LENNOX

ENGINEERING DATA

HEAT PUMP OUTDOOR UNITS

HP27

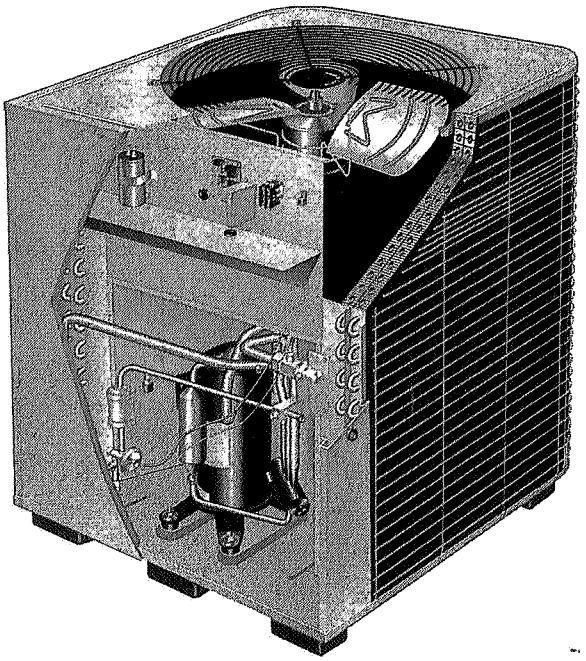
ELITE 14™ SERIES

SEER - up to 15.05

Cooling Capacity - 25,000 to 42,000 Btuh (7.3 to 12.3 kW)

Heat Capacity - 24,200 to 40,000 Btuh (7.1 to 11.7 kW)

Bulletin No. 210170
July 2000
Supersedes August 1999



CERTIFICATION APPLIES ONLY WHEN THE COMPLETE SYSTEM IS LISTED WITH ARI

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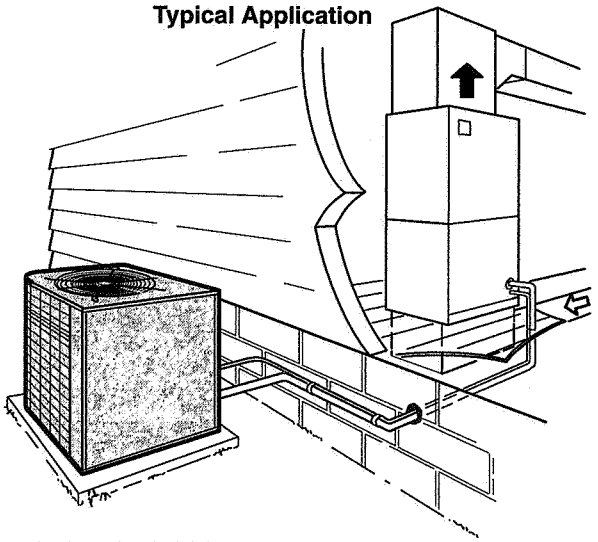
UL LISTED

Typical Application



MODEL NUMBER IDENTIFICATION

HP27 - 036 - 1 Y

Unit Type
HP = Heat pump Outdoor Unit

Series

Capacity Tons (kW)
024 = 2 (7.0)
030 = 2.5 (8.8)
036 = 3 (10.6)
042 = 3.5 (12.3)

Minor Revision Number

Voltage
P = 208/230v-1phase-60hz
Y = 208/230v-3 phase-60hz
G = 460v-3 phase-60hz
J = 575v-3 phase-60hz

FEATURES

Application

- SEER up to 15.05.
- HSPF (Region IV) up to 9.00.
- 2 through 3.5 ton (7.0 through 12.3 kW).
- Single phase power supply.
- Vertical air discharge allows concealment behind shrubs at grade level or out of sight on a roof.
- Designed for applications with remotely located indoor blower-coil units or indoor add-on coils with FM21 furnace control. See FM21 bulletin, Thermostats and Controls section. Also see Coils-Blower Coils section for indoor unit data.
- Units shipped completely factory assembled, piped and wired. Each unit is test operated at the factory insuring proper operation.
- Installer must set outdoor unit, connect refrigerant lines and make electrical connections to complete job.
- Each unit is test operated at the factory insuring proper operation.

Approvals

- Certified in accordance with USE certification program which is based on ARI Standard 210/240-94.
- Sound rated in Lennox reverberant sound test room in accordance with test conditions included in ARI Standard 270-95.
- Tested in the Lennox Research Laboratory environmental test room.
- Rated according to U.S. Department of Energy (DOE) test procedures.
- Units and components within bonded for grounding to meet safety standards for servicing required by UL
- Units are UL and ULC listed.
- Developed in accordance with ISO 9002 quality standards.

Equipment Warranty

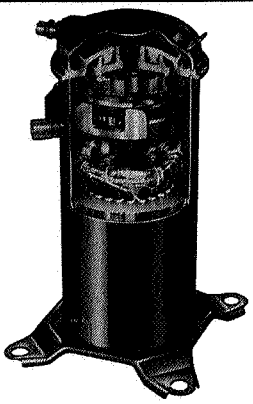
- Compressor — limited warranty for ten years in residential installations, five years in no
- All other covered components — limited warranty for five years in residential installations,
- Refer to Lennox Equipment Limited Warranty certificate included with unit for specific de

Refrigerant Line Connections, Electrical Inlets and Service Valves

- Vapor and liquid lines are located inside of the cabinet and are made with sweat connectio
- Fully serviceable brass service valves prevent corrosion and provide access to refrigerant shut off, while liquid valve may be front seated to manage refrigerant charge while servicing
- Vapor and liquid line service valves and gauge ports are located inside the cabinet.
- Refrigerant line connections and field wiring inlets are located in one central area of the cabi

NOTE - Due to Lennox' ongoing committment to quality, Specifications, Ratings and Dimensions subject to change without notice
Improper installation, adjustment, alteration, service or maintenance can cause property damage or personal injury.
Installation and service must be performed by a qualified installer and servicing agency.

FEATURES



Copeland® Compliant Scroll™ Compressor
- Compressor features high efficiency with uniform suction flow, constant discharge flow and high volumetric efficiency and quiet operation.
- Compressor consists of two involute spiral scrolls matched together to generate a series ofcrescent shaped gas pockets between them.
- During compression, one scroll remains stationary while the other scroll orbits around it.
- Gas is drawn into the outer pocket, the pocket is sealed as the scroll rotates.
- As the spiral movement continues, gas pockets are pushed to the center of the scrolls. Volume between the pockets is simultaneously reduced.
- When pocket reaches the center, gas is now at high pressure and is forced out of a port located in the center of the fixed scrolls.
- During compression, several pockets are compressed simultaneously resulting in a smooth continuous compression cycle.
- Continuous flank contact, maintained by centrifugal force, minimizes gas leakage and maximizes efficiency.
- Scroll compressor is tolerant to the effects of slugging and contaminants. If this occurs, scrolls separate, allowing liquid or contaminants to to be worked toward the center and discharged.
- Low gas pulses during compression reduces operational sound levels.
- Compressor motor is internally protected from excessive current and temperature.
- Compressor is installed in the unit on resilient rubber mounts for vibration free operation.

Cabinet
- Heavy gauge galvanized steel cabinet with five station metal wash process.
- Powder paint finish provides superior rust and corrosion protection.
- Painted base section.
- Compressor and control box located in a separate compartment insulated with thick fiberglass insulation. Compartment provides protection from the weather and keeps sound transmission at a minimum
- Control box is conveniently located with all controls factory wired.
- Large removable panel provides service access.
- Drainage holes are provided in base section for moisture removal.
- High density polyethylene feet raise the unit off of the mounting surface away from damaging moisture.
- Non-corrosive PVC (polyvinyl chloride) coated steel wire outdoor coil guard is furnished.

Outdoor Fan
- Direct drive fan moves large air volumes uniformly through entire outdoor coil for high refrigerant cooling capacity.
- Vertical air discharge minimizes operating sounds and eliminates damage to lawn and shrubs.
- Fan motor is inherently protected.
- Motor totally enclosed for maximum protection from weather, dust and corrosion.
- Rain shield on motor provides additional protection from moisture.
- Corrosion resistant PVC (polyvinyl chloride) coated steel wire fan guard is furnished as standard.
- Fan service access accomplished by removal of fan guard.

Copper Tube/Enhanced Fin Coil
- Lennox designed and fabricated coil.
- Ripple-edged aluminum fins.
- Copper tube construction.
- Wrap around "U" shaped configuration provides extra large surface area with low air resistance.
- Lanced fins provide maximum exposure of fin surface to air stream resulting in excellent heat transfer.
- Fin collars grip tubing for maximum contact area.
- Fin spacing allows rapid and complete water drainage.
- Flared shoulder tubing connections/silver soldering construction.
- Coil is factory tested under high pressure to insure leakproof construction.
- Entire coil is accessible for cleaning.
- PVC (polyvinyl chloride) coated steel wire coil guard furnished as standard.
- Inverted coil circuiting prevents ice buildup at coil base in low ambients.

Defrost/Timed-Off Control
- A solid-state defrost control board is furnished as standard equipment. It gives a defrost cycle (14 minutes) for every 30, 60 or 90 minutes (adjustable) of compressor "on" time at outdoor temperature below 35°F (2°C).
- A sensing element mounted on the liquid line determines when the defrost cycle is required and also when to terminate a cycle.
- Diagnostic LED on control board furnished as an aid for servicing.
- Prevents compressor short-cycling and allows time for suction and discharge pressure to equalize, permitting the compressor to start in an unloaded condition.
- Automatic reset control provides a five minute time delay between compressor shutoff and start-up.

Bi-Flow Hi-Capacity Drier
- Traps moisture or dirt that could contaminate refrigerant system.
- Bi-flow operation during heating or cooling cycle.
- Furnished as standard and factory installed.

High Pressure Switch
- Shuts off unit if abnormal operating conditions cause the discharge pressure to rise above setting.
- Automatic reset.

Reversing Valve
- 4-way interchange reversing valve effects a rapid change in direction of refrigerant flow resulting in quick changeover from cooling to heating and vice versa.
- Valve operates on pressure differential between outdoor unit and indoor unit of the system.

Expansion Valve
- Designed and sized specifically for use in heat pump system.
- Sensing bulb is located on the suction line between reversing valve and compressor thus sensing suction temperature in any cycle.
- Factory installed and piped.

Service Light Thermostat
- Factory installed on the compressor discharge line.
- Required for operation of conditioned area thermostat with service light.

Ambient Compensating Thermistor
- Reduces thermostat droop to improve the operating characteristics of the heat pump system.
- The thermistor varies the heat anticipator resistance as ambient temperature changes.
- Factory installed in the discharge air stream.

OPTIONAL ACCESSORIES - MUST BE ORDERED EXTRA

Thermostat
- Thermostat is not furnished with the unit and must be ordered extra.
- See Thermostats and Controls section and Lennox Price Book.

Check and Expansion Valve Kit
- Field installed on certain indoor unit.
- See ARI Ratings table.

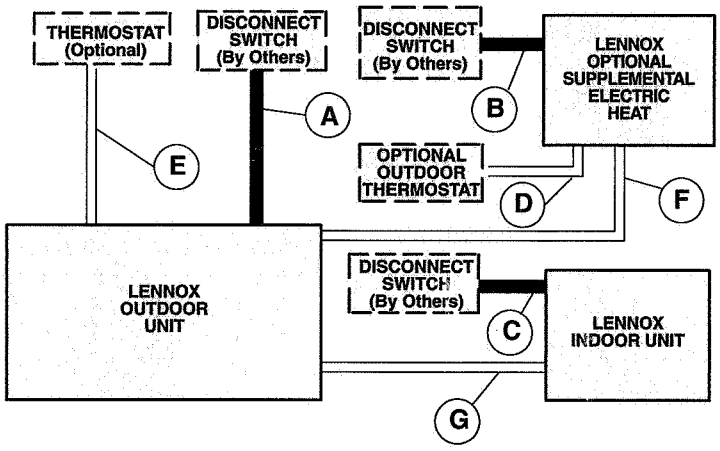
Refrigerant Line Kits
- Refrigerant lines (vapor & liquid) are shipped refrigeration clean. Lines are cleaned, dried, pressurized and sealed at factory.
- Vapor line fully insulated.
- L15 lines are stubbed at both ends.
- See Refrigerant Line Kit table for selection.
- Refrigerant line length should not exceed 50 ft. (15 m) in any installation. If longer length lines are required, contact your Lennox Field Technical Consultant.

Low Ambient Kit
- Units will operate satisfactorily down to 45°F (7°C) outdoor air temperature without any additional controls.
- Kit LB-57113BM (**24J00**) can be added in the field enabling unit to operate properly down to 30°F (-1°C).

Outdoor Thermostat Kit
- An outdoor thermostat can be used to lock out some of the electric heating elements on indoor units where two stage control is applicable.
- Outdoor thermostat maintains the heating load on the low power input as long as possible before allowing the full power load to come on the line.
- Thermostat kit LB-29740BA **(56A87)** and mounting box M-1595 **(31461)** or BM-10260 **(33A09)** (Canada Only) must be ordered extra.

Mounting Base
- Provides permanent foundation for condensing units.
- High density polyethylene structural material is lightweight, sturdy, sound absorbing and will withstand the rigors of the sun, heat, cold, moisture, oil and refrigerant. Will not mildew or rot.
- Can be shipped singly or in packages of 6 to a carton.
- All models use MB2-L (**69J07**), 32 x 34 x 3 in. (813 x 864 x 76 mm), shipping weight 15 lbs. (7 kg) each.

FIELD WIRING



A — Two Wire Power (see Electrical Data)

B — Two or Three Wire Power (size to heater capacity)

C — Two Wire Power (size to indoor coil blower motor)

D — Two Wire Low Voltage — 18 ga. minimum

E — Eight Wire Low Voltage — 18 ga. minimum — with Electric Heat

— Ten Wire Low Voltage with Optional Outdoor Thermostat

F — Four Wire Low Voltage — 18 ga. minimum

G — Three Wire Low Voltage — 18 ga. minimum

— Field Wiring Not Furnished —

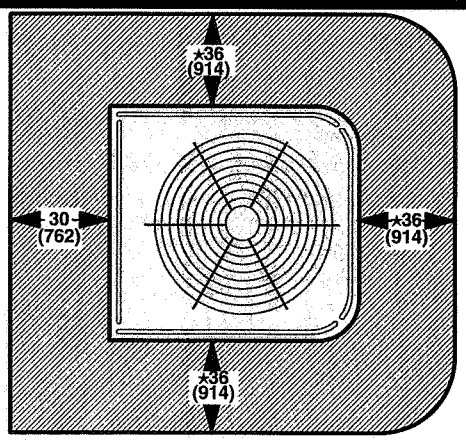
All wiring must conform to NEC or CEC and local electrical codes.

REFRIGERANT LINE KITS

Outdoor Unit Model No.	Line Set Model No.	Line Length		Liquid Line (o.d.)		Vapor Line (o.d.)	
		ft.	m	in.	mm	in.	mm
HP27-024 HP27-030	L15-41-20	20	6	3/8	9.5	3/4	19
	L15-41-30	30	9				
	L15-41-40	40	12				
	L15-41-50	50	15				
HP27-036 HP27-042	L15-65-30	30	9	3/8	9.5	7/8	22.2
	L15-65-40	40	12				
	L15-65-50	50	15				

NOTE — Refrigerant line set should not exceed 50 ft. (15 m) in any installation.

INSTALLATION CLEARANCES - IN. (MM)



★ One side of unit may be 12 in. (305 mm)
One of the remaining sides may be 6 in. (152 mm)
NOTE - 48 in (1219 mm) clearance required on top of unit
NOTE - 24 in. (610 mm) required between two units

SPECIFICATIONS

Model No.			HP27-024	HP27-030	HP27-036	HP27-042
Nominal Tonnage			2	2.5	3	3.5
Liquid line conn. o.d. — in. (mm) (sweat)			3/8 (9.5)			
Vapor line conn. o.d. — in. (mm) (sweat)			3/4 (19)		7/8 (22.2)	
⁂Refrigerant furnished (HCFC-22)			12 lbs. 8 oz. (5.7 kg)	11 lbs. 8 oz. (5.2 kg)	12 lbs. 0 oz. (5.4 kg)	12 lbs. 15 oz. (5.9 kg)
Condenser Coil	Net face area sq. ft. (m^2)	Outer Coil	21.77 (2.02)		24.06 (2.24)	
		Inner Coil	21.11 (1.96)		23.33 (2.17)	
	Tube diameter — in. (mm)		5/16 (7.9)			
	No. of rows		2			
	Fins per inch (m)		22 (866)			
Condenser Fan	Diameter in. (mm) — No. of blades		24 (610) - 3			
	Motor hp		1/10 (75)			
	Cfm (L/s)		2800 (1320)			
	Rpm		825			
	Watts		165		170	
Shipping wt. — lbs. (kg) 1 package			268 (122)	271 (123)	328 (149)	
OPTIONAL ACCESSORIES - MUST BE ORDERED EXTRA						
Low Ambient Kit			LB-57113BC (**27J00**)			
Mounting Base - Net Weight			MB2-L (**69J07**) - 15 lbs. (7 kg)			
Outdoor Thermostat Kit		Thermostat Kit	LB-29740BA (**56A87**)			
		Mounting Box	M-1595 (**31461**) or BM-10260 (Canada Only) (**33A09**)			

⁂Refrigerant charge sufficient for 20 ft. (6.1 m) length of refrigerant lines.

ELECTRICAL DATA

Model No.		HP27-024	HP27-030	HP27-036	HP27-042
Line voltage data		208/230v - 60hz-1ph			
Rec. max. fuse or circuit breaker size (amps)		20	25	30	40
†Minimum circuit ampacity		13.8	16.2	17.8	23.4
Compressor	Rated load amps	10.26	12.18	13.46	18.0
	Power factor	0.96			0.97
	Locked rotor amps	56	61	73	104
Outdoor Coil Fan Motor	Full load amps	0.9			
	Locked rotor amps	1.6			

†Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.
NOTE — Extremes of operating range are plus 10% and minus 5% of line voltage.

ARI RATINGS

Unit Size & Model No. *Sound Rating No.	★ARI Standard 210/240 Ratings											Indoor Units	**Check and Expansion Valve Kit Required
	Cool. Cap. Btuh (kW)	High Htg. Cap. Btuh (kW)	Low Htg. Cap. Btuh (kW)	Total Cool. Watts	SEER (EER)	Cool. C.O.P.	Total High Htg. Watts	HSPF Region IV (Region V)	High Htg. C.O.P.	Total Low Htg. Watts	Low Htg. C.O.P.		
2 Ton HP27-024 (72 db)	25,000 (7.3)	24,200 (7.1)	15,400 (4.5)	2110	14.05 (11.85)	3.47	2230	8.25 (7.40)	3.18	1820	2.48	**Blower Coil Unit** CB30U-31 (Up-Flow) CB30M-31 (Multi-Position)	●Factory Installed
	25,400 (7.4)	24,600 (7.2)	15,400 (4.5)	2110	14.25 (12.05)	3.53	2120	8.50 (7.35)	3.40	1865	2.42	**Blower Coil Unit** CB30U-41/46 (Up-Flow) [1]CB30M-41 (Multi-Position)	
	25,800 (7.6)	24,200 (7.1)	15,000 (4.4)	2015	15.05 (12.80)	3.75	2025	8.60 (7.45)	3.50	1770	2.48	**Blower Coil Unit** CB31MV-41 (Multi-Position)	
	23,800 (7.0)	25,400 (7.4)	15,800 (4.6)	2165	12.75 (11.00)	3.22	2125	8.60 (7.70)	3.50	1810	2.56	[2]**Blower Coil Unit** CVP10-31/EC10Q3 (Up-Flow)	
	24,200 (7.1)	25,600 (7.5)	15,800 (4.6)	2160	13.00 (11.20)	3.28	2120	8.60 (7.80)	3.54	1795	2.58	[2]**Blower Coil Unit** CVP10-41/EC10Q3 (Up-Flow)	
	25,200 (7.4)	24,800 (7.3)	15,600 (4.6)	2165	13.60 (11.65)	3.41	2135	8.50 (7.35)	3.40	1890	2.42	**Indoor Coil (▲FM21)** C33-38A/B (Up-Flow)	LB-85759F **(56J19)**
	25,400 (7.4)	24,800 (7.3)	15,600 (4.6)	2160	13.65 (11.75)	3.44	2165	8.30 (7.30)	3.36	1905	2.40	C26-41 (Up-Flow)	●Factory Installed
												Indoor Coil (▲FM21) C26-46 (Up-Flow)	
												C33-48B/C (Up-Flow	LB-85759F **(56J19)**
	24,600 (7.2)	25,400 (7.4)	15,800 (4.6)	2160	13.25 (11.40)	3.34	2020	8.70 (7.65)	3.68	1825	2.54	**Indoor Coil (▲FM21)** CR26-51 (Down-Flow)	LB-85759F **(56J19)**
	25,400 (7.4)	25,600 (7.5)	15,800 (4.6)	2160	13.60 (11.75)	3.44	2040	8.70 (7.75)	3.68	1795	2.58	**Indoor Coil (▲FM21)** CR26-65 (Down-Flow)	
	25,200 (7.9)	25,400 (7.4)	15,600 (4.6)	2155	13.60 (11.70)	3.43	1990	8.70 (7.65)	3.74	1800	2.54	**Indoor Coil (▲FM21)** CH33-44B-F (Horizontal) CH23-51 (Horizontal)	
	25,400 (7.4)	25,600 (7.5)	15,600 (4.6)	2160	13.75 (11.75)	3.44	1975	9.00 (7.70)	3.80	1785	2.56	**Indoor Coil (▲FM21)** CH33-48C-F (Horizontal) CH23-65 (Horizontal)	
2.5 Ton HP27-030 (72 db)	27,600 (8.1)	27,200 (8.0)	17,600 (5.2)	2370	13.25 (11.65)	3.41	2360	8.50 (7.55)	3.38	2095	2.46	**Blower Coil Unit** CB29M-46 (Multi-Position)	●Factory Installed
	28,000 (8.2)	27,600 (8.1)	17,600 (5.2)	2305	14.05 (12.15)	3.56	2245	8.70 (7.50)	3.60	2000	2.58	**Blower Coil Unit** CB30U-31 (Up-Flow) CB30M-31 (Multi-Position)	
	28,000 (8.2)	27,600 (8.1)	17,600 (5.2)	2295	14.05 (12.20)	3.58	2365	8.70 (7.75)	3.42	2030	2.54	**Blower Coil Unit** CB30U-41/46 (Up-Flow) [1]CB30M-41 (Multi-Position)	
	28,400 (8.3)	26,400 (7.7)	17,000 (5.0)	2175	15.05 (13.05)	3.82	2175	9.00 (7.90)	3.56	1885	2.64	**Blower Coil Unit** CB31MV-41 (Multi-Position)	
	26,400 (7.7)	27,400 (8.0)	17,800 (5.2)	2370	12.75 (11.15)	3.27	2295	8.70 (7.60)	3.50	2105	2.48	[2]**Blower Coil Unit** CVP10-31/EC10Q3 (Up-Flow)	
	26,800 (7.9)	27,400 (8.0)	17,800 (5.2)	2360	13.05 (11.35)	3.33	2255	8.50 (7.50)	3.56	2085	2.50	[2]**Blower Coil Unit** CVP10-41/EC10Q3 (Up-Flow) CVP10-46/EC10Q4 (Up-Flow)	
	27,600 (8.1)	27,200 (8.0)	17,800 (5.2)	2360	13.30 (11.70)	3.43	2360	8.50 (7.55)	3.38	2105	2.48	**Indoor Coil (▲FM21)** C33-38A/B (Up-Flow)	LB-85759F **(56J19)**
	27,600 (8.1)	27,200 (8.0)	17,800 (5.2)	2360	13.30 (11.70)	3.43	2415	8.50 (7.60)	3.30	2120	2.46	C26-41 (Up-Flow)	●Factory Installed
												Indoor Coil (▲FM21) C26-46 (Up-Flow)	
												C33-48B/C (Up-Flow)	LB-85759F **(56J19**
	27,800 (8.1)	27,000 (7.9)	17,800 (5.2)	2365	13.50 (11.75)	3.44	2395	8.50 (7.50)	3.30	2120	2.46	**Indoor Coil (▲FM21)** C33-50C (Up-Flow)	
												C26-51/65 (Up-Flow)	●Factory Installed
	27,800 (8.1)	27,400 (8.0)	17,800 (5.2)	2365	13.30 (11.75)	3.44	2320	8.50 (7.55)	3.46	1890	2.76	**Indoor Coil (▲FM21)** CR26-51 (Down-Flow)	LB-85759F **(56J19)**
	28,200 (8.3)	27,400 (8.0)	17,800 (5.2)	2370	13.70 (11.90)	3.49	2255	8.50 (7.55)	3.56	2070	2.52	**Indoor Coil (▲FM21)** CR26-65 (Down-Flow)	
	27,800 (8.1)	27,600 (8.1)	17,800 (5.2)	2365	13.40 (11.75)	3.44	2245	8.60 (7.70)	3.60	2070	2.52	**Indoor Coil (▲FM21)** CH33-44B-F (Horizontal) CH23-65 (Horizontal)	
	28,200 (8.3)	27,600 (8.1)	17,800 (5.2)	2370	13.50 (11.90)	3.49	2175	8.70 (7.80)	3.72	2055	2.54	**Indoor Coil (▲FM21)** CH33-48C-F (Horizontal) CH23-68 (Horizontal)	

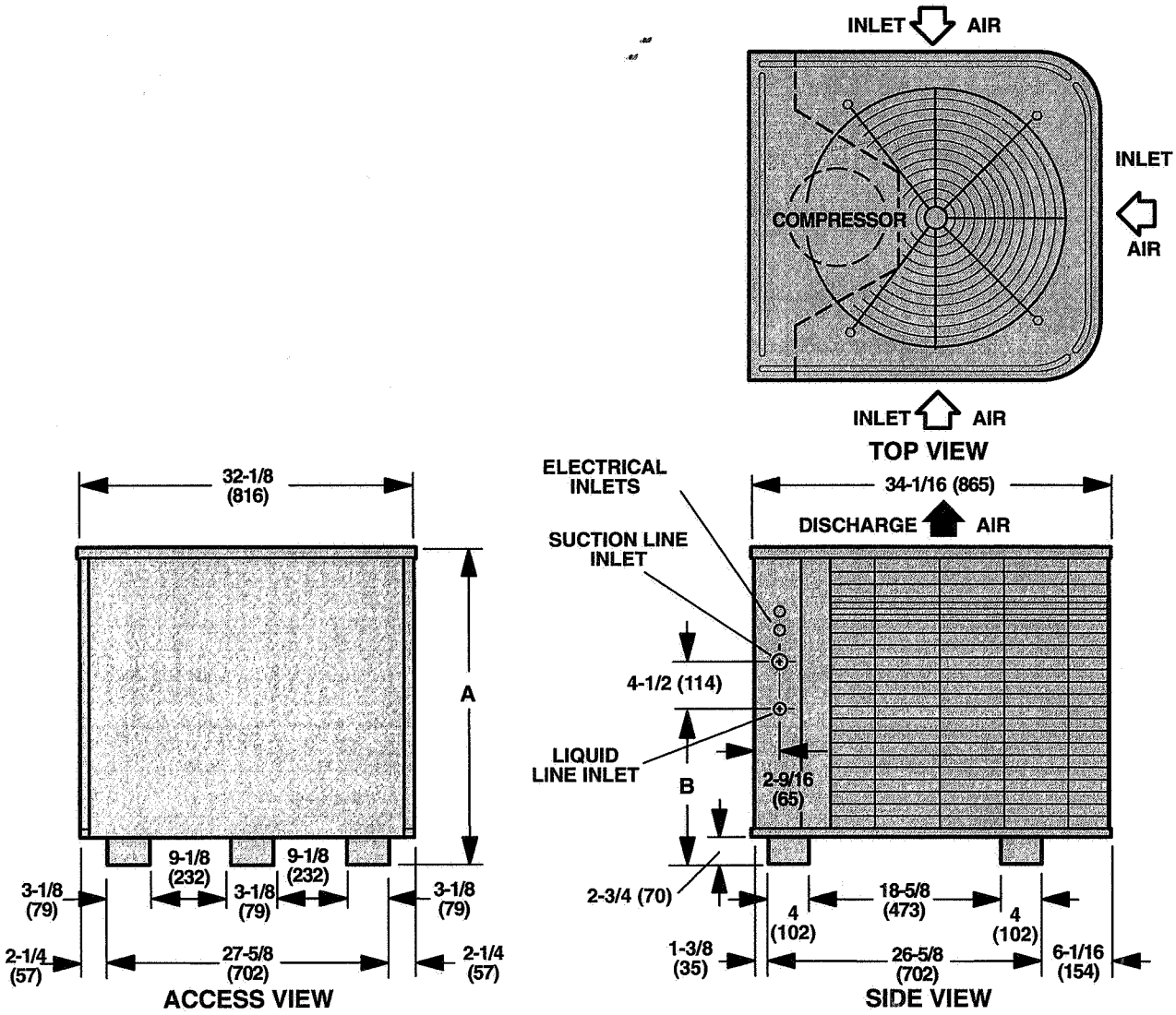
*Sound Rating Number in accordance with test conditions included in ARI Standard 270.
★Certified in accordance with USE certification program which is based on ARI Standard 210/240 with 25 ft. (7.6 m) of connecting refrigerant lines;
Cooling Ratings — 95°F (35°C) outdoor air temperature and 80°F (27°C) db/67°F (19°C) wb entering indoor coil air.
High Temperature Heating Ratings — 47°F (8°C) db/43°F (6°C) wb outdoor air temperature and 70°F (21°C) db entering indoor coil air.
Low Temperature Heating Ratings — 17°F db/15°F wb outdoor air temperature and 70°F (21°C) db entering indoor coil air.
●Furnished as standard with coil unit.
**Kit is required and must be ordered extra, unless shown as factory installed.
▲FM21 Heat Pump Control - Use coil listed with any Lennox furnace that meets system design requirements. See FM21 page in this section for additional data.
[1]Most popular blower coil combination.
[2]Canada Only.

