	8.3
50	10	2075	26,500	7.8
47	8	2030	25,400	7.4
45	7	1975	24,000	7.0
40	4	1830	20,600	6.0
35	2	1690	17,200	5.0
30	-1	1665	16,500	4.8
25	-4	1640	15,700	4.6
20	-7	1620	15,000	4.4
17	-8	1605	14,600	4.3
15	-9	1575	13,900	4.1
10	-12	1505	12,100	3.5
5	-15	1415	10,800	3.2
0	-18	1325	9,500	2.8
-5	-21	1235	8,200	2.4
-10	-23	1145	6,900	2.0
-15	-26	1055	5,700	1.7
-20	-29	960	4,400	1.3

*Outdoor temperature 70% relative humidity. Indoor temperature 70°F(21°C).

HP29-311 / 10HPB30 — HEATING PERFORMANCE C26-26(W)(FC) — CH23–31 at 1000 cfm (470 L/s)

*Outdoor Temperature °F	*Outdoor Temperature °C	Compressor Motor Watts Input	Total Output Btuh	Total Output kW
65	18	2250	32,600	9.6
60	16	2175	30,800	9.0
55	13	2100	28,900	8.5
50	10	2025	27,100	7.9
47	8	1980	26,000	7.6
45	7	1935	24,500	7.2
40	4	1825	20,800	6.1
35	2	1715	17,000	5.0
30	-1	1665	16,400	4.8
25	-4	1615	15,900	4.7
20	-7	1565	15,300	4.5
17	-8	1535	14,900	4.4
15	-9	1500	14,400	4.2
10	-12	1420	13,000	3.8
5	-15	1335	11,600	3.4
0	-18	1255	10,100	3.0
-5	-21	1170	8700	2.5
-10	-23	1085	7300	2.1
-15	-26	1005	5900	1.7
-20	-29	920	4500	1.3

*Outdoor temperature 70% relative humidity. Indoor temperature 70°F(21°C).

RATINGS

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

HP29-311 / 10HPB30 — COOLING CAPACITY — CR26-31

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		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	400	850	8.7	29,600	2300	.73	.87	.98	8.2	28,000	2460	.75	.89	1.00	7.7	26,400	2620	.77	.91	1.00	7.2	24,700	2760	.79	.94	1.00
	470	1000	8.9	30,500	2330	.77	.91	1.00	8.5	28,900	2500	.79	.94	1.00	8.0	27,200	2650	.81	.96	1.00	7.5	25,600	2810	.84	.99	1.00
	540	1150	9.2	31,300	2350	.80	.95	1.00	8.7	29,600	2520	.82	.98	1.00	8.2	28,000	2690	.85	.99	1.00	7.7	26,400	2850	.88	1.00	1.00
67°F (19.4°C)	400	850	9.3	31,600	2370	.57	.70	.83	8.8	29,900	2540	.58	.72	.85	8.3	28,200	2700	.59	.74	.88	7.7	26,400	2850	.60	.76	.91
	470	1000	9.5	32,500	2390	.59	.74	.88	9.0	30,700	2560	.60	.76	.90	8.4	28,800	2730	.62	.78	.93	7.9	27,000	2880	.63	.81	.96
	540	1150	9.7	33,100	2410	.61	.78	.92	9.1	31,200	2590	.63	.80	.95	8.6	29,400	2750	.64	.83	.97	8.1	27,500	2910	.66	.86	.99
71°F (21.7°C)	400	850	10.0	34,000	2440	.43	.55	.67	9.4	32,200	2620	.43	.56	.69	8.9	30,300	2790	.43	.57	.71	8.3	28,400	2960	.44	.59	.74
	470	1000	10.2	34,800	2460	.43	.57	.71	9.6	32,900	2650	.44	.59	.73	9.1	31,000	2820	.44	.60	.76	8.5	29,000	2990	.45	.62	.78
	540	1150	10.4	35,400	2480	.44	.60	.75	9.8	33,400	2670	.45	.61	.77	9.2	31,400	2850	.45	.63	.80	8.6	29,400	3010	.46	.65	.83

NOTE — All values are gross capacities and do not include indoor coil blower motor heat deduction.

HP29–411–413 / 10HPB36 — COOLING CAPACITY — CB29M–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		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	450	950	9.6	32,600	2670	.71	.84	.95	9.1	31,000	2850	.72	.86	.97	8.6	29,300	3020	.74	.88	.99	8.1	27,500	3180	.76	.91	1.00
	495	1050	9.7	33,200	2690	.73	.86	.97	9.2	31,500	2870	.74	.88	.99	8.7	29,800	3050	.76	.91	1.00	8.2	27,900	3210	.78	.93	1.00
	540	1150	9.9	33,700	2710	.74	.89	.99	9.4	32,000	2890	.76	.91	1.00	8.9	30,200	3070	.78	.93	1.00	8.3	28,400	3240	.81	.96	1.00
67°F (19.4°C)	450	950	10.2	34,800	2750	.56	.68	.80	9.7	33,100	2940	.56	.69	.82	9.2	31,300	3120	.57	.71	.84	8.6	29,300	3300	.59	.73	.87
	495	1050	10.3	35,300	2760	.57	.70	.83	9.8	33,600	2960	.58	.72	.85	9.3	31,700	3150	.59	.73	.87	8.7	29,700	3330	.60	.76	.90
	540	1150	10.5	35,800	2780	.58	.72	.85	10.0	34,000	2980	.59	.74	.88	9.4	32,100	3170	.60	.76	.90	8.8	30,000	3350	.61	.78	.93
71°F (21.7°C)	450	950	10.9	37,200	2820	.42	.54	.65	10.4	35,400	3030	.42	.55	.67	9.8	33,500	3240	.43	.56	.68	9.2	31,400	3430	.43	.57	.71
	495	1050	11.0	37,700	2840	.43	.55	.67	10.5	35,900	3050	.43	.56	.69	9.9	33,900	3260	.43	.57	.71	9.3	31,800	3460	.44	.58	.73
	540	1150	11.2	38,100	2850	.43	.56	.69	10.6	36,300	3070	.43	.57	.71	10.1	34,300	3280	.44	.58	.73	9.4	32,200	3480	.44	.60	.76

NOTE — All values are gross capacities and do not include indoor coil blower motor heat deduction.

HP29-311 / 10HPB30 — HEATING CAPACITY — CR26-31

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 (-28°C)		
		Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input
L/s	cfm	kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh	
400	850	9.1	31,200	2230	6.8	23,100	1920	4.2	14,400	1605	3.0	10,100	1325	1.3	4500	995
470	1000	9.6	32,600	2240	7.2	24,500	1930	4.7	15,900	1610	3.4	11,600	1335	1.7	5900	1005
540	1150	10.0	34,100	2245	7.6	26,000	1940	5.1	17,300	1620	3.8	13,000	1345	2.2	7400	1010

NOTE — Heating capacities include the effect of defrost cycles in the temperature range where they occur.

HP29–411-413 / 10HPB36 — HEATING CAPACITY — CB29M–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 (-28°C)		
		Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input
L/s	cfm	kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh	
450	950	11.5	39,400	3025	8.7	29,700	2590	5.7	19,400	2145	4.0	13,500	1795	2.0	6,800	1350
495	1050	11.7	39,900	3000	8.9	30,200	2565	5.8	19,900	2120	4.1	14,000	1770	2.1	7,300	1325
545	1150	11.8	40,300	2975	9.0	30,600	2540	5.9	20,300	2095	4.2	14,400	1745	2.3	7,700	1300

NOTE — Heating capacities include the effect of defrost cycles in the temperature range where they occur.

HP29-311 / 10HPB30 — HEATING PERFORMANCE CR26-31 at 1000 cfm (470 L/s)

*Outdoor Temperature °F	°C	Compressor Motor Watts Input	Total Output Btuh	kW
65	18	2240	32,600	9.6
60	16	2165	30,800	9.0
55	13	2090	28,900	8.5
50	10	2020	27,100	7.9
47	8	1975	26,000	7.6
45	7	1930	24,500	7.2
40	4	1820	20,800	6.1
35	2	1710	17,100	5.0
30	-1	1660	16,500	4.8
25	-4	1610	15,900	4.7
20	-7	1565	15,300	4.5
17	-8	1535	15,000	4.4
15	-9	1500	14,400	4.2
10	-12	1420	13,000	3.8
5	-15	1335	11,600	3.4
0	-18	1250	10,100	3.0
-5	-21	1170	8700	2.5
-10	-23	1085	7300	2.1
-15	-26	1005	5900	1.7
-20	-29	920	4500	1.3

*Outdoor temperature 70% relative humidity. Indoor temperature 70°F (21°C).

HP29–411-413 / 10HPB36 — HEATING PERFORMANCE CB29M–31 at 1050 cfm (495 L/s)

*Outdoor Temperature °F	°C	Compressor Motor Watts Input	Total Output Btuh	kW
65	18	3000	39,900	11.7
60	16	2895	37,700	11.0
55	13	2795	35,500	10.4
50	10	2695	33,300	9.8
47	8	2635	32,000	9.4
45	7	2565	30,200	8.9
40	4	2400	25,700	7.5
35	2	2235	21,200	6.2
30	-1	2180	20,500	6.0
25	-4	2120	19,900	5.8
20	-7	2060	19,200	5.6
17	-8	2025	18,800	5.5
15	-9	1980	17,900	5.2
10	-12	1880	15,700	4.6
5	-15	1770	14,000	4.1
0	-18	1660	12,400	3.6
-5	-21	1545	10,700	3.1
-10	-23	1435	9,000	2.6
-15	-26	1325	7,300	2.1
-20	-29	1215	5,600	1.6

*Outdoor temperature 70% relative humidity. Indoor temperature 70°F (21°C).

RATINGS

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

HP29–411–413 / 10HPB36 — COOLING CAPACITY — CB29M–41

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil: 85°F (29°C) Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			95°F (35°C) Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			105°F (41°C) Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			115°F (46°C) Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	470	1000	9.8	33,600	2710	.71	.84	.96	9.3	31,900	2890	.73	.86	.98	8.8	30,100	3070	.74	.89	.99	8.3	28,200	3250	.77	.92	1.00
	565	1200	10.2	34,700	2740	.75	.89	.99	9.7	33,000	2940	.77	.91	1.00	9.1	31,100	3130	.79	.94	1.00	8.6	29,200	3310	.81	.97	1.00
	660	1400	10.4	35,600	2770	.79	.94	1.00	9.9	33,800	2980	.81	.96	1.00	9.4	32,000	3170	.83	.98	1.00	8.8	30,100	3360	.86	1.00	1.00
67°F (19.4°C)	470	1000	10.5	35,900	2780	.56	.69	.81	10.0	34,100	2990	.57	.70	.83	9.4	32,200	3180	.58	.72	.85	8.8	30,100	3360	.59	.74	.88
	565	1200	10.8	36,900	2810	.58	.72	.86	10.3	35,000	3020	.59	.74	.88	9.7	33,000	3220	.60	.76	.91	9.0	30,800	3410	.62	.79	.94
	660	1400	11.0	37,600	2830	.60	.76	.91	10.5	35,700	3050	.61	.78	.93	9.8	33,600	3260	.63	.81	.95	9.2	31,400	3450	.65	.84	.98
71°F (21.7°C)	470	1000	11.3	38,400	2860	.42	.54	.66	10.7	36,500	3080	.43	.55	.67	10.1	34,500	3300	.43	.56	.69	9.5	32,300	3500	.43	.57	.71
	565	1200	11.5	39,300	2880	.43	.56	.70	11.0	37,400	3110	.43	.58	.72	10.3	35,300	3340	.44	.59	.74	9.7	33,000	3550	.44	.60	.76
	660	1400	11.7	40,000	2900	.44	.59	.74	11.1	38,000	3140	.44	.60	.76	10.5	35,900	3370	.45	.62	.78	9.8	33,500	3580	.46	.64	.81

NOTE — All values are gross capacities and do not include indoor coil blower motor heat deduction.

HP29–411–413 / 10HPB36 — COOLING CAPACITY — CB29M–46

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil: 85°F (29°C) Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			95°F (35°C) Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			105°F (41°C) Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			115°F (46°C) Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	470	1000	10.3	35,000	2770	.71	.84	.95	9.7	33,100	2970	.72	.86	.97	9.1	31,200	3160	.74	.88	.99	8.6	29,200	3340	.76	.91	1.00
	565	1200	10.6	36,200	2810	.75	.89	1.00	10.1	34,300	3020	.76	.91	1.00	9.5	32,300	3220	.79	.94	1.00	8.9	30,200	3410	.81	.97	1.00
	660	1400	10.9	37,100	2840	.78	.93	1.00	10.3	35,200	3060	.80	.96	1.00	9.7	33,200	3270	.83	.98	1.00	9.1	31,200	3470	.86	1.00	1.00
67°F (19.4°C)	470	1000	11.0	37,400	2850	.56	.68	.80	10.4	35,500	3070	.57	.70	.82	9.8	33,400	3280	.58	.71	.85	9.1	31,200	3470	.59	.74	.88
	565	1200	11.3	38,500	2880	.58	.72	.86	10.7	36,500	3110	.59	.74	.88	10.1	34,300	3320	.60	.76	.91	9.4	32,000	3520	.62	.79	.94
	660	1400	11.5	39,300	2900	.60	.76	.90	10.9	37,200	3140	.61	.78	.93	10.2	34,900	3360	.63	.80	.96	9.6	32,600	3560	.65	.83	.98
71°F (21.7°C)	470	1000	11.7	40,000	2920	.42	.54	.66	11.1	38,000	3160	.43	.55	.67	10.5	35,800	3400	.43	.56	.69	9.8	33,500	3610	.43	.57	.71
	565	1200	12.0	41,000	2950	.43	.56	.69	11.4	38,900	3200	.43	.57	.71	10.8	36,700	3440	.44	.59	.73	10.0	34,200	3660	.44	.60	.76
	660	1400	12.3	41,800	2970	.44	.59	.74	11.6	39,600	3220	.44	.60	.76	10.9	37,300	3470	.45	.62	.78	10.2	34,800	3700	.46	.64	.81

NOTE — All values are gross capacities and do not include indoor coil blower motor heat deduction.

HP29–411-413 / 10HPB36 — HEATING CAPACITY — CB29M–41

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil: 65°F (18°C) Total Heating Capacity		Comp. Motor Watts Input	45°F (7°C) Total Heating Capacity		Comp. Motor Watts Input	25°F (-4°C) Total Heating Capacity		Comp. Motor Watts Input	5°F (-15°C) Total Heating Capacity		Comp. Motor Watts Input	-15°F (-28°C) Total Heating Capacity		Comp. Motor Watts Input
L/s	cfm	kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh	
470	1000	11.8	40,400	2925	8.9	30,300	2555	5.8	19,700	2170	4.0	13,700	1875	1.9	6,600	1405
565	1200	12.1	41,400	2875	9.2	31,300	2505	6.1	20,700	2120	4.3	14,700	1825	2.2	7,600	1355
660	1400	12.4	42,200	2840	9.4	32,100	2470	6.3	21,500	2085	4.5	15,500	1790	2.5	8,400	1320

NOTE — Heating capacities include the effect of defrost cycles in the temperature range where they occur.

HP29–411-413 / 10HPB36 — HEATING CAPACITY — CB29M–46

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil: 65°F (18°C) Total Heating Capacity		Comp. Motor Watts Input	45°F (7°C) Total Heating Capacity		Comp. Motor Watts Input	25°F (-4°C) Total Heating Capacity		Comp. Motor Watts Input	5°F (-15°C) Total Heating Capacity		Comp. Motor Watts Input	-15°F (-28°C) Total Heating Capacity		Comp. Motor Watts Input
L/s	cfm	kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh	
470	1000	12.0	40,800	3000	8.9	30,500	2595	5.7	19,600	2170	3.9	13,400	1865	1.9	6,500	1405
565	1200	12.3	41,800	2950	9.2	31,500	2545	6.0	20,600	2120	4.2	14,400	1815	2.2	7,500	1355
660	1400	12.5	42,600	2915	9.5	32,300	2510	6.3	21,400	2085	4.5	15,200	1780	2.4	8,300	1320

NOTE — Heating capacities include the effect of defrost cycles in the temperature range where they occur.

HP29–411-413 / 10HPB36 — HEATING PERFORMANCE CB29M–41 at 1200 cfm (565 L/s)

*Outdoor Temperature °F	°C	Compressor Motor Watts Input	Total Output Btuh	kW
65	18	2875	41,400	12.1
60	16	2790	39,100	11.5
55	13	2705	36,800	10.8
50	10	2620	34,600	10.1
47	8	2570	33,200	9.7
45	7	2505	31,300	9.2
40	4	2350	26,700	7.8
35	2	2195	22,000	6.4
30	-1	2155	21,300	6.2
25	-4	2120	20,700	6.1
20	-7	2080	20,000	5.9
17	-8	2060	19,600	5.7
15	-9	2025	18,700	5.5
10	-12	1940	16,400	4.8
5	-15	1825	14,700	4.3
0	-18	1705	12,900	3.8
-5	-21	1590	11,200	3.3
-10	-23	1470	9,400	2.8
-15	-26	1355	7,600	2.2
-20	-29	1235	5,900	1.7

*Outdoor temperature 70% relative humidity. Indoor temperature 70°F(21°C).

HP29–411-413 / 10HPB36 — HEATING PERFORMANCE CB29M–46 at 1200 cfm (565 L/s)

*Outdoor Temperature °F	°C	Compressor Motor Watts Input	Total Output Btuh	kW
65	18	2950	41,800	12.3
60	16	2860	39,500	11.6
55	13	2765	37,100	10.9
50	10	2675	34,800	10.2
47	8	2615	33,400	9.8
45	7	2545	31,500	9.2
40	4	2375	26,800	7.9
35	2	2200	22,000	6.4
30	-1	2160	21,300	6.2
25	-4	2120	20,600	6.0
20	-7	2085	19,800	5.8
17	-8	2060	19,400	5.7
15	-9	2025	18,500	5.4
10	-12	1935	16,100	4.7
5	-15	1815	14,400	4.2
0	-18	1700	12,700	3.7
-5	-21	1585	11,000	3.2
-10	-23	1470	9,300	2.7
-15	-26	1355	7,500	2.2
-20	-29	1235	5,800	1.7

*Outdoor temperature 70% relative humidity. Indoor temperature 70°F(21°C).

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

HP29–411–413 / 10HPB36 — COOLING CAPACITY — CB30M–41

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil: 85°F (29°C) Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			95°F (35°C) Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			105°F (41°C) Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			115°F (46°C) Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	470	1000	10.1	34,500	2760	.71	.84	.95	9.6	32,700	2960	.72	.86	.97	9.0	30,800	3150	.74	.88	.99	8.4	28,800	3330	.76	.91	1.00
	565	1200	10.5	35,700	2790	.74	.89	1.00	9.9	33,800	3000	.76	.91	1.00	9.3	31,800	3210	.78	.94	1.00	8.7	29,800	3400	.81	.97	1.00
	660	1400	10.8	36,700	2820	.78	.93	1.00	10.2	34,700	3040	.80	.96	1.00	9.6	32,800	3250	.83	.98	1.00	9.0	30,700	3460	.86	1.00	1.00
67°F (19.4°C)	470	1000	10.8	36,900	2830	.56	.68	.80	10.3	35,000	3050	.56	.69	.82	9.6	32,900	3260	.57	.71	.85	9.0	30,800	3460	.59	.73	.88
	565	1200	11.1	38,000	2860	.58	.72	.85	10.6	36,000	3090	.59	.74	.88	9.9	33,800	3310	.60	.76	.91	9.3	31,600	3510	.62	.79	.94
	660	1400	11.4	38,800	2880	.60	.76	.90	10.8	36,700	3120	.61	.78	.93	10.1	34,500	3340	.63	.80	.96	9.4	32,200	3550	.65	.83	.98
71°F (21.7°C)	470	1000	11.6	39,500	2900	.42	.54	.65	11.0	37,500	3150	.43	.55	.67	10.3	35,300	3380	.43	.56	.69	9.7	33,000	3600	.43	.57	.71
	565	1200	11.9	40,600	2930	.43	.56	.69	11.3	38,500	3180	.43	.57	.71	10.6	36,200	3420	.44	.59	.73	9.9	33,800	3650	.44	.60	.76
	660	1400	12.1	41,400	2950	.44	.59	.73	11.5	39,200	3210	.44	.60	.76	10.8	36,800	3460	.45	.62	.78	10.1	34,300	3690	.46	.63	.81

NOTE — All values are gross capacities and do not include indoor coil blower motor heat deduction.

