



ENGINEERING DATA

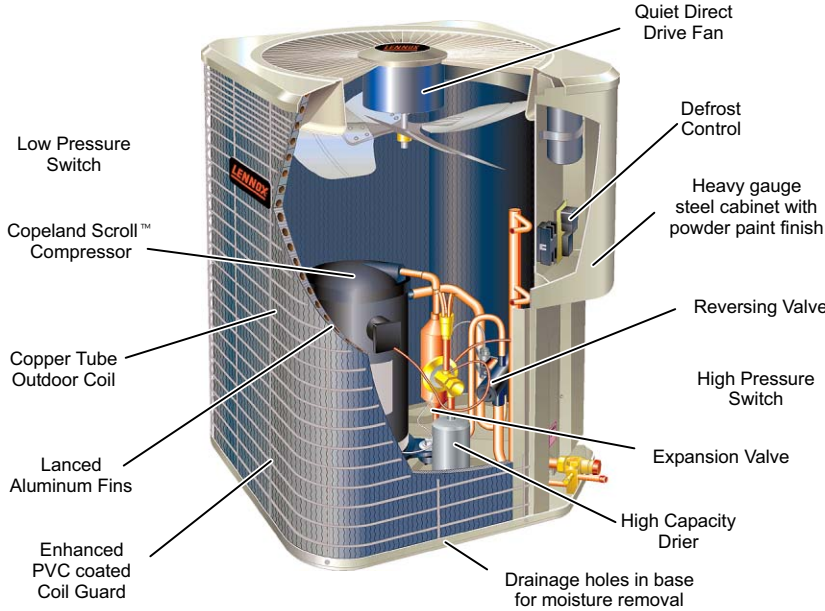
HEAT PUMP OUTDOOR UNITS

**HPXA12
ELITE® SERIES**

**1.5 to 5 Ton
SEER - up to 14.00**

**Net Cooling Capacity - 17,500 to 60,000 Btuh
Net Heating Capacity - 17,000 to 56,000 Btuh**

Bulletin No. 210353
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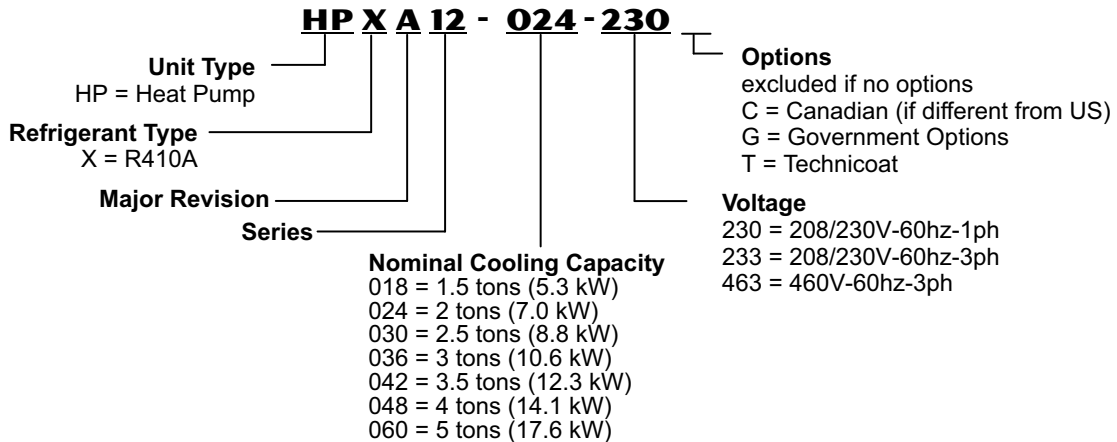


CERTIFICATION APPLIES ONLY
WHEN THE COMPLETE
SYSTEM IS LISTED
WITH ARI



REGISTERED
QUALITY
SYSTEMS

MODEL NUMBER IDENTIFICATION



FEATURES

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WARRANTY

Compressor - Ten year limited warranty in residential applications, five years in non-residential applications.
 All other covered components - Five year limited warranty in residential applications, one year in non-residential applications.
 Refer to Lennox Equipment Limited Warranty certificate included with unit for specific details.

Visit us at www.lennox.com
 For the latest technical information, www.davenet.com

NOTE - Due to Lennox' ongoing commitment to quality, Specifications, Ratings and Dimensions subject to change without notice and without incurring liability. 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

APPLICATIONS

SEER of up to 14.00.
HSPF of up to 8.3 (Region IV).
1.5 through 5 Ton (5.3 through 17.6 kW) sizes.
Single or three phase power supply.
Vertical air discharge allows concealment behind shrubs at grade level or out of sight on a roof.
Matching blower powered indoor coil units with supplemental electric heat or add-on furnace indoor coils (FM21 applications) provide a wide range of cooling and heating capacities and applications. See ARI Ratings table.
For indoor unit data, see Coils and Blower Coil Units sections.
For FM21 applications, see bulletin indexed in Controls section.
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.