ARI RATINGS

Unit Size & Model No. *Sound Rating No.	★ARI Standard 210/240 Ratings											Indoor Units	**Check and Expansion Valve Kit Required
	Cool. Cap. Btuh (kW)	High Htg. Cap. Btuh (kW)	Low Htg. Cap. Btuh (kW)	Total Cool. Watts	SEER (EER)	Cool. C.O.P.	Total High Htg. Watts	HSPF Region IV (Region V)	High Htg. C.O.P.	Total Low Htg. Watts	Low Htg. C.O.P.		
3 Ton HP27-036 (74 db)	34,000 (10.0)	32,200 (9.4)	19,600 (5.7)	2880	14.15 (11.80)	3.46	2745	8.20 (7.05)	3.44	2475	2.32	**Blower Coil Unit** CB30U-41/46 (Up-Flow) CB30M-41 (Multi-Position)	●Factory Installed
	34,200 (10.0)	32,200 (9.4)	19,600 (5.7)	2885	14.20 (11.85)	3.47	2725	8.20 (7.05)	3.46	2475	2.32	**Blower Coil Unit** [1]CB30M-46 (Multi-Position)	
	35,000 (10.3)	32,200 (9.4)	19,800 (5.8)	2845	14.40 (12.30)	3.60	2745	8.50 (7.50)	3.44	2330	2.49	**Blower Coil Unit** CB30U-51 (Up-Flow) CB30M-51 (Multi-Position)	
	34,200 (10.0)	32,200 (9.4)	19,600 (5.7)	2780	14.70 (12.30)	3.60	2635	8.50 (7.30)	3.58	2375	2.42	**Blower Coil Unit** CB31MV-41 (Multi-Position)	
	35,000 (10.3)	32,200 (9.4)	19,600 (5.7)	2755	15.00 (12.70)	3.72	2525	8.80 (7.50)	3.74	2295	2.50	**Blower Coil Unit** CB31MV-51 (Multi-Position)	
	33,400 (9.8)	32,400 (9.5)	20,000 (5.9)	2955	13.20 (11.30)	3.31	2790	8.00 (6.95)	3.40	2570	2.28	[2]**Blower Coil Unit** CVP10-41/EC10Q3 (Up-Flow) CVP10-46/EC10Q4 (Up-Flow)	
	33,400 (9.8)	32,400 (9.5)	20,000 (5.9)	2955	13.20 (11.30)	3.31	2770	8.00 (6.95)	3.43	2570	2.28	[2]**Blower Coil Unit** CVP10-51/EC10Q4 (Up-Flow)	
	34,000 (10.0)	32,400 (9.5)	19,800 (5.8)	2980	13.50 (11.40)	3.34	2825	8.00 (6.85)	3.36	2590	2.24	**Indoor Coil (▲FM21)** C26-46 (Up-Flow)	
	34,200 (10.0)	32,600 (9.6)	20,000 (5.9)	2960	13.70 (11.55)	3.38	2795	8.10 (7.00)	3.42	2595	2.26	**Indoor Coil (▲FM21)** C33-50C (Up-Flow)	LB-85759F **(56J19)**
												C26-51/65 (Up-Flow)	●Factory Installed
	34,800 (10.2)	32,600 (9.6)	20,000 (5.9)	2975	13.80 (11.70)	3.43	2775	8.10 (7.00)	3.44	2570	2.28	**Indoor Coil (▲FM21)** C33-62D (Up-Flow)	LB-85759F **(56J19)**
												C26-65EAP (Up-Flow)	●Factory Installed
	34,000 (10.0)	32,400 (9.5)	19,800 (5.8)	2970	13.50 (11.45)	3.36	2860	8.00 (6.90)	3.32	2590	2.24	**Indoor Coil (▲FM21)** CR26-51 (Down-Flow)	
	34,600 (10.1)	32,600 (9.6)	20,000 (5.9)	2970	13.80 (11.65)	3.41	2770	8.20 (7.00)	3.45	2550	2.30	**Indoor Coil (▲FM21)** CR26-65 (Down-Flow)	
	34,200 (10.0)	32,400 (9.5)	20,000 (5.9)	2975	13.60 (11.50)	3.37	2790	8.10 (6.95)	3.40	2570	2.28	**Indoor Coil (▲FM21)** CH33-44B-F (Horizontal) CH23-65 (Horizontal)	LB-85759F **(56J19)**
	34,800 (10.2)	32,600 (9.6)	20,000 (5.9)	2975	13.80 (11.70)	3.43	2730	8.25 (7.05)	3.50	2525	2.32	**Indoor Coil (▲FM21)** CH33-50C-F (Horizontal) CH23-68 (Horizontal)	
3.5 Ton HP27-042 (74 db)	40,500 (11.9)	39,000 (11.4)	25,400 (7.4)	3880	12.40 (10.44)	3.06	3660	7.80 (6.90)	3.12	3265	2.28	**Blower Coil Unit** CB29M-51 (Multi-Position)	●Factory Installed
	41,000 (12.0)	39,000 (11.4)	24,700 (7.2)	3675	13.15 (11.16)	3.27	3440	8.20 (7.20)	3.32	3015	2.40	**Blower Coil Unit** CB30M-41 (Multi-Position) CB30U-41/46 (Up-Flow)	
	41,000 (12.0)	39,000 (11.4)	24,700 (7.2)	3675	13.15 (11.16)	3.27	3420	8.20 (7.20)	3.34	2990	2.42	**Blower Coil Unit** CB30M-46 (Multi-Position)	
	42,000 (12.3)	40,000 (11.7)	24,800 (7.3)	3715	13.30 (11.30)	3.31	3465	8.25 (7.20)	3.38	3030	2.40	**Blower Coil Unit** CB30U-51 (Up-Flow) [1]CB30M-51 (Multi-Position)	
	41,000 (12.0)	39,000 (11.4)	25,000 (7.3)	3580	13.60 (11.45)	3.36	3320	8.30 (7.40)	3.44	2955	2.48	**Blower Coil Unit** CB31MV-41 (Multi-Position)	
	42,000 (12.3)	40,000 (11.7)	25,000 (7.3)	3560	14.00 (11.80)	3.46	3290	8.50 (7.50)	3.56	2905	2.52	**Blower Coil Unit** CB31MV-51 (Multi-Position)	
	40,000 (11.7)	39,000 (11.4)	25,000 (7.3)	3775	12.70 (10.60)	3.11	3505	8.05 (7.10)	3.26	3105	2.36	[2]**Blower Coil Unit** CVP10-41/EC10Q3 (Up-Flow) CVP10-46/EC10Q4 (Up-Flow)	
	40,000 (11.7)	39,000 (11.4)	25,000 (7.3)	3775	12.70 (10.60)	3.11	3485	8.05 (7.10)	3.28	3090	2.37	[2]**Blower Coil Unit** CVP10-51/EC10Q4 (Up-Flow)	
	40,500 (11.9)	39,000 (11.4)	25,000 (7.3)	3760	12.60 (10.85)	3.18	3615	7.80 (6.90)	3.16	3185	2.30	**Indoor Coil (▲FM21)** C26-46 (Up-Flow)	
												C33-50C (Up-Flow)	LB-85759G **(56J20)**
	41,500 (12.2)	39,000 (11.4)	25,000 (7.3)	3765	12.80 (11.05)	3.24	3570	7.80 (6.95)	3.20	3185	2.30	**Indoor Coil (▲FM21)** C26-51/65 (Up-Flow)	●Factory Installed
												C33-60D (Up-Flow)	LB-85759G **(56J20)**
	42,000 (12.3)	39,000 (11.4)	25,000 (7.3)	3685	13.20 (11.40)	3.34	3485	8.00 (7.00)	3.28	3155	2.32	**Indoor Coil (▲FM21)** C33-62D-F (Up-Flow)	
												C26-65EAP (Up-Flow)	●Factory Installed
	40,000 (11.7)	39,000 (11.4)	25,000 (7.3)	3775	12.80 (10.60)	3.11	3615	7.80 (7.00)	3.16	3155	2.32	**Indoor Coil (▲FM21)** CR26-51 (Down-Flow)	
	41,200 (12.1)	39,000 (11.4)	25,000 (7.3)	3750	13.10 (10.98)	3.22	3465	8.05 (7.10)	3.30	3105	2.36	**Indoor Coil (▲FM21)** CR26-65 (Down-Flow)	
	41,200 (12.1)	39,000 (11.4)	25,000 (7.3)	3780	12.80 (10.90)	3.19	3485	8.05 (7.10)	3.28	3105	2.36	**Indoor Coil (▲FM21)** CH33-44B-F (Horizontal) CH23-65 (Horizontal)	LB-85759G **(56J20)**
	42,000 (12.3)	39,200 (11.5)	25,000 (7.3)	3750	13.10 (11.20)	3.28	3380	8.30 (7.25)	3.40	3025	2.42	**Indoor Coil (▲FM21)** CH33-50C-F (Horizontal) CH23-68 (Horizontal)	

*Sound Rating Number in accordance with test conditions included in ARI Standard 270.
★Certified in accordance with USE certification program which is based on ARI Standard 210/240 with 25 ft. (7.6 m) of connecting refrigerant lines;
Cooling Ratings — 95°F (35°C) outdoor air temperature and 80°F (27°C) db/67°F (19°C) wb entering indoor coil air.
High Temperature Heating Ratings — 47°F (8°C) db/43°F (6°C) wb outdoor air temperature and 70°F (21°C) db entering indoor coil air.
Low Temperature Heating Ratings — 17°F db/15°F wb outdoor air temperature and 70°F (21°C) db entering indoor coil air.
●Furnished as standard with coil unit. **Kit is required and must be ordered extra, unless shown as factory installed.
▲FM21 Heat Pump Control - Use coil listed with any Lennox furnace that meets system design requirements. See FM21 page in this section for additional data.
[1]Most popular blower coil combination. [2]Canada Only.

DIMENSIONS - INCHES (MM)



Model No.		A	B
HP27-024 HP27-030	in.	40-7/8	19-13/16
	mm	1038	503
HP27-036 HP27-042	in.	44-7/8	14-1/4
	mm	1140	362

RATINGS

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

HP27-024 — COOLING CAPACITY — CB30U-31 — 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°C)	285	600	7.0	23,800	1510	.70	.83	.95	6.7	22,800	1710	.71	.85	.97	6.4	22,000	1940	.73	.86	.99	6.2	21,000	2180	.74	.88	1.0
	380	800	7.4	25,200	1500	.77	.92	1.0	7.1	24,200	1710	.78	.93	1.0	6.8	23,200	1930	.80	.96	1.0	6.5	22,200	2180	.81	.98	1.0
	470	1000	7.7	26,300	1490	.83	.98	1.0	7.4	25,300	1700	.85	1.0	1.0	7.2	24,400	1920	.86	1.0	1.0	6.9	23,500	2170	.89	1.0	1.0
67°F (19°C)	285	600	7.5	25,600	1490	.55	.68	.80	7.2	24,600	1700	.56	.69	.81	6.9	23,600	1930	.57	.69	.83	6.6	22,600	2170	.58	.71	.84
	380	800	7.9	27,000	1480	.59	.74	.88	7.6	25,800	1700	.60	.76	.90	7.2	24,700	1920	.61	.77	.92	6.9	23,600	2170	.62	.79	.94
	470	1000	8.1	27,800	1480	.63	.81	.96	7.8	26,600	1690	.64	.82	.98	7.5	25,500	1920	.65	.84	.99	7.1	24,300	2160	.66	.86	1.0
71°F (22°C)	285	600	8.1	27,600	1480	.42	.54	.65	7.8	26,500	1690	.42	.54	.66	7.4	25,400	1920	.43	.55	.67	7.1	24,300	2160	.43	.56	.68
	380	800	8.5	29,000	1470	.43	.57	.71	8.1	27,700	1690	.44	.58	.73	7.8	26,600	1920	.44	.59	.74	7.4	25,400	2160	.44	.60	.76
	470	1000	8.8	29,900	1470	.45	.61	.78	8.4	28,500	1690	.45	.62	.80	8.0	27,200	1920	.46	.64	.82	7.6	26,000	2160	.46	.65	.84

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

HP27-024 — COOLING CAPACITY — CB30U-41/46 — 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°C)	285	600	7.1	24,100	1460	.71	.83	.95	6.8	23,200	1660	.71	.84	.97	6.5	22,300	1880	.73	.86	.99	6.2	21,300	2120	.74	.88	1.0
	380	800	7.5	25,600	1450	.77	.92	1.0	7.2	24,500	1660	.78	.94	1.0	6.9	23,600	1880	.80	.95	1.0	6.6	22,600	2110	.81	.97	1.0
	470	1000	7.9	26,800	1440	.83	.99	1.0	7.5	25,700	1650	.85	1.0	1.0	7.3	24,800	1870	.87	1.0	1.0	7.0	23,800	2110	.89	1.0	1.0
67°F (19°C)	285	600	7.6	26,000	1450	.55	.68	.79	7.3	25,000	1650	.56	.68	.81	7.0	24,000	1870	.56	.70	.83	6.7	23,000	2110	.57	.71	.84
	380	800	8.0	27,400	1440	.59	.74	.88	7.7	26,300	1650	.60	.75	.90	7.4	25,100	1870	.61	.77	.92	7.0	24,000	2100	.62	.79	.94
	470	1000	8.3	28,300	1430	.63	.80	.96	7.9	27,100	1640	.64	.82	.98	7.6	25,900	1860	.65	.84	.99	7.2	24,700	2100	.66	.86	1.0
71°F (22°C)	285	600	8.2	28,100	1430	.42	.53	.64	7.9	26,900	1650	.42	.54	.66	7.6	25,800	1860	.43	.55	.67	7.2	24,700	2100	.43	.55	.68
	380	800	8.6	29,500	1430	.43	.57	.71	8.3	28,200	1650	.44	.58	.73	7.9	27,000	1870	.44	.59	.74	7.6	25,800	2100	.44	.60	.76
	470	1000	8.9	30,400	1420	.45	.61	.77	8.5	29,000	1640	.45	.62	.79	8.1	27,700	1870	.46	.64	.82	7.7	26,400	2100	.46	.66	.84

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

HP27-024 — HEATING CAPACITY — CB30U-31 — 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	
285	600	8.5	29,000	2205	6.7	22,800	1910	4.8	16,400	1610	3.3	11,400	1375	1.6	5,600	1060
380	800	8.6	29,500	2075	6.8	23,300	1780	5.0	16,900	1480	3.5	11,900	1245	1.8	6,100	930
470	1000	8.8	29,900	1990	6.9	23,700	1695	5.1	17,300	1395	3.6	12,300	1160	1.9	6,500	845

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

HP27-024 — HEATING CAPACITY — CB30U-41/46 — 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	
285	600	8.6	29,500	2005	6.8	23,100	1815	4.8	16,400	1620	3.3	11,200	1450	1.6	5,500	1105
380	800	8.8	30,100	1850	6.9	23,700	1660	5.0	17,000	1465	3.5	11,800	1295	1.8	6,100	950
470	1000	8.9	30,500	1765	7.1	24,100	1575	5.1	17,400	1380	3.6	12,200	1210	1.9	6,500	865

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

HP27-024 — HEATING PERFORMANCE CB30U/CB30M-31 at 800 cfm (380 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	2075	29,500	8.6
60	16	2005	28,000	8.2
55	13	1935	26,500	7.8
50	10	1870	25,100	7.4
47	8	1825	24,200	7.1
45	7	1780	23,300	6.8
40	4	1670	21,100	6.2
35	2	1560	18,800	5.5
30	-1	1520	17,900	5.2
25	-4	1480	16,900	5.0
20	-7	1440	16,000	4.7
17	-8	1415	15,400	4.5
15	-9	1390	14,800	4.3
10	-12	1320	13,300	3.9
5	-15	1245	11,900	3.5
0	-18	1165	10,400	3.0
-5	-21	1085	9,000	2.6
-10	-23	1005	7,500	2.2
-15	-26	930	6,100	1.8
-20	-29	850	4,600	1.3

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

HP27-024 — HEATING PERFORMANCE CB30U-41/46/CB30M-41 at 800 cfm (380 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	1850	30,100	8.8
60	16	1805	28,600	8.4
55	13	1765	27,100	7.9
50	10	1720	25,500	7.5
47	8	1695	24,600	7.2
45	7	1660	23,700	6.9
40	4	1575	21,400	6.3
35	2	1490	19,000	5.6
30	-1	1480	18,000	5.3
25	-4	1465	17,000	5.0
20	-7	1450	16,000	4.7
17	-8	1440	15,400	4.5
15	-9	1425	14,800	4.3
10	-12	1380	13,300	3.9
5	-15	1295	11,800	3.5
0	-18	1210	10,400	3.0
-5	-21	1120	8,900	2.6
-10	-23	1035	7,500	2.2
-15	-26	950	6,100	1.8
-20	-29	865	4,600	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.

HP27-024 — COOLING 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°C)	285	600	7.1	24,200	1460	.70	.83	.95	6.8	23,300	1660	.72	.85	.97	6.5	22,300	1880	.72	.86	.99	6.3	21,400	2120	.73	.88	1.0
	380	800	7.5	25,700	1450	.76	.91	1.0	7.2	24,600	1660	.78	.93	1.0	6.9	23,600	1880	.79	.96	1.0	6.6	22,600	2110	.81	.98	1.0
	470	1000	7.9	26,800	1440	.83	.99	1.0	7.6	25,800	1650	.85	1.0	1.0	7.3	24,800	1870	.86	1.0	1.0	7.0	23,900	2110	.89	1.0	1.0
67°F (19°C)	285	600	7.6	26,100	1450	.56	.67	.79	7.4	25,100	1650	.56	.69	.81	7.0	24,000	1870	.57	.70	.82	6.7	23,000	2110	.57	.71	.84
	380	800	8.1	27,500	1440	.59	.74	.88	7.7	26,400	1650	.60	.75	.90	7.4	25,200	1870	.61	.77	.92	7.1	24,100	2100	.62	.79	.94
	470	1000	8.3	28,400	1430	.63	.80	.96	8.0	27,200	1640	.64	.82	.98	7.6	26,000	1860	.65	.84	.99	7.3	24,800	2100	.66	.86	1.0
71°F (22°C)	285	600	8.3	28,200	1430	.42	.53	.65	7.9	27,000	1650	.42	.54	.66	7.6	25,900	1860	.42	.54	.67	7.3	24,800	2100	.43	.55	.68
	380	800	8.7	29,600	1430	.43	.57	.71	8.3	28,300	1650	.43	.58	.73	7.9	27,100	1870	.44	.59	.74	7.6	25,900	2100	.44	.60	.76
	470	1000	8.9	30,500	1420	.45	.61	.77	8.5	29,100	1640	.45	.63	.79	8.1	27,800	1870	.46	.64	.82	7.8	26,500	2100	.46	.65	.84

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

HP27-024 — COOLING CAPACITY — CVP10-31/EC10Q3

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°C)	285	600	6.7	22,900	1470	.70	.83	.95	6.5	22,100	1670	.71	.85	.96	6.2	21,200	1890	.72	.86	.98	6.0	20,400	2130	.73	.88	1.0
	380	800	7.1	24,300	1460	.76	.91	1.0	6.8	23,300	1670	.78	.94	1.0	6.6	22,400	1880	.79	.95	1.0	6.3	21,500	2120	.81	.97	1.0
	470	1000	7.4	25,400	1450	.83	.98	1.0	7.2	24,400	1660	.85	.99	1.0	6.9	23,500	1880	.86	1.0	1.0	6.7	22,700	2120	.88	1.0	1.0
67°F (19°C)	285	600	7.2	24,700	1460	.55	.68	.79	6.9	23,700	1660	.56	.69	.81	6.7	22,800	1880	.57	.70	.82	6.4	21,900	2120	.57	.71	.84
	380	800	7.6	26,000	1450	.59	.74	.88	7.3	24,900	1660	.60	.75	.90	7.0	23,900	1880	.61	.77	.92	6.7	22,800	2110	.62	.79	.94
	470	1000	7.9	26,800	1440	.63	.80	.95	7.5	25,700	1650	.64	.82	.97	7.2	24,600	1870	.65	.84	.99	6.9	23,500	2110	.66	.86	1.0
71°F (22°C)	285	600	7.8	26,600	1440	.42	.53	.65	7.5	25,500	1650	.42	.54	.66	7.2	24,500	1870	.42	.55	.67	6.9	23,500	2110	.43	.55	.68
	380	800	8.2	27,900	1440	.43	.57	.71	7.8	26,700	1650	.44	.58	.73	7.5	25,600	1870	.44	.59	.74	7.2	24,500	2100	.44	.60	.76
	470	1000	8.4	28,700	1430	.45	.61	.77	8.1	27,500	1650	.45	.63	.80	7.7	26,300	1870	.46	.64	.81	7.4	25,100	2100	.46	.65	.83

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

HP27-024 — 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	
285	600	8.5	29,100	1990	6.7	22,700	1800	4.7	16,000	1600	3.2	10,900	1425	1.6	5,300	1090
380	800	8.7	29,700	1835	6.8	23,300	1645	4.9	16,600	1445	3.4	11,500	1270	1.7	5,900	935
470	1000	8.8	30,000	1750	6.9	23,600	1560	5.0	16,900	1360	3.5	11,800	1185	1.8	6,200	850

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

HP27-024 — HEATING CAPACITY — CVP10-31/EC10Q3

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	
285	600	8.9	30,500	1725	6.9	23,700	1600	4.9	16,800	1465	3.3	11,400	1340	1.6	5,500	1015
380	800	9.1	31,200	1590	7.2	24,400	1465	5.1	17,500	1330	3.5	12,100	1205	1.8	6,200	880
470	1000	9.3	31,800	1515	7.3	25,000	1390	5.3	18,100	1255	3.7	12,700	1130	2.0	6,800	805

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

HP27-024 — HEATING PERFORMANCE CB31MV-41 at 800 cfm (380 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	1835	29,700	8.7
60	16	1790	28,200	8.3
55	13	1745	26,700	7.8
50	10	1705	25,100	7.4
47	8	1675	24,200	7.1
45	7	1645	23,300	6.8
40	4	1560	21,000	6.2
35	2	1475	18,700	5.5
30	-1	1460	17,700	5.2
25	-4	1445	16,600	4.9
20	-7	1425	15,600	4.6
17	-8	1415	15,000	4.4
15	-9	1400	14,400	4.2
10	-12	1355	12,900	3.8
5	-15	1270	11,500	3.4
0	-18	1190	10,100	3.0
-5	-21	1105	8,700	2.5
-10	-23	1020	7,300	2.1
-15	-26	935	5,900	1.7
-20	-29	850	4,500	1.3

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

HP27-024 — HEATING PERFORMANCE CVP10-31/EC10Q3 AT 800 cfm (380 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	1590	31,200	9.1
60	16	1565	29,600	8.7
55	13	1535	28,000	8.2
50	10	1510	26,400	7.7
47	8	1490	25,400	7.4
45	7	1465	24,400	7.2
40	4	1400	22,000	6.4
35	2	1330	19,600	5.7
30	-1	1330	18,600	5.5
25	-4	1330	17,500	5.1
20	-7	1325	16,400	4.8
17	-8	1325	15,800	4.6
15	-9	1315	15,200	4.5
10	-12	1285	13,600	4.0
5	-15	1205	12,100	3.5
0	-18	1125	10,600	3.1
-5	-21	1040	9,200	2.7
-10	-23	960	7,700	2.3
-15	-26	880	6,200	1.8
-20	-29	795	4,700	1.4

*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.