HP29–411–413 / 10HPB36 — COOLING CAPACITY — CB30M–46

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil: 85°F (29°C) Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			95°F (35°C) Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			105°F (41°C) Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			115°F (46°C) Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	470	1000	10.1	34,300	2760	.71	.84	.95	9.5	32,500	2960	.72	.86	.97	9.0	30,600	3150	.74	.88	.99	8.4	28,600	3330	.76	.91	1.00
	565	1200	10.4	35,500	2800	.74	.89	1.00	9.8	33,600	3010	.76	.91	1.00	9.3	31,700	3210	.78	.94	1.00	8.7	29,600	3400	.81	.97	1.00
	660	1400	10.7	36,500	2820	.78	.93	1.00	10.1	34,500	3040	.80	.96	1.00	9.6	32,600	3260	.83	.98	1.00	9.0	30,600	3460	.86	1.00	1.00
67°F (19.4°C)	470	1000	10.8	36,700	2830	.56	.68	.80	10.2	34,800	3050	.56	.69	.82	9.6	32,800	3270	.57	.71	.85	9.0	30,600	3460	.59	.73	.88
	565	1200	11.1	37,800	2860	.58	.72	.85	10.5	35,800	3090	.59	.74	.88	9.8	33,600	3310	.60	.76	.91	9.2	31,400	3520	.62	.79	.94
	660	1400	11.3	38,600	2890	.60	.76	.90	10.7	36,500	3120	.61	.78	.93	10.1	34,300	3350	.63	.80	.96	9.4	32,000	3560	.65	.83	.98
71°F (21.7°C)	470	1000	11.5	39,300	2910	.42	.54	.65	10.9	37,300	3150	.43	.55	.67	10.3	35,100	3390	.43	.56	.69	9.6	32,800	3610	.43	.57	.71
	565	1200	11.8	40,300	2930	.43	.56	.69	11.2	38,300	3190	.43	.57	.71	10.6	36,000	3430	.44	.59	.73	9.8	33,600	3650	.44	.60	.76
	660	1400	12.0	41,100	2950	.44	.59	.73	11.4	38,900	3210	.44	.60	.76	10.7	36,600	3460	.45	.62	.78	10.0	34,100	3690	.46	.63	.81

NOTE — All values are gross capacities and do not include indoor coil blower motor heat deduction.

HP29–411-413 / 10HPB36 — HEATING CAPACITY — CB30M–41

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil: 65°F (18°C) Total Heating Capacity		Comp. Motor Watts Input	45°F (7°C) Total Heating Capacity		Comp. Motor Watts Input	25°F (-4°C) Total Heating Capacity		Comp. Motor Watts Input	5°F (-15°C) Total Heating Capacity		Comp. Motor Watts Input	-15°F (-28°C) Total Heating Capacity		Comp. Motor Watts Input
L/s	cfm	kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh	
470	1000	10.8	36,800	2520	8.2	27,900	2250	5.4	18,400	1995	3.8	13,100	1625	1.8	6,300	1220
565	1200	11.1	37,800	2470	8.5	28,900	2200	5.7	19,400	1945	4.1	14,100	1575	2.1	7,300	1170
660	1400	11.2	38,300	2430	8.6	29,400	2160	5.8	19,900	1905	4.3	14,600	1535	2.3	7,800	1130

NOTE — Heating capacities include the effect of defrost cycles in the temperature range where they occur.

HP29–411-413 / 10HPB36 — HEATING CAPACITY — CB30M–46

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil: 65°F (18°C) Total Heating Capacity		Comp. Motor Watts Input	45°F (7°C) Total Heating Capacity		Comp. Motor Watts Input	25°F (-4°C) Total Heating Capacity		Comp. Motor Watts Input	5°F (-15°C) Total Heating Capacity		Comp. Motor Watts Input	-15°F (-28°C) Total Heating Capacity		Comp. Motor Watts Input
L/s	cfm	kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh	
470	1000	10.8	36,900	2560	8.2	28,000	2285	5.4	18,500	2015	3.9	13,200	1665	1.9	6,400	1245
565	1200	11.1	37,800	2510	8.5	28,900	2235	5.7	19,400	1965	4.1	14,100	1615	2.1	7,300	1195
660	1400	11.3	38,500	2470	8.7	29,600	2195	5.9	20,100	1925	4.3	14,800	1575	2.3	8,000	1155

NOTE — Heating capacities include the effect of defrost cycles in the temperature range where they occur.

HP29–411–413 / 10HPB36 — HEATING PERFORMANCE CB30M–41 at 1200 cfm (565 L/s)

*Outdoor Temperature °F	°C	Compressor Motor Watts Input	Total Output Btuh	kW
65	18	2470	37,800	11.1
60	16	2400	35,800	10.5
55	13	2325	33,800	9.9
50	10	2255	31,800	9.3
47	8	2210	30,600	9.0
45	7	2200	28,900	8.5
40	4	2180	24,700	7.2
35	2	2155	20,500	6.0
30	-1	2050	19,900	5.8
25	-4	1945	19,400	5.7
20	-7	1840	18,900	5.5
17	-8	1780	18,600	5.5
15	-9	1750	17,800	5.2
10	-12	1680	15,800	4.6
5	-15	1575	14,100	4.1
0	-18	1475	12,400	3.6
-5	-21	1375	10,700	3.1
-10	-23	1270	9,000	2.6
-15	-26	1170	7,300	2.1
-20	-29	1065	5,600	1.6

*Outdoor temperature 70% relative humidity. Indoor temperature 70°F (21°C).

HP29–411–413 / 10HPB36 — HEATING PERFORMANCE CB30M–46 at 1200 cfm (565 L/s)

*Outdoor Temperature °F	°C	Compressor Motor Watts Input	Total Output Btuh	kW
65	18	2510	37,800	11.1
60	16	2440	35,800	10.5
55	13	2365	33,800	9.9
50	10	2295	31,800	9.3
47	8	2250	30,600	9.0
45	7	2235	28,900	8.5
40	4	2195	24,700	7.2
35	2	2155	20,500	6.0
30	-1	2060	19,900	5.8
25	-4	1965	19,400	5.7
20	-7	1875	18,900	5.5
17	-8	1820	18,600	5.5
15	-9	1790	17,800	5.2
10	-12	1720	15,800	4.6
5	-15	1615	14,100	4.1
0	-18	1510	12,400	3.6
-5	-21	1405	10,700	3.1
-10	-23	1300	9,000	2.6
-15	-26	1195	7,300	2.1
-20	-29	1090	5,600	1.6

*Outdoor temperature 70% relative humidity. Indoor temperature 70°F (21°C).

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

HP29–411–413 ONLY — COOLING CAPACITY — CB31MV–41

Entering Wet Bulb Temperature	Total Air Volume L/s	Total Air Volume cfm	85°F (29°C) Total Cooling Capacity kW	85°F (29°C) Total Cooling Capacity Btuh	85°F (29°C) Compressor Motor Watts Input	85°F (29°C) S/T Dry Bulb 75°F 24°C	85°F (29°C) S/T Dry Bulb 80°F 27°C	85°F (29°C) S/T Dry Bulb 85°F 29°C	95°F (35°C) Total Cooling Capacity kW	95°F (35°C) Total Cooling Capacity Btuh	95°F (35°C) Compressor Motor Watts Input	95°F (35°C) S/T Dry Bulb 75°F 24°C	95°F (35°C) S/T Dry Bulb 80°F 27°C	95°F (35°C) S/T Dry Bulb 85°F 29°C	105°F (41°C) Total Cooling Capacity kW	105°F (41°C) Total Cooling Capacity Btuh	105°F (41°C) Compressor Motor Watts Input	105°F (41°C) S/T Dry Bulb 75°F 24°C	105°F (41°C) S/T Dry Bulb 80°F 27°C	105°F (41°C) S/T Dry Bulb 85°F 29°C	115°F (46°C) Total Cooling Capacity kW	115°F (46°C) Total Cooling Capacity Btuh	115°F (46°C) Compressor Motor Watts Input	115°F (46°C) S/T Dry Bulb 75°F 24°C	115°F (46°C) S/T Dry Bulb 80°F 27°C	115°F (46°C) S/T Dry Bulb 85°F 29°C
63°F (17.2°C)	535	1135	10.4	35,600	2780	.74	.87	.99	9.9	33,700	2980	.75	.90	1.00	9.3	31,700	3180	.77	.92	1.00	8.7	29,600	3370	.80	.95	1.00
	600	1275	10.6	36,200	2800	.76	.91	1.00	10.1	34,300	3010	.78	.93	1.00	9.5	32,300	3220	.80	.96	1.00	8.9	30,200	3410	.83	.98	1.00
	660	1400	10.8	36,800	2810	.78	.93	1.00	10.2	34,900	3030	.80	.96	1.00	9.6	32,900	3240	.83	.98	1.00	9.0	30,800	3450	.86	1.00	1.00
67°F (19.4°C)	535	1135	11.1	37,900	2850	.57	.71	.84	10.5	35,900	3070	.58	.73	.86	9.9	33,800	3290	.59	.75	.89	9.2	31,500	3490	.61	.77	.92
	600	1275	11.3	38,500	2860	.59	.73	.87	10.7	36,400	3090	.60	.75	.90	10.0	34,200	3310	.61	.78	.93	9.3	31,900	3520	.63	.80	.96
	660	1400	11.4	39,000	2870	.60	.76	.90	10.8	36,800	3110	.61	.78	.93	10.1	34,600	3330	.63	.80	.96	9.5	32,300	3540	.65	.83	.98
71°F (21.7°C)	535	1135	11.9	40,500	2920	.43	.56	.68	11.3	38,400	3170	.43	.57	.70	10.6	36,100	3410	.44	.58	.72	9.9	33,700	3630	.44	.59	.75
	600	1275	12.0	41,000	2930	.43	.57	.71	11.4	38,900	3180	.44	.58	.73	10.7	36,600	3430	.44	.60	.75	10.0	34,100	3650	.45	.61	.78
	660	1400	12.2	41,500	2940	.44	.59	.73	11.5	39,300	3200	.44	.60	.76	10.8	36,900	3450	.45	.62	.78	10.1	34,500	3670	.46	.63	.81

NOTE — All values are gross capacities and do not include indoor coil blower motor heat deduction.

HP29-411-413 / 10HPB36 — COOLING CAPACITY — C26-31(W)(FC) — CR26-31 — CH23-41

Entering Wet Bulb Temperature	Total Air Volume L/s	Total Air Volume cfm	85°F (29°C) Total Cooling Capacity kW	85°F (29°C) Total Cooling Capacity Btuh	85°F (29°C) Compressor Motor Watts Input	85°F (29°C) S/T Dry Bulb 75°F 24°C	85°F (29°C) S/T Dry Bulb 80°F 27°C	85°F (29°C) S/T Dry Bulb 85°F 29°C	95°F (35°C) Total Cooling Capacity kW	95°F (35°C) Total Cooling Capacity Btuh	95°F (35°C) Compressor Motor Watts Input	95°F (35°C) S/T Dry Bulb 75°F 24°C	95°F (35°C) S/T Dry Bulb 80°F 27°C	95°F (35°C) S/T Dry Bulb 85°F 29°C	105°F (41°C) Total Cooling Capacity kW	105°F (41°C) Total Cooling Capacity Btuh	105°F (41°C) Compressor Motor Watts Input	105°F (41°C) S/T Dry Bulb 75°F 24°C	105°F (41°C) S/T Dry Bulb 80°F 27°C	105°F (41°C) S/T Dry Bulb 85°F 29°C	115°F (46°C) Total Cooling Capacity kW	115°F (46°C) Total Cooling Capacity Btuh	115°F (46°C) Compressor Motor Watts Input	115°F (46°C) S/T Dry Bulb 75°F 24°C	115°F (46°C) S/T Dry Bulb 80°F 27°C	115°F (46°C) S/T Dry Bulb 85°F 29°C
63°F (17.2°C)	375	800	9.6	32,700	2760	.69	.81	.92	9.1	31,100	2950	.70	.82	.94	8.6	29,300	3120	.71	.84	.96	8.1	27,500	3280	.73	.87	.98
	450	950	9.9	33,900	2800	.72	.85	.96	9.4	32,200	2990	.73	.87	.98	8.9	30,300	3170	.75	.89	1.00	8.3	28,400	3330	.77	.92	1.00
	520	1100	10.2	34,800	2830	.74	.89	.99	9.7	33,000	3030	.76	.91	1.00	9.1	31,100	3220	.78	.94	1.00	8.6	29,200	3380	.81	.96	1.00
67°F (19.4°C)	375	800	10.3	35,200	2840	.55	.66	.77	9.8	33,400	3050	.55	.67	.79	9.2	31,500	3240	.56	.68	.81	8.6	29,500	3400	.57	.70	.83
	450	950	10.6	36,300	2880	.56	.69	.81	10.1	34,400	3090	.57	.70	.83	9.5	32,400	3280	.58	.72	.86	8.9	30,400	3450	.59	.74	.89
	520	1100	10.9	37,100	2910	.58	.72	.85	10.3	35,200	3130	.59	.74	.88	9.7	33,100	3320	.60	.76	.90	9.1	31,000	3490	.62	.78	.93
71°F (21.7°C)	375	800	11.0	37,700	2940	.42	.53	.63	10.5	35,800	3150	.42	.53	.64	9.9	33,900	3360	.42	.54	.66	9.3	31,800	3530	.43	.55	.67
	450	950	11.4	38,900	2980	.42	.54	.66	10.8	36,900	3200	.43	.55	.68	10.2	34,800	3400	.43	.56	.69	9.6	32,600	3580	.43	.58	.72
	520	1100	11.6	39,700	3010	.43	.56	.69	11.0	37,600	3230	.43	.57	.71	10.4	35,500	3440	.44	.58	.73	9.7	33,200	3620	.44	.60	.76

NOTE — All values are gross capacities and do not include indoor coil blower motor heat deduction.

HP29–411-413 ONLY — HEATING CAPACITY — CB31MV–41

Indoor Coil Air Volume 70°F db (21°C db) L/s	cfm	65°F (18°C) Total Heating Capacity kW	65°F (18°C) Btuh	65°F (18°C) Comp. Motor Watts Input	45°F (7°C) Total Heating Capacity kW	45°F (7°C) Btuh	45°F (7°C) Comp. Motor Watts Input	25°F (-4°C) Total Heating Capacity kW	25°F (-4°C) Btuh	25°F (-4°C) Comp. Motor Watts Input	5°F (-15°C) Total Heating Capacity kW	5°F (-15°C) Btuh	5°F (-15°C) Comp. Motor Watts Input	-15°F (-28°C) Total Heating Capacity kW	-15°F (-28°C) Btuh	-15°F (-28°C) Comp. Motor Watts Input
535	1135	11.9	40,700	2875	8.9	30,500	2525	5.8	19,700	2180	4.0	13,600	1765	2.0	6,800	1325
600	1275	12.1	41,300	2845	9.1	31,100	2495	5.9	20,300	2150	4.2	14,200	1735	2.2	7,400	1295
660	1400	12.3	41,800	2820	9.3	31,600	2470	6.1	20,800	2125	4.3	14,700	1710	2.3	7,900	1270

NOTE — Heating capacities include the effect of defrost cycles in the temperature range where they occur.

HP29–411–413 / 10HPB36 — HEATING CAPACITY — C26-31(W)(FC) — CR26-31 — CH23-41

Indoor Coil Air Volume 70°F db (21°C db) L/s	cfm	65°F (18°C) Total Heating Capacity kW	65°F (18°C) Btuh	65°F (18°C) Comp. Motor Watts Input	45°F (7°C) Total Heating Capacity kW	45°F (7°C) Btuh	45°F (7°C) Comp. Motor Watts Input	25°F (-4°C) Total Heating Capacity kW	25°F (-4°C) Btuh	25°F (-4°C) Comp. Motor Watts Input	5°F (-15°C) Total Heating Capacity kW	5°F (-15°C) Btuh	5°F (-15°C) Comp. Motor Watts Input	-15°F (-28°C) Total Heating Capacity kW	-15°F (-28°C) Btuh	-15°F (-28°C) Comp. Motor Watts Input
380	800	10.9	37,200	3150	8.2	27,900	2620	5.2	17,900	2100	3.6	12,300	1565	1.8	6,000	1215
450	950	11.2	38,200	3100	8.5	28,900	2570	5.5	18,900	2050	3.9	13,300	1515	2.1	7,000	1165
520	1100	11.4	39,000	3055	8.7	29,700	2525	5.8	19,700	2005	4.1	14,100	1470	2.3	7,800	1120

NOTE — Heating capacities include the effect of defrost cycles in the temperature range where they occur.

HP29–411-413 ONLY — HEATING PERFORMANCE
CB31MV–41 at 1275 cfm (602 L/s)

*Outdoor Temperature °F	*Outdoor Temperature °C	Compressor Motor Watts Input	Total Output Btuh	Total Output kW
65	18	2845	41,300	12.1
60	16	2755	39,000	11.4
55	13	2665	36,700	10.8
50	10	2570	34,400	10.1
47	8	2515	33,000	9.7
45	7	2495	31,100	9.1
40	4	2430	26,400	7.7
35	2	2370	21,800	6.4
30	-1	2260	21,000	6.2
25	-4	2150	20,300	5.9
20	-7	2040	19,500	5.7
17	-8	1970	19,100	5.6
15	-9	1935	18,200	5.3
10	-12	1845	15,900	4.7
5	-15	1735	14,200	4.2
0	-18	1625	12,500	3.7
-5	-21	1515	10,800	3.2
-10	-23	1405	9,100	2.7
-15	-26	1295	7,400	2.2
-20	-29	1185	5,700	1.7

*Outdoor temperature 70% relative humidity. Indoor temperature 70°F (21°C).

HP29-411-413 / 10HPB36 — HEATING PERFORMANCE
C26-31(W)(FC) — CR26-31 — CH23-41 at 950 cfm (450L/s)

*Outdoor Temperature °F	*Outdoor Temperature °C	Compressor Motor Watts Input	Total Output Btuh	Total Output kW
65	18	3100	38,200	11.2
60	16	2965	36,100	10.6
55	13	2825	34,000	10.0
50	10	2690	31,900	9.3
47	8	2610	30,600	9.0
45	7	2570	28,900	8.5
40	4	2470	24,600	7.2
35	2	2365	20,200	5.9
30	-1	2205	19,600	5.7
25	-4	2050	18,900	5.5
20	-7	1890	18,300	5.4
17	-8	1795	17,900	5.2
15	-9	1740	17,100	5.0
10	-12	1605	14,900	4.4
5	-15	1515	13,300	3.9
0	-18	1430	11,700	3.4
-5	-21	1340	10,200	3.0
-10	-23	1255	8,600	2.5
-15	-26	1165	7,000	2.1
-20	-29	1075	5,400	1.6

*Outdoor temperature 70% relative humidity. Indoor temperature 70°F (21°C).

RATINGS

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

HP29–461–463 ONLY —HEATING CAPACITY — CB31MV–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		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	595	1265	11.6	39,700	3350	.73	.87	.99	11.1	37,800	3610	.75	.89	1.00	10.5	35,900	3860	.77	.92	1.00	9.9	33,900	4090	.79	.94	1.00
	660	1400	11.9	40,500	3380	.76	.91	1.00	11.3	38,500	3640	.78	.93	1.00	10.7	36,600	3900	.80	.95	1.00	10.1	34,600	4140	.82	.97	1.00
	730	1545	12.0	41,100	3400	.78	.94	1.00	11.5	39,100	3670	.80	.96	1.00	10.9	37,200	3930	.82	.98	1.00	10.3	35,300	4180	.85	.99	1.00
67°F (19.4°C)	595	1265	12.4	42,200	3440	.57	.71	.84	11.8	40,200	3720	.58	.72	.86	11.2	38,200	3980	.59	.74	.88	10.6	36,000	4220	.60	.76	.91
	660	1400	12.6	42,900	3470	.59	.73	.87	12.0	40,800	3750	.60	.75	.90	11.3	38,700	4010	.61	.77	.92	10.7	36,600	4250	.62	.79	.95
	730	1545	12.7	43,500	3480	.60	.76	.91	12.1	41,300	3770	.61	.78	.93	11.5	39,200	4030	.63	.80	.95	10.8	37,000	4280	.64	.82	.97
71°F (21.7°C)	595	1265	13.2	45,100	3540	.43	.56	.68	12.6	43,000	3840	.43	.56	.70	12.0	40,800	4110	.43	.58	.72	11.3	38,600	4370	.44	.59	.74
	660	1400	13.4	45,700	3570	.43	.57	.71	12.7	43,500	3860	.44	.58	.73	12.1	41,300	4140	.44	.59	.75	11.5	39,100	4400	.45	.61	.77
	730	1545	13.5	46,200	3580	.44	.59	.74	12.9	44,100	3880	.44	.60	.76	12.3	41,800	4170	.45	.61	.78	11.6	39,500	4430	.45	.63	.80

NOTE — All values are gross capacities and do not include indoor coil blower motor heat deduction.

HP29–461–463 / 10HPB42 — COOLING CAPACITY — 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		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	495	1050	11.5	39,100	3330	.70	.83	.94	10.9	37,200	3590	.71	.84	.96	10.3	35,300	3840	.73	.86	.98	9.8	33,400	4070	.74	.89	1.00
	590	1250	11.8	40,400	3380	.73	.87	.99	11.3	38,400	3650	.75	.89	1.00	10.7	36,500	3900	.77	.92	1.00	10.1	34,500	4130	.79	.94	1.00
	685	1450	12.1	41,400	3420	.77	.92	1.00	11.5	39,400	3690	.79	.94	1.00	11.0	37,400	3950	.81	.96	1.00	10.4	35,500	4190	.83	.98	1.00
67°F (19.4°C)	495	1050	12.3	41,800	3430	.55	.67	.79	11.7	39,800	3700	.56	.69	.81	11.1	37,800	3960	.57	.70	.83	10.5	35,700	4210	.58	.72	.85
	590	1250	12.6	43,000	3470	.57	.71	.84	12.0	40,900	3750	.58	.72	.86	11.4	38,800	4020	.59	.74	.88	10.8	36,700	4260	.60	.76	.91
	685	1450	12.9	43,900	3510	.59	.74	.89	12.2	41,700	3790	.60	.76	.91	11.6	39,500	4060	.61	.78	.93	11.0	37,400	4300	.63	.80	.96
71°F (21.7°C)	495	1050	13.1	44,600	3530	.42	.53	.65	12.5	42,600	3830	.42	.54	.66	11.9	40,500	4100	.43	.55	.67	11.2	38,300	4360	.43	.56	.69
	590	1250	13.4	45,800	3570	.43	.56	.68	12.8	43,700	3870	.43	.56	.70	12.2	41,500	4150	.43	.57	.72	11.5	39,300	4410	.44	.59	.74
	685	1450	13.7	46,700	3610	.43	.58	.72	13.0	44,500	3910	.44	.59	.74	12.4	42,200	4190	.44	.60	.76	11.7	39,900	4450	.45	.62	.78

NOTE — All values are gross capacities and do not include indoor coil blower motor heat deduction.