APPROVALS

Certified in accordance with the USE certification program, which is based 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, NEC and CEC.
Units are UL and ULC listed.
ISO 9001 Registered Manufacturing Quality System.

CABINET

Heavy gauge steel cabinet with five station metal wash process. Powder paint finish provides rust and corrosion protection. Painted base section.
Control box is conveniently located with all controls factory wired.
Corner patch plate allows access to compressor components.
Drainage holes are provided in base section for moisture removal.
Refrigerant Line Connections, Electrical Inlets, Service Valves
Sweat connection vapor and liquid lines are located on corner of unit cabinet.
Fully serviceable brass service valves prevent corrosion and provide access to refrigerant system. Vapor valve can be fully shut off, while liquid valve may be front seated to manage refrigerant charge while servicing system.
45° elbow furnished for ease of vapor line connection.
Refrigerant line connections and field wiring inlets are located in one central area of cabinet for easy access. See dimension drawing.

REFRIGERATION SYSTEM

Refrigerant

Non-chlorine, ozone friendly, R410A.
Unit pre-charged with refrigerant. See Specification table.

Copper Tube/Enhanced Fin Coil

Lennox designed and fabricated coil.
Ripple-edged aluminum fins.
Copper tube construction.
Lanced fins provide maximum exposure of fin surface to air stream resulting in excellent heat transfer.
Fin collars grip tubing for maximum contact area.
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 coated steel wire coil guard furnished as standard.

High Pressure Switch

Shuts off unit if abnormal operating conditions cause the discharge pressure to rise above setting.
Protects compressor from excessive condensing pressure.
Automatic reset, will lock unit out after three trips.

Low Pressure Switch

Protects the compressor from low pressure conditions such as low refrigerant charge, or low/no air flow.
Automatic reset, will lock unit out after three trips.

Outdoor Coil Fan

Direct drive fan moves large air volumes uniformly through entire outdoor coil for high refrigerant cooling and heating capacity.
Vertical air discharge minimizes operating sounds and eliminates damage to lawn and shrubs.
Fan motor has sleeve bearings and is inherently protected.
Motor totally enclosed for maximum protection from weather, dust and corrosion.
Rain shield on motor provides additional protection from moisture.
Louvered steel top fan guard furnished as standard.
Fan service access accomplished by removal of unit cabinet top.

Hi-Capacity Drier

Factory installed.
Drier traps any moisture or dirt that could contaminate the refrigerant system.

Expansion Valve

Designed and sized specifically for heat pump systems.
Sensing bulb located on suction line between reversing valve and compressor to sense suction temperature in any cycle.
Factory installed and piped.

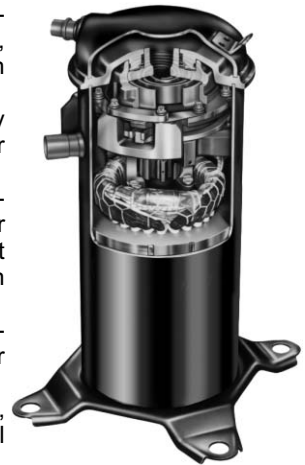
DEFROST CONTROL

Solid-state control furnished as standard.
Gives a demand defrost cycle whenever system heating performance falls below optimum levels. The sensing element on coil determines when defrost cycle is required and when to terminate cycle.
Anti-short cycle (5 minutes) incorporated into the board.
Diagnostic LED's furnished as an aid in troubleshooting.
Conveniently located in control box.

COMPRESSOR

Copeland Scroll™ Compressor

Compressor features high efficiency with uniform suction flow, constant discharge flow and high volumetric efficiency.
Scroll compressor technology eliminates need for start capacitor and start relay.
Compressor consists of two involute spiral scrolls matched together to generate a series of crescent 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 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.
Muffler in discharge line reduces operating sound levels.
Compressor is installed in the unit on resilient rubber mounts for vibration free operation.
Crankcase heater factory installed on -048-060 3-phase models.



OPTIONAL ACCESSORIES - MUST BE ORDERED EXTRA

CONTROLS

Freezestat

Installs on or near the discharge line of the evaporator or on the suction line.

Senses suction line temperature and cycles the compressor off when suction line temperature falls below it's setpoint.

Opens at 29°F (-2°C) and closes at 58°F (14°C).

Low Ambient Kit (Expansion Valve Systems Only)

Units operate satisfactorily down to 45°F (7°C) outdoor air temperature without any additional controls.