HP27-024 — COOLING CAPACITY — CVP10-41/EC10Q3

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	kW	Btuh		75°F 24°C	80°F 27°C	kW	Btuh		75°F 24°C	80°F 27°C	kW	Btuh		75°F 24°C	80°F 27°C
63°F (17°C)	285	600	6.8	23,200	1470	.71	.83	6.5	22,300	1670	.71	.84	6.3	21,400	1890	.72	.86	6.0	20,500	2130	.73	.88
	380	800	7.2	24,600	1460	.76	.91	6.9	23,600	1670	.78	.93	6.7	22,700	1890	.79	.95	6.4	21,700	2130	.81	.97
	470	1000	7.5	25,700	1450	.83	.98	7.2	24,700	1660	.84	1.0	7.0	23,800	1880	.86	1.0	6.7	22,900	2120	.88	1.0
67°F (19°C)	285	600	7.3	25,000	1460	.56	.67	7.0	24,000	1660	.56	.68	6.7	23,000	1880	.57	.70	6.5	22,100	2120	.57	.71
	380	800	7.7	26,400	1440	.59	.73	7.4	25,300	1660	.60	.75	7.1	24,200	1880	.60	.76	6.8	23,100	2120	.61	.78
	470	1000	8.0	27,300	1440	.63	.80	7.6	26,100	1650	.64	.82	7.3	24,900	1870	.65	.84	7.0	23,800	2110	.66	.86
71°F (22°C)	285	600	7.9	27,000	1440	.42	.53	7.6	25,900	1650	.42	.54	7.3	24,800	1870	.42	.54	7.0	23,800	2110	.42	.55
	380	800	8.3	28,400	1440	.43	.57	7.9	27,100	1650	.44	.58	7.6	26,000	1870	.44	.59	7.3	24,800	2110	.44	.60
	470	1000	8.6	29,300	1430	.45	.61	8.2	27,900	1650	.45	.62	7.8	26,700	1880	.46	.64	7.5	25,500	2110	.46	.65

Entering Wet Bulb Temperature	Sensible To Total Ratio (S/T) Dry Bulb		
	85°F 29°C		
63°F (17°C)	.95	1.0	1.0
	.98	1.0	1.0
	1.0	1.0	1.0
67°F (19°C)	.79	.81	.84
	.88	.90	.94
	.96	.97	1.0
71°F (22°C)	.64	.65	.68
	.71	.72	.76
	.77	.79	.84

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

HP27-024 — COOLING CAPACITY — C33-38A/B - C26-41

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	kW	Btuh		75°F 24°C	80°F 27°C	kW	Btuh		75°F 24°C	80°F 27°C	kW	Btuh		75°F 24°C	80°F 27°C
63°F (17°C)	285	600	7.1	24,200	1470	.70	.83	6.8	23,300	1670	.72	.85	6.6	22,400	1880	.73	.86	6.3	21,400	2120	.74	.88
	380	800	7.5	25,600	1450	.76	.92	7.2	24,600	1660	.78	.93	6.9	23,600	1880	.79	.96	6.7	22,700	2120	.81	.97
	470	1000	7.9	26,800	1440	.83	.99	7.6	25,800	1650	.85	1.0	7.3	24,800	1870	.87	1.0	7.0	23,900	2110	.88	1.0
67°F (19°C)	285	600	7.6	26,100	1450	.56	.67	7.3	25,000	1660	.56	.69	7.0	24,000	1870	.57	.70	6.7	23,000	2110	.57	.71
	380	800	8.1	27,500	1440	.59	.74	7.7	26,300	1650	.60	.75	7.4	25,200	1870	.61	.77	7.1	24,100	2110	.62	.79
	470	1000	8.3	28,400	1430	.63	.80	7.9	27,100	1640	.64	.82	7.6	25,900	1860	.65	.84	7.3	24,800	2100	.66	.86
71°F (22°C)	285	600	8.2	28,100	1440	.42	.53	7.9	27,000	1640	.42	.54	7.6	25,900	1870	.42	.55	7.3	24,800	2100	.43	.55
	380	800	8.6	29,500	1430	.43	.57	8.3	28,300	1640	.43	.58	7.9	27,000	1870	.44	.59	7.6	25,800	2100	.45	.60
	470	1000	8.9	30,400	1430	.45	.61	8.5	29,000	1640	.45	.63	8.1	27,700	1870	.46	.64	7.8	26,500	2100	.46	.65

Entering Wet Bulb Temperature	Sensible To Total Ratio (S/T) Dry Bulb		
	85°F 29°C		
63°F (17°C)	.97	1.0	1.0
	1.0	1.0	1.0
	1.0	1.0	1.0
67°F (19°C)	.81	.83	.84
	.90	.92	.94
	.98	1.0	1.0
71°F (22°C)	.66	.67	.68
	.73	.74	.76
	.80	.82	.84

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

HP27-024 — HEATING CAPACITY — CVP10-41/EC10Q3

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	
285	600	9.0	30,800	1715	7.0	23,900	1585	4.9	16,800	1445	3.3	11,400	1320	1.6	5,500	1000
380	800	9.2	31,500	1580	7.2	24,600	1450	5.1	17,500	1310	3.5	12,100	1185	1.8	6,200	865
470	1000	9.4	32,000	1505	7.4	25,100	1375	5.3	18,000	1235	3.7	12,600	1110	2.0	6,700	790

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

HP27-024 — HEATING CAPACITY — C33-38A/B - C26-41

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	
285	600	8.7	29,600	1945	6.8	23,200	1755	4.8	16,500	1560	3.3	11,300	1395	1.6	5,400	1060
380	800	8.9	30,300	1815	7.0	23,900	1625	5.0	17,200	1430	3.5	12,000	1265	1.8	6,100	930
470	1000	9.0	30,800	1730	7.2	24,400	1540	5.2	17,700	1345	3.7	12,500	1180	1.9	6,600	845

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

HP27-024 — HEATING PERFORMANCE CVP10-41/EC10Q3 at 800 cfm (380 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	1580	31,500	9.2
60	16	1550	29,800	8.7
55	13	1520	28,200	8.3
50	10	1495	26,600	7.8
47	8	1475	25,600	7.5
45	7	1450	24,600	7.2
40	4	1380	22,200	6.5
35	2	1315	19,700	5.8
30	-1	1310	18,600	5.5
25	-4	1310	17,500	5.1
20	-7	1305	16,500	4.8
17	-8	1305	15,800	4.6
15	-9	1295	15,100	4.4
10	-12	1265	13,500	4.0
5	-15	1185	12,100	3.5
0	-18	1105	10,600	3.1
-5	-21	1025	9,100	2.7
-10	-23	945	7,700	2.3
-15	-26	865	6,200	1.8
-20	-29	785	4,700	1.4

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

HP27-024 — HEATING PERFORMANCE C33-38A/B - C26-41 at 800 cfm (380 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	1815	30,300	8.9
60	16	1770	28,800	8.4
55	13	1730	27,300	8.0
50	10	1685	25,700	7.5
47	8	1660	24,800	7.3
45	7	1625	23,900	7.0
40	4	1540	21,500	6.3
35	2	1455	19,200	5.6
30	-1	1445	18,200	5.3
25	-4	1430	17,200	5.0
20	-7	1415	16,200	4.7
17	-8	1405	15,600	4.6
15	-9	1390	15,000	4.4
10	-12	1350	13,500	4.0
5	-15	1265	12,000	3.5
0	-18	1180	10,500	3.1
-5	-21	1095	9,100	2.7
-10	-23	1010	7,600	2.2
-15	-26	930	6,100	1.8
-20	-29	845	4,700	1.4

*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.

HP27-024 — COOLING CAPACITY — C26-46 - C33-48B/C

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°C)	285	600	7.1	24,300	1470	.70	.83	.95	6.9	23,400	1680	.71	.85	.97	6.6	22,400	1890	.72	.86	.99	6.3	21,500	2140	.74	.88	1.0
	380	800	7.6	25,800	1460	.77	.92	1.0	7.3	24,800	1670	.78	.94	1.0	6.9	23,700	1890	.80	.96	1.0	6.7	22,800	2130	.81	.98	1.0
	470	1000	7.9	27,000	1450	.83	.99	1.0	7.6	26,000	1660	.85	1.0	1.0	7.3	25,000	1880	.87	1.0	1.0	7.1	24,100	2120	.89	1.0	1.0
67°F (19°C)	285	600	7.7	26,200	1460	.56	.68	.79	7.4	25,200	1670	.56	.68	.81	7.1	24,100	1890	.57	.70	.82	6.8	23,100	2130	.57	.71	.84
	380	800	8.1	27,700	1450	.59	.74	.88	7.8	26,500	1660	.60	.75	.91	7.4	25,300	1880	.61	.77	.93	7.1	24,200	2120	.62	.79	.95
	470	1000	8.4	28,600	1440	.63	.81	.96	8.0	27,300	1660	.64	.82	.98	7.6	26,100	1880	.65	.85	1.0	7.3	25,000	2110	.67	.86	1.0
71°F (22°C)	285	600	8.3	28,300	1440	.42	.53	.65	7.9	27,100	1660	.42	.54	.66	7.6	26,000	1880	.42	.55	.67	7.3	24,900	2120	.43	.55	.68
	380	800	8.7	29,700	1440	.43	.57	.71	8.3	28,400	1660	.44	.58	.73	8.0	27,200	1880	.44	.59	.75	7.6	26,000	2120	.44	.60	.76
	470	1000	9.0	30,700	1430	.45	.62	.78	8.6	29,200	1660	.45	.63	.80	8.2	27,900	1880	.46	.64	.82	7.8	26,600	2120	.47	.66	.84

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

HP27-024 — COOLING CAPACITY — CR26-51

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°C)	285	600	7.0	23,800	1480	.70	.83	.95	6.7	22,900	1680	.71	.84	.96	6.4	22,000	1900	.72	.85	.98	6.2	21,100	2140	.73	.87	1.0
	380	800	7.4	25,200	1470	.76	.91	1.0	7.1	24,200	1670	.77	.93	1.0	6.8	23,200	1890	.79	.95	1.0	6.5	22,300	2130	.81	.96	1.0
	470	1000	7.7	26,300	1450	.82	.98	1.0	7.4	25,300	1660	.84	.99	1.0	7.1	24,300	1890	.85	1.0	1.0	6.9	23,400	2120	.88	1.0	1.0
67°F (19°C)	285	600	7.5	25,700	1460	.55	.67	.79	7.2	24,700	1670	.56	.68	.81	6.9	23,700	1890	.56	.69	.82	6.7	22,700	2130	.57	.70	.84
	380	800	7.9	27,100	1450	.59	.73	.87	7.6	26,000	1660	.59	.75	.89	7.3	24,800	1880	.60	.76	.91	7.0	23,800	2120	.61	.78	.93
	470	1000	8.2	28,000	1440	.62	.79	.95	7.9	26,800	1660	.63	.81	.97	7.5	25,600	1880	.64	.83	.98	7.2	24,400	2120	.66	.85	1.0
71°F (22°C)	285	600	8.1	27,700	1450	.42	.53	.64	7.8	26,600	1660	.42	.54	.65	7.5	25,500	1880	.42	.55	.66	7.2	24,400	2120	.43	.55	.68
	380	800	8.6	29,200	1440	.43	.57	.70	8.2	27,900	1660	.43	.58	.72	7.8	26,700	1880	.44	.59	.73	7.5	25,500	2120	.44	.60	.75
	470	1000	8.8	30,100	1440	.45	.60	.76	8.4	28,700	1660	.45	.62	.79	8.0	27,400	1880	.45	.63	.81	7.7	26,200	2120	.46	.65	.83

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

HP27-024 — HEATING CAPACITY — C26-46 - C33-38B/C

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	
285	600	8.7	29,600	1990	6.8	23,200	1800	4.8	16,500	1600	3.3	11,300	1430	1.6	5,400	1095
380	800	8.9	30,300	1835	7.0	23,900	1645	5.0	17,200	1445	3.5	12,000	1275	1.8	6,100	940
470	1000	9.0	30,800	1750	7.2	24,400	1560	5.2	17,700	1360	3.7	12,500	1190	1.9	6,600	855

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

HP27-024 — HEATING CAPACITY — CR26-51

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	
285	600	8.9	30,500	1805	6.9	23,700	1655	4.9	16,800	1495	3.3	11,400	1360	1.6	5,500	1030
380	800	9.1	31,200	1665	7.2	24,400	1515	5.1	17,500	1355	3.5	12,100	1220	1.8	6,200	890
470	1000	9.3	31,700	1580	7.3	24,900	1430	5.3	18,000	1270	3.7	12,600	1135	2.0	6,700	805

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

HP27-024 — HEATING PERFORMANCE C26-46 - C33-38B/C at 800 cfm (380 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	1835	30,300	8.9
60	16	1795	28,800	8.4
55	13	1750	27,300	8.0
50	10	1705	25,700	7.5
47	8	1680	24,800	7.3
45	7	1645	23,900	7.0
40	4	1560	21,500	6.3
35	2	1475	19,200	5.6
30	-1	1460	18,200	5.3
25	-4	1445	17,200	5.0
20	-7	1430	16,200	4.7
17	-8	1420	15,600	4.6
15	-9	1405	15,000	4.4
10	-12	1360	13,500	4.0
5	-15	1275	12,000	3.5
0	-18	1190	10,500	3.1
-5	-21	1105	9,100	2.7
-10	-23	1025	7,600	2.2
-15	-26	940	6,100	1.8
-20	-29	855	4,700	1.4

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

HP27-024 — HEATING PERFORMANCE CR26-51 at 800 cfm (380 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	1665	31,200	9.1
60	16	1630	29,600	8.7
55	13	1600	28,000	8.2
50	10	1565	26,400	7.7
47	8	1545	25,400	7.4
45	7	1515	24,400	7.2
40	4	1445	22,000	6.4
35	2	1370	19,600	5.7
30	-1	1365	18,600	5.5
25	-4	1355	17,500	5.1
20	-7	1350	16,400	4.8
17	-8	1350	15,800	4.6
15	-9	1335	15,200	4.5
10	-12	1300	13,600	4.0
5	-15	1220	12,100	3.5
0	-18	1135	10,600	3.1
-5	-21	1055	9,200	2.7
-10	-23	975	7,700	2.3
-15	-26	890	6,200	1.8
-20	-29	810	4,700	1.4

*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.

HP27-024 — COOLING CAPACITY — CR26-65

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°C)	285	600	7.2	24,400	1470	.70	.83	.95	6.9	23,400	1670	.71	.84	.97	6.6	22,400	1890	.72	.86	.99	6.3	21,500	2140	.73	.88	1.0
	380	800	7.6	25,900	1460	.76	.92	1.0	7.3	24,800	1670	.78	.94	1.0	7.0	23,800	1890	.79	.95	1.0	6.7	22,800	2130	.81	.98	1.0
	470	1000	7.9	27,100	1450	.83	.99	1.0	7.6	26,000	1660	.85	1.0	1.0	7.4	25,100	1880	.86	1.0	1.0	7.1	24,100	2120	.88	1.0	1.0
67°F (19°C)	285	600	7.7	26,300	1450	.56	.67	.79	7.4	25,200	1660	.56	.68	.81	7.1	24,200	1890	.57	.69	.82	6.8	23,100	2120	.57	.71	.84
	380	800	8.1	27,800	1440	.59	.74	.88	7.8	26,600	1660	.60	.75	.90	7.4	25,400	1880	.61	.77	.92	7.1	24,300	2120	.62	.79	.94
	470	1000	8.4	28,800	1440	.63	.80	.96	8.0	27,400	1660	.64	.82	.98	7.7	26,200	1880	.65	.84	1.0	7.3	25,000	2110	.66	.86	1.0
71°F (22°C)	285	600	8.3	28,400	1440	.42	.53	.64	8.0	27,200	1660	.42	.54	.65	7.6	26,100	1880	.43	.54	.66	7.3	25,000	2110	.43	.55	.68
	380	800	8.8	29,900	1430	.43	.57	.71	8.4	28,600	1660	.43	.58	.72	8.0	27,300	1880	.44	.59	.74	7.6	26,100	2120	.44	.60	.76
	470	1000	9.1	30,900	1430	.45	.61	.78	8.6	29,400	1660	.45	.63	.80	8.2	28,100	1880	.46	.64	.82	7.9	26,800	2120	.46	.65	.84

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

HP27-024 — COOLING CAPACITY — CH33-44B-F - CH23-51

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°C)	285	600	7.1	24,200	1480	.71	.83	.95	6.8	23,200	1680	.72	.85	.97	6.5	22,300	1900	.73	.87	.99	6.3	21,400	2140	.74	.88	1.0
	380	800	7.5	25,600	1460	.77	.92	1.0	7.2	24,600	1670	.78	.94	1.0	6.9	23,600	1890	.80	.96	1.0	6.6	22,600	2130	.81	.98	1.0
	470	1000	7.9	26,800	1450	.83	.99	1.0	7.6	25,800	1660	.85	1.0	1.0	7.3	24,900	1880	.87	1.0	1.0	7.0	23,900	2120	.89	1.0	1.0
67°F (19°C)	285	600	7.6	26,000	1460	.56	.68	.80	7.3	25,000	1670	.56	.69	.81	7.0	24,000	1890	.57	.70	.83	6.7	23,000	2130	.57	.71	.85
	380	800	8.0	27,400	1450	.59	.74	.88	7.7	26,300	1660	.60	.76	.90	7.4	25,200	1880	.61	.77	.93	7.1	24,100	2120	.62	.79	.95
	470	1000	8.3	28,400	1440	.63	.81	.97	7.9	27,100	1660	.64	.83	.98	7.6	25,900	1880	.66	.85	1.0	7.3	24,800	2120	.67	.87	1.0
71°F (22°C)	285	600	8.2	28,100	1450	.42	.53	.65	7.9	26,900	1660	.42	.54	.66	7.6	25,800	1880	.43	.55	.67	7.2	24,700	2120	.43	.55	.68
	380	800	8.6	29,500	1440	.43	.57	.72	8.3	28,200	1660	.44	.59	.73	7.9	27,000	1880	.44	.59	.75	7.6	25,800	2120	.45	.60	.77
	470	1000	8.9	30,400	1440	.45	.62	.78	8.5	29,000	1660	.46	.63	.80	8.1	27,700	1880	.46	.64	.82	7.7	26,400	2120	.47	.66	.84

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

HP27-024 — HEATING CAPACITY — CR26-65

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	
285	600	9.0	30,700	1725	7.0	23,800	1595	4.9	16,700	1450	3.3	11,300	1325	1.6	5,400	1005
380	800	9.2	31,500	1590	7.2	24,600	1460	5.1	17,500	1315	3.5	12,100	1190	1.8	6,200	870
470	1000	9.4	32,000	1510	7.4	25,100	1380	5.3	18,000	1235	3.7	12,600	1110	2.0	6,700	790

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

HP27-024 — HEATING CAPACITY — CH33-44B-F - CH23-51

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	
285	600	9.0	30,600	1755	6.9	23,700	1615	4.9	16,700	1460	3.3	11,200	1330	1.6	5,400	1005
380	800	9.2	31,300	1620	7.2	24,400	1480	5.1	17,400	1325	3.5	11,900	1195	1.8	6,100	870
470	1000	9.3	31,800	1545	7.3	24,900	1405	5.2	17,900	1250	3.6	12,400	1120	1.9	6,600	795

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

HP27-024 — HEATING PERFORMANCE CR26-65 at 800 cfm (380 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	1590	31,500	9.2
60	16	1565	29,800	8.7
55	13	1535	28,200	8.3
50	10	1505	26,600	7.8
47	8	1485	25,600	7.5
45	7	1460	24,600	7.2
40	4	1390	22,200	6.5
35	2	1320	19,700	5.8
30	-1	1320	18,600	5.5
25	-4	1315	17,500	5.1
20	-7	1315	16,500	4.8
17	-8	1310	15,800	4.6
15	-9	1300	15,100	4.4
10	-12	1270	13,500	4.0
5	-15	1190	12,100	3.5
0	-18	1110	10,600	3.1
-5	-21	1030	9,100	2.7
-10	-23	950	7,700	2.3
-15	-26	870	6,200	1.8
-20	-29	785	4,700	1.4

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

HP27-024 — HEATING PERFORMANCE CH33-44B-F - CH23-51 at 800 cfm (380 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	1620	31,300	9.2
60	16	1590	29,600	8.7
55	13	1560	28,000	8.2
50	10	1525	26,400	7.7
47	8	1510	25,400	7.4
45	7	1480	24,400	7.2
40	4	1410	22,000	6.4
35	2	1335	19,500	5.7
30	-1	1330	18,500	5.4
25	-4	1325	17,400	5.1
20	-7	1320	16,300	4.8
17	-8	1320	15,600	4.6
15	-9	1305	14,900	4.4
10	-12	1275	13,300	3.9
5	-15	1195	11,900	3.5
0	-18	1115	10,400	3.0
-5	-21	1030	9,000	2.6
-10	-23	950	7,600	2.2
-15	-26	870	6,100	1.8
-20	-29	790	4,700	1.4

*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.

HP27-024 — COOLING CAPACITY — CH33-48C-F - 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°C)	285	600	7.1	24,300	1470	.70	.83	.95	6.9	23,400	1680	.71	.85	.97	6.6	22,500	1890	.72	.86	.99	6.3	21,500	2140	.73	.88	1.0
	380	800	7.6	25,900	1460	.77	.92	1.0	7.3	24,800	1670	.78	.94	1.0	7.0	23,800	1890	.80	.96	1.0	6.7	22,800	2130	.81	.98	1.0
	470	1000	7.9	27,100	1450	.83	.99	1.0	7.6	26,000	1660	.85	1.0	1.0	7.4	25,100	1880	.87	1.0	1.0	7.1	24,100	2120	.89	1.0	1.0
67°F (19°C)	285	600	7.7	26,300	1460	.56	.67	.79	7.4	25,200	1670	.56	.69	.81	7.1	24,200	1890	.57	.69	.82	6.8	23,100	2130	.58	.71	.84
	380	800	8.1	27,800	1450	.59	.74	.88	7.8	26,500	1660	.60	.75	.90	7.4	25,400	1880	.61	.77	.92	7.1	24,300	2120	.62	.79	.94
	470	1000	8.4	28,700	1440	.63	.80	.96	8.0	27,400	1660	.64	.82	.98	7.7	26,200	1880	.66	.84	1.0	7.3	25,000	2110	.67	.87	1.0
71°F (22°C)	285	600	8.3	28,400	1440	.42	.53	.64	8.0	27,200	1660	.42	.54	.65	7.6	26,100	1880	.43	.54	.67	7.3	24,900	2120	.43	.55	.68
	380	800	8.8	29,900	1440	.43	.57	.71	8.4	28,500	1660	.44	.58	.73	8.0	27,200	1880	.44	.59	.74	7.6	26,000	2120	.45	.60	.77
	470	1000	9.0	30,800	1430	.45	.61	.78	8.6	29,300	1660	.45	.63	.80	8.2	28,000	1880	.46	.64	.82	7.8	26,700	2120	.46	.66	.84

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

HP27-030 — 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°C)	380	800	8.0	27,200	1610	.74	.89	1.0	7.6	26,100	1830	.75	.90	1.0	7.4	25,100	2070	.77	.92	1.0	7.1	24,100	2330	.78	.94	1.0
	470	1000	8.3	28,300	1610	.80	.96	1.0	8.0	27,200	1830	.81	.97	1.0	7.7	26,200	2070	.83	.99	1.0	7.4	25,200	2330	.85	1.0	1.0
	565	1200	8.6	29,400	1610	.85	1.0	1.0	8.3	28,300	1830	.87	1.0	1.0	8.0	27,300	2070	.89	1.0	1.0	7.7	26,300	2330	.91	1.0	1.0
67°F (19°C)	380	800	8.5	29,100	1610	.58	.71	.85	8.2	27,900	1830	.58	.73	.87	7.9	26,800	2070	.59	.74	.89	7.5	25,700	2330	.60	.76	.91
	470	1000	8.8	30,100	1610	.61	.77	.93	8.4	28,800	1840	.62	.79	.95	8.1	27,600	2080	.63	.81	.96	7.7	26,400	2330	.64	.83	.98
	565	1200	9.0	30,800	1610	.64	.83	.98	8.6	29,400	1840	.66	.85	1.0	8.3	28,200	2080	.67	.87	1.0	7.9	27,000	2340	.69	.89	1.0
71°F (22°C)	380	800	9.1	31,200	1600	.43	.56	.69	8.8	29,900	1840	.43	.57	.70	8.4	28,700	2080	.44	.57	.72	8.1	27,500	2340	.44	.59	.73
	470	1000	9.4	32,200	1600	.44	.60	.75	9.0	30,800	1840	.44	.61	.77	8.6	29,500	2080	.45	.62	.79	8.3	28,200	2340	.45	.63	.80
	565	1200	9.6	32,900	1600	.46	.63	.81	9.2	31,400	1840	.46	.65	.83	8.8	30,000	2080	.47	.66	.85	8.4	28,700	2340	.47	.68	.87

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

HP27-024 — HEATING CAPACITY — - CH33-48C-F - 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	
285	600	9.1	30,900	1740	7.0	23,900	1600	4.9	16,700	1445	3.3	11,100	1315	1.6	5,400	995
380	800	9.3	31,600	1605	7.2	24,600	1465	5.1	17,400	1310	3.5	11,800	1180	1.8	6,100	860
470	1000	9.4	32,200	1535	7.4	25,200	1395	5.3	18,000	1240	3.6	12,400	1110	2.0	6,700	790

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

HP27-030 — 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	
380	800	9.6	32,600	2055	7.6	25,800	1875	5.5	18,900	1695	3.9	13,300	1495	1.9	6,600	1125
470	1000	9.7	33,000	1945	7.7	26,200	1765	5.7	19,300	1585	4.0	13,700	1385	2.1	7,000	1015
565	1200	9.7	33,200	1880	7.7	26,400	1700	5.7	19,500	1520	4.1	13,900	1320	2.1	7,200	950

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

HP27-024 — HEATING PERFORMANCE CH33-48C-F - CH23-65 at 800 cfm (380 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	1605	31,600	9.3
60	16	1575	29,900	8.8
55	13	1540	28,300	8.3
50	10	1510	26,600	7.8
47	8	1490	25,600	7.5
45	7	1465	24,600	7.2
40	4	1395	22,100	6.5
35	2	1320	19,700	5.8
30	-1	1315	18,500	5.4
25	-4	1310	17,400	5.1
20	-7	1305	16,300	4.8
17	-8	1305	15,600	4.6
15	-9	1290	14,900	4.4
10	-12	1260	13,300	3.9
5	-15	1180	11,800	3.5
0	-18	1100	10,400	3.0
-5	-21	1020	9,000	2.6
-10	-23	940	7,500	2.2
-15	-26	860	6,100	1.8
-20	-29	780	4,700	1.4

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

HP27-030 — HEATING PERFORMANCE CB29M-46 at 1000 cfm (470 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	1945	33,000	9.7
60	16	1900	31,400	9.2
55	13	1860	29,800	8.7
50	10	1815	28,200	8.3
47	8	1790	27,200	8.0
45	7	1765	26,200	7.7
40	4	1705	23,900	7.0
35	2	1645	21,500	6.3
30	-1	1615	20,400	6.0
25	-4	1585	19,300	5.7
20	-7	1555	18,200	5.3
17	-8	1535	17,600	5.2
15	-9	1520	17,000	5.0
10	-12	1475	15,400	4.5
5	-15	1385	13,700	4.0
0	-18	1290	12,000	3.5
-5	-21	1200	10,300	3.0
-10	-23	1105	8,600	2.5
-15	-26	1015	7,000	2.1
-20	-29	920	5,300	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.