HP29–461-463 ONLY — HEATING CAPACITY — CB31MV–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 (-28°C)		
		Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input
L/s	cfm	kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh	
595	1265	12.5	42,500	3065	9.3	31,600	2680	5.8	19,900	2305	4.2	14,200	1850	2.1	7,100	1395
660	1400	12.6	43,100	3025	9.4	32,200	2640	6.0	20,500	2265	4.3	14,800	1810	2.3	7,700	1355
730	1545	12.9	43,900	2990	9.7	33,000	2605	6.2	21,300	2230	4.6	15,600	1775	2.5	8,500	1320

NOTE — Heating capacities include the effect of defrost cycles in the temperature range where they occur.

HP29–461-463 / 10HPB42 — HEATING CAPACITY — 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 (-28°C)		
		Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input
L/s	cfm	kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh	
495	1050	12.3	42,100	3075	9.2	31,300	2640	5.7	19,600	2180	4.1	14,000	1880	2.0	6,900	1425
590	1250	12.6	43,000	3005	9.4	32,200	2570	6.0	20,500	2110	4.4	14,900	1810	2.3	7,800	1355
685	1450	12.8	43,700	2950	9.6	32,900	2515	6.2	21,200	2055	4.6	15,600	1755	2.5	8,500	1300

NOTE — Heating capacities include the effect of defrost cycles in the temperature range where they occur.

HP29–461-463 ONLY — HEATING PERFORMANCE CB31MV–41 at 1400 cfm (660 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	3025	43,100	12.6
60	16	2925	40,700	11.9
55	13	2825	38,300	11.2
50	10	2725	35,900	10.5
47	8	2665	34,400	10.1
45	7	2640	32,200	9.4
40	4	2575	26,700	7.8
35	2	2515	21,200	6.2
30	-1	2390	20,800	6.1
25	-4	2265	20,500	6.0
20	-7	2140	20,100	5.9
17	-8	2065	19,900	5.8
15	-9	2025	18,900	5.5
10	-12	1925	16,500	4.8
5	-15	1810	14,800	4.3
0	-18	1695	13,000	3.8
-5	-21	1580	11,200	3.3
-10	-23	1470	9,500	2.8
-15	-26	1355	7,700	2.3
-20	-29	1240	6,000	1.8

*Outdoor temperature 70% relative humidity. Indoor temperature 70°F(21°C).

HP29–461-463 / 10HPB42 — HEATING PERFORMANCE CB30M–41 at 1250 cfm (590 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	3005	43,000	12.6
60	16	2905	40,600	11.9
55	13	2810	38,200	11.2
50	10	2710	35,800	10.5
47	8	2650	34,400	10.1
45	7	2570	32,200	9.4
40	4	2370	26,700	7.8
35	2	2175	21,200	6.2
30	-1	2145	20,900	6.1
25	-4	2110	20,500	6.0
20	-7	2080	20,200	5.9
17	-8	2065	20,000	5.9
15	-9	2025	19,000	5.6
10	-12	1925	16,600	4.9
5	-15	1810	14,900	4.4
0	-18	1695	13,100	3.8
-5	-21	1585	11,300	3.3
-10	-23	1470	9,500	2.8
-15	-26	1355	7,800	2.3
-20	-29	1240	6,000	1.8

*Outdoor temperature 70% relative humidity. Indoor temperature 70°F(21°C).

RATINGS

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

HP29–461–463 / 10HPB42 — COOLING CAPACITY — CB29M–46

Entering Wet Bulb Temperature	Total Air Volume L/s	Total Air Volume cfm	Outdoor Air Temperature Entering Outdoor Coil: 85°F (29°C) Total Cooling Capacity kW	85°F (29°C) Total Cooling Capacity Btuh	85°F (29°C) Compressor Motor Watts Input	85°F (29°C) Sensible To Total Ratio (S/T) Dry Bulb 75°F 24°C	80°F 27°C	85°F 29°C	95°F (35°C) Total Cooling Capacity kW	95°F (35°C) Total Cooling Capacity Btuh	95°F (35°C) Compressor Motor Watts Input	95°F (35°C) Sensible To Total Ratio (S/T) Dry Bulb 75°F 24°C	80°F 27°C	85°F 29°C	105°F (41°C) Total Cooling Capacity kW	105°F (41°C) Total Cooling Capacity Btuh	105°F (41°C) Compressor Motor Watts Input	105°F (41°C) Sensible To Total Ratio (S/T) Dry Bulb 75°F 24°C	80°F 27°C	85°F 29°C	115°F (46°C) Total Cooling Capacity kW	115°F (46°C) Total Cooling Capacity Btuh	115°F (46°C) Compressor Motor Watts Input	115°F (46°C) Sensible To Total Ratio (S/T) Dry Bulb 75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	565	1200	11.8	40,400	3440	.73	.86	.98	11.3	38,500	3710	.74	.88	.99	10.7	36,600	3960	.76	.90	1.00	10.1	34,600	4200	.78	.93	1.00
	635	1350	12.1	41,300	3470	.75	.90	1.00	11.5	39,300	3740	.77	.92	1.00	10.9	37,300	4000	.79	.94	1.00	10.4	35,400	4240	.81	.96	1.00
	710	1500	12.3	42,000	3490	.78	.93	1.00	11.7	40,000	3770	.80	.95	1.00	11.1	38,000	4040	.82	.97	1.00	10.6	36,100	4290	.84	.99	1.00
67°F (19.4°C)	565	1200	12.6	43,100	3530	.57	.70	.83	12.0	41,000	3820	.58	.71	.85	11.4	38,900	4080	.59	.73	.87	10.8	36,800	4330	.60	.75	.90
	635	1350	12.8	43,800	3560	.58	.73	.86	12.2	41,700	3850	.59	.74	.89	11.6	39,500	4120	.60	.76	.91	11.0	37,400	4370	.62	.78	.93
	710	1500	13.0	44,400	3580	.60	.75	.90	12.4	42,200	3870	.61	.77	.92	11.8	40,100	4140	.62	.79	.94	11.1	37,900	4400	.64	.82	.97
71°F (21.7°C)	565	1200	13.5	45,900	3640	.43	.55	.67	12.8	43,800	3940	.43	.56	.69	12.2	41,600	4220	.43	.57	.71	11.5	39,400	4490	.44	.58	.73
	635	1350	13.7	46,700	3660	.43	.57	.70	13.0	44,500	3970	.43	.58	.72	12.4	42,200	4250	.44	.59	.74	11.7	40,000	4520	.44	.60	.76
	710	1500	13.9	47,300	3680	.44	.58	.73	13.2	45,000	3990	.44	.59	.75	12.5	42,700	4280	.45	.61	.77	11.8	40,400	4550	.45	.62	.79

NOTE — All values are gross capacities and do not include indoor coil blower motor heat deduction.

HP29–461–463 / 10HPB42 — COOLING CAPACITY — CB29M–51

Entering Wet Bulb Temperature	Total Air Volume L/s	Total Air Volume cfm	Outdoor Air Temperature Entering Outdoor Coil: 85°F (29°C) Total Cooling Capacity kW	85°F (29°C) Total Cooling Capacity Btuh	85°F (29°C) Compressor Motor Watts Input	85°F (29°C) Sensible To Total Ratio (S/T) Dry Bulb 75°F 24°C	80°F 27°C	85°F 29°C	95°F (35°C) Total Cooling Capacity kW	95°F (35°C) Total Cooling Capacity Btuh	95°F (35°C) Compressor Motor Watts Input	95°F (35°C) Sensible To Total Ratio (S/T) Dry Bulb 75°F 24°C	80°F 27°C	85°F 29°C	105°F (41°C) Total Cooling Capacity kW	105°F (41°C) Total Cooling Capacity Btuh	105°F (41°C) Compressor Motor Watts Input	105°F (41°C) Sensible To Total Ratio (S/T) Dry Bulb 75°F 24°C	80°F 27°C	85°F 29°C	115°F (46°C) Total Cooling Capacity kW	115°F (46°C) Total Cooling Capacity Btuh	115°F (46°C) Compressor Motor Watts Input	115°F (46°C) Sensible To Total Ratio (S/T) Dry Bulb 75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	565	1200	11.9	40,600	3380	.72	.86	.98	11.3	38,600	3650	.74	.88	.99	10.8	36,700	3900	.76	.90	1.00	10.2	34,700	4130	.78	.93	1.00
	660	1400	12.2	41,700	3420	.76	.91	1.00	11.6	39,700	3690	.78	.93	1.00	11.0	37,700	3950	.80	.95	1.00	10.5	35,700	4190	.82	.97	1.00
	755	1600	12.5	42,600	3450	.79	.95	1.00	11.9	40,600	3730	.81	.97	1.00	11.3	38,600	4000	.83	.99	1.00	10.7	36,600	4250	.86	1.00	1.00
67°F (19.4°C)	565	1200	12.7	43,200	3480	.57	.70	.83	12.1	41,200	3760	.58	.71	.85	11.5	39,100	4020	.59	.73	.87	10.8	36,900	4270	.60	.75	.89
	660	1400	13.0	44,200	3510	.59	.73	.87	12.3	42,000	3800	.60	.75	.90	11.7	39,900	4060	.61	.77	.92	11.0	37,700	4310	.62	.79	.94
	755	1600	13.2	45,000	3540	.61	.77	.92	12.5	42,700	3830	.62	.79	.94	11.9	40,500	4100	.63	.81	.96	11.2	38,300	4350	.65	.84	.98
71°F (21.7°C)	565	1200	13.5	46,200	3580	.43	.55	.67	12.9	44,000	3880	.43	.56	.69	12.3	41,800	4160	.43	.57	.70	11.6	39,600	4420	.44	.58	.72
	660	1400	13.8	47,100	3610	.43	.57	.71	13.2	44,900	3910	.44	.58	.73	12.5	42,600	4200	.44	.59	.75	11.8	40,300	4460	.45	.61	.77
	755	1600	14.0	47,800	3640	.44	.59	.75	13.3	45,500	3940	.44	.61	.77	12.7	43,200	4230	.45	.62	.79	12.0	40,900	4490	.46	.64	.81

NOTE — All values are gross capacities and do not include indoor coil blower motor heat deduction.

HP29–461-463 / 10HPB42 — HEATING CAPACITY — CB29M–46

Indoor Coil Air Volume 70°F db (21°C db) L/s	cfm	Air Temperature Entering Outdoor Coil: 65°F (18°C) Total Heating Capacity kW	65°F (18°C) Btuh	65°F (18°C) Comp. Motor Watts Input	45°F (7°C) Total Heating Capacity kW	45°F (7°C) Btuh	45°F (7°C) Comp. Motor Watts Input	25°F (-4°C) Total Heating Capacity kW	25°F (-4°C) Btuh	25°F (-4°C) Comp. Motor Watts Input	5°F (-15°C) Total Heating Capacity kW	5°F (-15°C) Btuh	5°F (-15°C) Comp. Motor Watts Input	-15°F (-28°C) Total Heating Capacity kW	-15°F (-28°C) Btuh	-15°F (-28°C) Comp. Motor Watts Input
565	1200	12.7	43,200	3105	9.4	32,200	2700	5.9	20,300	2280	4.3	14,600	1935	2.1	7,300	1455
635	1350	12.8	43,800	3060	9.6	32,800	2655	6.1	20,900	2235	4.5	15,200	1890	2.3	7,900	1410
710	1500	13.0	44,500	3025	9.8	33,500	2620	6.3	21,600	2200	4.7	15,900	1855	2.5	8,600	1375

NOTE — Heating capacities include the effect of defrost cycles in the temperature range where they occur.

HP29–461-463 / 10HPB42 — HEATING CAPACITY — CB29M–51

Indoor Coil Air Volume 70°F db (21°C db) L/s	cfm	Air Temperature Entering Outdoor Coil: 65°F (18°C) Total Heating Capacity kW	65°F (18°C) Btuh	65°F (18°C) Comp. Motor Watts Input	45°F (7°C) Total Heating Capacity kW	45°F (7°C) Btuh	45°F (7°C) Comp. Motor Watts Input	25°F (-4°C) Total Heating Capacity kW	25°F (-4°C) Btuh	25°F (-4°C) Comp. Motor Watts Input	5°F (-15°C) Total Heating Capacity kW	5°F (-15°C) Btuh	5°F (-15°C) Comp. Motor Watts Input	-15°F (-28°C) Total Heating Capacity kW	-15°F (-28°C) Btuh	-15°F (-28°C) Comp. Motor Watts Input
565	1200	12.7	43,300	3025	9.5	32,300	2610	6.0	20,400	2170	4.3	14,700	1875	2.1	7,300	1415
660	1400	12.9	44,000	2965	9.7	33,000	2550	6.2	21,100	2110	4.5	15,400	1815	2.3	8,000	1355
755	1600	13.1	44,800	2915	9.9	33,800	2500	6.4	21,900	2060	4.7	16,200	1765	2.6	8,800	1305

NOTE — Heating capacities include the effect of defrost cycles in the temperature range where they occur.

HP29–461-463 / 10HPB42 — HEATING PERFORMANCE CB29M–46 at 1350 cfm (635 L/s)

*Outdoor Temperature °F	°C	Compressor Motor Watts Input	Total Output Btuh	kW
65	18	3060	43,800	12.8
60	16	2965	41,300	12.1
55	13	2870	38,900	11.4
50	10	2775	36,500	10.7
47	8	2720	35,000	10.3
45	7	2655	32,800	9.6
40	4	2505	27,200	8.0
35	2	2350	21,600	6.3
30	-1	2295	21,300	6.2
25	-4	2235	20,900	6.1
20	-7	2180	20,600	6.0
17	-8	2145	20,400	6.0
15	-9	2110	19,400	5.7
10	-12	2015	17,000	5.0
5	-15	1890	15,200	4.5
0	-18	1770	13,400	3.9
-5	-21	1650	11,600	3.4
-10	-23	1530	9,700	2.8
-15	-26	1410	7,900	2.3
-20	-29	1290	6,100	1.8

*Outdoor temperature 70% relative humidity. Indoor temperature 70°F(21°C).

HP29–461-463 / 10HPB42 — HEATING PERFORMANCE CB29M–51 at 1400 cfm (660 L/s)

*Outdoor Temperature °F	°C	Compressor Motor Watts Input	Total Output Btuh	kW
65	18	2965	44,000	12.9
60	16	2870	41,500	12.2
55	13	2780	39,100	11.5
50	10	2685	36,700	10.8
47	8	2630	35,200	10.3
45	7	2550	33,000	9.7
40	4	2355	27,300	8.0
35	2	2165	21,700	6.4
30	-1	2135	21,400	6.3
25	-4	2110	21,100	6.2
20	-7	2080	20,800	6.1
17	-8	2065	20,600	6.0
15	-9	2025	19,600	5.7
10	-12	1930	17,200	5.0
5	-15	1815	15,400	4.5
0	-18	1700	13,500	4.0
-5	-21	1585	11,700	3.4
-10	-23	1470	9,900	2.9
-15	-26	1355	8,000	2.3
-20	-29	1240	6,200	1.8

*Outdoor temperature 70% relative humidity. Indoor temperature 70°F(21°C).

RATINGS

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

HP29–461–463 / 10HPB42 — COOLING CAPACITY — CB30M–46

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil: 85°F (29°C) Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			95°F (35°C) Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			105°F (41°C) Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			115°F (46°C) Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	590	1250	12.0	40,800	3390	.73	.87	.99	11.4	38,800	3650	.75	.89	1.00	10.8	36,900	3900	.77	.92	1.00	10.2	34,900	4140	.79	.94	1.00
	660	1400	12.2	41,600	3420	.76	.91	1.00	11.6	39,600	3690	.78	.93	1.00	11.0	37,600	3940	.80	.95	1.00	10.4	35,600	4180	.82	.97	1.00
	730	1550	12.4	42,300	3440	.78	.94	1.00	11.8	40,300	3710	.80	.96	1.00	11.2	38,300	3980	.83	.98	1.00	10.6	36,300	4230	.85	1.00	1.00
67°F (19.4°C)	590	1250	12.7	43,400	3480	.57	.71	.84	12.1	41,300	3760	.58	.72	.86	11.5	39,200	4020	.59	.74	.88	10.8	37,000	4270	.60	.76	.91
	660	1400	12.9	44,100	3510	.59	.73	.87	12.3	41,900	3790	.60	.75	.90	11.7	39,800	4060	.61	.77	.92	11.0	37,600	4300	.62	.79	.94
	730	1550	13.1	44,700	3520	.60	.76	.91	12.5	42,500	3810	.61	.78	.93	11.8	40,300	4080	.63	.80	.95	11.2	38,100	4330	.64	.83	.98
71°F (21.7°C)	590	1250	13.6	46,300	3580	.43	.56	.68	13.0	44,200	3880	.43	.56	.70	12.3	41,900	4160	.43	.57	.72	11.6	39,700	4420	.44	.59	.74
	660	1400	13.8	47,000	3610	.43	.57	.71	13.1	44,800	3910	.44	.58	.73	12.5	42,500	4190	.44	.59	.75	11.8	40,200	4450	.45	.61	.77
	730	1550	14.0	47,600	3630	.44	.59	.74	13.3	45,300	3930	.44	.60	.76	12.6	43,000	4210	.45	.61	.78	11.9	40,600	4480	.45	.63	.80

NOTE — All values are gross capacities and do not include indoor coil blower motor heat deduction.

HP29–461–463 / 10HPB42 — COOLING CAPACITY — CB30M–51

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil: 85°F (29°C) Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			95°F (35°C) Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			105°F (41°C) Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			115°F (46°C) Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	565	1200	12.1	41,200	3390	.72	.86	.98	11.5	39,200	3660	.74	.88	.99	10.9	37,100	3910	.75	.90	1.00	10.3	35,100	4150	.77	.93	1.00
	660	1400	12.4	42,400	3430	.76	.90	1.00	11.8	40,300	3710	.77	.93	1.00	11.2	38,200	3970	.79	.95	1.00	10.6	36,100	4210	.82	.98	1.00
	755	1600	12.7	43,300	3470	.79	.95	1.00	12.1	41,200	3750	.81	.97	1.00	11.5	39,200	4020	.83	.99	1.00	10.9	37,200	4270	.86	1.00	1.00
67°F (19.4°C)	565	1200	12.9	44,000	3490	.57	.70	.82	12.3	41,800	3770	.57	.71	.84	11.6	39,700	4040	.58	.73	.87	11.0	37,500	4290	.59	.75	.89
	660	1400	13.2	45,000	3530	.59	.73	.87	12.5	42,800	3820	.60	.75	.89	11.9	40,500	4090	.61	.77	.92	11.2	38,300	4340	.62	.79	.95
	755	1600	13.5	45,900	3550	.61	.77	.92	12.7	43,500	3850	.62	.79	.94	12.1	41,200	4120	.63	.81	.97	11.4	38,900	4380	.65	.84	.99
71°F (21.7°C)	565	1200	13.8	47,100	3600	.42	.55	.67	13.1	44,800	3900	.43	.56	.68	12.5	42,500	4180	.43	.57	.70	11.8	40,200	4450	.43	.58	.72
	660	1400	14.1	48,100	3630	.43	.57	.71	13.4	45,700	3940	.44	.58	.72	12.7	43,400	4230	.44	.59	.74	12.0	41,000	4490	.45	.61	.77
	755	1600	14.3	48,900	3660	.44	.59	.74	13.6	46,500	3970	.44	.60	.76	12.9	44,100	4260	.45	.62	.79	12.2	41,600	4530	.46	.64	.81

NOTE — All values are gross capacities and do not include indoor coil blower motor heat deduction.

HP29–461-463 / 10HPB42 — HEATING CAPACITY — CB30M–46

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil: 65°F (18°C) Total Heating Capacity		Comp. Motor Watts Input	45°F (7°C) Total Heating Capacity		Comp. Motor Watts Input	25°F (-4°C) Total Heating Capacity		Comp. Motor Watts Input	5°F (-15°C) Total Heating Capacity		Comp. Motor Watts Input	-15°F (-28°C) Total Heating Capacity		Comp. Motor Watts Input
L/s	cfm	kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh	
590	1250	12.5	42,500	2965	9.3	31,700	2530	5.9	20,000	2070	4.2	14,300	1785	2.1	7,200	1320
660	1400	12.7	43,200	3000	9.5	32,400	2565	6.1	20,700	2105	4.4	15,000	1820	2.3	7,900	1355
730	1550	12.8	43,700	3030	9.6	32,900	2595	6.2	21,200	2135	4.5	15,500	1850	2.5	8,400	1385

NOTE — Heating capacities include the effect of defrost cycles in the temperature range where they occur.