Low Ambient Control Kit can be field installed, allowing unit operation down to 30°F (-1°C).

Mild Weather Kit

Heat pump units operate satisfactorily in the heating mode at outdoor air temperatures up to 75°F (24°C).

Mild Ambient Kit can be field installed, allowing heating operation above 75°F (24°C).

Outdoor Thermostat Kit

Outdoor thermostat can be used to lock out some electric heating elements on indoor units where two stage control is applicable.

Outdoor thermostat maintains heating load on low power input as long as possible before allowing full power load to come on line.

Thermostat kit and mounting box must be ordered extra.

Monitor Kit

Field installed Monitor Kit includes ambient compensating thermistor and service light thermostat.

Thermistor reduces thermostat droop to improve the operating characteristics of the heat pump system.

Service light thermostat allows operation of the service light on the indoor thermostat.

Thermostat

Thermostat not furnished with unit. See Thermostats bulletin in the Controls Section and Lennox Price Book.

REFRIGERATION SYSTEM

Check and Expansion Valve Kits

Must be ordered extra and field installed on certain evaporator units. See ARI Ratings table.

Chatleff style fitting.

Refrigerant Line Kits

Refrigerant lines (suction & liquid) are shipped refrigeration clean.

Lines are cleaned, dried, pressurized and sealed at factory.

Suction line fully insulated.

L15 lines are stubbed at both ends.

Kits are not available for HPXA12-060 models and must be field fabricated.

CABINET

Mounting Base

High density polyethylene mounting base is lightweight, sturdy, sound absorbing and will withstand the effects of sun, heat, cold, moisture, oil and refrigerant.

Provides permanent foundation for condensing units.

22-1/4 x 22-1/4 x 3 in. (565 x 565 x 76 mm) shipping weight 6 lbs. (3 kg) each.

Hail Guards

Constructed of louvered heavy gauge steel painted to match cabinet.

Surrounds unit on all four sides to prevent damage to the coil.

Unit Stand-Off Kit

Black high density polyethylene feet are available to raise unit off of mounting surface away from damaging moisture.

Four feet are furnished per order number.

COMPRESSOR

Compressor Low Ambient Cut-Out

Non-adjustable switch (low ambient cut-out) prevents compressor operation when outdoor temperature is below 35°F (2°C).

Crankcase Heater

Crankcase heater prevents migration of liquid refrigerant into compressor and ensures proper compressor lubrication.

Crankcase heater factory installed on -048-060 3-phase models.

Compressor Sound Cover

A reinforced vinyl compressor cover containing a 1-1/2 in. (38.1 mm) thick batt of 2 to 2.7 lb. density fiberglass insulation.

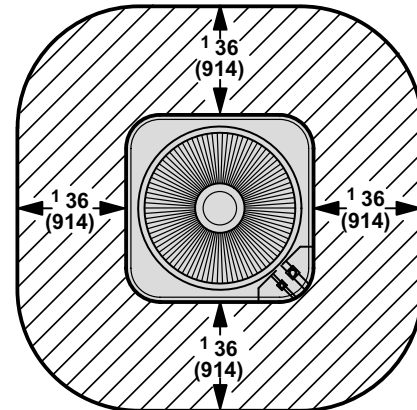
All open edges are sealed with a one-inch wide hook and loop fastening tape.

Compressor Hard Start Kit -1-Phase Only

Single-phase units are equipped with a PSC compressor motor. This type of motor normally doesn't need a potential relay and start capacitor.

In conditions such as low voltage, this kit may be required to increase the compressor starting torque.

INSTALLATION CLEARANCES - IN. (MM)



¹ One of the coil sides adjacent to control box must be 30 in. (762 mm) for service.

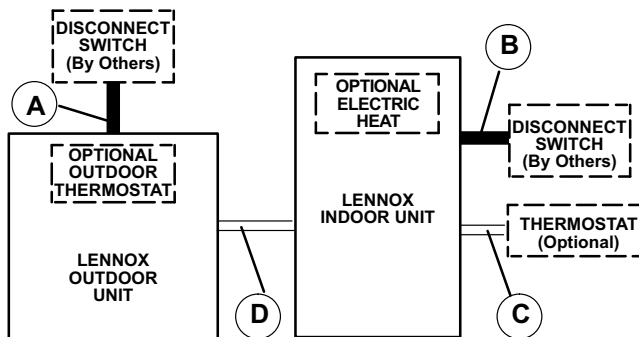
One of the remaining sides may be 12 in. (914 mm)

One of the remaining sides may be 6 inches (305 mm)

NOTE — 48 in. (1219 mm) clearance required on top of unit.