HP27-030 — COOLING CAPACITY — CB30U-31 — 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°C)	380	800	8.0	27,400	1610	.74	.89	1.0	7.7	26,400	1830	.76	.90	1.0	7.4	25,300	2060	.77	.92	1.0	7.1	24,300	2330	.78	.94	1.0
	470	1000	8.4	28,500	1610	.80	.96	1.0	8.0	27,400	1830	.82	.97	1.0	7.7	26,400	2060	.83	.99	1.0	7.4	25,400	2320	.85	1.0	1.0
	565	1200	8.7	29,600	1610	.85	1.0	1.0	8.4	28,600	1830	.87	1.0	1.0	8.1	27,500	2070	.89	1.0	1.0	7.8	26,500	2330	.91	1.0	1.0
67°F (19°C)	380	800	8.6	29,300	1610	.58	.72	.85	8.2	28,100	1830	.58	.73	.87	7.9	27,000	2070	.59	.74	.89	7.6	25,900	2330	.60	.76	.91
	470	1000	8.9	30,300	1610	.61	.78	.92	8.5	29,000	1840	.62	.79	.95	8.1	27,800	2070	.63	.81	.96	7.8	26,600	2330	.64	.83	.98
	565	1200	9.1	31,000	1600	.65	.83	.98	8.7	29,700	1840	.66	.85	1.0	8.3	28,400	2080	.67	.87	1.0	8.0	27,200	2330	.68	.89	1.0
71°F (22°C)	380	800	9.2	31,500	1600	.43	.56	.69	8.9	30,200	1830	.43	.57	.70	8.5	28,900	2080	.44	.58	.72	8.1	27,700	2330	.44	.58	.73
	470	1000	9.5	32,500	1600	.44	.59	.75	9.1	31,100	1840	.44	.60	.77	8.7	29,700	2080	.45	.62	.79	8.3	28,400	2340	.45	.63	.80
	565	1200	9.7	33,200	1600	.45	.63	.81	9.3	31,700	1840	.46	.65	.83	8.9	30,300	2080	.47	.66	.85	8.5	28,900	2340	.47	.67	.87

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

HP27-030 — COOLING CAPACITY — CB30U-41/46 — 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°C)	380	800	8.0	27,400	1610	.74	.88	1.0	7.7	26,300	1830	.75	.90	1.0	7.4	25,300	2060	.77	.92	1.0	7.1	24,200	2330	.78	.94	1.0
	470	1000	8.4	28,500	1610	.80	.96	1.0	8.0	27,400	1830	.82	.97	1.0	7.7	26,300	2070	.83	.99	1.0	7.4	25,300	2330	.85	1.0	1.0
	565	1200	8.7	29,600	1610	.85	1.0	1.0	8.4	28,500	1830	.87	1.0	1.0	8.1	27,500	2070	.89	1.0	1.0	7.8	26,500	2330	.91	1.0	1.0
67°F (19°C)	380	800	8.6	29,300	1610	.58	.71	.85	8.2	28,100	1830	.58	.73	.87	7.9	27,000	2070	.59	.74	.89	7.6	25,800	2330	.60	.76	.90
	470	1000	8.9	30,300	1610	.61	.78	.92	8.5	29,000	1830	.62	.79	.95	8.1	27,800	2070	.63	.81	.96	7.8	26,600	2330	.64	.83	.98
	565	1200	9.1	31,000	1600	.65	.83	.98	8.7	29,700	1840	.66	.85	1.0	8.3	28,400	2080	.67	.87	1.0	8.0	27,200	2330	.69	.89	1.0
71°F (22°C)	380	800	9.2	31,500	1600	.43	.56	.69	8.9	30,200	1840	.43	.57	.70	8.5	28,900	2080	.43	.57	.72	8.1	27,600	2340	.44	.59	.73
	470	1000	9.5	32,500	1600	.44	.59	.75	9.1	31,100	1840	.44	.60	.77	8.7	29,700	2080	.45	.62	.78	8.3	28,400	2340	.45	.63	.80
	565	1200	9.7	33,200	1600	.45	.63	.80	9.3	31,700	1840	.46	.65	.83	8.9	30,300	2080	.47	.66	.85	8.5	28,900	2340	.47	.67	.87

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

HP27-030 — HEATING CAPACITY — CB30U-31 — 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	
380	800	9.7	33,200	2010	7.7	26,200	1840	5.6	19,000	1670	3.9	13,200	1475	1.9	6,500	1100
470	1000	9.8	33,600	1925	7.8	26,600	1755	5.7	19,400	1585	4.0	13,600	1390	2.0	6,900	1015
565	1200	10.0	34,000	1865	7.9	27,000	1695	5.8	19,800	1525	4.1	14,000	1330	2.1	7,300	955

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

HP27-030 — HEATING CAPACITY — CB30U-41/46 — 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	
380	800	9.7	33,200	2180	7.7	26,200	1950	5.6	19,000	1715	3.9	13,200	1475	1.9	6,500	1115
470	1000	9.8	33,600	2085	7.8	26,600	1855	5.7	19,400	1620	4.0	13,600	1380	2.0	6,900	1020
565	1200	10.0	34,000	2020	7.9	27,000	1790	5.8	19,800	1555	4.1	14,000	1315	2.1	7,300	955

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

HP27-030 — HEATING PERFORMANCE CB30U/CB30M-31 at 1000 cfm (470 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	1925	33,600	9.8
60	16	1885	31,900	9.3
55	13	1845	30,300	8.9
50	10	1805	28,600	8.4
47	8	1780	27,600	8.1
45	7	1755	26,600	7.8
40	4	1700	24,200	7.1
35	2	1640	21,700	6.4
30	-1	1615	20,600	6.0
25	-4	1585	19,400	5.7
20	-7	1555	18,300	5.4
17	-8	1540	17,600	5.2
15	-9	1525	16,900	5.0
10	-12	1485	15,300	4.5
5	-15	1390	13,600	4.0
0	-18	1295	11,900	3.5
-5	-21	1205	10,300	3.0
-10	-23	1110	8,600	2.5
-15	-26	1015	6,900	2.0
-20	-29	925	5,300	1.6

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

HP27-030 — HEATING PERFORMANCE CB30U-41/46/CB30M-41 at 1000 cfm (470 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	2085	33,600	9.8
60	16	2030	31,900	9.3
55	13	1975	30,300	8.9
50	10	1920	28,600	8.4
47	8	1885	27,600	8.1
45	7	1855	26,600	7.8
40	4	1780	24,200	7.1
35	2	1705	21,700	6.4
30	-1	1665	20,600	6.0
25	-4	1620	19,400	5.7
20	-7	1575	18,300	5.4
17	-8	1550	17,600	5.2
15	-9	1530	16,900	5.0
10	-12	1470	15,300	4.5
5	-15	1380	13,600	4.0
0	-18	1290	11,900	3.5
-5	-21	1200	10,300	3.0
-10	-23	1110	8,600	2.5
-15	-26	1020	6,900	2.0
-20	-29	930	5,300	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.

HP27-030 — COOLING 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°C)	380	800	8.0	27,400	1610	.74	.88	1.0	7.7	26,300	1830	.75	.90	1.0	7.4	25,300	2060	.77	.92	1.0	7.1	24,200	2330	.78	.94	1.0
	470	1000	8.4	28,500	1610	.80	.96	1.0	8.0	27,400	1830	.82	.97	1.0	7.7	26,300	2070	.83	.99	1.0	7.4	25,300	2330	.85	1.0	1.0
	565	1200	8.7	29,600	1610	.85	1.0	1.0	8.4	28,500	1830	.87	1.0	1.0	8.1	27,500	2070	.89	1.0	1.0	7.8	26,500	2330	.91	1.0	1.0
67°F (19°C)	380	800	8.6	29,300	1610	.58	.71	.85	8.2	28,100	1830	.58	.73	.87	7.9	27,000	2070	.59	.74	.89	7.6	25,800	2330	.60	.76	.90
	470	1000	8.9	30,300	1610	.61	.78	.92	8.5	29,000	1830	.62	.79	.95	8.1	27,800	2070	.63	.81	.96	7.8	26,600	2330	.64	.83	.98
	565	1200	9.1	31,000	1600	.65	.83	.98	8.7	29,700	1840	.66	.85	1.0	8.3	28,400	2080	.67	.87	1.0	8.0	27,200	2330	.69	.89	1.0
71°F (22°C)	380	800	9.2	31,500	1600	.43	.56	.69	8.9	30,200	1840	.43	.57	.70	8.5	28,900	2080	.43	.57	.72	8.1	27,600	2340	.44	.59	.73
	470	1000	9.5	32,500	1600	.44	.59	.75	9.1	31,100	1840	.44	.60	.77	8.7	29,700	2080	.45	.62	.78	8.3	28,400	2340	.45	.63	.80
	565	1200	9.7	33,200	1600	.45	.63	.80	9.3	31,700	1840	.46	.65	.83	8.9	30,300	2080	.47	.66	.85	8.5	28,900	2340	.47	.67	.87

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

HP27-030 — COOLING CAPACITY — CVP10-31/EC10Q3

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°C)	380	800	7.6	26,000	1610	.74	.88	1.0	7.4	25,100	1830	.76	.90	1.0	7.1	24,100	2070	.77	.92	1.0	6.8	23,100	2330	.78	.94	1.0
	470	1000	7.9	27,100	1610	.80	.96	1.0	7.6	26,100	1830	.81	.97	1.0	7.4	25,100	2060	.83	.98	1.0	7.1	24,200	2320	.85	1.0	1.0
	565	1200	8.2	28,100	1610	.85	1.0	1.0	8.0	27,200	1830	.87	1.0	1.0	7.7	26,200	2070	.89	1.0	1.0	7.4	25,200	2330	.91	1.0	1.0
67°F (19°C)	380	800	8.1	27,800	1610	.58	.72	.85	7.8	26,700	1830	.58	.73	.87	7.5	25,700	2070	.59	.74	.88	7.2	24,600	2320	.60	.76	.90
	470	1000	8.4	28,700	1610	.61	.77	.92	8.1	27,600	1830	.62	.79	.94	7.8	26,500	2070	.63	.81	.96	7.4	25,400	2330	.64	.82	.98
	565	1200	8.6	29,500	1610	.64	.83	.98	8.3	28,200	1830	.66	.85	.99	7.9	27,100	2070	.67	.87	1.0	7.6	25,900	2330	.68	.89	1.0
71°F (22°C)	380	800	8.8	29,900	1600	.43	.56	.69	8.4	28,600	1830	.43	.57	.70	8.1	27,500	2080	.43	.57	.72	7.7	26,400	2330	.44	.58	.73
	470	1000	9.0	30,800	1600	.44	.59	.75	8.6	29,500	1830	.44	.61	.77	8.3	28,300	2080	.45	.61	.78	7.9	27,100	2330	.45	.63	.80
	565	1200	9.2	31,500	1600	.45	.63	.81	8.8	30,100	1840	.46	.64	.82	8.4	28,800	2080	.47	.66	.85	8.1	27,600	2340	.47	.67	.87

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

HP27-030 — 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	
380	800	9.3	31,600	2045	7.4	25,100	1845	5.4	18,300	1645	3.8	12,800	1430	1.8	6,300	1075
470	1000	9.4	32,000	1950	7.5	25,500	1750	5.5	18,700	1550	3.9	13,200	1335	2.0	6,700	980
565	1200	9.5	32,400	1885	7.6	25,900	1685	5.6	19,100	1485	4.0	13,600	1270	2.1	7,100	915

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

HP27-030 — HEATING CAPACITY — CVP10-31/EC10Q3

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	9.6	32,600	1965	7.6	25,800	1830	5.5	18,900	1690	3.9	13,300	1520	1.9	6,400	1135
470	1000	9.7	33,200	1855	7.7	26,400	1720	5.7	19,500	1580	4.1	13,900	1410	2.1	7,000	1025
565	1200	9.8	33,600	1785	7.9	26,800	1650	5.8	19,900	1510	4.2	14,300	1340	2.2	7,400	955

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

HP27-030 — HEATING PERFORMANCE CB31MV-41 at 1000 cfm (470 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	1950	32,000	9.4
60	16	1900	30,500	8.9
55	13	1855	28,900	8.5
50	10	1805	27,300	8.0
47	8	1775	26,400	7.7
45	7	1750	25,500	7.5
40	4	1685	23,200	6.8
35	2	1620	20,800	6.1
30	-1	1585	19,800	5.8
25	-4	1550	18,700	5.5
20	-7	1510	17,600	5.2
17	-8	1490	17,000	5.0
15	-9	1470	16,400	4.8
10	-12	1425	14,800	4.3
5	-15	1335	13,200	3.9
0	-18	1245	11,600	3.4
-5	-21	1160	10,000	2.9
-10	-23	1070	8,300	2.4
-15	-26	980	6,700	2.0
-20	-29	895	5,100	1.5

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

HP27-030 — HEATING PERFORMANCE CVP10-31/EC10Q3 at 1000 cfm (470 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	1855	33,200	9.7
60	16	1820	31,600	9.3
55	13	1790	30,000	8.8
50	10	1760	28,400	8.3
47	8	1740	27,400	8.0
45	7	1720	26,400	7.7
40	4	1670	24,100	7.1
35	2	1620	21,700	6.4
30	-1	1600	20,600	6.0
25	-4	1580	19,500	5.7
20	-7	1560	18,400	5.4
17	-8	1550	17,800	5.2
15	-9	1535	17,200	5.0
10	-12	1505	15,600	4.6
5	-15	1410	13,900	4.1
0	-18	1310	12,200	3.6
-5	-21	1215	10,500	3.1
-10	-23	1120	8,700	2.5
-15	-26	1025	7,000	2.1
-20	-29	930	5,300	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.

HP27-030 — COOLING CAPACITY — CVP10-41/EC10Q3

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°C)	380	800	7.7	26,400	1610	.74	.88	1.0	7.4	25,400	1830	.75	.90	1.0	7.2	24,400	2060	.77	.92	1.0	6.9	23,400	2330	.78	.94	1.0
	470	1000	8.1	27,500	1610	.79	.95	1.0	7.8	26,500	1830	.81	.97	1.0	7.4	25,400	2060	.83	.99	1.0	7.2	24,500	2320	.85	1.0	1.0
	565	1200	8.4	28,600	1610	.85	1.0	1.0	8.1	27,600	1830	.87	1.0	1.0	7.8	26,600	2070	.89	1.0	1.0	7.5	25,600	2330	.91	1.0	1.0
67°F (19°C)	380	800	8.3	28,300	1610	.58	.71	.85	7.9	27,100	1830	.58	.73	.86	7.6	26,000	2070	.59	.74	.88	7.3	24,900	2330	.60	.76	.90
	470	1000	8.6	29,300	1610	.61	.77	.92	8.2	28,000	1840	.62	.79	.94	7.9	26,900	2070	.63	.80	.96	7.5	25,700	2330	.64	.82	.98
	565	1200	8.8	30,000	1600	.64	.83	.98	8.4	28,700	1840	.65	.85	.99	8.1	27,500	2080	.67	.87	1.0	7.7	26,300	2330	.68	.89	1.0
71°F (22°C)	380	800	8.9	30,400	1600	.43	.56	.68	8.5	29,100	1830	.43	.56	.70	8.2	27,900	2080	.43	.57	.71	7.8	26,700	2330	.44	.58	.73
	470	1000	9.2	31,400	1600	.44	.59	.75	8.8	30,000	1840	.44	.60	.76	8.4	28,700	2080	.45	.62	.78	8.1	27,500	2340	.45	.63	.80
	565	1200	9.4	32,100	1600	.45	.63	.80	9.0	30,600	1840	.46	.64	.82	8.6	29,300	2080	.46	.66	.84	8.2	28,000	2340	.47	.67	.87

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

HP27-030 — COOLING CAPACITY — CVP10-46/EC10Q4

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°C)	380	800	7.7	26,400	1610	.74	.88	1.0	7.4	25,400	1830	.75	.90	1.0	7.2	24,400	2060	.77	.92	1.0	6.9	23,400	2330	.78	.94	1.0
	470	1000	8.1	27,500	1610	.79	.95	1.0	7.8	26,500	1830	.81	.97	1.0	7.4	25,400	2060	.83	.99	1.0	7.2	24,500	2320	.85	1.0	1.0
	565	1200	8.4	28,600	1610	.85	1.0	1.0	8.1	27,600	1830	.87	1.0	1.0	7.8	26,600	2070	.89	1.0	1.0	7.5	25,600	2330	.91	1.0	1.0
67°F (19°C)	380	800	8.3	28,300	1610	.58	.71	.85	7.9	27,100	1830	.58	.73	.86	7.6	26,000	2070	.59	.74	.88	7.3	24,900	2330	.60	.76	.90
	470	1000	8.6	29,300	1610	.61	.77	.92	8.2	28,000	1840	.62	.79	.94	7.9	26,900	2070	.63	.80	.96	7.5	25,700	2330	.64	.82	.98
	565	1200	8.8	30,000	1600	.64	.83	.98	8.4	28,700	1840	.65	.85	.99	8.1	27,500	2080	.67	.87	1.0	7.7	26,300	2330	.68	.89	1.0
71°F (22°C)	380	800	8.9	30,400	1600	.43	.56	.68	8.5	29,100	1830	.43	.56	.70	8.2	27,900	2080	.43	.57	.71	7.8	26,700	2330	.44	.58	.73
	470	1000	9.2	31,400	1600	.44	.59	.75	8.8	30,000	1840	.44	.60	.76	8.4	28,700	2080	.45	.62	.78	8.1	27,500	2340	.45	.63	.80
	565	1200	9.4	32,100	1600	.45	.63	.80	9.0	30,600	1840	.46	.64	.82	8.6	29,300	2080	.46	.66	.84	8.2	28,000	2340	.47	.67	.87

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

HP27-030 — HEATING CAPACITY — CVP10-41/EC10Q3

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	9.6	32,700	1905	7.6	25,900	1765	5.6	19,000	1605	3.9	13,400	1500	1.9	6,500	1120
470	1000	9.7	33,200	1800	7.7	26,400	1660	5.7	19,500	1500	4.1	13,900	1395	2.1	7,000	1015
565	1200	9.8	33,600	1735	7.9	26,800	1595	5.8	19,900	1435	4.2	14,300	1330	2.2	7,400	950

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

HP27-030 — HEATING CAPACITY — CVP10-46/EC10Q4

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	9.6	32,700	1905	7.6	25,900	1765	5.6	19,000	1605	3.9	13,400	1500	1.9	6,500	1120
470	1000	9.7	33,200	1800	7.7	26,400	1660	5.7	19,500	1500	4.1	13,900	1395	2.1	7,000	1015
565	1200	9.8	33,600	1735	7.9	26,800	1595	5.8	19,900	1435	4.2	14,300	1330	2.2	7,400	950

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

HP27-030 — HEATING PERFORMANCE CVP10-41/EC10Q3 at 1000 cfm (470 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	1800	33,200	9.7
60	16	1775	31,600	9.3
55	13	1745	30,000	8.8
50	10	1715	28,400	8.3
47	8	1700	27,400	8.0
45	7	1660	26,400	7.7
40	4	1560	24,100	7.1
35	2	1460	21,700	6.4
30	-1	1480	20,600	6.0
25	-4	1500	19,500	5.7
20	-7	1520	18,400	5.4
17	-8	1530	17,800	5.2
15	-9	1520	17,200	5.0
10	-12	1490	15,600	4.6
5	-15	1395	13,900	4.1
0	-18	1300	12,200	3.6
-5	-21	1205	10,500	3.1
-10	-23	1110	8,700	2.5
-15	-26	1015	7,000	2.1
-20	-29	920	5,300	1.6

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

HP27-030 — HEATING PERFORMANCE CVP10-46/EC10Q4 at 1000 cfm (470 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	1800	33,200	9.7
60	16	1775	31,600	9.3
55	13	1745	30,000	8.8
50	10	1715	28,400	8.3
47	8	1700	27,400	8.0
45	7	1660	26,400	7.7
40	4	1560	24,100	7.1
35	2	1460	21,700	6.4
30	-1	1480	20,600	6.0
25	-4	1500	19,500	5.7
20	-7	1520	18,400	5.4
17	-8	1530	17,800	5.2
15	-9	1520	17,200	5.0
10	-12	1490	15,600	4.6
5	-15	1395	13,900	4.1
0	-18	1300	12,200	3.6
-5	-21	1205	10,500	3.1
-10	-23	1110	8,700	2.5
-15	-26	1015	7,000	2.1
-20	-29	920	5,300	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.

HP27-030 — COOLING CAPACITY — C33-38A/B - C26-41

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°C)	380	800	8.0	27,200	1610	.74	.89	1.0	7.7	26,200	1830	.76	.90	1.0	7.4	25,100	2060	.77	.92	1.0	7.1	24,100	2330	.79	.94	1.0
	470	1000	8.3	28,300	1610	.80	.96	1.0	8.0	27,200	1830	.81	.97	1.0	7.7	26,200	2060	.83	.99	1.0	7.4	25,200	2320	.85	1.0	1.0
	565	1200	8.6	29,400	1610	.86	1.0	1.0	8.3	28,400	1830	.87	1.0	1.0	8.0	27,300	2070	.89	1.0	1.0	7.7	26,300	2330	.91	1.0	1.0
67°F (19°C)	380	800	8.5	29,100	1610	.58	.71	.85	8.2	27,900	1830	.58	.73	.87	7.9	26,800	2070	.59	.74	.89	7.5	25,700	2330	.60	.76	.91
	470	1000	8.8	30,100	1610	.61	.77	.92	8.4	28,800	1840	.62	.79	.95	8.1	27,600	2070	.63	.81	.96	7.7	26,400	2330	.64	.83	.98
	565	1200	9.0	30,800	1600	.64	.83	.98	8.6	29,500	1840	.66	.85	1.0	8.3	28,200	2080	.67	.87	1.0	7.9	27,000	2330	.68	.89	1.0
71°F (22°C)	380	800	9.2	31,300	1600	.43	.56	.69	8.8	30,000	1830	.43	.57	.70	8.4	28,700	2080	.44	.57	.72	8.1	27,500	2330	.44	.59	.73
	470	1000	9.5	32,300	1600	.44	.59	.75	9.0	30,800	1840	.44	.61	.77	8.6	29,500	2080	.45	.62	.78	8.3	28,200	2340	.45	.63	.80
	565	1200	9.6	32,900	1600	.46	.63	.81	9.2	31,500	1840	.46	.64	.83	8.8	30,100	2080	.47	.66	.85	8.4	28,700	2340	.47	.68	.87

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

HP27-030 — COOLING CAPACITY — C26-46 - C33-48B/C

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°C)	380	800	7.9	27,100	1610	.74	.89	1.0	7.6	26,100	1830	.76	.90	1.0	7.3	25,000	2060	.77	.92	1.0	7.0	24,000	2320	.79	.94	1.0
	470	1000	8.3	28,300	1610	.80	.96	1.0	8.0	27,200	1830	.82	.98	1.0	7.6	26,100	2070	.84	1.0	1.0	7.4	25,200	2330	.85	1.0	1.0
	565	1200	8.6	29,500	1610	.86	1.0	1.0	8.3	28,400	1830	.88	1.0	1.0	8.0	27,400	2070	.90	1.0	1.0	7.7	26,300	2330	.92	1.0	1.0
67°F (19°C)	380	800	8.5	29,100	1610	.58	.71	.85	8.2	27,900	1830	.58	.73	.87	7.8	26,700	2070	.59	.75	.89	7.5	25,500	2330	.60	.76	.91
	470	1000	8.8	30,100	1600	.61	.78	.93	8.4	28,800	1840	.62	.80	.95	8.1	27,500	2080	.63	.81	.97	7.7	26,300	2330	.64	.83	.99
	565	1200	9.0	30,800	1600	.65	.84	.99	8.6	29,500	1840	.66	.85	1.0	8.3	28,200	2080	.68	.88	1.0	7.9	26,900	2340	.69	.90	1.0
71°F (22°C)	380	800	9.1	31,200	1600	.43	.56	.69	8.8	29,900	1840	.43	.57	.70	8.4	28,600	2080	.43	.58	.72	8.0	27,400	2340	.44	.58	.73
	470	1000	9.4	32,200	1600	.44	.60	.75	9.0	30,800	1840	.44	.61	.77	8.6	29,400	2080	.45	.62	.79	8.2	28,100	2340	.46	.63	.81
	565	1200	9.6	32,900	1600	.46	.64	.81	9.2	31,400	1840	.46	.65	.83	8.8	30,000	2080	.47	.67	.85	8.4	28,600	2340	.48	.68	.88

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

HP27-030 — HEATING CAPACITY — C33-38A/B - C26-41

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	
380	800	9.5	32,400	2210	7.6	25,900	2030	5.6	19,100	1840	4.0	13,500	1625	2.0	6,700	1210
470	1000	9.6	32,800	2125	7.7	26,300	1945	5.7	19,500	1755	4.1	13,900	1540	2.1	7,100	1125
565	1200	9.7	33,200	2065	7.8	26,700	1885	5.8	19,900	1695	4.2	14,300	1480	2.2	7,500	1065

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

HP27-030 — HEATING CAPACITY — C26-46 - C33-48B/C

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	9.5	32,300	2145	7.6	25,800	1945	5.6	19,000	1740	3.9	13,400	1525	1.9	6,600	1150
470	1000	9.6	32,800	2025	7.7	26,300	1825	5.7	19,500	1620	4.1	13,900	1405	2.1	7,100	1030
565	1200	9.8	33,300	1955	7.9	26,800	1755	5.9	20,000	1550	4.2	14,400	1335	2.2	7,600	960

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

HP27-030 — HEATING PERFORMANCE C33-38A/B - C26-41 at 1000 cfm (470 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	2125	32,800	9.6
60	16	2080	31,300	9.2
55	13	2040	29,700	8.7
50	10	1995	28,100	8.2
47	8	1970	27,200	8.0
45	7	1945	26,300	7.7
40	4	1880	23,900	7.0
35	2	1815	21,600	6.3
30	-1	1785	20,500	6.0
25	-4	1755	19,500	5.7
20	-7	1725	18,400	5.4
17	-8	1705	17,800	5.2
15	-9	1685	17,200	5.0
10	-12	1645	15,600	4.6
5	-15	1540	13,900	4.1
0	-18	1435	12,200	3.6
-5	-21	1335	10,500	3.1
-10	-23	1230	8,800	2.6
-15	-26	1125	7,100	2.1
-20	-29	1025	5,300	1.6

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

HP27-030 — HEATING PERFORMANCE C26-46 - C33-48B/C at 1000 cfm (470 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	2025	32,800	9.6
60	16	1980	31,300	9.2
55	13	1930	29,700	8.7
50	10	1880	28,100	8.2
47	8	1855	27,200	8.0
45	7	1825	26,300	7.7
40	4	1760	23,900	7.0
35	2	1690	21,600	6.3
30	-1	1655	20,500	6.0
25	-4	1620	19,500	5.7
20	-7	1585	18,400	5.4
17	-8	1565	17,800	5.2
15	-9	1545	17,200	5.0
10	-12	1500	15,600	4.6
5	-15	1405	13,900	4.1
0	-18	1310	12,200	3.6
-5	-21	1220	10,500	3.1
-10	-23	1125	8,800	2.6
-15	-26	1030	7,100	2.1
-20	-29	940	5,300	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.