HP29–461-463 / 10HPB42 — HEATING CAPACITY — CB30M–51

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil: 65°F (18°C) Total Heating Capacity		Comp. Motor Watts Input	45°F (7°C) Total Heating Capacity		Comp. Motor Watts Input	25°F (-4°C) Total Heating Capacity		Comp. Motor Watts Input	5°F (-15°C) Total Heating Capacity		Comp. Motor Watts Input	-15°F (-28°C) Total Heating Capacity		Comp. Motor Watts Input
L/s	cfm	kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh	
565	1200	12.6	42,900	3110	9.3	31,900	2655	5.9	20,000	2170	4.2	14,300	1895	2.1	7,100	1430
660	1400	12.8	43,600	3050	9.6	32,600	2595	6.1	20,700	2110	4.4	15,000	1835	2.3	7,800	1370
755	1600	13.0	44,200	3005	9.7	33,200	2550	6.2	21,300	2065	4.6	15,600	1790	2.5	8,400	1325

NOTE — Heating capacities include the effect of defrost cycles in the temperature range where they occur.

HP29–461-463 / 10HPB42 — HEATING PERFORMANCE CB30M–46 at 1400 cfm (660 L/s)

*Outdoor Temperature °F	°C	Compressor Motor Watts Input	Total Output Btuh	kW
65	18	3000	43,200	12.7
60	16	2900	40,800	12.0
55	13	2805	38,400	11.3
50	10	2710	36,000	10.6
47	8	2650	34,600	10.1
45	7	2565	32,400	9.5
40	4	2360	26,900	7.9
35	2	2150	21,300	6.2
30	-1	2130	21,000	6.2
25	-4	2105	20,700	6.1
20	-7	2085	20,400	6.0
17	-8	2070	20,200	5.9
15	-9	2030	19,200	5.6
10	-12	1935	16,800	4.9
5	-15	1820	15,000	4.4
0	-18	1705	13,200	3.9
-5	-21	1590	11,500	3.4
-10	-23	1475	9,700	2.8
-15	-26	1355	7,900	2.3
-20	-29	1240	6,100	1.8

*Outdoor temperature 70% relative humidity. Indoor temperature 70°F (21°C).

HP29–461-463 / 10HPB42 — HEATING PERFORMANCE CB30M–51 at 1400 cfm (660 L/s)

*Outdoor Temperature °F	°C	Compressor Motor Watts Input	Total Output Btuh	kW
65	18	3050	43,600	12.8
60	16	2950	41,100	12.0
55	13	2850	38,700	11.3
50	10	2750	36,300	10.6
47	8	2690	34,800	10.2
45	7	2595	32,600	9.6
40	4	2365	27,000	7.9
35	2	2135	21,400	6.3
30	-1	2120	21,100	6.2
25	-4	2110	20,700	6.1
20	-7	2095	20,400	6.0
17	-8	2090	20,200	5.9
15	-9	2050	19,200	5.6
10	-12	1950	16,800	4.9
5	-15	1835	15,000	4.4
0	-18	1720	13,200	3.9
-5	-21	1600	11,400	3.3
-10	-23	1485	9,600	2.8
-15	-26	1370	7,800	2.3
-20	-29	1255	6,100	1.8

*Outdoor temperature 70% relative humidity. Indoor temperature 70°F (21°C).

RATINGS

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

HP29–461–463 ONLY — COOLING CAPACITY — CB31MV–51

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil 85°F (29°C) Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			95°F (35°C) Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			105°F (41°C) Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			115°F (46°C) Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	570	1205	12.1	41,400	3390	.72	.86	.98	11.5	39,300	3650	.74	.88	1.00	10.9	37,300	3910	.75	.90	1.00	10.3	35,200	4140	.77	.93	1.00
	670	1425	12.5	42,600	3430	.76	.91	1.00	11.9	40,500	3710	.78	.93	1.00	11.3	38,400	3970	.80	.96	1.00	10.7	36,400	4210	.82	.98	1.00
	765	1625	12.8	43,700	3470	.80	.96	1.00	12.2	41,600	3750	.82	.98	1.00	11.6	39,500	4020	.84	1.00	1.00	11.0	37,600	4280	.87	1.00	1.00
67°F (19.4°C)	570	1205	12.9	44,100	3490	.57	.70	.82	12.3	42,000	3770	.57	.71	.85	11.7	39,800	4040	.58	.73	.87	11.0	37,600	4280	.59	.75	.89
	670	1425	13.3	45,300	3530	.59	.74	.88	12.6	43,000	3820	.60	.75	.90	12.0	40,800	4090	.61	.77	.93	11.3	38,500	4340	.62	.80	.95
	765	1625	13.5	46,200	3560	.61	.78	.93	12.8	43,800	3850	.62	.80	.95	12.2	41,500	4130	.64	.82	.97	11.5	39,200	4380	.65	.84	.99
71°F (21.7°C)	570	1205	13.8	47,200	3600	.43	.55	.67	13.2	44,900	3900	.43	.56	.68	12.5	42,700	4180	.43	.57	.70	11.8	40,300	4440	.44	.58	.72
	670	1425	14.2	48,300	3630	.43	.57	.71	13.5	46,000	3940	.44	.58	.73	12.8	43,600	4230	.44	.60	.75	12.1	41,200	4490	.45	.61	.77
	765	1625	14.4	49,200	3660	.44	.60	.75	13.7	46,800	3970	.45	.61	.77	13.0	44,300	4260	.45	.63	.80	12.3	41,900	4530	.46	.64	.82

NOTE — All values are gross capacities and do not include indoor coil blower motor heat deduction.

HP29-461-463 / 10HPB42 — COOLING CAPACITY — C26-41(FC) — CH23-51

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil 85°F (29°C) Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			95°F (35°C) Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			105°F (41°C) Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			115°F (46°C) Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	470	1000	11.4	38,800	3140	.69	.82	.93	10.8	37,000	3380	.71	.83	.95	10.3	35,100	3610	.72	.85	.97	9.7	33,200	3820	.73	.87	.99
	540	1150	11.7	39,900	3170	.72	.85	.97	11.1	38,000	3420	.73	.87	.98	10.6	36,000	3650	.75	.89	1.00	10.0	34,100	3870	.77	.92	1.00
	615	1300	11.9	40,700	3200	.74	.88	.99	11.4	38,800	3450	.76	.91	1.00	10.8	36,800	3690	.78	.93	1.00	10.2	34,900	3920	.80	.95	1.00
67°F (19.4°C)	470	1000	12.2	41,500	3230	.55	.67	.78	11.6	39,600	3480	.56	.68	.80	11.0	37,600	3730	.56	.69	.82	10.4	35,600	3960	.57	.71	.84
	540	1150	12.5	42,500	3260	.56	.69	.82	11.9	40,500	3520	.57	.71	.84	11.3	38,400	3770	.58	.72	.86	10.6	36,300	4000	.59	.74	.88
	615	1300	12.7	43,200	3290	.58	.72	.85	12.1	41,200	3550	.59	.73	.87	11.5	39,100	3800	.60	.75	.90	10.8	36,900	4030	.61	.77	.92
71°F (21.7°C)	470	1000	13.0	44,300	3330	.42	.53	.64	12.4	42,300	3600	.42	.54	.65	11.8	40,300	3860	.42	.54	.66	11.2	38,200	4100	.43	.55	.68
	540	1150	13.3	45,300	3360	.42	.55	.67	12.7	43,200	3630	.43	.55	.68	12.0	41,100	3900	.43	.56	.70	11.4	38,900	4140	.43	.57	.71
	615	1300	13.5	46,100	3380	.43	.56	.69	12.9	43,900	3660	.43	.57	.71	12.2	41,700	3930	.44	.58	.73	11.6	39,500	4170	.44	.59	.75

NOTE — All values are gross capacities and do not include indoor coil blower motor heat deduction.

HP29–461-463 ONLY — HEATING CAPACITY — CB31MV–51

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil 65°F (18°C) Total Heating Capacity		Comp. Motor Watts Input	45°F (7°C) Total Heating Capacity		Comp. Motor Watts Input	25°F (-4°C) Total Heating Capacity		Comp. Motor Watts Input	5°F (-15°C) Total Heating Capacity		Comp. Motor Watts Input	-15°F (-28°C) Total Heating Capacity		Comp. Motor Watts Input
L/s	cfm	kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh	
570	1205	12.4	42,400	3110	9.2	31,400	2705	5.7	19,600	2315	4.1	13,900	1850	2.0	6,900	1405
675	1425	12.7	43,200	3045	9.4	32,200	2640	6.0	20,400	2250	4.3	14,700	1785	2.3	7,700	1340
765	1625	12.9	43,900	3000	9.6	32,900	2595	6.2	21,100	2205	4.5	15,400	1740	2.5	8,400	1295

NOTE — Heating capacities include the effect of defrost cycles in the temperature range where they occur.

HP29-461-463 / 10HPB42 — HEATING CAPACITY — C26-41(FC) — CH23-51

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil 65°F (18°C) Total Heating Capacity		Comp. Motor Watts Input	45°F (7°C) Total Heating Capacity		Comp. Motor Watts Input	25°F (-4°C) Total Heating Capacity		Comp. Motor Watts Input	5°F (-15°C) Total Heating Capacity		Comp. Motor Watts Input	-15°F (-28°C) Total Heating Capacity		Comp. Motor Watts Input
L/s	cfm	kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh	
470	1000	11.9	40,700	3100	8.8	30,100	2590	5.5	18,600	2065	4.0	13,500	1675	1.6	5400	1240
540	1150	12.8	43,800	3185	9.7	33,200	2680	6.4	21,700	2155	4.9	16,600	1760	2.5	8500	1325
615	1300	13.7	46,900	3275	10.6	36,300	2765	7.3	24,800	2240	5.8	19,700	1850	3.4	11,600	1410

NOTE — Heating capacities include the effect of defrost cycles in the temperature range where they occur.

HP29–461-463 ONLY — HEATING PERFORMANCE CB31MV–51 at 1425 cfm (675 L/s)

*Outdoor Temperature °F	°C	Compressor Motor Watts Input	Total Output Btuh	kW
65	18	3045	43,200	12.7
60	16	2940	40,700	11.9
55	13	2835	38,300	11.2
50	10	2735	35,900	10.5
47	8	2670	34,400	10.1
45	7	2640	32,200	9.4
40	4	2575	26,700	7.8
35	2	2505	21,100	6.2
30	-1	2375	20,800	6.1
25	-4	2250	20,400	6.0
20	-7	2120	20,000	5.9
17	-8	2045	19,800	5.8
15	-9	2000	18,800	5.5
10	-12	1900	16,400	4.8
5	-15	1785	14,700	4.3
0	-18	1675	12,900	3.8
-5	-21	1560	11,200	3.3
-10	-23	1450	9,400	2.8
-15	-26	1340	7,700	2.3
-20	-29	1225	5,900	1.7

*Outdoor temperature 70% relative humidity. Indoor temperature 70°F(21°C).

HP29-461-463 / 10HPB42 — HEATING PERFORMANCE C26-41(FC) — CH23-51 at 1150 cfm (540 L/s)

*Outdoor Temperature °F	°C	Compressor Motor Watts Input	Total Output Btuh	kW
65	18	3185	43,800	12.8
60	16	3065	41,400	12.1
55	13	2945	39,100	11.5
50	10	2825	36,800	10.8
47	8	2750	35,400	10.4
45	7	2680	33,200	9.7
40	4	2495	27,600	8.1
35	2	2315	22,000	6.4
30	-1	2235	21,900	6.4
25	-4	2155	21,700	6.4
20	-7	2075	21,500	6.3
17	-8	2025	21,500	6.3
15	-9	1980	20,600	6.0
10	-12	1870	18,600	5.5
5	-15	1760	16,600	4.9
0	-18	1650	14,600	4.3
-5	-21	1545	12,500	3.7
-10	-23	1435	10,500	3.1
-15	-26	1325	8500	2.5
-20	-29	1215	6400	1.9

*Outdoor temperature 70% relative humidity. Indoor temperature 70°F(21°C).

RATINGS

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

HP29-461-463 / 10HPB42 — COOLING CAPACITY — C26-51(FC)

Entering Wet Bulb Temperature	Total Air Volume L/s	Total Air Volume cfm	85°F (29°C) Total Cooling Capacity kW	85°F (29°C) Total Cooling Capacity Btuh	85°F (29°C) Compressor Motor Watts Input	85°F (29°C) S/T Dry Bulb 75°F 24°C	85°F (29°C) S/T Dry Bulb 80°F 27°C	85°F (29°C) S/T Dry Bulb 85°F 29°C	95°F (35°C) Total Cooling Capacity kW	95°F (35°C) Total Cooling Capacity Btuh	95°F (35°C) Compressor Motor Watts Input	95°F (35°C) S/T Dry Bulb 75°F 24°C	95°F (35°C) S/T Dry Bulb 80°F 27°C	95°F (35°C) S/T Dry Bulb 85°F 29°C	105°F (41°C) Total Cooling Capacity kW	105°F (41°C) Total Cooling Capacity Btuh	105°F (41°C) Compressor Motor Watts Input	105°F (41°C) S/T Dry Bulb 75°F 24°C	105°F (41°C) S/T Dry Bulb 80°F 27°C	105°F (41°C) S/T Dry Bulb 85°F 29°C	115°F (46°C) Total Cooling Capacity kW	115°F (46°C) Total Cooling Capacity Btuh	115°F (46°C) Compressor Motor Watts Input	115°F (46°C) S/T Dry Bulb 75°F 24°C	115°F (46°C) S/T Dry Bulb 80°F 27°C	115°F (46°C) S/T Dry Bulb 85°F 29°C
63°F (17.2°C)	615	1300	12.4	42,200	3380	.74	.89	1.00	11.8	40,100	3650	.76	.91	1.00	11.1	38,000	3910	.78	.93	1.00	10.5	35,900	4140	.80	.96	1.00
	685	1450	12.6	43,000	3410	.77	.92	1.00	12.0	40,900	3690	.79	.94	1.00	11.4	38,800	3940	.81	.97	1.00	10.8	36,700	4190	.83	.99	1.00
	755	1600	12.8	43,700	3440	.80	.95	1.00	12.2	41,600	3720	.82	.97	1.00	11.6	39,600	3980	.84	.99	1.00	11.0	37,600	4240	.86	1.00	1.00
67°F (19.4°C)	615	1300	13.2	44,900	3480	.58	.72	.85	12.5	42,600	3760	.59	.73	.87	11.8	40,400	4030	.60	.75	.90	11.2	38,200	4270	.61	.77	.92
	685	1450	13.3	45,500	3500	.59	.75	.89	12.7	43,300	3790	.60	.76	.91	12.0	41,000	4060	.62	.78	.94	11.3	38,700	4310	.63	.81	.96
	755	1600	13.5	46,200	3520	.61	.77	.92	12.8	43,800	3810	.62	.79	.95	12.2	41,500	4080	.64	.82	.97	11.5	39,200	4330	.65	.84	.99
71°F (21.7°C)	615	1300	14.0	47,900	3580	.43	.56	.69	13.4	45,600	3880	.43	.57	.71	12.7	43,200	4160	.44	.58	.73	12.0	40,900	4430	.44	.60	.75
	685	1450	14.2	48,500	3600	.44	.58	.72	13.5	46,200	3910	.44	.59	.74	12.8	43,800	4190	.44	.60	.76	12.1	41,400	4460	.45	.62	.78
	755	1600	14.4	49,100	3620	.44	.60	.75	13.7	46,700	3930	.45	.61	.77	13.0	44,300	4220	.45	.62	.79	12.3	41,800	4480	.46	.64	.82

NOTE — All values are gross capacities and do not include indoor coil blower motor heat deduction.

HP29-461-463 / 10HPB42 — COOLING CAPACITY — CR26-51(N)(W)

Entering Wet Bulb Temperature	Total Air Volume L/s	Total Air Volume cfm	85°F (29°C) Total Cooling Capacity kW	85°F (29°C) Total Cooling Capacity Btuh	85°F (29°C) Compressor Motor Watts Input	85°F (29°C) S/T Dry Bulb 75°F 24°C	85°F (29°C) S/T Dry Bulb 80°F 27°C	85°F (29°C) S/T Dry Bulb 85°F 29°C	95°F (35°C) Total Cooling Capacity kW	95°F (35°C) Total Cooling Capacity Btuh	95°F (35°C) Compressor Motor Watts Input	95°F (35°C) S/T Dry Bulb 75°F 24°C	95°F (35°C) S/T Dry Bulb 80°F 27°C	95°F (35°C) S/T Dry Bulb 85°F 29°C	105°F (41°C) Total Cooling Capacity kW	105°F (41°C) Total Cooling Capacity Btuh	105°F (41°C) Compressor Motor Watts Input	105°F (41°C) S/T Dry Bulb 75°F 24°C	105°F (41°C) S/T Dry Bulb 80°F 27°C	105°F (41°C) S/T Dry Bulb 85°F 29°C	115°F (46°C) Total Cooling Capacity kW	115°F (46°C) Total Cooling Capacity Btuh	115°F (46°C) Compressor Motor Watts Input	115°F (46°C) S/T Dry Bulb 75°F 24°C	115°F (46°C) S/T Dry Bulb 80°F 27°C	115°F (46°C) S/T Dry Bulb 85°F 29°C
63°F (17.2°C)	615	1300	12.2	41,700	3330	.74	.88	.99	11.6	39,700	3600	.76	.90	1.00	11.0	37,600	3850	.78	.93	1.00	10.4	35,600	4080	.80	.95	1.00
	685	1450	12.4	42,400	3360	.77	.92	1.00	11.8	40,400	3630	.79	.94	1.00	11.3	38,400	3880	.81	.96	1.00	10.7	36,400	4120	.83	.98	1.00
	755	1600	12.6	43,100	3390	.79	.95	1.00	12.0	41,100	3660	.81	.97	1.00	11.5	39,100	3920	.83	.99	1.00	10.9	37,100	4170	.86	1.00	1.00
67°F (19.4°C)	615	1300	13.0	44,300	3430	.58	.72	.85	12.4	42,200	3700	.59	.73	.87	11.7	40,000	3970	.60	.75	.90	11.1	37,800	4210	.61	.77	.92
	685	1450	13.2	45,000	3450	.59	.74	.89	12.5	42,800	3730	.60	.76	.91	11.9	40,500	3990	.61	.78	.93	11.2	38,300	4240	.63	.80	.96
	755	1600	13.4	45,600	3470	.61	.77	.92	12.7	43,300	3750	.62	.79	.94	12.0	41,000	4020	.63	.81	.96	11.4	38,800	4260	.65	.84	.98
71°F (21.7°C)	615	1300	13.9	47,300	3530	.43	.56	.69	13.2	45,000	3820	.43	.57	.71	12.5	42,700	4100	.44	.58	.73	11.9	40,500	4360	.44	.59	.75
	685	1450	14.0	47,900	3550	.43	.58	.72	13.4	45,600	3850	.44	.59	.74	12.7	43,300	4130	.44	.60	.76	12.0	41,000	4390	.45	.61	.78
	755	1600	14.2	48,500	3570	.44	.59	.75	13.5	46,200	3870	.44	.61	.77	12.8	43,800	4150	.45	.62	.79	12.1	41,400	4410	.46	.64	.81

NOTE — All values are gross capacities and do not include indoor coil blower motor heat deduction.

HP29-461-463 / 10HPB42 — HEATING CAPACITY — C26-51(FC)

Indoor Coil Air Volume 70°F db (21°C db) L/s	cfm	65°F (18°C) Total Heating Capacity kW	65°F (18°C) Total Heating Capacity Btuh	65°F (18°C) Comp. Motor Watts Input	45°F (7°C) Total Heating Capacity kW	45°F (7°C) Total Heating Capacity Btuh	45°F (7°C) Comp. Motor Watts Input	25°F (-4°C) Total Heating Capacity kW	25°F (-4°C) Total Heating Capacity Btuh	25°F (-4°C) Comp. Motor Watts Input	5°F (-15°C) Total Heating Capacity kW	5°F (-15°C) Total Heating Capacity Btuh	5°F (-15°C) Comp. Motor Watts Input	-15°F (-28°C) Total Heating Capacity kW	-15°F (-28°C) Total Heating Capacity Btuh	-15°F (-28°C) Comp. Motor Watts Input
615	1300	12.4	42,300	2935	9.2	31,300	2490	5.7	19,400	2025	4.1	14,100	1660	1.7	5700	1230
685	1450	13.3	45,300	3020	10.1	34,300	2570	6.6	22,400	2110	5.0	17,100	1745	2.5	8700	1310
755	1600	14.2	48,300	3100	10.9	37,300	2655	7.4	25,400	2195	5.9	20,100	1825	3.4	11,700	1395

NOTE — Heating capacities include the effect of defrost cycles in the temperature range where they occur.

HP29-461-463 / 10HPB42 — HEATING CAPACITY — CR26-51(N)(W)

Indoor Coil Air Volume 70°F db (21°C db) L/s	cfm	65°F (18°C) Total Heating Capacity kW	65°F (18°C) Total Heating Capacity Btuh	65°F (18°C) Comp. Motor Watts Input	45°F (7°C) Total Heating Capacity kW	45°F (7°C) Total Heating Capacity Btuh	45°F (7°C) Comp. Motor Watts Input	25°F (-4°C) Total Heating Capacity kW	25°F (-4°C) Total Heating Capacity Btuh	25°F (-4°C) Comp. Motor Watts Input	5°F (-15°C) Total Heating Capacity kW	5°F (-15°C) Total Heating Capacity Btuh	5°F (-15°C) Comp. Motor Watts Input	-15°F (-28°C) Total Heating Capacity kW	-15°F (-28°C) Total Heating Capacity Btuh	-15°F (-28°C) Comp. Motor Watts Input
615	1300	12.4	42,300	2940	9.2	31,400	2485	5.7	19,500	2015	4.2	14,200	1650	1.7	5800	1220
685	1450	13.2	45,200	3025	10.1	34,300	2575	6.6	22,500	2105	5.0	17,200	1735	2.6	8800	1305
755	1600	14.1	48,200	3115	10.9	37,300	2660	7.4	25,400	2195	5.9	20,100	1825	3.4	11,700	1395

NOTE — Heating capacities include the effect of defrost cycles in the temperature range where they occur.

HP29-461-463 / 10HPB42 — HEATING PERFORMANCE C26-51(FC) at 1450 cfm (685 L/s)

*Outdoor Temperature °F	*Outdoor Temperature °C	Compressor Motor Watts Input	Total Output Btuh	Total Output kW
65	18	3020	45,300	13.3
60	16	2910	42,900	12.6
55	13	2805	40,500	11.9
50	10	2700	38,000	11.1
47	8	2640	36,600	10.7
45	7	2570	34,300	10.1
40	4	2405	28,600	8.4
35	2	2240	22,800	6.7
30	-1	2175	22,600	6.6
25	-4	2110	22,400	6.6
20	-7	2045	22,200	6.5
17	-8	2005	22,100	6.5
15	-9	1960	21,300	6.2
10	-12	1855	19,200	5.6
5	-15	1745	17,100	5.0
0	-18	1635	15,000	4.4
-5	-21	1530	12,900	3.8
-10	-23	1420	10,800	3.2
-15	-26	1310	8700	2.5
-20	-29	1205	6600	1.9

*Outdoor temperature 70% relative humidity. Indoor temperature 70°F (21°C).

HP29-461-463 / 10HPB42 — HEATING PERFORMANCE CR26-51(N)(W) at 1450 cfm (685 L/s)

*Outdoor Temperature °F	*Outdoor Temperature °C	Compressor Motor Watts Input	Total Output Btuh	Total Output kW
65	18	3025	45,200	13.2
60	16	2920	42,800	12.5
55	13	2810	40,400	11.8
50	10	2705	38,000	11.1
47	8	2640	36,600	10.7
45	7	2575	34,300	10.1
40	4	2405	28,600	8.4
35	2	2240	22,800	6.7
30	-1	2170	22,700	6.7
25	-4	2105	22,500	6.6
20	-7	2035	22,300	6.5
17	-8	1995	22,200	6.5
15	-9	1955	21,400	6.3
10	-12	1845	19,300	5.7
5	-15	1735	17,200	5.0
0	-18	1630	15,100	4.4
-5	-21	1520	13,000	3.8
-10	-23	1415	10,900	3.2
-15	-26	1305	8800	2.6
-20	-29	1200	6700	2.0

*Outdoor temperature 70% relative humidity. Indoor temperature 70°F (21°C).

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

HP29–511–513 / 10HPB48 — COOLING CAPACITY — 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		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	590	1250	12.9	44,000	3580	.72	.85	.96	12.3	41,900	3820	.73	.87	.98	11.6	39,700	4090	.74	.89	1.00	11.0	37,600	4400	.76	.91	1.00
	660	1400	13.2	44,900	3610	.74	.88	.99	12.5	42,700	3860	.75	.90	1.00	11.9	40,500	4140	.77	.92	1.00	11.2	38,300	4450	.79	.95	1.00
	730	1550	13.4	45,700	3630	.76	.91	1.00	12.7	43,500	3890	.78	.93	1.00	12.1	41,300	4180	.80	.95	1.00	11.5	39,100	4500	.82	.97	1.00
67°F (19.4°C)	590	1250	13.8	47,000	3680	.56	.69	.81	13.1	44,700	3940	.57	.70	.83	12.4	42,400	4240	.58	.72	.85	11.7	40,000	4570	.59	.74	.88
	660	1400	14.0	47,800	3710	.57	.71	.84	13.3	45,500	3970	.58	.73	.87	12.6	43,100	4280	.59	.75	.89	11.9	40,700	4620	.61	.77	.91
	730	1550	14.2	48,400	3730	.59	.74	.88	13.5	46,100	4000	.60	.75	.90	12.8	43,600	4310	.61	.77	.92	12.1	41,200	4650	.62	.80	.95
71°F (21.7°C)	590	1250	14.7	50,100	3790	.42	.54	.66	14.0	47,800	4080	.43	.55	.68	13.3	45,400	4400	.43	.56	.69	12.6	42,900	4760	.43	.57	.71
	660	1400	14.9	50,900	3810	.43	.56	.69	14.2	48,500	4110	.43	.57	.70	13.5	46,100	4440	.43	.58	.72	12.7	43,500	4810	.44	.59	.74
	730	1550	15.1	51,600	3830	.43	.57	.71	14.4	49,200	4130	.44	.58	.73	13.7	46,600	4470	.44	.60	.75	12.9	44,000	4840	.45	.61	.77

NOTE — All values are gross capacities and do not include indoor coil blower motor heat deduction.

HP29–511–513 / 10HPB48 — COOLING CAPACITY — CB29M–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		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	685	1450	13.4	45,800	3670	.75	.89	.99	12.8	43,600	3920	.76	.91	1.00	12.1	41,400	4210	.78	.93	1.00	11.5	39,100	4520	.80	.96	1.00
	730	1550	13.6	46,300	3690	.76	.91	1.00	12.9	44,100	3940	.78	.93	1.00	12.3	41,800	4230	.80	.95	1.00	11.6	39,600	4560	.82	.97	1.00
	780	1650	13.7	46,700	3700	.78	.93	1.00	13.0	44,500	3960	.80	.95	1.00	12.4	42,300	4260	.82	.97	1.00	11.8	40,100	4590	.84	.99	1.00
67°F (19.4°C)	685	1450	14.2	48,600	3760	.58	.72	.86	13.5	46,200	4040	.59	.74	.88	12.8	43,800	4340	.60	.76	.90	12.1	41,400	4680	.61	.78	.93
	730	1550	14.4	49,000	3780	.59	.74	.88	13.7	46,700	4050	.60	.75	.90	13.0	44,200	4360	.61	.78	.92	12.3	41,800	4700	.62	.80	.95
	780	1650	14.5	49,400	3790	.60	.75	.90	13.8	47,000	4070	.61	.77	.92	13.0	44,500	4380	.62	.79	.94	12.3	42,100	4720	.64	.82	.97
71°F (21.7°C)	685	1450	15.2	51,800	3870	.43	.56	.70	14.5	49,400	4170	.43	.57	.71	13.7	46,800	4500	.44	.58	.73	13.0	44,300	4870	.44	.60	.75
	730	1550	15.3	52,200	3890	.43	.57	.71	14.6	49,700	4180	.44	.58	.73	13.8	47,200	4520	.44	.60	.75	13.1	44,600	4890	.45	.61	.77
	780	1650	15.4	52,600	3900	.44	.58	.73	14.7	50,100	4200	.44	.59	.75	13.9	47,500	4540	.45	.61	.77	13.2	44,900	4910	.45	.62	.79

NOTE — All values are gross capacities and do not include indoor coil blower motor heat deduction.

HP29–511–513 / 10HPB48 — HEATING CAPACITY — 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 (-28°C)		
		Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input
L/s	cfm	kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh	
590	1250	14.0	47,800	3580	10.7	36,600	3065	7.1	24,300	2510	5.4	18,500	2165	2.7	9,300	1625
660	1400	14.2	48,300	3545	10.9	37,100	3030	7.3	24,800	2475	5.6	19,000	2130	2.9	9,800	1590
730	1550	14.4	49,000	3520	11.1	37,800	3005	7.5	25,500	2450	5.8	19,700	2105	3.1	10,500	1565

NOTE — Heating capacities include the effect of defrost cycles in the temperature range where they occur.

HP29–511–513 / 10HPB48 — HEATING CAPACITY — CB29M–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 (-28°C)		
		Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input
L/s	cfm	kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh	
685	1450	14.2	48,500	3430	10.8	36,700	2925	7.0	24,000	2410	5.2	17,900	1975	2.7	9,100	1490
730	1550	14.3	48,800	3410	10.8	37,000	2905	7.1	24,300	2390	5.3	18,200	1955	2.8	9,400	1470
780	1650	14.4	49,200	3395	11.0	37,400	2890	7.2	24,700	2375	5.5	18,600	1940	2.9	9,800	1455

NOTE — Heating capacities include the effect of defrost cycles in the temperature range where they occur.

HP29–511–513 / 10HPB48 — HEATING PERFORMANCE CB30M–46 at 1400 cfm (660 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	3545	48,300	14.2
60	16	3430	45,900	13.5
55	13	3315	43,400	12.7
50	10	3200	41,000	12.0
47	8	3130	39,500	11.6
45	7	3030	37,100	10.9
40	4	2780	31,000	9.1
35	2	2530	24,900	7.3
30	-1	2505	24,900	7.3
25	-4	2475	24,800	7.3
20	-7	2445	24,800	7.3
17	-8	2430	24,800	7.3
15	-9	2380	23,800	7.0
10	-12	2265	21,400	6.3
5	-15	2130	19,000	5.6
0	-18	1995	16,700	4.9
-5	-21	1860	14,400	4.2
-10	-23	1725	12,100	3.5
-15	-26	1590	9,800	2.9
-20	-29	1455	7,400	2.2

*Outdoor temperature 70% relative humidity. Indoor temperature 70°F(21°C).

HP29–511–513 / 10HPB48 — HEATING PERFORMANCE CB29M–46 at 1550 cfm (730 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	3410	48,800	14.3
60	16	3290	46,200	13.5
55	13	3165	43,600	12.8
50	10	3045	41,100	12.0
47	8	2975	39,500	11.6
45	7	2905	37,000	10.8
40	4	2735	30,800	9.0
35	2	2565	24,600	7.2
30	-1	2475	24,500	7.2
25	-4	2390	24,300	7.1
20	-7	2300	24,100	7.1
17	-8	2245	24,000	7.0
15	-9	2200	23,000	6.7
10	-12	2075	20,400	6.0
5	-15	1955	18,200	5.3
0	-18	1835	16,000	4.7
-5	-21	1710	13,800	4.0
-10	-23	1590	11,600	3.4
-15	-26	1470	9,400	2.8
-20	-29	1350	7,200	2.1

*Outdoor temperature 70% relative humidity. Indoor temperature 70°F(21°C).

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

HP29–511–513 / 10HPB48 — COOLING CAPACITY — CB29M–51

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil — 85°F (29°C) Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			95°F (35°C) Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			105°F (41°C) Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			115°F (46°C) Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	615	1300	13.2	45,000	3630	.72	.86	.97	12.5	42,800	3880	.74	.88	.99	11.9	40,600	4170	.75	.90	1.00	11.3	38,400	4480	.77	.92	1.00
	685	1450	13.5	45,900	3660	.74	.89	.99	12.8	43,700	3920	.76	.91	1.00	12.1	41,400	4210	.78	.93	1.00	11.5	39,200	4530	.80	.96	1.00
	755	1600	13.7	46,600	3690	.77	.92	1.00	13.0	44,400	3950	.79	.94	1.00	12.3	42,100	4250	.81	.96	1.00	11.7	39,900	4580	.83	.98	1.00
67°F (19.4°C)	615	1300	14.1	48,000	3730	.57	.70	.82	13.4	45,700	4010	.57	.71	.84	12.7	43,300	4310	.58	.73	.87	12.0	40,900	4650	.59	.75	.89
	685	1450	14.3	48,700	3760	.58	.72	.86	13.6	46,400	4040	.59	.74	.88	12.9	43,900	4350	.60	.76	.90	12.2	41,500	4690	.61	.78	.93
	755	1600	14.5	49,400	3780	.59	.74	.89	13.8	47,000	4060	.60	.76	.91	13.0	44,500	4380	.62	.78	.93	12.3	42,000	4720	.63	.81	.96
71°F (21.7°C)	615	1300	15.0	51,200	3840	.43	.55	.67	14.3	48,800	4140	.43	.56	.68	13.6	46,300	4470	.43	.57	.70	12.8	43,800	4840	.43	.58	.72
	685	1450	15.2	52,000	3870	.43	.56	.69	14.5	49,500	4170	.43	.57	.71	13.8	47,000	4510	.44	.58	.73	13.0	44,400	4880	.44	.60	.75
	755	1600	15.4	52,600	3890	.43	.58	.72	14.7	50,100	4190	.44	.59	.74	13.9	47,500	4540	.44	.60	.76	13.2	44,900	4920	.45	.62	.78

NOTE — All values are gross capacities and do not include indoor coil blower motor heat deduction.

HP29–511–513 / 10HPB48 — COOLING CAPACITY — CB29M–65

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil — 85°F (29°C) Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			95°F (35°C) Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			105°F (41°C) Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			115°F (46°C) Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	660	1400	13.5	45,900	3650	.74	.88	.99	12.8	43,700	3900	.75	.90	1.00	12.2	41,500	4190	.77	.92	1.00	11.5	39,200	4500	.79	.95	1.00
	755	1600	13.8	47,000	3680	.77	.92	1.00	13.1	44,700	3940	.79	.94	1.00	12.4	42,400	4240	.81	.96	1.00	11.8	40,200	4570	.83	.98	1.00
	850	1800	14.0	47,900	3710	.80	.95	1.00	13.4	45,600	3980	.82	.97	1.00	12.7	43,400	4290	.84	.99	1.00	12.1	41,200	4640	.87	1.00	1.00
67°F (19.4°C)	660	1400	14.3	48,900	3750	.57	.71	.84	13.6	46,500	4020	.58	.73	.87	12.9	44,100	4330	.59	.75	.89	12.2	41,600	4670	.61	.77	.91
	755	1600	14.6	49,800	3780	.59	.74	.89	13.9	47,300	4060	.60	.76	.91	13.1	44,800	4370	.62	.78	.93	12.4	42,300	4710	.63	.81	.96
	850	1800	14.8	50,500	3800	.61	.78	.92	14.1	48,000	4080	.62	.80	.95	13.3	45,500	4400	.64	.82	.97	12.6	42,900	4750	.65	.84	.99
71°F (21.7°C)	660	1400	15.3	52,100	3850	.43	.56	.69	14.6	49,700	4150	.43	.57	.70	13.8	47,100	4490	.43	.58	.72	13.0	44,500	4860	.44	.59	.74
	755	1600	15.5	53,000	3880	.43	.58	.72	14.8	50,500	4190	.44	.59	.74	14.0	47,900	4530	.44	.60	.76	13.2	45,200	4910	.45	.62	.78
	850	1800	15.7	53,700	3900	.44	.60	.75	15.0	51,100	4210	.45	.61	.77	14.2	48,400	4560	.45	.62	.80	13.4	45,700	4940	.46	.64	.82

NOTE — All values are gross capacities and do not include indoor coil blower motor heat deduction.

HP29–511–513 / 10HPB48 — HEATING CAPACITY — CB29M–51

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil — 65°F (18°C) Total Heating Capacity		Comp. Motor Watts Input	45°F (7°C) Total Heating Capacity		Comp. Motor Watts Input	25°F (-4°C) Total Heating Capacity		Comp. Motor Watts Input	5°F (-15°C) Total Heating Capacity		Comp. Motor Watts Input	-15°F (-28°C) Total Heating Capacity		Comp. Motor Watts Input
L/s	cfm	kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh	
615	1300	14.2	48,300	3465	10.7	36,500	2955	7.0	23,800	2425	5.2	17,700	2010	2.6	8,900	1515
685	1450	14.3	48,800	3430	10.8	37,000	2920	7.1	24,300	2390	5.3	18,200	1975	2.8	9,400	1480
755	1600	14.5	49,500	3405	11.0	37,700	2895	7.3	25,000	2365	5.5	18,900	1950	3.0	10,100	1455

NOTE — Heating capacities include the effect of defrost cycles in the temperature range where they occur.

HP29–511–513 / 10HPB48 — HEATING CAPACITY — CB29M–65

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil — 65°F (18°C) Total Heating Capacity		Comp. Motor Watts Input	45°F (7°C) Total Heating Capacity		Comp. Motor Watts Input	25°F (-4°C) Total Heating Capacity		Comp. Motor Watts Input	5°F (-15°C) Total Heating Capacity		Comp. Motor Watts Input	-15°F (-28°C) Total Heating Capacity		Comp. Motor Watts Input
L/s	cfm	kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh	
660	1400	14.3	48,700	3485	10.8	36,700	2955	6.9	23,700	2405	5.1	17,500	1985	2.5	8,700	1505
755	1600	14.5	49,500	3450	11.0	37,500	2920	7.2	24,500	2370	5.4	18,300	1950	2.8	9,500	1470
850	1800	14.8	50,400	3425	11.3	38,400	2895	7.4	25,400	2345	5.6	19,200	1925	3.0	10,400	1445

NOTE — Heating capacities include the effect of defrost cycles in the temperature range where they occur.

HP29–511–513 / 10HPB48 HEATING PERFORMANCE CB29M–51 at 1450 cfm (685 L/s)

*Outdoor Temperature °F	°C	Compressor Motor Watts Input	Total Output Btuh	kW
65	18	3430	48,800	14.3
60	16	3310	46,200	13.5
55	13	3185	43,600	12.8
50	10	3065	41,100	12.0
47	8	2995	39,500	11.6
45	7	2920	37,000	10.8
40	4	2735	30,800	9.0
35	2	2550	24,600	7.2
30	-1	2470	24,500	7.2
25	-4	2390	24,300	7.1
20	-7	2315	24,100	7.1
17	-8	2265	24,000	7.0
15	-9	2220	23,000	6.7
10	-12	2095	20,400	6.0
5	-15	1975	18,200	5.3
0	-18	1850	16,000	4.7
-5	-21	1730	13,800	4.0
-10	-23	1605	11,600	3.4
-15	-26	1480	9,400	2.8
-20	-29	1360	7,200	2.1

*Outdoor temperature 70% relative humidity. Indoor temperature 70°F (21°C).

HP29–511–513 / 10HPB48 — HEATING PERFORMANCE CB29M–65 at 1600 cfm (755 L/s)

*Outdoor Temperature °F	°C	Compressor Motor Watts Input	Total Output Btuh	kW
65	18	3450	49,500	14.5
60	16	3325	46,800	13.7
55	13	3200	44,200	13.0
50	10	3075	41,600	12.2
47	8	3000	40,000	11.7
45	7	2920	37,500	11.0
40	4	2725	31,200	9.1
35	2	2525	24,900	7.3
30	-1	2450	24,700	7.2
25	-4	2370	24,500	7.2
20	-7	2295	24,300	7.1
17	-8	2250	24,200	7.1
15	-9	2200	23,100	6.8
10	-12	2075	20,500	6.0
5	-15	1950	18,300	5.4
0	-18	1830	16,100	4.7
-5	-21	1710	13,900	4.1
-10	-23	1590	11,700	3.4
-15	-26	1470	9,500	2.8
-20	-29	1350	7,300	2.1

*Outdoor temperature 70% relative humidity. Indoor temperature 70°F (21°C).

RATINGS

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

HP29–511–513 ONLY — COOLING CAPACITY — CB31MV–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		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	670	1425	13.7	46,600	3670	.75	.89	1.00	13.0	44,200	3930	.76	.91	1.00	12.3	41,900	4220	.78	.94	1.00	11.6	39,600	4540	.81	.96	1.00
	765	1625	14.0	47,600	3700	.78	.93	1.00	13.2	45,200	3970	.79	.95	1.00	12.5	42,800	4270	.82	.97	1.00	11.9	40,500	4610	.84	.99	1.00
	850	1805	14.2	48,400	3730	.80	.96	1.00	13.5	46,100	4000	.82	.98	1.00	12.8	43,800	4320	.85	1.00	1.00	12.2	41,600	4680	.87	1.00	1.00
67°F (19.4°C)	670	1425	14.5	49,600	3770	.58	.72	.86	13.8	47,200	4050	.59	.74	.88	13.1	44,600	4370	.60	.76	.90	12.3	42,100	4710	.61	.78	.93
	765	1625	14.8	50,500	3800	.60	.75	.90	14.0	47,900	4090	.61	.77	.92	13.3	45,300	4410	.62	.79	.94	12.5	42,700	4760	.64	.82	.97
	850	1805	15.0	51,200	3820	.61	.78	.93	14.2	48,600	4110	.63	.80	.95	13.5	46,000	4440	.64	.82	.98	12.7	43,300	4800	.66	.85	1.00
71°F (21.7°C)	670	1425	15.6	53,100	3890	.43	.56	.69	14.8	50,500	4190	.43	.57	.71	14.0	47,800	4540	.44	.58	.73	13.2	45,100	4920	.44	.60	.75
	765	1625	15.8	53,900	3910	.44	.58	.73	15.0	51,200	4220	.44	.59	.74	14.2	48,500	4580	.44	.61	.77	13.4	45,700	4960	.45	.62	.79
	850	1805	16.0	54,600	3930	.44	.60	.76	15.2	51,900	4250	.45	.61	.78	14.4	49,000	4610	.45	.63	.80	13.5	46,200	5000	.46	.65	.83

NOTE — All values are gross capacities and do not include indoor coil blower motor heat deduction.