HP27-030 — COOLING CAPACITY — C33-50C - C26-51/65

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°C)	380	800	8.0	27,300	1610	.74	.89	1.0	7.7	26,200	1830	.75	.90	1.0	7.4	25,100	2070	.77	.92	1.0	7.1	24,100	2330	.79	.94	1.0
	470	1000	8.4	28,500	1610	.80	.96	1.0	8.0	27,400	1830	.82	.98	1.0	7.7	26,300	2070	.83	1.0	1.0	7.4	25,300	2330	.85	1.0	1.0
	565	1200	8.7	29,700	1610	.86	1.0	1.0	8.4	28,600	1830	.88	1.0	1.0	8.1	27,600	2070	.90	1.0	1.0	7.8	26,500	2330	.92	1.0	1.0
67°F (19°C)	380	800	8.6	29,300	1610	.58	.71	.85	8.2	28,100	1840	.58	.73	.87	7.9	26,900	2070	.59	.74	.89	7.5	25,700	2330	.60	.76	.91
	470	1000	8.9	30,400	1600	.61	.77	.93	8.5	29,000	1840	.62	.79	.95	8.1	27,800	2080	.63	.81	.97	7.8	26,500	2340	.65	.83	.99
	565	1200	9.1	31,200	1600	.65	.83	.99	8.7	29,800	1840	.66	.86	1.0	8.3	28,400	2080	.67	.88	1.0	8.0	27,200	2340	.69	.90	1.0
71°F (22°C)	380	800	9.2	31,500	1600	.43	.56	.68	8.9	30,200	1840	.43	.57	.70	8.5	28,900	2080	.43	.57	.72	8.1	27,600	2340	.44	.58	.73
	470	1000	9.6	32,600	1600	.44	.60	.75	9.1	31,100	1840	.45	.61	.77	8.7	29,700	2080	.45	.62	.79	8.3	28,400	2340	.45	.63	.81
	565	1200	9.8	33,400	1590	.46	.63	.81	9.3	31,800	1840	.46	.65	.83	8.9	30,300	2090	.47	.66	.85	8.5	28,900	2350	.47	.68	.88

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

HP27-030 — COOLING CAPACITY — CR26-51

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°C)	380	800	8.0	27,300	1610	.74	.88	1.0	7.7	26,200	1830	.75	.90	1.0	7.4	25,200	2060	.76	.91	1.0	7.1	24,100	2330	.78	.93	1.0
	470	1000	8.3	28,400	1610	.79	.95	1.0	8.0	27,300	1830	.81	.97	1.0	7.7	26,200	2070	.82	.98	1.0	7.4	25,200	2330	.84	1.0	1.0
	565	1200	8.6	29,400	1610	.84	1.0	1.0	8.3	28,300	1830	.86	1.0	1.0	8.0	27,300	2070	.88	1.0	1.0	7.7	26,300	2330	.90	1.0	1.0
67°F (19°C)	380	800	8.6	29,300	1610	.57	.71	.84	8.2	28,100	1830	.58	.72	.86	7.9	26,900	2070	.59	.74	.88	7.6	25,800	2330	.60	.75	.90
	470	1000	8.9	30,300	1610	.60	.76	.91	8.5	29,000	1830	.61	.78	.93	8.1	27,800	2070	.62	.80	.96	7.8	26,600	2330	.64	.82	.97
	565	1200	9.1	31,000	1600	.64	.82	.97	8.7	29,600	1840	.65	.84	.99	8.3	28,400	2080	.66	.86	1.0	7.9	27,100	2330	.68	.88	1.0
71°F (22°C)	380	800	9.2	31,400	1600	.43	.55	.68	8.9	30,200	1840	.43	.56	.69	8.5	28,900	2080	.43	.57	.71	8.1	27,700	2330	.43	.58	.72
	470	1000	9.5	32,500	1600	.44	.59	.74	9.1	31,100	1840	.44	.60	.76	8.7	29,700	2080	.45	.61	.77	8.3	28,400	2340	.45	.62	.79
	565	1200	9.7	33,200	1600	.45	.62	.79	9.3	31,700	1840	.46	.64	.81	8.9	30,300	2080	.46	.65	.83	8.5	28,900	2340	.47	.66	.86

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

HP27-030 — HEATING CAPACITY — C33-50C - C26-51/65

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	
380	800	9.4	32,000	2125	7.5	25,600	1935	5.5	18,900	1735	3.9	13,400	1525	1.9	6,600	1150
470	1000	9.5	32,500	2000	7.6	26,100	1810	5.7	19,400	1610	4.1	13,900	1400	2.1	7,100	1025
565	1200	9.7	33,000	1935	7.8	26,600	1745	5.8	19,900	1545	4.2	14,400	1335	2.2	7,600	960

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

HP27-030 — HEATING CAPACITY — CR26-51

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	
380	800	9.6	32,700	2010	7.6	25,900	1860	5.6	19,000	1705	3.9	13,400	1520	1.9	6,500	1140
470	1000	9.7	33,200	1900	7.7	26,400	1750	5.7	19,500	1595	4.1	13,900	1410	2.1	7,000	1030
565	1200	9.9	33,700	1830	7.9	26,900	1680	5.9	20,000	1525	4.2	14,400	1340	2.2	7,500	960

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

HP27-030 — HEATING PERFORMANCE C33-50C - C26-51/65 at 1000 cfm (470 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	2000	32,500	9.5
60	16	1955	31,000	9.1
55	13	1910	29,500	8.6
50	10	1865	27,900	8.2
47	8	1835	27,000	7.9
45	7	1810	26,100	7.6
40	4	1745	23,800	7.0
35	2	1680	21,500	6.3
30	-1	1645	20,400	6.0
25	-4	1610	19,400	5.7
20	-7	1575	18,400	5.4
17	-8	1555	17,800	5.2
15	-9	1535	17,200	5.0
10	-12	1490	15,700	4.6
5	-15	1400	13,900	4.1
0	-18	1305	12,200	3.6
-5	-21	1210	10,500	3.1
-10	-23	1120	8,800	2.6
-15	-26	1025	7,100	2.1
-20	-29	935	5,300	1.6

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

HP27-030 — HEATING PERFORMANCE CR26-51 at 1000 cfm (470 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	1900	33,200	9.7
60	16	1865	31,600	9.3
55	13	1830	30,000	8.8
50	10	1795	28,400	8.3
47	8	1770	27,400	8.0
45	7	1750	26,400	7.7
40	4	1695	24,100	7.1
35	2	1640	21,700	6.4
30	-1	1615	20,600	6.0
25	-4	1595	19,500	5.7
20	-7	1570	18,400	5.4
17	-8	1555	17,800	5.2
15	-9	1540	17,200	5.0
10	-12	1505	15,600	4.6
5	-15	1410	13,900	4.1
0	-18	1315	12,200	3.6
-5	-21	1220	10,500	3.1
-10	-23	1125	8,700	2.5
-15	-26	1030	7,000	2.1
-20	-29	935	5,300	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.

HP27-030 — COOLING CAPACITY — CR26-65

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°C)	380	800	8.1	27,700	1610	.74	.88	1.0	7.8	26,600	1830	.75	.90	1.0	7.5	25,500	2070	.76	.92	1.0	7.2	24,400	2330	.78	.94	1.0
	470	1000	8.5	28,900	1610	.80	.96	1.0	8.1	27,700	1830	.81	.98	1.0	7.8	26,600	2070	.83	1.0	1.0	7.5	25,600	2330	.85	1.0	1.0
	565	1200	8.8	30,000	1610	.86	1.0	1.0	8.5	28,900	1830	.88	1.0	1.0	8.1	27,800	2070	.90	1.0	1.0	7.9	26,800	2330	.91	1.0	1.0
67°F (19°C)	380	800	8.7	29,700	1610	.58	.71	.85	8.3	28,400	1840	.58	.73	.87	8.0	27,200	2070	.59	.74	.88	7.6	26,100	2330	.60	.75	.90
	470	1000	9.0	30,800	1600	.61	.77	.93	8.6	29,400	1840	.62	.79	.95	8.2	28,100	2080	.63	.81	.97	7.9	26,900	2330	.64	.83	.99
	565	1200	9.2	31,500	1600	.64	.83	.99	8.8	30,100	1840	.66	.85	1.0	8.4	28,800	2080	.67	.87	1.0	8.1	27,500	2340	.69	.89	1.0
71°F (22°C)	380	800	9.4	32,000	1600	.43	.56	.68	9.0	30,600	1840	.43	.57	.70	8.6	29,200	2080	.43	.58	.72	8.2	28,000	2340	.44	.58	.73
	470	1000	9.7	33,000	1600	.44	.59	.75	9.2	31,500	1840	.44	.61	.76	8.8	30,100	2080	.45	.62	.78	8.4	28,800	2340	.45	.63	.80
	565	1200	9.9	33,800	1590	.46	.63	.81	9.4	32,200	1840	.46	.65	.83	9.0	30,700	2090	.47	.66	.85	8.6	29,300	2350	.47	.68	.87

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

HP27-030 — COOLING CAPACITY — CH33-44B-F - 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°C)	380	800	8.0	27,300	1610	.74	.89	1.0	7.7	26,200	1830	.75	.90	1.0	7.4	25,200	2060	.77	.92	1.0	7.1	24,200	2320	.78	.94	1.0
	470	1000	8.4	28,500	1610	.80	.96	1.0	8.0	27,400	1830	.82	.98	1.0	7.7	26,300	2070	.83	1.0	1.0	7.4	25,300	2330	.86	1.0	1.0
	565	1200	8.7	29,700	1610	.86	1.0	1.0	8.4	28,600	1830	.88	1.0	1.0	8.1	27,600	2070	.90	1.0	1.0	7.8	26,500	2330	.92	1.0	1.0
67°F (19°C)	380	800	8.6	29,300	1610	.58	.71	.85	8.2	28,100	1830	.58	.73	.87	7.9	26,900	2070	.59	.74	.89	7.5	25,700	2330	.60	.76	.91
	470	1000	8.9	30,300	1600	.61	.78	.93	8.5	29,000	1840	.62	.79	.95	8.1	27,800	2080	.63	.81	.97	7.8	26,500	2330	.65	.83	.99
	565	1200	9.1	31,100	1600	.65	.84	.99	8.7	29,700	1840	.66	.86	1.0	8.3	28,400	2080	.68	.88	1.0	8.0	27,200	2340	.69	.90	1.0
71°F (22°C)	380	800	9.2	31,500	1600	.43	.56	.69	8.8	30,100	1840	.43	.57	.70	8.4	28,800	2080	.43	.58	.72	8.1	27,600	2340	.44	.59	.73
	470	1000	9.5	32,500	1600	.44	.60	.75	9.1	31,100	1840	.44	.61	.77	8.7	29,700	2080	.45	.62	.79	8.3	28,300	2340	.46	.63	.81
	565	1200	9.7	33,200	1600	.46	.64	.81	9.3	31,700	1840	.46	.65	.83	8.9	30,200	2080	.47	.67	.86	8.5	28,900	2340	.47	.68	.88

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

HP27-030 — HEATING CAPACITY — CR26-65

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	
380	800	9.6	32,700	1905	7.6	25,900	1780	5.6	19,000	1650	3.9	13,400	1485	1.9	6,500	1110
470	1000	9.7	33,200	1800	7.7	26,400	1675	5.7	19,500	1545	4.1	13,900	1380	2.1	7,000	1005
565	1200	9.8	33,600	1730	7.9	26,800	1605	5.8	19,900	1475	4.2	14,300	1310	2.2	7,400	935

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

HP27-030 — HEATING CAPACITY — CH33-44B-F - 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	
380	800	9.7	33,000	1895	7.6	26,100	1775	5.6	19,100	1650	3.9	13,300	1490	1.9	6,500	1115
470	1000	9.8	33,500	1785	7.8	26,600	1665	5.7	19,600	1540	4.0	13,800	1380	2.1	7,000	1005
565	1200	10.0	34,000	1720	7.9	27,100	1600	5.9	20,100	1475	4.2	14,300	1315	2.2	7,500	940

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

HP27-030 — HEATING PERFORMANCE CR26-65 at 1000 cfm (470 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	1800	33,200	9.7
60	16	1770	31,600	9.3
55	13	1740	30,000	8.8
50	10	1710	28,400	8.3
47	8	1695	27,400	8.0
45	7	1675	26,400	7.7
40	4	1625	24,100	7.1
35	2	1580	21,700	6.4
30	-1	1560	20,600	6.0
25	-4	1545	19,500	5.7
20	-7	1525	18,400	5.4
17	-8	1515	17,800	5.2
15	-9	1505	17,200	5.0
10	-12	1475	15,600	4.6
5	-15	1380	13,900	4.1
0	-18	1285	12,200	3.6
-5	-21	1190	10,500	3.1
-10	-23	1095	8,700	2.5
-15	-26	1005	7,000	2.1
-20	-29	910	5,300	1.6

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

HP27-030 — HEATING PERFORMANCE CH33-44B-F - CH23-65 at 1000 cfm (470 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	1785	33,500	9.8
60	16	1760	31,800	9.3
55	13	1730	30,200	8.9
50	10	1700	28,600	8.4
47	8	1685	27,600	8.1
45	7	1665	26,600	7.8
40	4	1620	24,200	7.1
35	2	1575	21,800	6.4
30	-1	1555	20,700	6.1
25	-4	1540	19,600	5.7
20	-7	1525	18,500	5.4
17	-8	1515	17,800	5.2
15	-9	1505	17,100	5.0
10	-12	1475	15,500	4.5
5	-15	1380	13,800	4.0
0	-18	1285	12,100	3.5
-5	-21	1190	10,400	3.0
-10	-23	1100	8,700	2.5
-15	-26	1005	7,000	2.1
-20	-29	910	5,300	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.

HP27-030 — COOLING CAPACITY — CH33-48C-F - CH23-68

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°C)	380	800	8.1	27,600	1610	.74	.88	1.0	7.8	26,500	1830	.75	.90	1.0	7.4	25,300	2070	.77	.92	1.0	7.1	24,200	2330	.78	.95	1.0
	470	1000	8.5	28,900	1610	.80	.96	1.0	8.1	27,700	1840	.82	.99	1.0	7.8	26,500	2070	.84	1.0	1.0	7.5	25,500	2330	.86	1.0	1.0
	565	1200	8.9	30,200	1600	.86	1.0	1.0	8.5	29,000	1840	.88	1.0	1.0	8.2	27,900	2080	.90	1.0	1.0	7.9	26,800	2330	.93	1.0	1.0
67°F (19°C)	380	800	8.7	29,700	1600	.57	.71	.85	8.3	28,400	1840	.58	.73	.87	8.0	27,200	2080	.59	.74	.89	7.6	26,000	2330	.60	.75	.91
	470	1000	9.0	30,800	1600	.61	.77	.93	8.6	29,400	1840	.62	.79	.96	8.2	28,100	2080	.63	.81	.98	7.9	26,800	2340	.64	.83	1.0
	565	1200	9.3	31,600	1600	.65	.84	1.0	8.8	30,100	1840	.66	.86	1.0	8.4	28,800	2080	.67	.88	1.0	8.1	27,500	2340	.69	.90	1.0
71°F (22°C)	380	800	9.4	32,000	1600	.43	.56	.68	8.9	30,500	1840	.43	.56	.70	8.6	29,200	2080	.43	.57	.71	8.2	27,900	2340	.44	.58	.73
	470	1000	9.7	33,100	1590	.44	.60	.75	9.2	31,500	1840	.44	.61	.77	8.8	30,100	2090	.45	.62	.79	8.4	28,700	2350	.45	.63	.81
	565	1200	9.9	33,900	1590	.45	.63	.81	9.4	32,200	1840	.46	.65	.83	9.0	30,700	2090	.47	.66	.86	8.6	29,200	2350	.47	.68	.88

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

HP27-036 — COOLING CAPACITY — CB30U-41/46 — 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°C)	520	1100	9.9	33,800	2040	.77	.92	1.0	9.6	32,700	2300	.78	.94	1.0	9.2	31,400	2600	.80	.96	1.0	8.8	30,100	2940	.81	.97	1.0
	615	1300	10.2	34,800	2050	.81	.97	1.0	9.8	33,600	2310	.83	.99	1.0	9.5	32,400	2600	.85	1.0	1.0	9.1	31,200	2950	.87	1.0	1.0
	710	1500	10.5	35,800	2050	.86	1.0	1.0	10.2	34,700	2310	.88	1.0	1.0	9.8	33,500	2610	.89	1.0	1.0	9.4	32,200	2950	.91	1.0	1.0
67°F (19°C)	520	1100	10.5	35,900	2060	.59	.74	.89	10.1	34,600	2310	.60	.76	.90	9.8	33,300	2610	.61	.77	.92	9.3	31,900	2950	.62	.79	.94
	615	1300	10.8	36,700	2060	.62	.79	.94	10.4	35,400	2320	.63	.81	.96	10.0	34,000	2620	.64	.82	.98	9.5	32,500	2960	.65	.84	.99
	710	1500	10.9	37,300	2070	.65	.84	.99	10.5	35,900	2330	.66	.86	1.0	10.1	34,500	2620	.67	.87	1.0	9.7	33,000	2960	.69	.89	1.0
71°F (22°C)	520	1100	11.2	38,300	2070	.44	.58	.72	10.8	37,000	2330	.44	.58	.73	10.4	35,500	2630	.44	.59	.75	10.0	34,100	2970	.44	.60	.77
	615	1300	11.5	39,100	2080	.45	.61	.77	11.0	37,700	2330	.45	.62	.79	10.6	36,200	2630	.45	.63	.80	10.1	34,600	2970	.46	.64	.82
	710	1500	11.6	39,600	2080	.46	.64	.82	11.2	38,200	2340	.46	.65	.83	10.8	36,700	2640	.47	.66	.85	10.3	35,100	2980	.47	.68	.87

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

HP27-030 — HEATING CAPACITY — CH33-48C-F - CH23-68

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	9.7	33,000	1800	7.6	26,100	1710	5.6	19,100	1610	3.9	13,300	1470	1.9	6,500	1095
470	1000	9.8	33,500	1695	7.8	26,600	1605	5.7	19,600	1505	4.0	13,800	1365	2.1	7,000	990
565	1200	9.9	33,900	1635	7.9	27,000	1545	5.9	20,000	1445	4.2	14,200	1305	2.2	7,400	930

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

HP27-036 — HEATING CAPACITY — CB30U-41/46 — 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	
520	1100	11.5	39,300	2420	8.9	30,200	2240	6.1	20,700	2060	4.2	14,400	1840	2.1	7,200	1365
615	1300	11.7	39,800	2325	9.0	30,700	2145	6.2	21,200	1965	4.4	14,900	1745	2.3	7,700	1270
710	1500	11.8	40,200	2255	9.1	31,100	2075	6.3	21,600	1895	4.5	15,300	1675	2.4	8,100	1200

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

HP27-030 — HEATING PERFORMANCE
CH33-48C-F - CH23-68 at 1000 cfm (470 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	1695	33,500	9.8
60	16	1675	31,800	9.3
55	13	1655	30,200	8.9
50	10	1630	28,600	8.4
47	8	1620	27,600	8.1
45	7	1605	26,600	7.8
40	4	1565	24,200	7.1
35	2	1525	21,800	6.4
30	-1	1515	20,700	6.1
25	-4	1505	19,600	5.7
20	-7	1495	18,500	5.4
17	-8	1490	17,800	5.2
15	-9	1480	17,100	5.0
10	-12	1460	15,500	4.5
5	-15	1365	13,800	4.0
0	-18	1270	12,100	3.5
-5	-21	1175	10,400	3.0
-10	-23	1085	8,700	2.5
-15	-26	990	7,000	2.1
-20	-29	895	5,300	1.6

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

HP27-036 — HEATING PERFORMANCE
CB30U-41/46/CB30M-41 at 1300 cfm (615 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	2325	39,800	11.7
60	16	2285	37,700	11.0
55	13	2240	35,600	10.4
50	10	2200	33,500	9.8
47	8	2175	32,200	9.4
45	7	2145	30,700	9.0
40	4	2085	26,900	7.9
35	2	2020	23,100	6.8
30	-1	1990	22,200	6.5
25	-4	1965	21,200	6.2
20	-7	1935	20,300	5.9
17	-8	1920	19,700	5.8
15	-9	1905	18,800	5.5
10	-12	1860	16,800	4.9
5	-15	1745	14,900	4.4
0	-18	1625	13,100	3.8
-5	-21	1505	11,300	3.3
-10	-23	1390	9,500	2.8
-15	-26	1270	7,700	2.3
-20	-29	1150	5,900	1.7

*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.

HP27-036 — 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°C)	520	1100	9.9	33,800	2040	.77	.92	1.0	9.6	32,700	2300	.78	.94	1.0	9.2	31,400	2600	.80	.96	1.0	8.8	30,100	2940	.81	.97	1.0
	615	1300	10.2	34,800	2050	.81	.97	1.0	9.8	33,600	2310	.83	.99	1.0	9.5	32,400	2600	.85	1.0	1.0	9.1	31,200	2950	.87	1.0	1.0
	710	1500	10.5	35,800	2050	.86	1.0	1.0	10.2	34,700	2310	.88	1.0	1.0	9.8	33,500	2610	.89	1.0	1.0	9.4	32,200	2950	.91	1.0	1.0
67°F (19°C)	520	1100	10.5	35,900	2060	.59	.74	.89	10.1	34,600	2310	.60	.76	.90	9.8	33,300	2610	.61	.77	.92	9.3	31,900	2950	.62	.79	.94
	615	1300	10.8	36,700	2060	.62	.79	.94	10.4	35,400	2320	.63	.81	.96	10.0	34,000	2620	.64	.82	.98	9.5	32,500	2960	.65	.84	.99
	710	1500	10.9	37,300	2070	.65	.84	.99	10.5	35,900	2330	.66	.86	1.0	10.1	34,500	2620	.67	.87	1.0	9.7	33,000	2960	.69	.89	1.0
71°F (22°C)	520	1100	11.2	38,300	2070	.44	.58	.72	10.8	37,000	2330	.44	.58	.73	10.4	35,500	2630	.44	.59	.75	10.0	34,100	2970	.44	.60	.77
	615	1300	11.5	39,100	2080	.45	.61	.77	11.0	37,700	2330	.45	.62	.79	10.6	36,200	2630	.45	.63	.80	10.1	34,600	2970	.46	.64	.82
	710	1500	11.6	39,600	2080	.46	.64	.82	11.2	38,200	2340	.46	.65	.83	10.8	36,700	2640	.47	.66	.85	10.3	35,100	2980	.47	.68	.87

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

HP27-036 — COOLING CAPACITY — CB30U-51— 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°C)	520	1100	10.1	34,600	2030	.77	.92	1.0	9.8	33,400	2290	.78	.94	1.0	9.4	32,100	2580	.80	.95	1.0	9.0	30,700	2930	.81	.98	1.0
	615	1300	10.4	35,600	2040	.81	.98	1.0	10.1	34,400	2300	.83	.99	1.0	9.7	33,200	2590	.85	1.0	1.0	9.3	31,900	2930	.86	1.0	1.0
	710	1500	10.8	36,800	2050	.86	1.0	1.0	10.4	35,600	2300	.88	1.0	1.0	10.1	34,400	2590	.90	1.0	1.0	9.7	33,000	2930	.92	1.0	1.0
67°F (19°C)	520	1100	10.8	36,800	2050	.59	.74	.89	10.4	35,500	2300	.60	.75	.90	10.0	34,100	2600	.61	.77	.92	9.6	32,600	2930	.62	.79	.95
	615	1300	11.0	37,700	2050	.62	.79	.95	10.6	36,300	2310	.63	.81	.96	10.2	34,800	2600	.64	.82	.98	9.8	33,300	2940	.65	.84	1.0
	710	1500	11.2	38,300	2060	.65	.84	.99	10.8	36,900	2310	.66	.86	1.0	10.4	35,400	2610	.67	.88	1.0	9.9	33,900	2940	.69	.90	1.0
71°F (22°C)	520	1100	11.5	39,300	2070	.43	.58	.72	11.1	37,900	2320	.44	.58	.73	10.7	36,400	2610	.44	.59	.75	10.2	34,900	2950	.44	.60	.76
	615	1300	11.8	40,200	2070	.45	.61	.77	11.3	38,700	2330	.45	.62	.79	10.9	37,100	2620	.45	.63	.80	10.4	35,500	2950	.46	.64	.82
	710	1500	12.0	40,800	2080	.46	.64	.82	11.5	39,200	2330	.46	.65	.84	11.0	37,600	2620	.47	.66	.85	10.6	36,000	2960	.47	.68	.88

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

HP27-036 — 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	
520	1100	11.6	39,500	2425	8.9	30,400	2245	6.1	20,900	2065	4.3	14,600	1840	2.2	7,400	1370
615	1300	11.7	39,800	2330	9.0	30,700	2150	6.2	21,200	1970	4.4	14,900	1745	2.3	7,700	1275
710	1500	11.8	40,100	2260	9.1	31,000	2080	6.3	21,500	1900	4.5	15,200	1675	2.3	8,000	1205

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

HP27-036 — HEATING CAPACITY — CB30U-51— 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	
520	1100	10.7	36,400	2275	8.4	28,700	2090	6.0	20,400	1900	4.4	15,000	1685	2.2	7,400	1255
615	1300	10.8	36,900	2180	8.6	29,200	1995	6.1	20,900	1805	4.5	15,500	1590	2.3	7,900	1160
710	1500	10.9	37,200	2110	8.6	29,500	1925	6.2	21,200	1735	4.6	15,800	1520	2.4	8,200	1090

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

HP27-036 — HEATING PERFORMANCE CB30M-46 at 1300 cfm (615 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	2330	39,800	11.7
60	16	2285	37,700	11.0
55	13	2245	35,600	10.4
50	10	2200	33,500	9.8
47	8	2175	32,200	9.4
45	7	2150	30,700	9.0
40	4	2085	26,900	7.9
35	2	2025	23,100	6.8
30	-1	1995	22,200	6.5
25	-4	1970	21,200	6.2
20	-7	1940	20,300	5.9
17	-8	1925	19,700	5.8
15	-9	1905	18,800	5.5
10	-12	1865	16,800	4.9
5	-15	1745	14,900	4.4
0	-18	1630	13,100	3.8
-5	-21	1510	11,300	3.3
-10	-23	1390	9,500	2.8
-15	-26	1275	7,700	2.3
-20	-29	1155	5,900	1.7

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

HP27-036 — HEATING PERFORMANCE CB30U/CB30M-51 at 1300 cfm (615 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	2180	36,900	10.8
60	16	2135	35,200	10.3
55	13	2095	33,400	9.8
50	10	2050	31,600	9.3
47	8	2025	30,500	8.9
45	7	1995	29,200	8.6
40	4	1935	25,700	7.5
35	2	1870	22,300	6.5
30	-1	1840	21,600	6.3
25	-4	1805	20,900	6.1
20	-7	1775	20,300	5.9
17	-8	1760	19,900	5.8
15	-9	1740	19,100	5.6
10	-12	1695	17,400	5.1
5	-15	1590	15,500	4.5
0	-18	1485	13,600	4.0
-5	-21	1375	11,700	3.4
-10	-23	1270	9,800	2.9
-15	-26	1160	7,900	2.3
-20	-29	1055	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.

HP27-036 — COOLING 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°C)	520	1100	9.8	33,600	2040	.77	.92	1.0	9.5	32,400	2300	.78	.94	1.0	9.1	31,200	2600	.80	.95	1.0	8.8	29,900	2940	.81	.97	1.0
	615	1300	10.1	34,500	2050	.82	.97	1.0	9.8	33,400	2310	.83	.99	1.0	9.4	32,200	2600	.85	.99	1.0	9.1	31,000	2950	.87	1.0	1.0
	710	1500	10.4	35,500	2050	.86	1.0	1.0	10.1	34,400	2310	.87	1.0	1.0	9.7	33,200	2610	.89	1.0	1.0	9.4	32,000	2950	.91	1.0	1.0
67°F (19°C)	520	1100	10.4	35,600	2060	.59	.74	.89	10.1	34,400	2310	.60	.76	.90	9.7	33,000	2610	.61	.77	.92	9.3	31,600	2950	.62	.79	.94
	615	1300	10.7	36,400	2060	.62	.79	.94	10.3	35,100	2320	.63	.81	.96	9.9	33,700	2620	.64	.82	.98	9.4	32,200	2960	.65	.84	.99
	710	1500	10.8	37,000	2070	.65	.84	.99	10.4	35,600	2330	.66	.86	1.0	10.0	34,200	2620	.67	.87	1.0	9.6	32,800	2960	.69	.89	1.0
71°F (22°C)	520	1100	11.1	38,000	2070	.43	.58	.72	10.8	36,700	2330	.44	.59	.73	10.3	35,300	2630	.44	.59	.75	9.9	33,800	2970	.44	.61	.77
	615	1300	11.4	38,800	2080	.45	.61	.77	11.0	37,400	2330	.45	.62	.78	10.5	35,900	2630	.45	.63	.80	10.1	34,300	2970	.46	.64	.82
	710	1500	11.5	39,300	2080	.46	.64	.82	11.1	37,900	2340	.46	.65	.83	10.7	36,400	2640	.47	.66	.85	10.2	34,800	2980	.47	.68	.87

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

HP27-036 — 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°C)	520	1100	10.0	34,100	2060	.76	.92	1.0	9.6	32,900	2320	.78	.94	1.0	9.3	31,600	2620	.79	.96	1.0	8.9	30,300	2960	.81	.98	1.0
	615	1300	10.3	35,200	2070	.81	.97	1.0	9.9	33,900	2320	.83	.99	1.0	9.6	32,700	2620	.85	1.0	1.0	9.2	31,500	2960	.87	1.0	1.0
	710	1500	10.6	36,300	2070	.86	1.0	1.0	10.3	35,100	2330	.88	1.0	1.0	9.9	33,900	2620	.90	1.0	1.0	9.6	32,600	2970	.92	1.0	1.0
67°F (19°C)	520	1100	10.6	36,300	2070	.59	.74	.89	10.3	35,000	2330	.60	.75	.90	9.8	33,600	2630	.61	.77	.92	9.4	32,100	2970	.62	.79	.94
	615	1300	10.9	37,200	2080	.62	.79	.95	10.5	35,800	2340	.63	.81	.96	10.1	34,300	2630	.64	.83	.98	9.6	32,800	2980	.65	.84	1.0
	710	1500	11.1	37,800	2080	.65	.84	.99	10.7	36,400	2340	.66	.86	1.0	10.2	34,900	2640	.67	.88	1.0	9.8	33,400	2980	.69	.90	1.0
71°F (22°C)	520	1100	11.4	38,800	2090	.43	.58	.72	11.0	37,400	2350	.44	.58	.73	10.5	35,900	2640	.44	.59	.74	10.1	34,400	2990	.44	.60	.76
	615	1300	11.6	39,600	2100	.44	.61	.77	11.2	38,200	2350	.45	.62	.78	10.7	36,600	2650	.45	.63	.80	10.3	35,000	2990	.46	.64	.82
	710	1500	11.8	40,200	2100	.46	.64	.82	11.3	38,700	2360	.46	.65	.84	10.9	37,100	2650	.47	.67	.85	10.4	35,500	3000	.47	.68	.88

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

HP27-036 — 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	
520	1100	11.5	39,300	2420	8.9	30,200	2245	6.1	20,700	2065	4.2	14,400	1850	2.1	7,200	1370
615	1300	11.7	39,800	2325	9.0	30,700	2150	6.2	21,200	1970	4.4	14,900	1755	2.3	7,700	1275
710	1500	11.8	40,200	2255	9.1	31,100	2080	6.3	21,600	1900	4.5	15,300	1685	2.4	8,100	1205

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

HP27-036 — 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	
520	1100	11.5	39,400	2320	8.9	30,300	2165	6.1	20,700	2000	4.2	14,400	1795	2.1	7,200	1325
615	1300	11.7	39,900	2250	9.0	30,800	2095	6.2	21,200	1930	4.4	14,900	1725	2.3	7,700	1255
710	1500	11.8	40,200	1480	9.1	31,100	1325	6.3	21,500	1160	4.5	15,200	955	2.3	8,000	485

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

HP27-036 — HEATING PERFORMANCE CB31MV-41 at 1300 cfm (615 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	2325	39,800	11.7
60	16	2280	37,700	11.0
55	13	2240	35,600	10.4
50	10	2200	33,500	9.8
47	8	2175	32,200	9.4
45	7	2150	30,700	9.0
40	4	2090	26,900	7.9
35	2	2025	23,100	6.8
30	-1	2000	22,200	6.5
25	-4	1970	21,200	6.2
20	-7	1945	20,300	5.9
17	-8	1930	19,700	5.8
15	-9	1915	18,800	5.5
10	-12	1870	16,700	4.9
5	-15	1755	14,900	4.4
0	-18	1635	13,100	3.8
-5	-21	1515	11,300	3.3
-10	-23	1395	9,500	2.8
-15	-26	1275	7,700	2.3
-20	-29	1155	5,900	1.7

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

HP27-036 — HEATING PERFORMANCE CB31MV-51 at 1300 cfm (615 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	2250	39,900	11.7
60	16	2215	37,800	11.1
55	13	2175	35,700	10.5
50	10	2140	33,600	9.8
47	8	2115	32,300	9.5
45	7	2095	30,800	9.0
40	4	2035	27,000	7.9
35	2	1980	23,200	6.8
30	-1	1955	22,200	6.5
25	-4	1930	21,200	6.2
20	-7	1905	20,300	5.9
17	-8	1895	19,700	5.8
15	-9	1880	18,800	5.5
10	-12	1840	16,700	4.9
5	-15	1725	14,900	4.4
0	-18	1605	13,100	3.8
-5	-21	1490	11,300	3.3
-10	-23	1370	9,500	2.8
-15	-26	1255	7,700	2.3
-20	-29	1135	5,900	1.7

*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.

HP27-036 — COOLING CAPACITY — CVP10-41/EC10Q3 — CVP10-46/EC10Q4

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°C)	520	1100	9.8	33,500	2050	.77	.92	1.0	9.5	32,400	2310	.78	.93	1.0	9.1	31,200	2610	.79	.95	1.0	8.8	29,900	2950	.81	.97	1.0
	615	1300	10.1	34,500	2060	.81	.97	1.0	9.8	33,400	2310	.83	.98	1.0	9.4	32,200	2620	.84	.99	1.0	9.1	31,000	2960	.86	1.0	1.0
	710	1500	10.4	35,500	2060	.86	1.0	1.0	10.1	34,400	2320	.87	1.0	1.0	9.7	33,200	2620	.89	1.0	1.0	9.4	32,000	2970	.91	1.0	1.0
67°F (19°C)	520	1100	10.4	35,600	2060	.59	.74	.89	10.1	34,300	2320	.60	.76	.90	9.7	33,000	2620	.61	.77	.92	9.3	31,600	2970	.62	.79	.94
	615	1300	10.7	36,400	2070	.62	.79	.94	10.3	35,100	2330	.63	.80	.96	9.9	33,700	2630	.64	.82	.97	9.5	32,300	2970	.65	.84	.99
	710	1500	10.8	37,000	2070	.65	.84	.98	10.5	35,700	2330	.66	.85	.99	10.1	34,300	2630	.67	.87	1.0	9.6	32,800	2980	.68	.89	1.0
71°F (22°C)	520	1100	11.1	38,000	2080	.43	.58	.72	10.7	36,600	2340	.44	.58	.73	10.3	35,200	2640	.44	.59	.75	9.9	33,800	2980	.44	.60	.76
	615	1300	11.4	38,800	2090	.44	.61	.77	11.0	37,400	2340	.45	.61	.78	10.5	35,900	2640	.45	.63	.80	10.1	34,400	2990	.46	.64	.82
	710	1500	11.5	39,300	2090	.46	.64	.81	11.1	37,900	2350	.46	.65	.83	10.7	36,400	2650	.47	.66	.85	10.2	34,800	2990	.47	.68	.87

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

HP27-036 — COOLING CAPACITY — CVP10-51/EC10Q4

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°C)	520	1100	9.8	33,500	2050	.76	.91	1.0	9.5	32,300	2310	.78	.93	1.0	9.1	31,000	2610	.79	.95	1.0	8.7	29,700	2960	.81	.97	1.0
	615	1300	10.1	34,400	2060	.81	.97	1.0	9.8	33,300	2320	.83	.98	1.0	9.4	32,000	2620	.84	1.0	1.0	9.0	30,800	2960	.86	1.0	1.0
	710	1500	10.4	35,500	2060	.86	1.0	1.0	10.1	34,400	2320	.87	1.0	1.0	9.7	33,200	2620	.89	1.0	1.0	9.3	31,900	2970	.91	1.0	1.0
67°F (19°C)	520	1100	10.4	35,600	2070	.59	.74	.89	10.1	34,300	2320	.60	.75	.90	9.6	32,900	2630	.61	.77	.92	9.2	31,500	2970	.62	.78	.94
	615	1300	10.7	36,400	2070	.62	.79	.94	10.3	35,100	2330	.63	.80	.96	9.9	33,700	2630	.64	.82	.98	9.4	32,200	2970	.65	.84	.99
	710	1500	10.8	37,000	2080	.65	.84	.99	10.5	35,700	2340	.66	.85	1.0	10.1	34,300	2630	.67	.87	1.0	9.6	32,800	2980	.68	.89	1.0
71°F (22°C)	520	1100	11.1	38,000	2080	.43	.57	.72	10.8	36,700	2340	.44	.58	.73	10.3	35,200	2640	.44	.59	.74	9.9	33,700	2980	.44	.60	.76
	615	1300	11.4	38,800	2090	.45	.61	.77	11.0	37,400	2350	.45	.61	.78	10.5	35,900	2640	.45	.63	.80	10.1	34,300	2990	.46	.64	.82
	710	1500	11.5	39,400	2100	.46	.64	.81	11.1	37,900	2350	.46	.65	.83	10.7	36,400	2650	.47	.66	.85	10.2	34,800	2990	.47	.68	.87

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

HP27-036 — HEATING CAPACITY — CVP10-41/EC10Q3 — CVP10-46/EC10Q4

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	
520	1100	11.6	39,600	2395	8.9	30,500	2165	6.1	20,900	1890	4.3	14,700	1835	2.1	7,300	1360
615	1300	11.8	40,100	2300	9.1	31,000	2070	6.3	21,400	1795	4.5	15,200	1740	2.3	7,800	1265
710	1500	11.9	40,500	2230	9.2	31,400	2000	6.4	21,800	1725	4.6	15,600	1670	2.4	8,200	1195

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

HP27-036 — HEATING CAPACITY — CVP10-51/EC10Q4

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	
520	1100	11.6	39,600	2360	8.9	30,500	2145	6.2	21,000	1890	4.3	14,700	1840	2.1	7,300	1365
615	1300	11.8	40,100	2265	9.1	31,000	2050	6.3	21,500	1795	4.5	15,200	1745	2.3	7,800	1270
710	1500	11.9	40,500	1480	9.2	31,400	1265	6.4	21,900	1010	4.6	15,600	960	2.4	8,200	485

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

HP27-036 — HEATING PERFORMANCE
CVP10-41/EC10Q3 - CVP10-46/EC10Q4 at 1300cfm (615 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	2300	40,100	11.8
60	16	2255	38,000	11.1
55	13	2215	35,900	10.5
50	10	2175	33,800	9.9
47	8	2155	32,500	9.5
45	7	2070	31,000	9.1
40	4	1860	27,200	8.0
35	2	1650	23,400	6.9
30	-1	1725	22,400	6.6
25	-4	1795	21,400	6.3
20	-7	1870	20,500	6.0
17	-8	1910	19,900	5.8
15	-9	1895	19,100	5.6
10	-12	1855	17,000	5.0
5	-15	1740	15,200	4.5
0	-18	1620	13,300	3.9
-5	-21	1500	11,500	3.4
-10	-23	1385	9,600	2.8
-15	-26	1265	7,800	2.3
-20	-29	1145	6,000	1.8

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

HP27-036 — HEATING PERFORMANCE
CVP10-51/EC10Q4 at 1300 cfm (615 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	2265	40,100	11.8
60	16	2225	38,000	11.1
55	13	2190	35,900	10.5
50	10	2155	33,800	9.9
47	8	2130	32,500	9.5
45	7	2050	31,000	9.1
40	4	1845	27,200	8.0
35	2	1640	23,400	6.9
30	-1	1715	22,400	6.6
25	-4	1795	21,500	6.3
20	-7	1870	20,500	6.0
17	-8	1915	19,900	5.8
15	-9	1900	19,100	5.6
10	-12	1865	17,000	5.0
5	-15	1745	15,200	4.5
0	-18	1625	13,300	3.9
-5	-21	1505	11,500	3.4
-10	-23	1385	9,600	2.8
-15	-26	1270	7,800	2.3
-20	-29	1150	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.

HP27-036 — COOLING CAPACITY — C26-46

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°C)	520	1100	10.0	34,000	2050	.77	.93	1.0	9.6	32,900	2310	.79	.94	1.0	9.3	31,600	2610	.80	.96	1.0	8.9	30,300	2950	.82	.98	1.0
	615	1300	10.3	35,100	2060	.82	.97	1.0	9.9	33,900	2320	.83	.99	1.0	9.6	32,700	2610	.85	1.0	1.0	9.2	31,500	2960	.87	1.0	1.0
	710	1500	10.6	36,100	2060	.87	1.0	1.0	10.3	35,000	2320	.88	1.0	1.0	9.9	33,800	2620	.90	1.0	1.0	9.5	32,500	2960	.92	1.0	1.0
67°F (19°C)	520	1100	10.6	36,100	2060	.60	.75	.89	10.2	34,800	2320	.60	.76	.91	9.8	33,500	2620	.61	.78	.93	9.4	32,000	2970	.62	.79	.95
	615	1300	10.8	36,900	2070	.63	.80	.95	10.4	35,600	2330	.63	.81	.96	10.0	34,200	2630	.65	.83	.98	9.6	32,700	2970	.66	.85	1.0
	710	1500	11.0	37,500	2080	.66	.85	.99	10.6	36,200	2330	.67	.86	1.0	10.2	34,700	2630	.68	.88	1.0	9.8	33,300	2970	.69	.90	1.0
71°F (22°C)	520	1100	11.3	38,500	2080	.44	.58	.72	10.9	37,100	2340	.44	.59	.74	10.5	35,700	2640	.44	.60	.75	10.0	34,200	2980	.44	.61	.77
	615	1300	11.5	39,300	2090	.45	.61	.78	11.1	37,800	2350	.45	.62	.79	10.6	36,300	2640	.45	.63	.81	10.2	34,800	2980	.46	.65	.83
	710	1500	11.7	39,900	2090	.46	.64	.82	11.3	38,400	2350	.46	.66	.84	10.8	36,800	2650	.47	.67	.86	10.3	35,200	2990	.47	.68	.88

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

HP27-036 — COOLING CAPACITY — C33-50C - C26-51/65

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°C)	520	1100	10.1	34,300	2060	.77	.92	1.0	9.7	33,100	2320	.78	.94	1.0	9.3	31,800	2620	.80	.96	1.0	8.9	30,500	2970	.82	.98	1.0
	615	1300	10.3	35,300	2070	.82	.98	1.0	10.0	34,100	2330	.83	.99	1.0	9.6	32,900	2630	.85	1.0	1.0	9.3	31,700	2970	.87	1.0	1.0
	710	1500	10.7	36,500	2070	.86	1.0	1.0	10.3	35,300	2330	.88	1.0	1.0	10.0	34,100	2630	.90	1.0	1.0	9.6	32,800	2980	.92	1.0	1.0
67°F (19°C)	520	1100	10.7	36,400	2080	.59	.75	.89	10.3	35,100	2340	.60	.76	.91	9.9	33,700	2630	.61	.77	.93	9.5	32,300	2980	.62	.79	.95
	615	1300	10.9	37,300	2080	.62	.80	.95	10.5	35,900	2340	.63	.81	.97	10.1	34,400	2640	.64	.83	.99	9.6	32,900	2980	.66	.85	1.0
	710	1500	11.1	37,900	2090	.65	.84	.99	10.7	36,500	2350	.66	.86	1.0	10.3	35,100	2640	.68	.88	1.0	9.8	33,500	2990	.69	.90	1.0
71°F (22°C)	520	1100	11.4	38,900	2100	.43	.58	.72	11.0	37,500	2350	.44	.59	.73	10.6	36,000	2650	.44	.60	.75	10.1	34,500	2990	.44	.61	.77
	615	1300	11.6	39,700	2100	.45	.61	.77	11.2	38,200	2360	.45	.62	.79	10.8	36,700	2660	.46	.63	.81	10.3	35,100	3000	.46	.65	.83
	710	1500	11.8	40,300	2110	.46	.64	.82	11.4	38,800	2360	.46	.65	.84	10.9	37,200	2660	.47	.67	.86	10.4	35,600	3000	.47	.68	.88

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

HP27-036 — HEATING CAPACITY — C26-46

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	
520	1100	11.6	39,500	2405	8.9	30,500	2245	6.1	20,900	2080	4.3	14,600	1870	2.1	7,300	1385
615	1300	11.7	40,000	2310	9.1	31,000	2150	6.3	21,400	1985	4.4	15,100	1775	2.3	7,800	1290
710	1500	11.8	40,300	2270	9.2	31,300	2110	6.4	21,700	1945	4.5	15,400	1735	2.4	8,100	1250

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

HP27-036 — HEATING CAPACITY — C33-50C - C26-51/65

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	
520	1100	11.6	39,600	2370	8.9	30,500	2220	6.2	21,000	2070	4.3	14,600	1870	2.1	7,300	1385
615	1300	11.8	40,100	2265	9.1	31,000	2115	6.3	21,500	1965	4.4	15,100	1765	2.3	7,800	1280
710	1500	11.9	40,500	2220	9.2	31,400	2070	6.4	21,900	1920	4.5	15,500	1720	2.4	8,200	1235

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

HP27-036 — HEATING PERFORMANCE C26-46 at 1300 cfm (615 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	2310	40,000	11.7
60	16	2275	37,900	11.1
55	13	2235	35,800	10.5
50	10	2200	33,700	9.9
47	8	2175	32,500	9.5
45	7	2150	31,000	9.1
40	4	2090	27,100	7.9
35	2	2030	23,300	6.8
30	-1	2010	22,400	6.6
25	-4	1985	21,400	6.3
20	-7	1965	20,400	6.0
17	-8	1950	19,900	5.8
15	-9	1935	19,000	5.6
10	-12	1900	16,900	5.0
5	-15	1775	15,100	4.4
0	-18	1655	13,300	3.9
-5	-21	1535	11,400	3.3
-10	-23	1415	9,600	2.8
-15	-26	1290	7,800	2.3
-20	-29	1170	6,000	1.8

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

HP27-036 — HEATING PERFORMANCE C33-50C - C26-51/65 at 1300 cfm (615 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	2265	40,100	11.8
60	16	2230	38,000	11.1
55	13	2195	35,900	10.5
50	10	2160	33,800	9.9
47	8	2140	32,500	9.5
45	7	2115	31,000	9.1
40	4	2060	27,200	8.0
35	2	2005	23,400	6.9
30	-1	1985	22,400	6.6
25	-4	1965	21,500	6.3
20	-7	1945	20,500	6.0
17	-8	1935	19,900	5.8
15	-9	1920	19,100	5.6
10	-12	1885	17,000	5.0
5	-15	1765	15,100	4.4
0	-18	1645	13,300	3.9
-5	-21	1525	11,500	3.4
-10	-23	1400	9,600	2.8
-15	-26	1280	7,800	2.3
-20	-29	1160	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.