HP29–511–513 / 10HPB48 — COOLING CAPACITY — 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		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	660	1400	13.7	46,600	3660	.74	.88	.99	13.0	44,300	3920	.76	.90	1.00	12.3	41,900	4210	.77	.93	1.00	11.6	39,600	4530	.80	.95	1.00
	755	1600	14.0	47,700	3690	.77	.92	1.00	13.3	45,300	3960	.79	.95	1.00	12.6	43,000	4260	.81	.97	1.00	11.9	40,700	4600	.84	.99	1.00
	850	1800	14.3	48,700	3730	.80	.96	1.00	13.6	46,300	4000	.82	.98	1.00	12.9	44,000	4320	.85	1.00	1.00	12.3	41,800	4680	.87	1.00	1.00
67°F (19.4°C)	660	1400	14.6	49,700	3760	.57	.71	.85	13.8	47,200	4040	.58	.73	.87	13.1	44,700	4360	.59	.75	.89	12.3	42,100	4700	.61	.77	.92
	755	1600	14.9	50,700	3790	.59	.75	.89	14.1	48,100	4080	.60	.76	.91	13.3	45,500	4400	.62	.79	.94	12.6	42,900	4750	.63	.81	.97
	850	1800	15.1	51,500	3820	.61	.78	.93	14.3	48,900	4110	.63	.80	.95	13.5	46,200	4440	.64	.82	.98	12.7	43,500	4800	.66	.85	1.00
71°F (21.7°C)	660	1400	15.6	53,200	3870	.43	.56	.69	14.8	50,600	4180	.43	.57	.70	14.0	47,900	4530	.44	.58	.72	13.2	45,200	4910	.44	.59	.74
	755	1600	15.9	54,100	3900	.44	.58	.72	15.1	51,500	4220	.44	.59	.74	14.3	48,700	4570	.44	.60	.76	13.5	45,900	4960	.45	.62	.79
	850	1800	16.1	54,900	3930	.44	.60	.76	15.3	52,200	4250	.45	.61	.78	14.5	49,400	4610	.45	.63	.80	13.6	46,500	5000	.46	.65	.83

NOTE — All values are gross capacities and do not include indoor coil blower motor heat deduction.

HP29–511–513 ONLY — HEATING CAPACITY — CB31MV–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 (-28°C)		
		Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input
L/s	cfm	kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh	
675	1425	15.2	52,000	3630	11.7	39,800	3095	7.8	26,500	2535	5.9	20,200	2130	3.4	11,600	1640
765	1625	14.6	49,700	3465	11.0	37,500	2930	7.1	24,200	2370	5.2	17,900	1965	2.7	9,300	1475
850	1805	15.7	53,600	3570	12.1	41,400	3035	8.2	28,100	2475	6.4	21,800	2070	3.9	13,200	1580

NOTE — Heating capacities include the effect of defrost cycles in the temperature range where they occur.

HP29–511–513 / 10HPB48 — HEATING CAPACITY — 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 (-28°C)		
		Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input
L/s	cfm	kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh	
660	1400	14.4	49,000	3485	10.8	36,900	2965	7.0	23,800	2415	5.1	17,500	2035	2.6	8,800	1535
755	1600	14.5	49,600	3445	11.0	37,500	2925	7.2	24,400	2375	5.3	18,100	1995	2.8	9,400	1495
850	1800	14.7	50,300	3420	11.2	38,200	2900	7.4	25,100	2350	5.5	18,800	1970	3.0	10,100	1470

NOTE — Heating capacities include the effect of defrost cycles in the temperature range where they occur.

HP29–511–513 ONLY — HEATING PERFORMANCE CB31MV–51 at 1625 cfm (765 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	3465	49,700	14.6
60	16	3340	47,000	13.8
55	13	3215	44,300	13.0
50	10	3085	41,600	12.2
47	8	3010	40,000	11.7
45	7	2930	37,500	11.0
40	4	2715	31,100	9.1
35	2	2505	24,800	7.3
30	-1	2440	24,500	7.2
25	-4	2370	24,200	7.1
20	-7	2300	24,000	7.0
17	-8	2260	23,800	7.0
15	-9	2210	22,700	6.7
10	-12	2085	20,000	5.9
5	-15	1965	17,900	5.2
0	-18	1840	15,700	4.6
-5	-21	1720	13,600	4.0
-10	-23	1600	11,400	3.3
-15	-26	1475	9,300	2.7
-20	-29	1355	7,100	2.1

*Outdoor temperature 70% relative humidity. Indoor temperature 70°F (21°C).

HP29–511–513 / 10HPB48 — HEATING PERFORMANCE CB30M–51 at 1600 cfm (755 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	3445	49,600	14.5
60	16	3325	46,900	13.7
55	13	3205	44,300	13.0
50	10	3085	41,600	12.2
47	8	3010	40,000	11.7
45	7	2925	37,500	11.0
40	4	2705	31,200	9.1
35	2	2490	24,900	7.3
30	-1	2430	24,600	7.2
25	-4	2375	24,400	7.2
20	-7	2320	24,100	7.1
17	-8	2285	24,000	7.0
15	-9	2240	22,900	6.7
10	-12	2120	20,300	5.9
5	-15	1995	18,100	5.3
0	-18	1870	15,900	4.7
-5	-21	1745	13,700	4.0
-10	-23	1620	11,600	3.4
-15	-26	1495	9,400	2.8
-20	-29	1370	7,200	2.1

*Outdoor temperature 70% relative humidity. Indoor temperature 70°F (21°C).

RATINGS

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

HP29–511–513 / 10HPB48 — COOLING CAPACITY — 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		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	660	1400	13.8	47,100	3710	.74	.88	.99	13.1	44,700	3970	.76	.90	1.00	12.4	42,300	4270	.77	.93	1.00	11.7	40,000	4590	.80	.95	1.00
	755	1600	14.1	48,200	3750	.77	.92	1.00	13.4	45,800	4020	.79	.94	1.00	12.7	43,400	4320	.81	.97	1.00	12.0	41,100	4670	.83	.99	1.00
	850	1800	14.4	49,200	3780	.80	.96	1.00	13.7	46,800	4060	.82	.98	1.00	13.0	44,500	4380	.85	1.00	1.00	12.4	42,200	4750	.87	1.00	1.00
67°F (19.4°C)	660	1400	14.7	50,200	3820	.57	.71	.85	14.0	47,700	4100	.58	.73	.87	13.2	45,100	4420	.59	.75	.89	12.5	42,600	4770	.61	.77	.92
	755	1600	15.0	51,200	3850	.59	.75	.89	14.2	48,600	4140	.60	.76	.91	13.5	46,000	4470	.62	.79	.94	12.7	43,300	4820	.63	.81	.96
	850	1800	15.2	52,000	3870	.61	.78	.93	14.5	49,400	4170	.63	.80	.95	13.7	46,700	4510	.64	.82	.98	12.9	44,000	4870	.66	.85	1.00
71°F (21.7°C)	660	1400	15.7	53,700	3930	.43	.56	.69	15.0	51,100	4240	.43	.57	.70	14.2	48,400	4600	.43	.58	.72	13.4	45,600	4980	.44	.59	.74
	755	1600	16.0	54,700	3960	.43	.58	.72	15.2	52,000	4280	.44	.59	.74	14.4	49,200	4640	.44	.60	.76	13.6	46,400	5030	.45	.62	.78
	850	1800	16.2	55,400	3990	.44	.60	.75	15.4	52,700	4310	.45	.61	.78	14.6	49,800	4680	.45	.63	.80	13.8	47,000	5070	.46	.64	.83

NOTE — All values are gross capacities and do not include indoor coil blower motor heat deduction.

HP29–511–513 ONLY — COOLING CAPACITY — CB31MV–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		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	670	1425	14.0	47,600	3710	.75	.89	1.00	13.2	45,200	3980	.76	.91	1.00	12.5	42,800	4270	.78	.94	1.00	11.8	40,400	4600	.81	.96	1.00
	765	1625	14.2	48,600	3750	.78	.93	1.00	13.5	46,100	4020	.79	.95	1.00	12.8	43,800	4320	.82	.97	1.00	12.1	41,400	4670	.84	.99	1.00
	850	1805	14.5	49,500	3780	.80	.96	1.00	13.8	47,100	4060	.82	.98	1.00	13.1	44,700	4380	.85	1.00	1.00	12.5	42,500	4740	.87	1.00	1.00
67°F (19.4°C)	670	1425	14.9	50,700	3820	.58	.72	.86	14.1	48,100	4100	.59	.74	.88	13.4	45,600	4420	.60	.76	.90	12.6	42,900	4770	.61	.78	.93
	765	1625	15.1	51,600	3850	.60	.75	.90	14.3	48,900	4140	.61	.77	.92	13.6	46,300	4460	.62	.79	.94	12.8	43,600	4820	.64	.82	.97
	850	1805	15.3	52,300	3870	.61	.78	.93	14.5	49,600	4170	.63	.80	.95	13.7	46,900	4500	.64	.82	.98	13.0	44,200	4860	.66	.85	1.00
71°F (21.7°C)	670	1425	15.9	54,200	3940	.43	.56	.69	15.1	51,500	4250	.43	.57	.71	14.3	48,800	4600	.44	.58	.73	13.5	46,000	4980	.44	.60	.75
	765	1625	16.1	55,000	3960	.44	.58	.73	15.3	52,300	4280	.44	.59	.74	14.5	49,500	4640	.44	.61	.77	13.7	46,700	5030	.45	.62	.79
	850	1805	16.3	55,700	3980	.44	.60	.76	15.5	52,900	4310	.45	.61	.78	14.7	50,100	4670	.45	.63	.80	13.8	47,200	5060	.46	.65	.83

NOTE — All values are gross capacities and do not include indoor coil blower motor heat deduction.

HP29–511–513 / 10HPB48 — HEATING CAPACITY — 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 (-28°C)		
		Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input
L/s	cfm	kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh	
660	1400	14.4	49,000	3455	10.8	36,900	2940	7.0	23,800	2400	5.1	17,500	2005	2.6	8,800	1515
755	1600	14.5	49,600	3415	11.0	37,500	2900	7.2	24,400	2360	5.3	18,100	1965	2.8	9,400	1475
850	1800	14.7	50,200	3385	11.2	38,100	2870	7.3	25,000	2330	5.5	18,700	1935	2.9	10,000	1445

NOTE — Heating capacities include the effect of defrost cycles in the temperature range where they occur.

HP29–511–513 ONLY — HEATING CAPACITY — CB31MV–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 (-28°C)		
		Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input
L/s	cfm	kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh	
675	1425	14.2	48,500	3440	10.7	36,400	2915	6.8	23,300	2370	5.0	17,000	1975	2.5	8,400	1490
765	1625	14.5	49,400	3410	10.9	37,300	2885	7.1	24,200	2340	5.2	17,900	1945	2.7	9,300	1460
850	1805	14.7	50,000	3380	11.1	37,900	2855	7.3	24,800	2310	5.4	18,500	1915	2.9	9,900	1430

NOTE — Heating capacities include the effect of defrost cycles in the temperature range where they occur.

HP29–511–513 / 10HPB48 — HEATING PERFORMANCE CB30M–65 at 1600 cfm (755 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	3415	49,600	14.5
60	16	3295	46,900	13.7
55	13	3175	44,300	13.0
50	10	3055	41,600	12.2
47	8	2980	40,000	11.7
45	7	2900	37,500	11.0
40	4	2695	31,200	9.1
35	2	2490	24,900	7.3
30	-1	2425	24,600	7.2
25	-4	2360	24,400	7.2
20	-7	2295	24,100	7.1
17	-8	2255	24,000	7.0
15	-9	2210	22,900	6.7
10	-12	2090	20,300	5.9
5	-15	1965	18,100	5.3
0	-18	1845	15,900	4.7
-5	-21	1720	13,700	4.0
-10	-23	1600	11,600	3.4
-15	-26	1475	9,400	2.8
-20	-29	1355	7,200	2.1

*Outdoor temperature 70% relative humidity. Indoor temperature 70°F(21°C).

HP29–511–513 ONLY — HEATING PERFORMANCE CB31MV–65 at 1625 cfm (765 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	3410	49,400	14.5
60	16	3290	46,700	13.7
55	13	3165	44,100	12.9
50	10	3045	41,400	12.1
47	8	2970	39,800	11.7
45	7	2885	37,300	10.9
40	4	2680	31,000	9.1
35	2	2470	24,700	7.2
30	-1	2405	24,500	7.2
25	-4	2340	24,200	7.1
20	-7	2275	24,000	7.0
17	-8	2235	23,800	7.0
15	-9	2185	22,700	6.7
10	-12	2065	20,100	5.9
5	-15	1945	17,900	5.2
0	-18	1825	15,800	4.6
-5	-21	1700	13,600	4.0
-10	-23	1580	11,400	3.3
-15	-26	1460	9,300	2.7
-20	-29	1340	7,100	2.1

*Outdoor temperature 70% relative humidity. Indoor temperature 70°F(21°C).

RATINGS

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

HP29-511-513 / 10HPB48 — COOLING CAPACITY — C26-51(FC)

Enter-ing Wet Bulb Temper-ature	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		Com-pressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Com-pressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Com-pressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Com-pressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	720	1525	14.3	48,900	3660	.76	.91	1.00	13.6	46,500	3920	.78	.93	1.00	12.9	44,100	4210	.80	.96	1.00	12.2	41,700	4540	.83	.98	1.00
	815	1725	14.7	50,000	3690	.80	.95	1.00	14.0	47,600	3960	.82	.97	1.00	13.2	45,200	4270	.84	.99	1.00	12.6	42,900	4620	.87	1.00	1.00
	910	1925	14.9	51,000	3720	.83	.98	1.00	14.2	48,600	4010	.85	1.00	1.00	13.6	46,400	4330	.88	1.00	1.00	12.9	44,100	4690	.90	1.00	1.00
67°F (19.4°C)	720	1525	15.2	51,900	3760	.59	.74	.88	14.4	49,300	4030	.60	.76	.90	13.7	46,700	4350	.61	.78	.93	12.9	44,000	4690	.63	.80	.95
	815	1725	15.5	52,800	3780	.61	.77	.92	14.7	50,100	4070	.62	.79	.94	13.9	47,500	4390	.64	.82	.97	13.1	44,800	4740	.65	.84	.99
	910	1925	15.7	53,600	3800	.63	.81	.96	14.9	50,800	4100	.64	.83	.98	14.1	48,100	4420	.66	.85	1.00	13.3	45,400	4780	.68	.88	1.00
71°F (21.7°C)	720	1525	16.2	55,400	3860	.43	.57	.71	15.5	52,800	4170	.44	.59	.73	14.7	50,000	4510	.44	.60	.75	13.8	47,100	4890	.45	.61	.78
	815	1725	16.5	56,300	3890	.44	.60	.75	15.7	53,500	4200	.45	.61	.77	14.8	50,600	4550	.45	.62	.79	14.0	47,800	4930	.46	.64	.82
	910	1925	16.7	57,000	3910	.45	.62	.78	15.9	54,100	4230	.45	.63	.81	15.0	51,200	4580	.46	.65	.83	14.1	48,200	4970	.47	.67	.86

NOTE — All values are gross capacities and do not include indoor coil blower motor heat deduction.

HP29-511-513 / 10HPB48 — COOLING CAPACITY — CR26-51(N)(W)

Enter-ing Wet Bulb Temper-ature	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		Com-pressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Com-pressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Com-pressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Com-pressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	615	1300	13.1	44,800	3560	.73	.86	.98	12.5	42,600	3800	.74	.88	.99	11.8	40,400	4070	.76	.91	1.00	11.2	38,200	4370	.78	.93	1.00
	710	1500	13.5	46,000	3600	.76	.90	1.00	12.8	43,700	3850	.78	.93	1.00	12.2	41,500	4130	.80	.95	1.00	11.5	39,200	4440	.82	.97	1.00
	800	1700	13.7	46,900	3630	.79	.94	1.00	13.1	44,700	3890	.81	.96	1.00	12.5	42,500	4180	.83	.98	1.00	11.8	40,200	4510	.86	1.00	1.00
67°F (19.4°C)	615	1300	14.0	47,800	3660	.57	.70	.83	13.3	45,500	3920	.58	.71	.85	12.6	43,100	4220	.59	.73	.87	11.9	40,700	4540	.60	.75	.90
	710	1500	14.3	48,800	3690	.59	.73	.87	13.6	46,400	3960	.60	.75	.89	12.9	44,000	4260	.61	.77	.92	12.2	41,500	4590	.62	.79	.94
	800	1700	14.5	49,600	3720	.60	.77	.91	13.8	47,200	3990	.62	.78	.93	13.1	44,700	4300	.63	.81	.96	12.4	42,200	4640	.65	.83	.98
71°F (21.7°C)	615	1300	15.0	51,100	3770	.43	.55	.67	14.3	48,700	4050	.43	.56	.69	13.5	46,200	4380	.43	.57	.71	12.8	43,700	4730	.44	.58	.73
	710	1500	15.3	52,100	3800	.43	.57	.71	14.5	49,600	4090	.44	.58	.73	13.8	47,000	4420	.44	.59	.75	13.0	44,400	4790	.45	.61	.77
	800	1700	15.5	52,900	3820	.44	.59	.74	14.8	50,400	4120	.44	.60	.76	14.0	47,700	4460	.45	.62	.78	13.2	45,000	4830	.45	.63	.81

NOTE — All values are gross capacities and do not include indoor coil blower motor heat deduction.

HP29-511-513 / 10HPB48 — HEATING CAPACITY — C26-51(FC)

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 (-28°C)		
		Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input
L/s	cfm	kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh	
720	1525	14.4	49,100	3345	10.9	37,100	2910	7.1	24,100	2510	5.4	18,300	1910	2.7	9100	1445
815	1725	14.5	49,500	3310	11.0	37,500	2880	7.2	24,500	2475	5.5	18,700	1875	2.8	9600	1410
910	1925	14.6	49,900	3275	11.1	37,900	2845	7.3	25,000	2445	5.6	19,100	1845	2.9	10,000	1375

NOTE — Heating capacities include the effect of defrost cycles in the temperature range where they occur.

HP29-511-513 / 10HPB48 — HEATING CAPACITY — CR26-51(N)(W)

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 (-28°C)		
		Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input
L/s	cfm	kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh	
615	1300	14.2	48,500	3405	10.7	36,600	2880	6.9	23,700	2340	5.3	18,000	1925	2.6	9000	1460
705	1500	14.3	48,900	3365	10.8	37,000	2840	7.1	24,200	2300	5.4	18,400	1885	2.8	9400	1420
800	1700	14.4	49,300	3325	11.0	37,400	2800	7.2	24,600	2260	5.5	18,800	1845	2.9	9800	1380

NOTE — Heating capacities include the effect of defrost cycles in the temperature range where they occur.

HP29-511-513 / 10HPB48 — HEATING PERFORMANCE C26-51(FC) at 1725 cfm (815 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	3310	49,500	14.5
60	16	3190	46,800	13.7
55	13	3070	44,200	13.0
50	10	2950	41,600	12.2
47	8	2880	40,000	11.7
45	7	2880	37,500	11.0
40	4	2880	31,200	9.1
35	2	2880	24,900	7.3
30	-1	2675	24,700	7.2
25	-4	2475	24,500	7.2
20	-7	2275	24,300	7.1
17	-8	2155	24,200	7.1
15	-9	2110	23,300	6.8
10	-12	1995	21,000	6.2
5	-15	1875	18,700	5.5
0	-18	1760	16,400	4.8
-5	-21	1645	14,100	4.1
-10	-23	1525	11,900	3.5
-15	-26	1410	9600	2.8
-20	-29	1295	7300	2.1

*Outdoor temperature 70% relative humidity. Indoor temperature 70°F(21°C).

HP29-511-513 / 10HPB48 — HEATING PERFORMANCE CR26-51(N)(W) at 1500 cfm (705 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	3365	48,900	14.3
60	16	3240	46,300	13.6
55	13	3115	43,700	12.8
50	10	2990	41,100	12.0
47	8	2915	39,500	11.6
45	7	2840	37,000	10.8
40	4	2650	30,800	9.0
35	2	2460	24,600	7.2
30	-1	2380	24,400	7.2
25	-4	2300	24,200	7.1
20	-7	2215	23,900	7.0
17	-8	2170	23,800	7.0
15	-9	2120	22,900	6.7
10	-12	2005	20,700	6.1
5	-15	1885	18,400	5.4
0	-18	1770	16,200	4.7
-5	-21	1655	13,900	4.1
-10	-23	1535	11,700	3.4
-15	-26	1420	9400	2.8
-20	-29	1300	7100	2.1

*Outdoor temperature 70% relative humidity. Indoor temperature 70°F(21°C).