HP27-036 — COOLING CAPACITY — C33-62D - C26-65EAP

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°C)	520	1100	10.1	34,500	2060	.76	.90	1.0	9.8	33,300	2310	.77	.92	1.0	9.4	32,000	2620	.78	.94	1.0	9.0	30,700	2960	.80	.96	1.0
	615	1300	10.4	35,500	2060	.80	.96	1.0	10.1	34,300	2320	.81	.97	1.0	9.7	33,000	2620	.83	.99	1.0	9.3	31,700	2970	.85	1.0	1.0
	710	1500	10.7	36,500	2070	.84	.99	1.0	10.3	35,300	2330	.86	1.0	1.0	10.0	34,100	2630	.88	1.0	1.0	9.6	32,900	2970	.90	1.0	1.0
67°F (19°C)	520	1100	10.8	36,900	2070	.59	.73	.87	10.4	35,600	2330	.59	.74	.89	10.0	34,100	2630	.60	.76	.91	9.6	32,700	2970	.61	.77	.93
	615	1300	11.1	37,800	2080	.61	.77	.93	10.7	36,400	2340	.62	.79	.95	10.2	34,900	2630	.63	.81	.96	9.8	33,400	2980	.64	.82	.98
	710	1500	11.3	38,400	2080	.64	.82	.97	10.8	37,000	2340	.65	.84	.99	10.4	35,500	2640	.66	.85	1.0	10.0	34,000	2980	.67	.87	1.0
71°F (22°C)	520	1100	11.6	39,500	2090	.43	.57	.70	11.2	38,100	2350	.43	.57	.71	10.7	36,600	2650	.44	.58	.73	10.3	35,000	2990	.44	.59	.75
	615	1300	11.8	40,300	2100	.44	.60	.75	11.4	38,900	2350	.44	.60	.76	10.9	37,300	2650	.45	.62	.78	10.5	35,700	2990	.45	.63	.80
	710	1500	12.0	41,000	2100	.45	.62	.80	11.6	39,500	2360	.46	.64	.81	11.1	37,900	2660	.46	.65	.83	10.6	36,200	3000	.47	.66	.85

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

HP27-036 — COOLING CAPACITY — CR26-51

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°C)	520	1100	9.9	33,900	2050	.76	.91	1.0	9.6	32,800	2310	.77	.92	1.0	9.2	31,500	2610	.79	.94	1.0	8.9	30,200	2960	.80	.96	1.0
	615	1300	10.2	34,900	2060	.80	.96	1.0	9.9	33,700	2320	.82	.98	1.0	9.5	32,500	2620	.83	.99	1.0	9.1	31,200	2960	.86	1.0	1.0
	710	1500	10.5	35,800	2060	.85	.99	1.0	10.2	34,700	2320	.86	1.0	1.0	9.8	33,500	2620	.88	1.0	1.0	9.4	32,200	2970	.90	1.0	1.0
67°F (19°C)	520	1100	10.6	36,100	2070	.59	.73	.88	10.2	34,900	2320	.59	.74	.89	9.8	33,500	2620	.60	.76	.91	9.4	32,100	2970	.61	.78	.93
	615	1300	10.8	36,900	2070	.61	.78	.93	10.4	35,600	2330	.62	.79	.95	10.0	34,200	2630	.63	.81	.97	9.6	32,700	2980	.64	.83	.98
	710	1500	11.0	37,500	2080	.64	.82	.98	10.6	36,200	2340	.65	.84	.99	10.2	34,700	2640	.66	.86	1.0	9.7	33,200	2980	.67	.88	1.0
71°F (22°C)	520	1100	11.3	38,600	2080	.43	.57	.71	10.9	37,200	2340	.44	.58	.72	10.5	35,800	2640	.44	.59	.74	10.1	34,300	2980	.44	.60	.76
	615	1300	11.5	39,400	2090	.44	.60	.76	11.1	38,000	2350	.44	.61	.77	10.7	36,500	2640	.45	.62	.79	10.2	34,900	2990	.46	.63	.81
	710	1500	11.7	39,900	2090	.45	.63	.80	11.3	38,500	2350	.46	.64	.82	10.8	37,000	2650	.46	.65	.84	10.4	35,400	2990	.47	.66	.86

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

HP27-036 — HEATING CAPACITY — C33-62D - C26-65EAP

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	
520	1100	11.6	39,700	2360	8.9	30,500	2210	6.2	21,000	2050	4.3	14,600	1850	2.1	7,300	1370
615	1300	11.8	40,200	2255	9.1	31,000	2105	6.3	21,500	1945	4.4	15,100	1745	2.3	7,800	1265
710	1500	11.9	40,600	2210	9.2	31,400	2060	6.4	21,900	1900	4.5	15,500	1700	2.4	8,200	1220

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

HP27-036 — HEATING CAPACITY — CR26-51

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	
520	1100	11.5	39,400	2455	8.9	30,400	2270	6.1	20,900	2080	4.3	14,600	1855	2.1	7,300	1380
615	1300	11.7	39,900	2360	9.1	30,900	2175	6.3	21,400	1985	4.4	15,100	1760	2.3	7,800	1285
710	1500	11.8	40,300	2290	9.2	31,300	2105	6.4	21,800	1915	4.5	15,500	1690	2.4	8,200	1215

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

HP27-036 — HEATING PERFORMANCE C33-62D - C26-65EAP at 1300 cfm (615 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	2255	40,200	11.8
60	16	2220	38,000	11.1
55	13	2185	35,900	10.5
50	10	2145	33,800	9.9
47	8	2125	32,600	9.6
45	7	2105	31,000	9.1
40	4	2045	27,200	8.0
35	2	1985	23,400	6.9
30	-1	1965	22,400	6.6
25	-4	1945	21,500	6.3
20	-7	1925	20,500	6.0
17	-8	1910	19,900	5.8
15	-9	1900	19,100	5.6
10	-12	1860	17,000	5.0
5	-15	1745	15,100	4.4
0	-18	1625	13,300	3.9
-5	-21	1505	11,500	3.4
-10	-23	1385	9,600	2.8
-15	-26	1265	7,800	2.3
-20	-29	1145	6,000	1.8

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

HP27-036 — HEATING PERFORMANCE CR26-51 at 1300 cfm (615 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	2360	39,900	11.7
60	16	2315	37,800	11.1
55	13	2270	35,700	10.5
50	10	2225	33,600	9.8
47	8	2200	32,400	9.5
45	7	2175	30,900	9.1
40	4	2110	27,100	7.9
35	2	2040	23,300	6.8
30	-1	2015	22,300	6.5
25	-4	1985	21,400	6.3
20	-7	1955	20,400	6.0
17	-8	1940	19,900	5.8
15	-9	1925	19,000	5.6
10	-12	1880	17,000	5.0
5	-15	1760	15,100	4.4
0	-18	1640	13,300	3.9
-5	-21	1520	11,500	3.4
-10	-23	1400	9,600	2.8
-15	-26	1285	7,800	2.3
-20	-29	1165	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.

HP27-036 — COOLING CAPACITY — CR26-65

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°C)	520	1100	10.1	34,600	2060	.77	.92	1.0	9.8	33,400	2320	.78	.94	1.0	9.4	32,100	2620	.80	.95	1.0	9.0	30,700	2970	.81	.97	1.0
	615	1300	10.4	35,600	2070	.82	.97	1.0	10.1	34,400	2330	.83	.99	1.0	9.7	33,200	2630	.85	1.0	1.0	9.3	31,900	2970	.86	1.0	1.0
	710	1500	10.8	36,700	2070	.86	1.0	1.0	10.4	35,600	2330	.88	1.0	1.0	10.1	34,300	2630	.89	1.0	1.0	9.7	33,000	2980	.92	1.0	1.0
67°F (19°C)	520	1100	10.8	36,800	2080	.59	.74	.89	10.4	35,500	2340	.60	.75	.90	10.0	34,100	2630	.61	.77	.92	9.6	32,600	2980	.62	.79	.94
	615	1300	11.0	37,600	2080	.62	.79	.94	10.6	36,200	2340	.63	.81	.96	10.2	34,800	2640	.64	.82	.98	9.8	33,300	2980	.65	.84	.99
	710	1500	11.2	38,200	2090	.65	.84	.99	10.8	36,800	2340	.66	.86	1.0	10.4	35,400	2640	.67	.87	1.0	9.9	33,800	2990	.69	.90	1.0
71°F (22°C)	520	1100	11.5	39,300	2090	.44	.58	.72	11.1	37,900	2350	.44	.58	.73	10.7	36,400	2650	.44	.59	.75	10.2	34,800	2990	.45	.61	.76
	615	1300	11.8	40,100	2100	.45	.61	.77	11.3	38,600	2360	.45	.62	.78	10.9	37,100	2650	.45	.63	.80	10.4	35,500	3000	.46	.64	.82
	710	1500	11.9	40,700	2100	.46	.64	.82	11.5	39,200	2360	.46	.65	.83	11.0	37,600	2660	.47	.66	.85	10.5	35,900	3000	.47	.68	.88

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

HP27-036 — COOLING CAPACITY — CH33-44C-F - 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°C)	520	1100	10.0	34,200	2050	.77	.92	1.0	9.7	33,000	2310	.79	.94	1.0	9.3	31,700	2610	.80	.96	1.0	8.9	30,400	2960	.82	.98	1.0
	615	1300	10.3	35,200	2060	.82	.98	1.0	10.0	34,000	2320	.84	.99	1.0	9.6	32,800	2620	.85	1.0	1.0	9.3	31,600	2960	.87	1.0	1.0
	710	1500	10.6	36,300	2060	.87	1.0	1.0	10.3	35,100	2320	.88	1.0	1.0	9.9	33,900	2620	.90	1.0	1.0	9.6	32,700	2970	.92	1.0	1.0
67°F (19°C)	520	1100	10.6	36,300	2070	.59	.75	.89	10.3	35,000	2320	.60	.76	.91	9.8	33,600	2620	.61	.78	.93	9.4	32,100	2970	.62	.79	.95
	615	1300	10.9	37,100	2070	.62	.80	.95	10.5	35,700	2330	.63	.81	.97	10.1	34,300	2630	.64	.83	.98	9.6	32,800	2970	.66	.85	1.0
	710	1500	11.0	37,700	2080	.65	.85	.99	10.6	36,300	2330	.67	.86	1.0	10.2	34,900	2630	.68	.88	1.0	9.8	33,400	2970	.69	.90	1.0
71°F (22°C)	520	1100	11.3	38,700	2080	.44	.58	.72	10.9	37,300	2340	.44	.59	.74	10.5	35,800	2640	.44	.60	.75	10.1	34,300	2980	.45	.61	.77
	615	1300	11.6	39,500	2090	.45	.61	.77	11.1	38,000	2350	.45	.62	.79	10.7	36,500	2640	.45	.63	.81	10.2	34,900	2980	.46	.65	.83
	710	1500	11.7	40,000	2090	.46	.65	.82	11.3	38,500	2350	.46	.66	.84	10.8	37,000	2650	.47	.67	.86	10.4	35,400	2990	.47	.68	.88

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

HP27-036 — HEATING CAPACITY — CR26-65

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	
520	1100	11.6	39,700	2350	9.0	30,600	2190	6.2	21,000	2025	4.3	14,700	1820	2.1	7,300	1350
615	1300	11.8	40,200	2255	9.1	31,100	2095	6.3	21,500	1930	4.5	15,200	1725	2.3	7,800	1255
710	1500	11.9	40,600	2195	9.2	31,500	2035	6.4	21,900	1870	4.6	15,600	1665	2.4	8,200	1195

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

HP27-036 — HEATING CAPACITY — CH33-44B-F - 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	
520	1100	11.6	39,600	2380	8.9	30,500	2215	6.2	21,000	2045	4.3	14,600	1835	2.1	7,300	1360
615	1300	11.8	40,100	2285	9.1	31,000	2120	6.3	21,500	1950	4.4	15,100	1740	2.3	7,800	1265
710	1500	11.8	40,400	2245	9.2	31,300	2080	6.4	21,800	1910	4.5	15,400	1700	2.4	8,100	1225

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

HP27-036 — HEATING PERFORMANCE CR26-65 at 1300 cfm (615 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	2255	40,200	11.8
60	16	2215	38,100	11.2
55	13	2180	36,000	10.6
50	10	2140	33,800	9.9
47	8	2120	32,600	9.6
45	7	2095	31,100	9.1
40	4	2035	27,200	8.0
35	2	1975	23,400	6.9
30	-1	1955	22,400	6.6
25	-4	1930	21,500	6.3
20	-7	1910	20,500	6.0
17	-8	1895	20,000	5.9
15	-9	1880	19,100	5.6
10	-12	1840	17,000	5.0
5	-15	1725	15,200	4.5
0	-18	1605	13,300	3.9
-5	-21	1490	11,500	3.4
-10	-23	1370	9,700	2.8
-15	-26	1255	7,800	2.3
-20	-29	1135	6,000	1.8

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

HP27-036 — HEATING PERFORMANCE CH33-44B-F - CH23-65 at 1300 cfm (615 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	2285	40,100	11.8
60	16	2250	38,000	11.1
55	13	2210	35,900	10.5
50	10	2170	33,800	9.9
47	8	2145	32,500	9.5
45	7	2120	31,000	9.1
40	4	2060	27,200	8.0
35	2	2000	23,400	6.9
30	-1	1975	22,400	6.6
25	-4	1950	21,500	6.3
20	-7	1925	20,500	6.0
17	-8	1915	19,900	5.8
15	-9	1895	19,100	5.6
10	-12	1860	17,000	5.0
5	-15	1740	15,100	4.4
0	-18	1620	13,300	3.9
-5	-21	1505	11,500	3.4
-10	-23	1385	9,600	2.8
-15	-26	1265	7,800	2.3
-20	-29	1150	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.

HP27-036 — COOLING CAPACITY — CH33-50C-F - CH23-68

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°C)	520	1100	10.1	34,600	2060	.77	.92	1.0	9.8	33,400	2320	.78	.94	1.0	9.4	32,100	2620	.80	.96	1.0	9.0	30,700	2960	.82	.98	1.0
	615	1300	10.5	35,700	2070	.82	.99	1.0	10.1	34,500	2330	.84	1.0	1.0	9.8	33,300	2630	.85	1.0	1.0	9.4	32,000	2970	.87	1.0	1.0
	710	1500	10.8	37,000	2080	.87	1.0	1.0	10.5	35,800	2330	.89	1.0	1.0	10.1	34,500	2630	.91	1.0	1.0	9.7	33,200	2980	.93	1.0	1.0
67°F (19°C)	520	1100	10.8	36,900	2080	.59	.75	.89	10.4	35,500	2340	.60	.76	.91	10.0	34,100	2630	.61	.77	.93	9.6	32,600	2970	.62	.79	.95
	615	1300	11.1	37,800	2090	.62	.80	.96	10.7	36,400	2340	.63	.81	.97	10.2	34,900	2640	.64	.83	.99	9.8	33,300	2980	.66	.85	1.0
	710	1500	11.3	38,400	2090	.66	.85	1.0	10.8	37,000	2350	.67	.86	1.0	10.4	35,500	2640	.68	.88	1.0	9.9	33,900	2990	.69	.91	1.0
71°F (22°C)	520	1100	11.5	39,400	2100	.43	.58	.72	11.1	38,000	2350	.44	.58	.73	10.7	36,400	2650	.44	.60	.75	10.2	34,900	2990	.44	.60	.77
	615	1300	11.8	40,200	2110	.45	.61	.77	11.3	38,700	2360	.45	.62	.79	10.9	37,200	2660	.45	.63	.81	10.4	35,500	3000	.46	.65	.83
	710	1500	12.0	40,900	2110	.46	.64	.82	11.5	39,300	2370	.46	.66	.84	11.0	37,700	2660	.47	.67	.86	10.6	36,000	3000	.48	.69	.89

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

HP27-042 — COOLING CAPACITY — CB29M-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°C)	520	1100	11.8	40,400	2770	.71	.85	.96	11.4	39,000	3120	.72	.86	.97	11.0	37,500	3520	.73	.87	.99	10.6	36,000	3970	.75	.89	1.0
	615	1300	12.2	41,600	2780	.75	.89	1.0	11.8	40,100	3130	.76	.91	1.0	11.3	38,600	3530	.78	.92	1.0	10.9	37,100	3980	.79	.94	1.0
	710	1500	12.5	42,600	2780	.78	.94	1.0	12.0	41,100	3140	.80	.95	1.0	11.6	39,600	3540	.81	.97	1.0	11.1	38,000	3980	.83	.98	1.0
67°F (19°C)	520	1100	12.6	43,100	2780	.56	.69	.81	12.2	41,600	3140	.57	.70	.82	11.7	40,000	3540	.57	.71	.84	11.2	38,300	3990	.58	.72	.86
	615	1300	13.0	44,200	2790	.58	.72	.86	12.5	42,600	3150	.59	.74	.88	12.0	41,000	3550	.60	.75	.89	11.5	39,200	4000	.60	.77	.91
	710	1500	13.2	45,100	2800	.60	.76	.91	12.7	43,400	3150	.61	.77	.92	12.2	41,700	3560	.62	.79	.94	11.7	40,000	4010	.63	.81	.96
71°F (22°C)	520	1100	13.5	46,100	2800	.43	.54	.66	13.0	44,500	3160	.42	.55	.67	12.5	42,800	3560	.43	.56	.68	12.0	41,000	4020	.43	.56	.70
	615	1300	13.8	47,200	2810	.43	.56	.70	13.3	45,500	3170	.43	.57	.71	12.8	43,800	3570	.44	.58	.72	12.3	41,900	4030	.44	.59	.74
	710	1500	14.1	48,000	2820	.44	.59	.74	13.6	46,300	3170	.44	.60	.75	13.0	44,500	3580	.44	.61	.77	12.5	42,600	4030	.45	.62	.78

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

HP27-036 — HEATING CAPACITY — CH33-50C-F - CH23-68

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	
520	1100	11.7	39,900	2300	9.0	30,700	2150	6.2	21,000	1995	4.3	14,700	1795	2.1	7,300	1330
615	1300	11.8	40,400	2210	9.1	31,200	2060	6.3	21,500	1905	4.5	15,200	1705	2.3	7,800	1240
710	1500	11.9	40,700	2170	9.2	31,500	2020	6.4	21,800	1865	4.5	15,500	1665	2.4	8,100	1200

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

HP27-042 — HEATING CAPACITY — CB29M-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	
520	1100	13.8	47,000	3365	10.8	36,800	3050	7.6	25,900	2715	5.6	19,100	2425	2.8	9,400	1825
615	1300	14.0	47,600	3195	11.0	37,400	2880	7.8	26,500	2545	5.8	19,700	2255	2.9	10,000	1655
710	1500	14.1	48,000	3075	11.1	37,800	2760	7.9	26,900	2425	5.9	20,100	2135	3.0	10,400	1535

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

HP27-036 — HEATING PERFORMANCE
CH33-50C-F - CH23-68 at 1300 cfm (615 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	2210	40,400	11.8
60	16	2175	38,200	11.2
55	13	2140	36,100	10.6
50	10	2105	34,000	10.0
47	8	2085	32,700	9.6
45	7	2060	31,200	9.1
40	4	2005	27,300	8.0
35	2	1945	23,500	6.9
30	-1	1925	22,500	6.6
25	-4	1905	21,500	6.3
20	-7	1885	20,500	6.0
17	-8	1875	20,000	5.9
15	-9	1860	19,100	5.6
10	-12	1825	17,000	5.0
5	-15	1705	15,200	4.5
0	-18	1590	13,300	3.9
-5	-21	1475	11,500	3.4
-10	-23	1355	9,700	2.8
-15	-26	1240	7,800	2.3
-20	-29	1125	6,000	1.8

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

HP27-042 — HEATING PERFORMANCE
CB29M-51 at 1300 cfm (615 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	3195	47,600	14.0
60	16	3125	45,300	13.3
55	13	3050	43,000	12.6
50	10	2980	40,700	11.9
47	8	2935	39,300	11.5
45	7	2880	37,400	11.0
40	4	2735	32,700	9.6
35	2	2590	28,000	8.2
30	-1	2565	27,200	8.0
25	-4	2545	26,500	7.8
20	-7	2520	25,800	7.6
17	-8	2505	25,300	7.4
15	-9	2475	24,400	7.2
10	-12	2405	22,100	6.5
5	-15	2255	19,700	5.8
0	-18	2105	17,300	5.1
-5	-21	1955	14,800	4.3
-10	-23	1805	12,400	3.6
-15	-26	1655	10,000	2.9
-20	-29	1505	7,600	2.2

*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.

HP27-042 — COOLING CAPACITY — CB30M-41/CB30U-41/46

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°C)	520	1100	11.8	40,100	2760	.71	.85	.96	11.3	38,700	3110	.72	.86	.98	10.9	37,200	3500	.73	.87	.99	10.5	35,700	3950	.75	.89	1.0
	615	1300	12.1	41,300	2760	.75	.89	1.0	11.7	39,800	3120	.76	.91	1.0	11.2	38,300	3510	.77	.93	1.0	10.8	36,800	3960	.79	.94	1.0
	710	1500	12.4	42,200	2770	.78	.94	1.0	12.0	40,800	3120	.80	.95	1.0	11.5	39,300	3520	.81	.97	1.0	11.0	37,700	3970	.83	.98	1.0
67°F (19°C)	520	1100	12.5	42,800	2770	.56	.69	.81	12.1	41,300	3120	.57	.70	.82	11.6	39,700	3520	.57	.71	.84	11.1	38,000	3970	.58	.72	.86
	615	1300	12.8	43,800	2780	.58	.72	.86	12.4	42,300	3130	.59	.74	.88	11.9	40,600	3530	.60	.75	.89	11.4	38,900	3980	.60	.77	.91
	710	1500	13.1	44,700	2780	.60	.76	.91	12.6	43,100	3140	.61	.77	.92	12.1	41,400	3540	.62	.79	.94	11.6	39,600	3990	.63	.81	.96
71°F (22°C)	520	1100	13.4	45,700	2790	.42	.54	.66	12.9	44,100	3140	.43	.55	.67	12.5	42,500	3540	.43	.56	.68	11.9	40,700	4000	.43	.56	.70
	615	1300	13.7	46,800	2800	.43	.56	.70	13.2	45,200	3150	.43	.57	.71	12.7	43,400	3560	.44	.58	.73	12.2	41,600	4010	.44	.59	.74
	710	1500	14.0	47,600	2800	.44	.59	.74	13.5	45,900	3160	.44	.60	.75	12.9	44,100	3560	.44	.61	.77	12.4	42,300	4010	.45	.62	.78

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

HP27-042 — 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°C)	520	1100	11.8	40,100	2760	.71	.85	.96	11.3	38,700	3110	.72	.86	.98	10.9	37,200	3500	.73	.87	.99	10.5	35,700	3950	.75	.89	1.0
	615	1300	12.1	41,300	2760	.75	.89	1.0	11.7	39,800	3120	.76	.91	1.0	11.2	38,300	3510	.77	.93	1.0	10.8	36,800	3960	.79	.94	1.0
	710	1500	12.4	42,200	2770	.78	.94	1.0	12.0	40,800	3120	.80	.95	1.0	11.5	39,300	3520	.81	.97	1.0	11.0	37,700	3970	.83	.98	1.0
67°F (19°C)	520	1100	12.5	42,800	2770	.56	.69	.81	12.1	41,300	3120	.57	.70	.82	11.6	39,700	3520	.57	.71	.84	11.1	38,000	3970	.58	.72	.86
	615	1300	12.8	43,800	2780	.58	.72	.86	12.4	42,300	3130	.59	.74	.88	11.9	40,600	3530	.60	.75	.89	11.4	38,900	3980	.60	.77	.91
	710	1500	13.1	44,700	2780	.60	.76	.91	12.6	43,100	3140	.61	.77	.92	12.1	41,400	3540	.62	.79	.94	11.6	39,600	3990	.63	.81	.96
71°F (22°C)	520	1100	13.4	45,700	2790	.42	.54	.66	12.9	44,100	3140	.43	.55	.67	12.5	42,500	3540	.43	.56	.68	11.9	40,700	4000	.43	.56	.70
	615	1300	13.7	46,800	2800	.43	.56	.70	13.2	45,200	3150	.43	.57	.71	12.7	43,400	3560	.44	.58	.73	12.2	41,600	4010	.44	.59	.74
	710	1500	14.0	47,600	2800	.44	.59	.74	13.5	45,900	3160	.44	.60	.75	12.9	44,100	3560	.44	.61	.77	12.4	42,300	4010	.45	.62	.78

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

HP27-042 — HEATING CAPACITY — CB30M-41/CB30U-41/46

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	
520	1100	13.7	46,800	3250	10.7	36,500	2960	7.5	25,500	2650	5.5	18,600	2380	2.7	9,300	1785
615	1300	13.9	47,300	3090	10.8	37,000	2800	7.6	26,000	2490	5.6	19,100	2220	2.9	9,800	1625
710	1500	14.0	47,800	2980	11.0	37,500	2690	7.8	26,500	2380	5.7	19,600	2110	3.0	10,300	1515

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

HP27-042 — 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	
520	1100	13.7	46,900	3265	10.7	36,600	2965	7.5	25,600	2650	5.5	18,700	2370	2.8	9,400	1780
615	1300	13.9	47,300	3105	10.8	37,000	2805	7.6	26,000	2490	5.6	19,100	2210	2.9	9,800	1620
710	1500	14.0	47,700	2995	11.0	37,400	2695	7.7	26,400	2380	5.7	19,500	2100	3.0	10,200	1510

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

HP27-042 — HEATING PERFORMANCE
CB30U-41/46 - CB30M-41 at 1300 cfm (615 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	3090	47,300	13.9
60	16	3025	44,900	13.2
55	13	2960	42,600	12.5
50	10	2895	40,200	11.8
47	8	2855	38,800	11.4
45	7	2800	37,000	10.8
40	4	2665	32,300	9.5
35	2	2535	27,600	8.1
30	-1	2510	26,800	7.9
25	-4	2490	26,000	7.6
20	-7	2470	25,200	7.4
17	-8	2460	24,800	7.3
15	-9	2435	23,800	7.0
10	-12	2365	21,500	6.3
5	-15	2220	19,100	5.6
0	-18	2070	16,800	4.9
-5	-21	1920	14,400	4.2
-10	-23	1775	12,100	3.5
-15	-26	1625	9,800	2.9
-20	-29	1475	7,400	2.2

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

HP27-042 — HEATING PERFORMANCE
CB30M-46 at 1300 cfm (615 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	3105	47,300	13.9
60	16	3040	44,900	13.2
55	13	2970	42,600	12.5
50	10	2900	40,200	11.8
47	8	2860	38,800	11.4
45	7	2805	37,000	10.8
40	4	2670	32,300	9.5
35	2	2535	27,600	8.1
30	-1	2510	26,800	7.9
25	-4	2490	26,000	7.6
20	-7	2465	25,200	7.4
17	-8	2455	24,800	7.3
15	-9	2425	23,800	7.0
10	-12	2360	21,500	6.3
5	-15	2210	19,100	5.6
0	-18	2060	16,800	4.9
-5	-21	1915	14,400	4.2
-10	-23	1765	12,100	3.5
-15	-26	1620	9,800	2.9
-20	-29	1470	7,400	2.2

*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.

HP27-042 — COOLING CAPACITY — CB30U-51 — 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°C)	520	1100	12.0	40,800	2740	.71	.84	.96	11.5	39,400	3090	.72	.86	.98	11.1	37,900	3480	.73	.87	.99	10.6	36,300	3930	.75	.89	1.0
	615	1300	12.3	42,100	2750	.75	.89	1.0	11.9	40,600	3100	.76	.91	1.0	11.4	39,000	3490	.77	.93	1.0	11.0	37,400	3940	.79	.94	1.0
	710	1500	12.7	43,200	2760	.78	.94	1.0	12.2	41,600	3110	.79	.95	1.0	11.7	40,000	3500	.81	.97	1.0	11.3	38,400	3950	.83	.99	1.0
67°F (19°C)	520	1100	12.8	43,700	2760	.56	.68	.81	12.3	42,100	3110	.57	.69	.82	11.9	40,500	3510	.57	.70	.83	11.4	38,800	3950	.58	.72	.85
	615	1300	13.2	44,900	2770	.58	.72	.86	12.7	43,300	3120	.59	.73	.87	12.2	41,600	3510	.60	.75	.89	11.6	39,700	3960	.60	.76	.91
	710	1500	13.5	45,900	2770	.60	.76	.91	12.9	44,100	3130	.61	.77	.92	12.4	42,400	3520	.62	.79	.94	11.9	40,500	3970	.63	.80	.96
71°F (22°C)	520	1100	13.7	46,800	2780	.42	.54	.66	13.2	45,100	3130	.43	.55	.67	12.7	43,400	3530	.43	.55	.68	12.2	41,600	3980	.43	.56	.69
	615	1300	14.1	48,000	2790	.43	.56	.69	13.6	46,300	3140	.43	.57	.71	13.0	44,500	3540	.43	.58	.72	12.5	42,500	3990	.44	.59	.74
	710	1500	14.3	48,900	2790	.44	.59	.73	13.8	47,100	3150	.44	.59	.75	13.2	45,200	3540	.44	.60	.76	12.7	43,200	3990	.45	.62	.78

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

HP27-042 — COOLING 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°C)	520	1100	11.7	39,800	2760	.72	.85	.96	11.3	38,400	3110	.72	.86	.97	10.8	37,000	3500	.73	.87	.99	10.4	35,500	3950	.75	.89	1.0
	615	1300	12.0	41,000	2760	.75	.89	1.0	11.6	39,600	3120	.76	.91	1.0	11.2	38,100	3510	.77	.92	1.0	10.7	36,500	3960	.79	.95	1.0
	710	1500	12.3	42,000	2770	.78	.94	1.0	11.9	40,500	3120	.80	.95	1.0	11.4	39,000	3520	.81	.97	1.0	11.0	37,500	3970	.83	.98	1.0
67°F (19°C)	520	1100	12.5	42,500	2770	.56	.69	.81	12.0	41,000	3120	.57	.70	.82	11.6	39,500	3520	.57	.71	.84	11.1	37,800	3970	.58	.72	.86
	615	1300	12.8	43,600	2780	.58	.72	.86	12.3	42,000	3130	.59	.74	.87	11.8	40,400	3530	.60	.75	.89	11.3	38,700	3980	.60	.76	.91
	710	1500	13.0	44,400	2780	.60	.76	.91	12.5	42,800	3140	.61	.77	.92	12.0	41,100	3540	.62	.79	.94	11.5	39,400	3990	.63	.81	.96
71°F (22°C)	520	1100	13.3	45,400	2790	.43	.54	.66	12.9	43,900	3140	.43	.55	.67	12.4	42,200	3540	.43	.55	.68	11.8	40,400	4000	.43	.56	.70
	615	1300	13.6	46,500	2800	.43	.57	.70	13.2	44,900	3150	.43	.57	.71	12.6	43,100	3560	.44	.58	.73	12.1	41,300	4010	.44	.59	.74
	710	1500	13.9	47,300	2800	.44	.59	.74	13.4	45,600	3160	.44	.60	.75	12.9	43,900	3560	.44	.61	.77	12.3	42,000	4010	.45	.62	.78

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

HP27-042 — HEATING CAPACITY — CB30U-51 — 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	
520	1100	13.8	47,100	3190	10.8	36,700	2935	7.5	25,700	2665	5.5	18,700	2415	2.8	9,400	1800
615	1300	13.9	47,500	3035	10.9	37,100	2780	7.6	26,100	2510	5.6	19,100	2260	2.9	9,800	1645
710	1500	14.0	47,900	2920	11.0	37,500	2665	7.8	26,500	2395	5.7	19,500	2145	3.0	10,200	1530

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

HP27-042 — 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	
520	1100	13.7	46,900	3285	10.7	36,600	2995	7.5	25,600	2690	5.5	18,700	2410	2.8	9,400	1815
615	1300	13.9	47,300	3095	10.8	37,000	2805	7.6	26,000	2500	5.6	19,100	2220	2.9	9,800	1625
710	1500	14.0	47,700	2965	11.0	37,400	2675	7.7	26,400	2370	5.7	19,500	2090	3.0	10,200	1495

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

HP27-042 — HEATING PERFORMANCE CB30U/CB30M-51 at 1300 cfm (615 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	3035	47,500	13.9
60	16	2980	45,200	13.2
55	13	2925	42,800	12.5
50	10	2865	40,400	11.8
47	8	2830	39,000	11.4
45	7	2780	37,100	10.9
40	4	2660	32,400	9.5
35	2	2535	27,700	8.1
30	-1	2520	26,900	7.9
25	-4	2510	26,100	7.6
20	-7	2495	25,300	7.4
17	-8	2490	24,800	7.3
15	-9	2465	23,800	7.0
10	-12	2410	21,500	6.3
5	-15	2260	19,100	5.6
0	-18	2105	16,800	4.9
-5	-21	1950	14,500	4.2
-10	-23	1800	12,100	3.5
-15	-26	1645	9,800	2.9
-20	-29	1495	7,400	2.2

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

HP27-042 — HEATING PERFORMANCE CB31MV-41 at 1300 cfm (615 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	3095	47,300	13.9
60	16	3030	44,900	13.2
55	13	2960	42,600	12.5
50	10	2895	40,200	11.8
47	8	2855	38,800	11.4
45	7	2805	37,000	10.8
40	4	2675	32,300	9.5
35	2	2540	27,600	8.1
30	-1	2520	26,800	7.9
25	-4	2500	26,000	7.6
20	-7	2475	25,200	7.4
17	-8	2465	24,800	7.3
15	-9	2435	23,800	7.0
10	-12	2370	21,500	6.3
5	-15	2220	19,100	5.6
0	-18	2075	16,800	4.9
-5	-21	1925	14,400	4.2
-10	-23	1775	12,100	3.5
-15	-26	1625	9,800	2.9
-20	-29	1480	7,400	2.2

*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.

HP27-042 — 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°C)	520	1100	11.8	40,400	2750	.71	.84	.96	11.4	39,000	3100	.72	.86	.98	11.0	37,500	3490	.73	.87	.99	10.5	35,900	3930	.75	.89	1.0
	615	1300	12.2	41,700	2750	.74	.89	1.0	11.8	40,200	3100	.76	.91	1.0	11.3	38,600	3500	.77	.92	1.0	10.8	37,000	3950	.79	.94	1.0
	710	1500	12.5	42,700	2760	.78	.94	1.0	12.1	41,200	3110	.80	.95	1.0	11.6	39,600	3510	.81	.97	1.0	11.1	38,000	3960	.83	.99	1.0
67°F (19°C)	520	1100	12.7	43,200	2760	.56	.69	.81	12.2	41,700	3120	.56	.69	.82	11.8	40,100	3510	.57	.70	.84	11.3	38,400	3960	.58	.72	.85
	615	1300	13.0	44,400	2780	.58	.72	.86	12.5	42,800	3120	.59	.73	.87	12.0	41,100	3520	.59	.75	.89	11.5	39,300	3970	.60	.76	.91
	710	1500	13.3	45,400	2780	.60	.76	.90	12.8	43,700	3130	.61	.77	.92	12.3	41,900	3530	.62	.79	.94	11.8	40,100	3980	.63	.81	.96
71°F (22°C)	520	1100	13.6	46,300	2790	.42	.54	.66	13.1	44,700	3140	.43	.55	.66	12.6	42,900	3540	.43	.55	.68	12.0	41,100	3980	.43	.56	.69
	615	1300	13.9	47,500	2790	.43	.56	.69	13.4	45,800	3140	.43	.57	.71	12.9	44,000	3540	.43	.58	.72	12.3	42,100	4000	.44	.59	.74
	710	1500	14.2	48,400	2800	.44	.59	.73	13.7	46,600	3150	.44	.59	.75	13.1	44,700	3550	.45	.61	.76	12.5	42,800	4000	.45	.62	.78

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

HP27-042 — COOLING CAPACITY — CVP10-41/EC10Q3 — CVP10-46/EC10Q4

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°C)	520	1100	11.5	39,400	2760	.71	.85	.96	11.1	38,000	3110	.72	.86	.97	10.7	36,600	3510	.73	.87	.99	10.3	35,100	3960	.75	.89	1.0
	615	1300	11.9	40,600	2770	.75	.89	1.0	11.5	39,200	3120	.76	.91	1.0	11.0	37,700	3520	.77	.92	1.0	10.6	36,100	3980	.79	.94	1.0
	710	1500	12.2	41,600	2780	.78	.94	1.0	11.8	40,200	3130	.80	.95	1.0	11.3	38,700	3530	.81	.96	1.0	10.9	37,100	3980	.83	.98	1.0
67°F (19°C)	520	1100	12.3	42,000	2780	.56	.69	.81	11.9	40,600	3130	.57	.69	.82	11.4	39,000	3530	.57	.71	.84	11.0	37,400	3980	.58	.72	.86
	615	1300	12.6	43,100	2780	.58	.72	.86	12.2	41,600	3140	.59	.73	.88	11.7	40,000	3540	.60	.75	.89	11.2	38,300	3990	.60	.77	.91
	710	1500	12.9	44,000	2790	.60	.76	.91	12.4	42,400	3140	.61	.77	.92	12.0	40,800	3550	.62	.79	.94	11.4	39,000	4000	.63	.81	.96
71°F (22°C)	520	1100	13.2	44,900	2800	.43	.54	.66	12.7	43,400	3150	.42	.55	.67	12.3	41,800	3550	.43	.55	.68	11.7	40,000	4000	.43	.56	.70
	615	1300	13.5	46,000	2800	.43	.56	.70	13.0	44,400	3160	.43	.57	.71	12.5	42,700	3560	.44	.58	.72	12.0	40,900	4020	.44	.59	.74
	710	1500	13.7	46,900	2810	.44	.59	.74	13.2	45,200	3160	.44	.60	.75	12.7	43,400	3570	.44	.61	.77	12.2	41,600	4020	.45	.62	.78

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

HP27-042 — 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	
520	1100	13.8	47,000	3150	10.7	36,600	2900	7.5	25,600	2630	5.5	18,600	2380	2.7	9,300	1775
615	1300	13.9	47,500	3010	10.9	37,100	2760	7.6	26,100	2490	5.6	19,100	2240	2.9	9,800	1635
710	1500	14.1	48,000	2890	11.0	37,600	2640	7.8	26,600	2370	5.7	19,600	2120	3.0	10,300	1515

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

HP27-042 — HEATING CAPACITY — CVP10-41/EC10Q3 — CVP10-46/EC10Q4

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	
520	1100	13.8	47,100	3260	10.8	36,700	2890	7.6	25,800	2460	5.5	18,900	2360	2.8	9,400	1770
615	1300	14.0	47,600	3105	10.9	37,200	2735	7.7	26,300	2305	5.7	19,400	2205	2.9	9,900	1615
710	1500	14.1	48,000	2990	11.0	37,600	2620	7.8	26,700	2190	5.8	19,800	2090	3.0	10,300	1500

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

HP27-042 — HEATING PERFORMANCE CB31MV-51 at 1300 cfm (615 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	3010	47,500	13.9
60	16	2955	45,200	13.2
55	13	2900	42,800	12.5
50	10	2845	40,400	11.8
47	8	2810	39,000	11.4
45	7	2760	37,100	10.9
40	4	2640	32,400	9.5
35	2	2520	27,700	8.1
30	-1	2505	26,900	7.9
25	-4	2490	26,100	7.6
20	-7	2480	25,300	7.4
17	-8	2470	24,800	7.3
15	-9	2450	23,800	7.0
10	-12	2390	21,500	6.3
5	-15	2240	19,100	5.6
0	-18	2090	16,800	4.9
-5	-21	1935	14,500	4.2
-10	-23	1785	12,100	3.5
-15	-26	1635	9,800	2.9
-20	-29	1485	7,400	2.2

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

HP27-042 — HEATING PERFORMANCE CVP10-41/EC10Q3 - CVP10-46/EC10Q4 at 1300cfm (615 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	3105	47,600	14.0
60	16	3035	45,200	13.2
55	13	2970	42,900	12.6
50	10	2900	40,500	11.9
47	8	2860	39,100	11.5
45	7	2735	37,200	10.9
40	4	2430	32,500	9.5
35	2	2125	27,800	8.1
30	-1	2215	27,000	7.9
25	-4	2305	26,300	7.7
20	-7	2395	25,500	7.5
17	-8	2450	25,000	7.3
15	-9	2420	24,100	7.1
10	-12	2350	21,700	6.4
5	-15	2205	19,400	5.7
0	-18	2060	17,000	5.0
-5	-21	1910	14,600	4.3
-10	-23	1765	12,300	3.6
-15	-26	1615	9,900	2.9
-20	-29	1470	7,500	2.2

*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.

HP27-042 — COOLING CAPACITY — CR26-51

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°C)	520	1100	11.5	39,300	2760	.71	.84	.95	11.1	38,000	3110	.72	.85	.97	10.7	36,500	3510	.73	.87	.98	10.3	35,000	3960	.74	.88	.99
	615	1300	11.9	40,500	2770	.74	.88	.99	11.5	39,100	3120	.75	.90	1.0	11.0	37,600	3530	.76	.91	1.0	10.6	36,000	3980	.78	.93	1.0
	710	1500	12.1	41,400	2780	.77	.93	1.0	11.7	40,000	3130	.78	.94	1.0	11.3	38,500	3530	.80	.96	1.0	10.8	36,900	3980	.82	.97	1.0
67°F (19°C)	520	1100	12.3	42,100	2780	.56	.68	.80	11.9	40,600	3130	.56	.69	.82	11.5	39,100	3530	.57	.70	.83	11.0	37,400	3990	.57	.71	.85
	615	1300	12.6	43,100	2790	.58	.71	.85	12.2	41,600	3140	.58	.73	.87	11.7	40,000	3540	.59	.74	.88	11.2	38,300	3990	.60	.75	.90
	710	1500	12.9	44,000	2790	.59	.75	.89	12.4	42,400	3150	.60	.76	.91	11.9	40,700	3550	.61	.78	.93	11.4	39,000	4000	.62	.79	.95
71°F (22°C)	520	1100	13.2	45,000	2800	.42	.54	.65	12.7	43,400	3150	.42	.54	.66	12.3	41,800	3550	.43	.55	.67	11.8	40,100	4010	.43	.56	.69
	615	1300	13.5	46,100	2800	.43	.56	.69	13.0	44,500	3160	.43	.56	.70	12.5	42,700	3570	.43	.57	.71	12.0	41,000	4020	.44	.58	.73
	710	1500	13.7	46,900	2810	.43	.58	.72	13.2	45,200	3170	.44	.59	.74	12.7	43,500	3570	.44	.60	.75	12.2	41,700	4020	.44	.61	.77

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

HP27-042 — COOLING CAPACITY — CR26-65

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°C)	520	1100	11.8	40,400	2750	.71	.84	.96	11.4	39,000	3100	.72	.86	.97	11.0	37,500	3500	.73	.87	.99	10.5	35,900	3940	.75	.89	1.0
	615	1300	12.2	41,700	2760	.75	.89	1.0	11.8	40,200	3110	.76	.91	1.0	11.3	38,600	3510	.77	.92	1.0	10.8	37,000	3950	.79	.94	1.0
	710	1500	12.5	42,700	2770	.78	.94	1.0	12.1	41,200	3120	.80	.95	1.0	11.6	39,600	3520	.81	.97	1.0	11.1	38,000	3960	.83	.99	1.0
67°F (19°C)	520	1100	12.7	43,200	2770	.56	.69	.81	12.2	41,700	3120	.56	.69	.82	11.8	40,100	3520	.57	.71	.84	11.3	38,400	3960	.58	.72	.85
	615	1300	13.0	44,400	2780	.58	.72	.86	12.5	42,800	3130	.59	.73	.87	12.0	41,100	3530	.59	.75	.89	11.5	39,300	3970	.60	.76	.91
	710	1500	13.3	45,300	2780	.60	.76	.91	12.8	43,600	3130	.61	.77	.92	12.3	41,900	3530	.62	.79	.94	11.7	40,000	3990	.63	.81	.96
71°F (22°C)	520	1100	13.5	46,200	2790	.42	.54	.66	13.1	44,600	3140	.43	.55	.67	12.6	42,900	3540	.43	.55	.68	12.0	41,100	3990	.43	.56	.69
	615	1300	13.9	47,400	2800	.43	.56	.70	13.4	45,700	3150	.43	.57	.71	12.9	43,900	3550	.44	.58	.72	12.3	42,100	4000	.44	.59	.74
	710	1500	14.2	48,300	2800	.44	.59	.73	13.6	46,500	3150	.44	.60	.75	13.1	44,700	3560	.45	.60	.77	12.5	42,700	4010	.45	.62	.78

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

HP27-042 — HEATING CAPACITY — CR26-51

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	
520	1100	13.7	46,700	3405	10.7	36,500	3075	7.6	25,800	2725	5.6	19,000	2425	2.8	9,400	1825
615	1300	13.8	47,200	3245	10.8	37,000	2915	7.7	26,300	2565	5.7	19,500	2265	2.9	9,900	1665
710	1500	14.0	47,700	3130	11.0	37,500	2800	7.9	26,800	2450	5.9	20,000	2150	3.0	10,400	1550

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

HP27-042 — HEATING CAPACITY — CR26-65

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	
520	1100	13.8	47,100	3215	10.8	36,800	2935	7.6	25,800	2630	5.5	18,800	2365	2.8	9,400	1770
615	1300	14.0	47,600	3060	10.9	37,300	2780	7.7	26,300	2475	5.7	19,300	2210	2.9	9,900	1615
710	1500	14.1	48,100	2955	11.1	37,800	2675	7.9	26,800	2370	5.8	19,800	2105	3.0	10,400	1510

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

HP27-042 — HEATING PERFORMANCE CR26-51 at 1300 cfm (615 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	3245	47,200	13.8
60	16	3170	44,900	13.2
55	13	3095	42,600	12.5
50	10	3020	40,300	11.8
47	8	2975	38,900	11.4
45	7	2915	37,000	10.8
40	4	2770	32,400	9.5
35	2	2620	27,700	8.1
30	-1	2595	27,000	7.9
25	-4	2565	26,300	7.7
20	-7	2540	25,500	7.5
17	-8	2520	25,100	7.4
15	-9	2490	24,200	7.1
10	-12	2415	21,900	6.4
5	-15	2265	19,500	5.7
0	-18	2115	17,100	5.0
-5	-21	1965	14,700	4.3
-10	-23	1815	12,300	3.6
-15	-26	1665	9,900	2.9
-20	-29	1515	7,500	2.2

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

HP27-042 — HEATING PERFORMANCE CR26-65 at 1300 cfm (615 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	3060	47,600	14.0
60	16	3000	45,300	13.3
55	13	2935	42,900	12.6
50	10	2870	40,600	11.9
47	8	2830	39,200	11.5
45	7	2780	37,300	10.9
40	4	2645	32,500	9.5
35	2	2510	27,800	8.1
30	-1	2495	27,000	7.9
25	-4	2475	26,300	7.7
20	-7	2455	25,500	7.5
17	-8	2445	25,000	7.3
15	-9	2420	24,100	7.1
10	-12	2355	21,700	6.4
5	-15	2210	19,300	5.7
0	-18	2060	17,000	5.0
-5	-21	1910	14,600	4.3
-10	-23	1765	12,200	3.6
-15	-26	1615	9,900	2.9
-20	-29	1470	7,500	2.2

*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.

HP27-042 — COOLING CAPACITY — CH33-44B-F - 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°C)	520	1100	11.9	40,500	2750	.72	.85	.97	11.5	39,100	3110	.72	.86	.98	11.0	37,600	3510	.74	.88	.99	10.6	36,000	3950	.75	.90	1.0
	615	1300	12.3	41,800	2770	.75	.90	1.0	11.8	40,300	3120	.77	.91	1.0	11.4	38,800	3510	.78	.93	1.0	10.9	37,200	3960	.79	.95	1.0
	710	1500	12.5	42,800	2770	.79	.94	1.0	12.1	41,300	3120	.80	.96	1.0	11.7	39,800	3520	.82	.97	1.0	11.2	38,200	3970	.83	.99	1.0
67°F (19°C)	520	1100	12.7	43,200	2770	.56	.69	.82	12.2	41,700	3120	.57	.70	.83	11.8	40,100	3530	.57	.71	.84	11.3	38,400	3970	.58	.72	.86
	615	1300	13.0	44,400	2780	.58	.73	.86	12.5	42,800	3130	.59	.74	.88	12.0	41,100	3530	.60	.75	.90	11.5	39,400	3980	.61	.77	.92
	710	1500	13.2	45,200	2790	.61	.77	.91	12.8	43,600	3140	.61	.78	.93	12.3	41,900	3540	.62	.79	.95	11.8	40,100	3990	.64	.81	.97
71°F (22°C)	520	1100	13.5	46,200	2790	.42	.54	.66	13.1	44,600	3140	.43	.55	.67	12.6	42,900	3550	.43	.56	.68	12.0	41,100	4000	.43	.56	.70
	615	1300	13.9	47,400	2800	.43	.57	.70	13.4	45,700	3150	.43	.57	.71	12.9	43,900	3560	.44	.58	.73	12.3	42,000	4000	.44	.59	.74
	710	1500	14.1	48,200	2810	.44	.59	.74	13.6	46,500	3160	.44	.60	.76	13.1	44,700	3560	.45	.61	.77	12.5	42,800	4010	.45	.62	.79

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

HP27-042 — COOLING CAPACITY — CH33-50C-F - CH23-68

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°C)	520	1100	12.0	41,100	2750	.71	.84	.97	11.6	39,700	3100	.72	.86	.98	11.2	38,100	3490	.73	.87	1.0	10.7	36,500	3930	.75	.89	1.0
	615	1300	12.5	42,500	2760	.75	.89	1.0	12.0	40,900	3110	.76	.91	1.0	11.5	39,300	3510	.77	.93	1.0	11.0	37,600	3950	.79	.95	1.0
	710	1500	12.8	43,600	2770	.79	.94	1.0	12.3	42,000	3120	.80	.96	1.0	11.8	40,400	3510	.82	.98	1.0	11.3	38,700	3960	.83	.99	1.0
67°F (19°C)	520	1100	12.9	44,000	2770	.56	.68	.81	12.4	42,400	3120	.57	.70	.82	12.0	40,800	3510	.57	.71	.84	11.4	39,000	3960	.58	.72	.86
	615	1300	13.3	45,300	2780	.58	.72	.86	12.8	43,600	3130	.59	.74	.88	12.3	41,900	3520	.60	.75	.90	11.7	40,000	3970	.61	.77	.92
	710	1500	13.6	46,300	2780	.60	.76	.91	13.0	44,500	3130	.61	.78	.93	12.5	42,700	3530	.62	.79	.95	12.0	40,800	3980	.63	.81	.97
71°F (22°C)	520	1100	13.8	47,200	2790	.42	.54	.66	13.3	45,500	3140	.42	.55	.67	12.8	43,700	3540	.43	.55	.68	12.3	41,800	3990	.43	.56	.69
	615	1300	14.2	48,400	2800	.43	.56	.70	13.7	46,600	3150	.43	.57	.71	13.1	44,800	3550	.44	.58	.73	12.5	42,800	4000	.44	.59	.74
	710	1500	14.5	49,400	2800	.44	.59	.74	13.9	47,500	3150	.44	.60	.75	13.4	45,600	3550	.45	.61	.77	12.7	43,500	4000	.45	.62	.79

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

HP27-042 — HEATING CAPACITY — - CH33-44B-F - 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	
520	1100	13.8	47,000	3255	10.8	36,700	2960	7.6	25,800	2640	5.5	18,900	2365	2.8	9,400	1775
615	1300	13.9	47,500	3100	10.9	37,200	2805	7.7	26,300	2485	5.7	19,400	2210	2.9	9,900	1620
710	1500	14.1	48,000	2985	11.0	37,700	2690	7.9	26,800	2370	5.8	19,900	2095	3.0	10,400	1505

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

HP27-042 — HEATING CAPACITY — CH33-50C-F - CH23-68

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	
520	1100	13.9	47,400	3085	10.8	36,900	2765	7.6	25,800	2380	5.5	18,900	2310	2.8	9,400	1725
615	1300	14.0	47,900	2940	11.0	37,400	2620	7.7	26,300	2235	5.7	19,400	2165	2.9	9,900	1580
710	1500	14.2	48,300	2840	11.1	37,800	2520	7.8	26,700	2135	5.8	19,800	2065	3.0	10,300	1480

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

HP27-042 — HEATING PERFORMANCE
CH33-44B-F - CH23-65 at 1300 cfm (615 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	3100	47,500	13.9
60	16	3035	45,200	13.2
55	13	2965	42,900	12.6
50	10	2900	40,500	11.9
47	8	2860	39,100	11.5
45	7	2805	37,200	10.9
40	4	2665	32,500	9.5
35	2	2530	27,800	8.1
30	-1	2505	27,000	7.9
25	-4	2485	26,300	7.7
20	-7	2465	25,500	7.5
17	-8	2450	25,000	7.3
15	-9	2425	24,100	7.1
10	-12	2355	21,800	6.4
5	-15	2210	19,400	5.7
0	-18	2060	17,000	5.0
-5	-21	1915	14,600	4.3
-10	-23	1765	12,300	3.6
-15	-26	1620	9,900	2.9
-20	-29	1470	7,500	2.2

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

HP27-042 — HEATING PERFORMANCE
CH33-50C-F - CH23-68 at 1300 cfm (615 L/s)

*Outdoor Temperature		Compressor Motor Watts Input	Total Output	
°F	°C		Btuh	kW
65	18	2940	47,900	14.0
60	16	2885	45,500	13.3
55	13	2825	43,200	12.7
50	10	2770	40,800	12.0
47	8	2735	39,400	11.5
45	7	2620	37,400	11.0
40	4	2335	32,700	9.6
35	2	2045	27,900	8.2
30	-1	2140	27,100	7.9
25	-4	2235	26,300	7.7
20	-7	2335	25,600	7.5
17	-8	2390	25,100	7.4
15	-9	2365	24,100	7.1
10	-12	2310	21,700	6.4
5	-15	2165	19,400	5.7
0	-18	2020	17,000	5.0
-5	-21	1870	14,600	4.3
-10	-23	1725	12,300	3.6
-15	-26	1580	9,900	2.9
-20	-29	1435	7,500	2.2

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