RATINGS

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

HP29–511–513 / 10HPB48 — COOLING CAPACITY — CH23–51

Entering Wet Bulb Temperature	Total Air Volume L/s	Total Air Volume cfm	85°F (29°C) Total Cooling Capacity kW	85°F (29°C) Total Cooling Capacity Btuh	85°F (29°C) Compressor Motor Watts Input	85°F (29°C) S/T Dry Bulb 75°F 24°C	85°F (29°C) S/T Dry Bulb 80°F 27°C	85°F (29°C) S/T Dry Bulb 85°F 29°C	95°F (35°C) Total Cooling Capacity kW	95°F (35°C) Total Cooling Capacity Btuh	95°F (35°C) Compressor Motor Watts Input	95°F (35°C) S/T Dry Bulb 75°F 24°C	95°F (35°C) S/T Dry Bulb 80°F 27°C	95°F (35°C) S/T Dry Bulb 85°F 29°C	105°F (41°C) Total Cooling Capacity kW	105°F (41°C) Total Cooling Capacity Btuh	105°F (41°C) Compressor Motor Watts Input	105°F (41°C) S/T Dry Bulb 75°F 24°C	105°F (41°C) S/T Dry Bulb 80°F 27°C	105°F (41°C) S/T Dry Bulb 85°F 29°C	115°F (46°C) Total Cooling Capacity kW	115°F (46°C) Total Cooling Capacity Btuh	115°F (46°C) Compressor Motor Watts Input	115°F (46°C) S/T Dry Bulb 75°F 24°C	115°F (46°C) S/T Dry Bulb 80°F 27°C	115°F (46°C) S/T Dry Bulb 85°F 29°C
63°F (17.2°C)	660	1400	13.2	45,200	3640	.74	.88	.99	12.6	43,100	3900	.76	.91	1.00	12.0	40,900	4180	.78	.93	1.00	11.3	38,700	4500	.80	.95	1.00
	755	1600	13.6	46,300	3680	.78	.92	1.00	12.9	44,100	3940	.79	.95	1.00	12.3	41,900	4240	.82	.97	1.00	11.6	39,700	4570	.84	.99	1.00
	850	1800	13.8	47,200	3710	.81	.96	1.00	13.2	45,000	3980	.83	.98	1.00	12.5	42,800	4290	.85	.99	1.00	11.9	40,700	4640	.88	1.00	1.00
67°F (19.4°C)	660	1400	14.1	48,000	3740	.58	.72	.85	13.4	45,700	4010	.59	.73	.87	12.7	43,300	4320	.60	.75	.90	12.0	40,900	4650	.61	.77	.92
	755	1600	14.3	48,900	3770	.60	.75	.89	13.6	46,500	4050	.61	.77	.92	12.9	44,100	4360	.62	.79	.94	12.2	41,600	4700	.64	.81	.96
	850	1800	14.5	49,600	3790	.62	.79	.93	13.8	47,200	4070	.63	.81	.95	13.1	44,700	4390	.64	.83	.97	12.4	42,200	4740	.66	.85	.99
71°F (21.7°C)	660	1400	15.0	51,200	3850	.43	.56	.69	14.3	48,800	4140	.43	.57	.71	13.5	46,200	4480	.44	.58	.73	12.8	43,700	4840	.44	.60	.75
	755	1600	15.2	52,000	3870	.44	.58	.73	14.5	49,500	4170	.44	.59	.75	13.8	47,000	4510	.45	.61	.77	13.0	44,400	4890	.45	.62	.79
	850	1800	15.4	52,700	3890	.44	.60	.76	14.7	50,200	4200	.45	.62	.78	13.9	47,500	4550	.45	.63	.81	13.2	44,900	4920	.46	.65	.83

Outdoor Air Temperature Entering Outdoor Coil. Sensible To Total Ratio (S/T).

NOTE — All values are gross capacities and do not include indoor coil blower motor heat deduction.

HP29–651–653 / 10HPB60 — COOLING CAPACITY — CB29M–51

Entering Wet Bulb Temperature	Total Air Volume L/s	Total Air Volume cfm	85°F (29°C) Total Cooling Capacity kW	85°F (29°C) Total Cooling Capacity Btuh	85°F (29°C) Compressor Motor Watts Input	85°F (29°C) S/T Dry Bulb 75°F 24°C	85°F (29°C) S/T Dry Bulb 80°F 27°C	85°F (29°C) S/T Dry Bulb 85°F 29°C	95°F (35°C) Total Cooling Capacity kW	95°F (35°C) Total Cooling Capacity Btuh	95°F (35°C) Compressor Motor Watts Input	95°F (35°C) S/T Dry Bulb 75°F 24°C	95°F (35°C) S/T Dry Bulb 80°F 27°C	95°F (35°C) S/T Dry Bulb 85°F 29°C	105°F (41°C) Total Cooling Capacity kW	105°F (41°C) Total Cooling Capacity Btuh	105°F (41°C) Compressor Motor Watts Input	105°F (41°C) S/T Dry Bulb 75°F 24°C	105°F (41°C) S/T Dry Bulb 80°F 27°C	105°F (41°C) S/T Dry Bulb 85°F 29°C	115°F (46°C) Total Cooling Capacity kW	115°F (46°C) Total Cooling Capacity Btuh	115°F (46°C) Compressor Motor Watts Input	115°F (46°C) S/T Dry Bulb 75°F 24°C	115°F (46°C) S/T Dry Bulb 80°F 27°C	115°F (46°C) S/T Dry Bulb 85°F 29°C
63°F (17.2°C)	825	1750	16.6	56,700	4720	.73	.87	.98	16.0	54,700	5330	.74	.89	.99	15.4	52,600	6040	.76	.90	1.00	14.7	50,300	6840	.77	.92	1.00
	850	1800	16.7	56,900	4730	.74	.88	.99	16.1	54,900	5340	.75	.89	1.00	15.5	52,800	6050	.76	.91	1.00	14.8	50,500	6840	.78	.93	1.00
	875	1850	16.8	57,200	4730	.74	.89	.99	16.1	55,100	5350	.76	.90	1.00	15.5	53,000	6060	.77	.92	1.00	14.9	50,700	6850	.79	.94	1.00
67°F (19.4°C)	825	1750	17.6	60,000	4790	.57	.71	.84	17.0	57,900	5410	.58	.72	.85	16.3	55,600	6130	.59	.73	.87	15.6	53,200	6930	.59	.75	.89
	850	1800	17.6	60,200	4800	.58	.71	.85	17.0	58,100	5420	.58	.73	.86	16.4	55,800	6130	.59	.74	.88	15.6	53,300	6940	.60	.76	.90
	875	1850	17.7	60,500	4800	.58	.72	.86	17.1	58,300	5420	.59	.73	.87	16.4	56,000	6140	.59	.75	.89	15.7	53,500	6950	.60	.76	.91
71°F (21.7°C)	825	1750	18.7	63,800	4860	.43	.56	.68	18.0	61,500	5500	.43	.56	.70	17.3	59,100	6230	.43	.57	.71	16.6	56,500	7050	.44	.58	.72
	850	1800	18.8	64,000	4870	.43	.56	.69	18.1	61,700	5510	.43	.57	.70	17.4	59,300	6230	.43	.58	.72	16.6	56,700	7060	.44	.59	.73
	875	1850	18.8	64,200	4880	.43	.56	.70	18.1	61,900	5510	.43	.57	.71	17.4	59,500	6240	.44	.58	.72	16.7	56,900	7070	.44	.59	.74

Outdoor Air Temperature Entering Outdoor Coil. Sensible To Total Ratio (S/T).

NOTE — All values are gross capacities and do not include indoor coil blower motor heat deduction.

HP29–511–513 / 10HPB48 — HEATING CAPACITY — CH23–51

Indoor Coil Air Volume 70°F db (21°C db) L/s	cfm	65°F (18°C) Total Heating Capacity kW	65°F (18°C) Btuh	65°F (18°C) Comp. Motor Watts Input	45°F (7°C) Total Heating Capacity kW	45°F (7°C) Btuh	45°F (7°C) Comp. Motor Watts Input	25°F (-4°C) Total Heating Capacity kW	25°F (-4°C) Btuh	25°F (-4°C) Comp. Motor Watts Input	5°F (-15°C) Total Heating Capacity kW	5°F (-15°C) Btuh	5°F (-15°C) Comp. Motor Watts Input	-15°F (-28°C) Total Heating Capacity kW	-15°F (-28°C) Btuh	-15°F (-28°C) Comp. Motor Watts Input
660	1400	14.1	48,200	3410	10.6	36,300	2875	6.9	23,500	2315	5.1	17,400	1920	2.5	8,700	1460
755	1600	14.3	48,900	3365	10.8	37,000	2830	7.1	24,200	2270	5.3	18,100	1875	2.8	9,400	1415
850	1800	14.5	49,500	3335	11.0	37,600	2800	7.3	24,800	2240	5.5	18,700	1845	2.9	10,000	1385

Air Temperature Entering Outdoor Coil.

NOTE — Heating capacities include the effect of defrost cycles in the temperature range where they occur.

HP29–651–653 / 10HPB60 — HEATING CAPACITY — CB29M–51

Indoor Coil Air Volume 70°F db (21°C db) L/s	cfm	65°F (18°C) Total Heating Capacity kW	65°F (18°C) Btuh	65°F (18°C) Comp. Motor Watts Input	45°F (7°C) Total Heating Capacity kW	45°F (7°C) Btuh	45°F (7°C) Comp. Motor Watts Input	25°F (-4°C) Total Heating Capacity kW	25°F (-4°C) Btuh	25°F (-4°C) Comp. Motor Watts Input	5°F (-15°C) Total Heating Capacity kW	5°F (-15°C) Btuh	5°F (-15°C) Comp. Motor Watts Input	-15°F (-28°C) Total Heating Capacity kW	-15°F (-28°C) Btuh	-15°F (-28°C) Comp. Motor Watts Input
825	1750	19.5	66,700	4980	15.0	51,200	4440	10.1	34,400	3875	7.5	25,600	3380	3.8	13,100	2500
850	1800	19.6	66,900	4945	15.1	51,400	4405	10.1	34,600	3840	7.6	25,800	3345	3.9	13,300	2465
875	1850	19.6	67,000	4895	15.1	51,500	4355	10.2	34,700	3790	7.6	25,900	3295	3.9	13,400	2415

Air Temperature Entering Outdoor Coil.

NOTE — Heating capacities include the effect of defrost cycles in the temperature range where they occur.

HP29–511–513 / 10HPB48 — HEATING PERFORMANCE CH23–51 at 1600 cfm (755 L/s)

*Outdoor Temperature °F	°C	Compressor Motor Watts Input	Total Output Btuh	Total Output kW
65	18	3365	48,900	14.3
60	16	3240	46,300	13.6
55	13	3115	43,700	12.8
50	10	2990	41,100	12.0
47	8	2915	39,500	11.6
45	7	2830	37,000	10.8
40	4	2620	30,800	9.0
35	2	2405	24,600	7.2
30	-1	2340	24,400	7.2
25	-4	2270	24,200	7.1
20	-7	2205	24,000	7.0
17	-8	2165	23,900	7.0
15	-9	2115	22,900	6.7
10	-12	1990	20,300	5.9
5	-15	1875	18,100	5.3
0	-18	1760	15,900	4.7
-5	-21	1645	13,700	4.0
-10	-23	1530	11,500	3.4
-15	-26	1415	9,400	2.8
-20	-29	1300	7,200	2.1

*Outdoor temperature 70% relative humidity. Indoor temperature 70°F (21°C).

HP29–651–653 / 10HPB60 — HEATING PERFORMANCE CB29M–51 at 1800 cfm (850 L/s)

*Outdoor Temperature °F	°C	Compressor Motor Watts Input	Total Output Btuh	Total Output kW
65	18	4945	66,900	19.6
60	16	4820	63,500	18.6
55	13	4695	60,000	17.6
50	10	4570	56,600	16.6
47	8	4495	54,500	16.0
45	7	4405	51,400	15.1
40	4	4185	43,500	12.7
35	2	3960	35,700	10.5
30	-1	3900	35,200	10.3
25	-4	3840	34,600	10.1
20	-7	3780	34,100	10.0
17	-8	3740	33,800	9.9
15	-9	3690	32,400	9.5
10	-12	3565	29,000	8.5
5	-15	3345	25,800	7.6
0	-18	3125	22,700	6.7
-5	-21	2905	19,600	5.7
-10	-23	2685	16,400	4.8
-15	-26	2465	13,300	3.9
-20	-29	2245	10,100	3.0

*Outdoor temperature 70% relative humidity. Indoor temperature 70°F (21°C).

RATINGS

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

HP29–651–653 / 10HPB60 — COOLING CAPACITY — CB29M–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		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	755	1600	16.6	56,600	4710	.72	.85	.96	16.0	54,700	5320	.72	.86	.97	15.4	52,500	6020	.74	.88	.99	14.7	50,300	6810	.75	.89	1.00
	850	1800	16.9	57,700	4730	.74	.88	.99	16.3	55,700	5340	.75	.89	1.00	15.7	53,500	6050	.76	.91	1.00	15.0	51,200	6840	.78	.93	1.00
	945	2000	17.2	58,700	4750	.76	.91	1.00	16.6	56,600	5370	.77	.92	1.00	15.9	54,400	6070	.79	.94	1.00	15.3	52,100	6870	.81	.96	1.00
67°F (19.4°C)	755	1600	17.6	60,100	4770	.56	.69	.82	17.0	58,000	5400	.57	.70	.83	16.4	55,800	6110	.57	.71	.84	15.6	53,300	6910	.58	.73	.86
	850	1800	17.9	61,100	4790	.58	.71	.85	17.3	58,900	5420	.58	.73	.86	16.6	56,600	6130	.59	.74	.88	15.9	54,100	6940	.60	.76	.90
	945	2000	18.1	61,900	4810	.59	.74	.88	17.5	59,700	5440	.60	.75	.90	16.8	57,300	6160	.61	.77	.91	16.0	54,700	6970	.62	.79	.93
71°F (21.7°C)	755	1600	18.7	63,900	4850	.42	.54	.66	18.1	61,700	5480	.43	.55	.67	17.4	59,300	6210	.43	.56	.69	16.6	56,700	7030	.43	.57	.70
	850	1800	19.0	64,900	4870	.43	.56	.69	18.3	62,600	5510	.43	.57	.70	17.6	60,200	6230	.43	.58	.72	16.9	57,500	7060	.44	.59	.73
	945	2000	19.3	65,700	4890	.43	.58	.72	18.6	63,300	5520	.44	.58	.73	17.8	60,900	6260	.44	.59	.75	17.1	58,200	7080	.44	.60	.76

NOTE — All values are gross capacities and do not include indoor coil blower motor heat deduction.

HP29–651–653 / 10HPB60 — COOLING CAPACITY — 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		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	660	1400	16.1	54,800	4820	.69	.81	.92	15.5	52,800	5440	.70	.82	.94	14.9	50,700	6150	.71	.84	.95	14.2	48,500	6960	.72	.85	.97
	755	1600	16.5	56,200	4840	.71	.84	.96	15.9	54,100	5470	.72	.86	.97	15.2	51,900	6190	.73	.87	.99	14.5	49,600	7010	.75	.89	1.00
	850	1800	16.8	57,300	4870	.74	.88	.99	16.2	55,200	5500	.75	.89	1.00	15.5	53,000	6230	.76	.91	1.00	14.8	50,600	7040	.78	.93	1.00
67°F (19.4°C)	660	1400	17.1	58,400	4890	.55	.66	.77	16.5	56,300	5530	.55	.67	.79	15.9	54,100	6260	.56	.68	.80	15.2	51,700	7080	.56	.69	.82
	755	1600	17.5	59,700	4920	.56	.69	.81	16.9	57,500	5560	.57	.70	.82	16.2	55,200	6290	.57	.71	.84	15.4	52,700	7120	.58	.72	.86
	850	1800	17.8	60,800	4940	.57	.71	.84	17.1	58,500	5580	.58	.72	.86	16.4	56,100	6320	.59	.74	.88	15.7	53,500	7160	.60	.75	.90
71°F (21.7°C)	660	1400	18.3	62,300	4980	.42	.53	.64	17.6	60,100	5620	.42	.53	.64	16.9	57,700	6370	.42	.54	.65	16.2	55,200	7220	.42	.55	.67
	755	1600	18.6	63,600	5010	.42	.54	.66	18.0	61,300	5660	.43	.55	.67	17.2	58,800	6410	.43	.56	.68	16.5	56,200	7260	.43	.56	.70
	850	1800	18.9	64,600	5030	.43	.56	.69	18.3	62,300	5680	.43	.56	.70	17.5	59,700	6440	.43	.57	.71	16.7	57,000	7290	.44	.58	.73

NOTE — All values are gross capacities and do not include indoor coil blower motor heat deduction.

HP29–651–653 / 10HPB60 — HEATING CAPACITY — CB29M–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 (-28°C)		
		Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input
L/s	cfm	kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh	
755	1600	19.3	66,000	5155	14.8	50,500	4605	9.9	33,700	4030	7.3	24,900	3555	3.6	12,400	2660
850	1800	19.6	66,900	4990	15.1	51,400	4440	10.1	34,600	3865	7.6	25,800	3390	3.9	13,300	2495
945	2000	19.8	67,500	4845	15.2	52,000	4295	10.3	35,200	3720	7.7	26,400	3245	4.1	13,900	2350

NOTE — Heating capacities include the effect of defrost cycles in the temperature range where they occur.

HP29–651–653 / 10HPB60 — HEATING CAPACITY — 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 (-28°C)		
		Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input
L/s	cfm	kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh	
660	1400	19.3	65,800	5100	14.6	49,900	4560	9.6	32,800	3995	7.0	23,800	3535	3.5	12,100	2660
755	1600	19.4	66,300	4895	14.8	50,400	4355	9.8	33,300	3790	7.1	24,300	3330	3.7	12,600	2455
850	1800	19.6	66,900	4745	14.9	51,000	4205	9.9	33,900	3640	7.3	24,900	3180	3.9	13,200	2305

NOTE — Heating capacities include the effect of defrost cycles in the temperature range where they occur.

HP29–651–653 / 10HPB60 — HEATING PERFORMANCE CB29M–65 at 1800 cfm (850 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	4990	66,900	19.6
60	16	4865	63,500	18.6
55	13	4740	60,000	17.6
50	10	4615	56,600	16.6
47	8	4540	54,500	16.0
45	7	4440	51,400	15.1
40	4	4200	43,500	12.7
35	2	3960	35,700	10.5
30	-1	3915	35,200	10.3
25	-4	3865	34,600	10.1
20	-7	3815	34,100	10.0
17	-8	3785	33,800	9.9
15	-9	3735	32,400	9.5
10	-12	3610	29,000	8.5
5	-15	3390	25,800	7.6
0	-18	3165	22,700	6.7
-5	-21	2940	19,600	5.7
-10	-23	2720	16,400	4.8
-15	-26	2495	13,300	3.9
-20	-29	2270	10,100	3.0

*Outdoor temperature 70% relative humidity. Indoor temperature 70°F(21°C).

HP29–651–653 / 10HPB60 — HEATING PERFORMANCE CB30M–51 at 1600 cfm (755 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	4895	66,300	19.4
60	16	4770	62,700	18.4
55	13	4650	59,200	17.3
50	10	4530	55,600	16.3
47	8	4455	53,500	15.7
45	7	4355	50,400	14.8
40	4	4115	42,500	12.5
35	2	3870	34,700	10.2
30	-1	3830	34,000	10.0
25	-4	3790	33,300	9.8
20	-7	3745	32,600	9.6
17	-8	3725	32,200	9.4
15	-9	3675	30,800	9.0
10	-12	3550	27,200	8.0
5	-15	3330	24,300	7.1
0	-18	3115	21,400	6.3
-5	-21	2895	18,400	5.4
-10	-23	2675	15,500	4.5
-15	-26	2455	12,600	3.7
-20	-29	2235	9,700	2.8

*Outdoor temperature 70% relative humidity. Indoor temperature 70°F(21°C).

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

HP29–651–653 ONLY — COOLING CAPACITY — CB31MV–51

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil: 85°F (29°C) Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			95°F (35°C) Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			105°F (41°C) Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			115°F (46°C) Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	670	1425	16.2	55,300	4780	.69	.82	.93	15.6	53,300	5400	.70	.83	.94	15.0	51,200	6110	.71	.84	.96	14.3	48,900	6910	.72	.86	.98
	765	1625	16.6	56,500	4800	.71	.85	.96	16.0	54,500	5430	.72	.86	.98	15.3	52,300	6150	.74	.88	.99	14.6	49,900	6950	.75	.90	1.00
	850	1805	16.9	57,500	4830	.74	.88	.99	16.2	55,400	5450	.75	.89	1.00	15.6	53,200	6170	.76	.91	1.00	14.9	50,800	6980	.78	.93	1.00
67°F (19.4°C)	670	1425	17.3	59,000	4860	.55	.67	.78	16.6	56,800	5490	.56	.68	.80	16.0	54,600	6210	.56	.69	.81	15.3	52,100	7030	.57	.70	.83
	765	1625	17.6	60,100	4880	.56	.69	.81	17.0	57,900	5510	.57	.70	.83	16.3	55,500	6240	.57	.71	.84	15.5	53,000	7070	.58	.73	.86
	850	1805	17.9	61,000	4900	.57	.71	.84	17.2	58,700	5540	.58	.72	.86	16.5	56,300	6270	.59	.74	.88	15.7	53,700	7100	.60	.75	.90
71°F (21.7°C)	670	1425	18.4	62,800	4940	.42	.53	.64	17.8	60,600	5580	.42	.54	.65	17.1	58,200	6330	.42	.54	.66	16.3	55,600	7160	.43	.55	.67
	765	1625	18.7	63,900	4970	.42	.54	.66	18.1	61,600	5610	.43	.55	.67	17.3	59,200	6360	.43	.56	.69	16.6	56,500	7200	.43	.57	.70
	850	1805	19.0	64,900	4990	.43	.56	.69	18.3	62,500	5640	.43	.57	.70	17.6	60,000	6380	.43	.57	.71	16.8	57,200	7230	.44	.58	.73

NOTE — All values are gross capacities and do not include indoor coil blower motor heat deduction.

HP29–651–653 / 10HPB60 — COOLING CAPACITY — CB30M–65

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil: 85°F (29°C) Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			95°F (35°C) Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			105°F (41°C) Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			115°F (46°C) Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	780	1650	16.9	57,800	4900	.72	.85	.97	16.3	55,700	5540	.73	.86	.98	15.7	53,500	6270	.74	.88	.99	15.0	51,100	7080	.75	.90	1.00
	850	1800	17.2	58,700	4920	.73	.87	.99	16.6	56,500	5560	.75	.89	1.00	15.9	54,200	6290	.76	.91	1.00	15.2	51,800	7120	.78	.93	1.00
	920	1950	17.4	59,400	4930	.75	.90	1.00	16.8	57,300	5580	.77	.91	1.00	16.1	55,000	6310	.78	.93	1.00	15.4	52,500	7140	.80	.95	1.00
67°F (19.4°C)	780	1650	18.0	61,500	4980	.56	.69	.82	17.4	59,300	5630	.57	.70	.83	16.6	56,800	6370	.58	.71	.85	15.9	54,200	7210	.58	.73	.87
	850	1800	18.3	62,300	5000	.57	.71	.84	17.6	59,900	5650	.58	.72	.86	16.9	57,500	6390	.59	.74	.88	16.1	54,800	7230	.60	.75	.90
	920	1950	18.4	62,900	5010	.58	.73	.87	17.8	60,600	5660	.59	.74	.88	17.0	58,100	6410	.60	.76	.90	16.2	55,400	7260	.61	.77	.92
71°F (21.7°C)	780	1650	19.2	65,500	5060	.42	.55	.67	18.5	63,100	5730	.43	.55	.68	17.7	60,500	6490	.43	.56	.69	16.9	57,800	7350	.43	.57	.70
	850	1800	19.4	66,200	5090	.43	.56	.69	18.7	63,800	5750	.43	.56	.70	17.9	61,200	6510	.43	.57	.71	17.1	58,400	7370	.44	.58	.73
	920	1950	19.6	66,900	5100	.43	.57	.71	18.9	64,400	5760	.43	.58	.72	18.1	61,800	6530	.44	.59	.73	17.3	59,000	7390	.44	.60	.75

NOTE — All values are gross capacities and do not include indoor coil blower motor heat deduction.

HP29–651–653 ONLY — HEATING CAPACITY — CB31MV–51

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil: 65°F (18°C) Total Heating Capacity		Comp. Motor Watts Input	45°F (7°C) Total Heating Capacity		Comp. Motor Watts Input	25°F (-4°C) Total Heating Capacity		Comp. Motor Watts Input	5°F (-15°C) Total Heating Capacity		Comp. Motor Watts Input	-15°F (-28°C) Total Heating Capacity		Comp. Motor Watts Input
L/s	cfm	kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh	
675	1425	19.0	65,000	4985	14.4	49,200	4475	9.4	32,200	3950	6.8	23,300	3445	3.4	11,700	2590
765	1625	19.3	65,700	4790	14.6	49,900	4280	9.6	32,900	3755	7.0	24,000	3250	3.6	12,400	2395
850	1805	19.4	66,300	4655	14.8	50,500	4145	9.8	33,500	3620	7.2	24,600	3115	3.8	13,000	2260

NOTE — Heating capacities include the effect of defrost cycles in the temperature range where they occur.

HP29–651–653 / 10HPB60 — HEATING CAPACITY — CB30M–65

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil: 65°F (18°C) Total Heating Capacity		Comp. Motor Watts Input	45°F (7°C) Total Heating Capacity		Comp. Motor Watts Input	25°F (-4°C) Total Heating Capacity		Comp. Motor Watts Input	5°F (-15°C) Total Heating Capacity		Comp. Motor Watts Input	-15°F (-28°C) Total Heating Capacity		Comp. Motor Watts Input
L/s	cfm	kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh	
780	1650	19.4	66,300	4920	14.8	50,500	4400	9.8	33,400	3850	7.2	24,500	3420	3.6	12,400	2545
850	1800	19.5	66,700	4810	14.9	50,900	4290	9.9	33,800	3740	7.3	24,900	3310	3.8	12,800	2435
920	1950	19.7	67,300	4720	15.1	51,500	4200	10.1	34,400	3650	7.5	25,500	3220	3.9	13,400	2345

NOTE — Heating capacities include the effect of defrost cycles in the temperature range where they occur.

HP29–651–653 ONLY — HEATING PERFORMANCE
CB31MV–51 at 1600 cfm (755 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	4790	65,700	19.3
60	16	4665	62,200	18.2
55	13	4545	58,700	17.2
50	10	4425	55,100	16.1
47	8	4355	53,000	15.5
45	7	4280	49,900	14.6
40	4	4090	42,100	12.3
35	2	3905	34,400	10.1
30	-1	3830	33,700	9.9
25	-4	3755	32,900	9.6
20	-7	3680	32,200	9.4
17	-8	3635	31,800	9.3
15	-9	3585	30,400	8.9
10	-12	3465	26,900	7.9
5	-15	3250	24,000	7.0
0	-18	3035	21,100	6.2
-5	-21	2825	18,200	5.3
-10	-23	2610	15,300	4.5
-15	-26	2395	12,400	3.6
-20	-29	2180	9,500	2.8

*Outdoor temperature 70% relative humidity. Indoor temperature 70°F (21°C).

HP29–651–653 / 10HPB60 — HEATING PERFORMANCE
CB30M–65 at 1800 cfm (850 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	4810	66,700	19.5
60	16	4690	63,200	18.5
55	13	4575	59,700	17.5
50	10	4460	56,100	16.4
47	8	4390	54,000	15.8
45	7	4290	50,900	14.9
40	4	4045	43,000	12.6
35	2	3800	35,100	10.3
30	-1	3770	34,500	10.1
25	-4	3740	33,800	9.9
20	-7	3710	33,200	9.7
17	-8	3690	32,800	9.6
15	-9	3645	31,400	9.2
10	-12	3530	27,900	8.2
5	-15	3310	24,900	7.3
0	-18	3090	21,800	6.4
-5	-21	2870	18,800	5.5
-10	-23	2650	15,800	4.6
-15	-26	2435	12,800	3.8
-20	-29	2215	9,800	2.9

*Outdoor temperature 70% relative humidity. Indoor temperature 70°F (21°C).

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

HP29–651–653 ONLY — COOLING CAPACITY — CB31MV–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		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	765	1625	16.8	57,400	4890	.71	.84	.96	16.2	55,300	5520	.72	.86	.97	15.6	53,100	6250	.73	.87	.99	14.9	50,700	7070	.75	.89	1.00
	850	1805	17.1	58,500	4910	.74	.88	.99	16.5	56,400	5550	.75	.89	1.00	15.9	54,100	6290	.76	.91	1.00	15.2	51,700	7110	.78	.93	1.00
	945	2005	17.4	59,500	4930	.76	.91	1.00	16.8	57,400	5580	.77	.92	1.00	16.1	55,100	6310	.79	.94	1.00	15.4	52,600	7140	.81	.96	1.00
67°F (19.4°C)	765	1625	17.9	61,100	4960	.56	.69	.81	17.3	58,900	5610	.57	.70	.82	16.5	56,400	6350	.57	.71	.84	15.8	53,900	7190	.58	.72	.86
	850	1805	18.2	62,100	4990	.57	.71	.84	17.5	59,800	5640	.58	.72	.86	16.8	57,400	6380	.59	.74	.88	16.0	54,700	7220	.60	.75	.90
	945	2005	18.5	63,000	5010	.59	.74	.88	17.8	60,700	5660	.60	.75	.89	17.0	58,100	6410	.61	.77	.91	16.2	55,400	7250	.62	.78	.93
71°F (21.7°C)	765	1625	19.0	65,000	5050	.42	.54	.66	18.4	62,700	5710	.43	.55	.67	17.6	60,100	6470	.43	.56	.68	16.8	57,400	7330	.43	.56	.70
	850	1805	19.4	66,100	5080	.43	.56	.69	18.6	63,600	5740	.43	.57	.70	17.9	61,100	6500	.43	.57	.71	17.1	58,300	7360	.44	.58	.73
	945	2005	19.6	66,900	5100	.43	.57	.71	18.9	64,500	5760	.44	.58	.73	18.1	61,800	6530	.44	.59	.74	17.3	58,900	7390	.44	.60	.76

NOTE — All values are gross capacities and do not include indoor coil blower motor heat deduction.

HP29-651-653 / 10HPB60 — COOLING CAPACITY — C26-51(FC)

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		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	755	1600	16.6	56,500	4750	.72	.85	.97	15.8	53,900	5110	.73	.87	.99	15.0	51,100	5470	.75	.89	1.00	14.1	48,200	5840	.77	.92	1.00
	850	1800	16.9	57,600	4800	.75	.89	.99	16.1	55,000	5160	.76	.91	1.00	15.3	52,200	5530	.78	.93	1.00	14.4	49,200	5910	.80	.96	1.00
	945	2000	17.2	58,700	4840	.77	.92	1.00	16.4	56,000	5210	.79	.94	1.00	15.6	53,200	5590	.81	.96	1.00	14.7	50,200	5970	.83	.99	1.00
67°F (19.4°C)	755	1600	17.6	60,100	4900	.56	.69	.82	16.8	57,300	5280	.57	.71	.84	15.9	54,300	5660	.58	.72	.86	15.0	51,100	6040	.59	.75	.89
	850	1800	17.9	61,100	4940	.58	.72	.86	17.1	58,200	5330	.59	.74	.88	16.2	55,200	5710	.60	.76	.90	15.2	52,000	6100	.61	.78	.93
	945	2000	18.2	62,000	4980	.60	.75	.89	17.3	59,100	5370	.61	.77	.91	16.4	55,900	5760	.62	.79	.94	15.4	52,700	6140	.63	.81	.96
71°F (21.7°C)	755	1600	18.8	64,000	5070	.43	.55	.67	17.9	61,100	5470	.43	.56	.68	17.0	58,000	5880	.43	.57	.70	16.0	54,700	6280	.43	.58	.72
	850	1800	19.1	65,100	5110	.43	.56	.70	18.2	62,100	5520	.43	.57	.71	17.3	58,900	5930	.44	.58	.73	16.3	55,500	6330	.44	.60	.75
	945	2000	19.3	66,000	5150	.44	.58	.72	18.4	62,900	5560	.44	.59	.74	17.5	59,600	5970	.44	.60	.76	16.4	56,000	6380	.45	.62	.79

NOTE — All values are gross capacities and do not include indoor coil blower motor heat deduction.

HP29–651–653 ONLY — HEATING CAPACITY — CB31MV–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 (-28°C)		
		Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input
L/s	cfm	kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh	
765	1625	19.4	66,100	4965	14.7	50,100	4445	9.7	33,000	3910	7.0	23,900	3405	3.5	12,100	2545
850	1805	19.6	66,800	4830	14.9	50,800	4310	9.9	33,700	3775	7.2	24,600	3270	3.8	12,800	2410
945	2005	19.8	67,500	4710	15.1	51,500	4190	10.1	34,400	3655	7.4	25,300	3150	4.0	13,500	2290

NOTE — Heating capacities include the effect of defrost cycles in the temperature range where they occur.

HP29-651-653 / 10HPB60 — COOLING CAPACITY — C26-51(FC)

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 (-28°C)		
		Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input
L/s	cfm	kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh	
615	1300	18.9	64,400	5385	14.5	49,500	4865	9.8	33,400	4330	7.3	25,000	3805	3.7	12,600	2865
710	1500	19.0	64,900	5130	14.7	50,000	4610	9.9	33,900	4075	7.5	25,500	3550	3.8	13,100	2610
800	1700	19.2	65,500	4950	14.8	50,600	4430	10.1	34,500	3895	7.6	26,100	3370	4.0	13,700	2430

NOTE — Heating capacities include the effect of defrost cycles in the temperature range where they occur.

HP29–651–653 ONLY — HEATING PERFORMANCE CB31MV–65 at 1805 cfm (850 L/s)

*Outdoor Temperature °F	°C	Compressor Motor Watts Input	Total Output Btuh	kW
65	18	4830	66,800	19.6
60	16	4705	63,300	18.6
55	13	4585	59,700	17.5
50	10	4460	56,100	16.4
47	8	4390	54,000	15.8
45	7	4310	50,800	14.9
40	4	4120	43,000	12.6
35	2	3925	35,100	10.3
30	-1	3850	34,400	10.1
25	-4	3775	33,700	9.9
20	-7	3700	33,000	9.7
17	-8	3655	32,600	9.6
15	-9	3605	31,200	9.1
10	-12	3485	27,600	8.1
5	-15	3270	24,600	7.2
0	-18	3055	21,700	6.4
-5	-21	2840	18,700	5.5
-10	-23	2625	15,700	4.6
-15	-26	2410	12,800	3.8
-20	-29	2195	9,800	2.9

*Outdoor temperature 70% relative humidity. Indoor temperature 70°F(21°C).

HP29-651-653 — HEATING PERFORMANCE C26-51(FC) at 1800 cfm (850 L/s)

*Outdoor Temperature °F	°C	Compressor Motor Watts Input	Total Output Btuh	kW
65	18	5130	64,900	19.0
60	16	5005	61,600	18.1
55	13	4885	58,300	17.1
50	10	4760	55,000	16.1
47	8	4690	53,000	15.5
45	7	4610	50,000	14.7
40	4	4415	42,400	12.4
35	2	4220	34,800	10.2
30	-1	4145	34,400	10.1
25	-4	4075	33,900	9.9
20	-7	4000	33,500	9.8
17	-8	3960	33,200	9.7
15	-9	3910	31,900	9.3
10	-12	3785	28,600	8.4
5	-15	3550	25,500	7.5
0	-18	3315	22,400	6.6
-5	-21	3080	19,300	5.7
-10	-23	2845	16,200	4.7
-15	-26	2610	13,100	3.8
-20	-29	2375	10,000	2.9

*Outdoor temperature 70% relative humidity. Indoor temperature 70°F(21°C).

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

HP29-651-653 / 10HPB60 — COOLING CAPACITY — CR26-51W Only

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		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	755	1600	16.3	55,700	4650	.72	.85	.97	15.6	53,200	5000	.73	.87	.98	14.8	50,600	5360	.75	.89	1.00	14.0	47,700	5720	.77	.92	1.00
	850	1800	16.6	56,800	4700	.74	.88	.99	15.9	54,300	5060	.76	.90	1.00	15.1	51,600	5420	.78	.93	1.00	14.3	48,700	5780	.80	.95	1.00
	945	2000	16.9	57,800	4740	.77	.92	1.00	16.2	55,200	5100	.78	.93	1.00	15.4	52,500	5470	.80	.96	1.00	14.5	49,600	5840	.83	.98	1.00
67°F (19.4°C)	755	1600	17.4	59,300	4800	.56	.69	.82	16.6	56,600	5170	.57	.71	.84	15.8	53,800	5540	.58	.72	.86	14.9	50,700	5910	.59	.74	.88
	850	1800	17.7	60,300	4840	.58	.72	.85	16.9	57,500	5210	.59	.73	.87	16.0	54,600	5590	.60	.75	.90	15.1	51,400	5970	.61	.77	.92
	945	2000	17.9	61,100	4870	.59	.74	.89	17.1	58,300	5250	.60	.76	.91	16.2	55,200	5630	.61	.78	.93	15.3	52,100	6010	.63	.81	.95
71°F (21.7°C)	755	1600	18.5	63,200	4960	.42	.55	.67	17.7	60,400	5350	.43	.55	.68	16.8	57,300	5750	.43	.56	.70	15.9	54,100	6140	.43	.58	.72
	850	1800	18.8	64,200	5000	.43	.56	.69	18.0	61,300	5400	.43	.57	.71	17.1	58,200	5790	.44	.58	.73	16.1	54,800	6190	.44	.60	.75
	945	2000	19.0	65,000	5030	.43	.58	.72	18.2	62,000	5430	.44	.59	.74	17.2	58,800	5830	.44	.60	.76	16.2	55,400	6240	.45	.62	.78

NOTE — All values are gross capacities and do not include indoor coil blower motor heat deduction.

HP29-651-653 / 10HPB60 — COOLING CAPACITY — CH23–65

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		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	850	1800	16.6	56,600	4830	.74	.88	.99	16.0	54,600	5470	.75	.90	1.00	15.4	52,500	6180	.77	.92	1.00	14.7	50,200	7000	.79	.94	1.00
	945	2000	16.9	57,600	4850	.77	.92	1.00	16.3	55,500	5490	.78	.93	1.00	15.6	53,400	6210	.80	.95	1.00	15.0	51,100	7030	.81	.97	1.00
	1040	2200	17.1	58,500	4870	.79	.94	1.00	16.5	56,400	5510	.81	.96	1.00	15.9	54,200	6230	.82	.97	1.00	15.2	52,000	7070	.84	.99	1.00
67°F (19.4°C)	850	1800	17.6	59,900	4900	.58	.72	.85	16.9	57,700	5540	.59	.73	.87	16.2	55,400	6270	.59	.75	.89	15.5	52,900	7100	.60	.76	.91
	945	2000	17.8	60,700	4920	.59	.75	.89	17.1	58,500	5560	.60	.76	.90	16.4	56,100	6290	.61	.77	.92	15.7	53,600	7120	.62	.79	.94
	1040	2200	18.0	61,400	4930	.61	.77	.92	17.3	59,100	5580	.62	.79	.93	16.6	56,700	6310	.63	.80	.95	15.9	54,100	7150	.64	.82	.97
71°F (21.7°C)	850	1800	18.6	63,600	4980	.43	.56	.70	18.0	61,300	5630	.43	.57	.71	17.3	58,900	6380	.44	.58	.72	16.5	56,300	7220	.44	.59	.74
	945	2000	18.9	64,400	5000	.44	.58	.72	18.2	62,000	5650	.44	.59	.74	17.4	59,500	6400	.44	.60	.75	16.7	56,900	7250	.45	.61	.77
	1040	2200	19.0	65,000	5020	.44	.60	.75	18.3	62,600	5670	.44	.61	.77	17.6	60,100	6420	.45	.62	.78	16.8	57,400	7270	.45	.63	.80

NOTE — All values are gross capacities and do not include indoor coil blower motor heat deduction.

HP29-651-653 / 10HPB60 — HEATING CAPACITY — CR26-51W Only

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 (-28°C)		
		Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input
L/s	cfm	kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh	
755	1600	19.7	67,300	5005	15.3	52,100	4155	10.7	36,600	3270	6.8	23,200	2710	3.3	11,400	2055
850	1800	20.0	68,100	4930	15.5	53,000	4080	11.0	37,500	3195	7.1	24,100	2635	3.6	12,300	1980
945	2000	20.1	68,600	4875	15.7	53,500	4025	11.1	38,000	3135	7.2	24,600	2575	3.8	12,800	1920

NOTE — Heating capacities include the effect of defrost cycles in the temperature range where they occur.

HP29-651-653 / 10HPB60 — HEATING CAPACITY — CH23–65

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 (-28°C)		
		Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input	Total Heating Capacity		Comp. Motor Watts Input
L/s	cfm	kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh		kW	Btuh	
850	1800	19.0	64,800	4595	14.5	49,500	4160	9.7	33,200	3710	7.2	24,500	3270	3.6	12,400	2435
945	2000	19.1	65,200	4460	14.6	49,900	4025	9.8	33,600	3575	7.3	24,900	3135	3.8	12,800	2300
1040	2200	19.2	65,600	4385	14.7	50,300	3950	10.0	34,000	3500	7.4	25,300	3060	3.9	13,200	2225

NOTE — Heating capacities include the effect of defrost cycles in the temperature range where they occur.

HP29-651-653 / 10HPB60 — HEATING PERFORMANCE CR26-51W Only at 1800 cfm (850 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	4930	68,100	20.0
60	16	4735	64,300	18.8
55	13	4535	60,600	17.8
50	10	4335	56,800	16.6
47	8	4220	54,500	16.0
45	7	4080	53,000	15.5
40	4	3745	49,200	14.4
35	2	3405	45,400	13.3
30	-1	3300	41,500	12.2
25	-4	3195	37,500	11.0
20	-7	3090	33,500	9.8
17	-8	3025	31,200	9.1
15	-9	2960	30,000	8.8
10	-12	2795	27,000	7.9
5	-15	2635	24,100	7.1
0	-18	2470	21,100	6.2
-5	-21	2305	18,200	5.3
-10	-23	2145	15,200	4.5
-15	-26	1980	12,300	3.6
-20	-29	1815	9400	2.8

*Outdoor temperature 70% relative humidity. Indoor temperature 70°F (21°C).

HP29–651–653 — HEATING PERFORMANCE CH23–65 at 2000 cfm (945 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	4460	65,200	19.1
60	16	4360	61,800	18.1
55	13	4260	58,400	17.1
50	10	4155	55,000	16.1
47	8	4095	53,000	15.5
45	7	4025	49,900	14.6
40	4	3855	42,300	12.4
35	2	3685	34,600	10.1
30	-1	3630	34,100	10.0
25	-4	3575	33,600	9.8
20	-7	3520	33,000	9.7
17	-8	3485	32,700	9.6
15	-9	3445	31,300	9.2
10	-12	3345	28,000	8.2
5	-15	3135	24,900	7.3
0	-18	2925	21,900	6.4
-5	-21	2715	18,900	5.5
-10	-23	2510	15,900	4.7
-15	-26	2300	12,800	3.8
-20	-29	2090	9,800	2.9

*Outdoor temperature 70% relative humidity. Indoor temperature 70°F (21°C).