NOTE — 24 in. (610 mm) required between two units

FIELD WIRING



A — Two or Three Wire Power (see Electrical Data)

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

C — Twelve Wire Low Voltage — 18 ga. minimum

— Fourteen Wire Low Voltage with Optional Outdoor Thermostat

D — Eight Wire Low Voltage — 18 ga. minimum

— Ten Wire Low Voltage with Optional Outdoor Thermostat

— Field Wiring Not Furnished —

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

SPECIFICATIONS - 1 PHASE MODELS

General Data		Model No.	HPXA12-018	HPXA12-024	HPXA12-030	HPXA12-036	HPXA12-042	HPXA12-048	HPXA12-060
Nominal Tonnage (kW)			1.5 (5.3)	2 (7.0)	2.5 (8.8)	3 (10.6)	3.5 (12.3)	4 (14.1)	5 (17.6)
Connections (sweat)	Liquid line o.d. - in. (mm)		3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)
	Vapor line o.d. - in. (mm)		3/4 (19.1)	3/4 (19.1)	3/4 (19.1)	7/8 (22.2)	7/8 (22.2)	7/8 (22.2)	1-1/8 (28.6)
¹ Refrigerant (R410A) furnished			7 lbs. 5 oz. (3.3 kg)	6 lbs. 12 oz. (3.1 kg)	7 lbs. 12 oz. (3.5 kg)	8 lbs. 15 oz. (4.1 kg)	9 lb. 2 oz. (4.1 kg)	11 lbs. 5 oz. (5.1 kg)	11 lbs. 3 oz. (5.1 kg)
Outdoor Coil Fan	Diameter - in. (mm)		18 (457)	18 (457)	18 (457)	18 (457)	18 (457)	22 (559)	22 (559)
	Number of blades		3	3	4	4	4	4	4
	Motor hp (W)		1/6 (124)	1/6 (124)	1/6 (124)	1/6 (124)	1/3 (249)	1/3 (249)	1/3 (249)
	Cfm (L/s)		2500 (1180)	2500 (1180)	2450 (1155)	2450 (1155)	2930 (1385)	3890 (1835)	3890 (1835)
	Rpm		1100	1100	1100	1100	1100	1085	1085
	Watts		200	200	200	200	310	375	375
Outdoor Coil	Net face area sq. ft. (m ²)	Outer coil	15.21 (1.41)	15.21 (1.41)	15.21 (1.41)	15.21 (1.41)	15.21 (1.41)	21.11 (1.96)	21.11 (1.96)
		Inner coil	5.44 (0.51)	5.44 (0.51)	14.50 (1.35)	14.50 (1.35)	14.50 (1.35)	20.31 (1.89)	20.31 (1.89)
	Tube diameter - in. (mm)		5/16 (8)	5/16 (8)	5/16 (8)	5/16 (8)	5/16 (8)	5/16 (8)	5/16 (8)
	Number of rows		1.37	1.37	2	2	2	2	2
	Fins per inch (m)		18 (709)	18 (709)	18 (709)	18 (709)	22 (860)	22 (860)	22 (860)
Shipping Data	1 package - lbs. (kg)		160 (73)	162 (73)	176 (80)	180 (82)	190 (86)	225 (102)	250 (113)

ELECTRICAL DATA

		Model No.	HPXA12-018-230	HPXA12-024-230	HPXA12-030-230	HPXA12-036-230	HPXA12-042-230	HPXA12-048-230	HPXA12-060-230
Line voltage data - 60 hz - 1 ph			208/230V	208/230V	208/230V	208/230V	208/230V	208/230V	208/230V
² Maximum overcurrent protection (amps)			20	30	35	35	45	50	60
³ Minimum circuit ampacity			14.0	18.0	20.0	20.4	25.9	30.8	36.4
Compressor	Rated load amps		10.3	13.5	15.1	15.4	19.2	23.1	27.6
	Power factor		0.98	0.98	0.98	0.98	0.99	0.99	0.99
	Locked rotor amps		51	61	72.5	83	104	134	158
Outdoor Coil Fan Motor	Full load amps		1.1	1.1	1.1	1.1	1.9	1.9	1.9
	Locked rotor amps		1.9	1.9	1.9	1.9	4.1	4.1	4.1

OPTIONAL ACCESSORIES - MUST BE ORDERED EXTRA

Compressor Crankcase Heater		18K20	18K20	18K20	18K20	18K20	18K20	18K20
Compressor Low Ambient Cut-Off		45F08	45F08	45F08	45F08	45F08	45F08	45F08
Compressor Hard Start Kit		10J42	10J42	10J42	10J42	10J42	10J42	10J42
Compressor Sound Cover		69J03	69J03	69J03	69J03	69J03	69J03	69J03
Freezestat	3/8 in. tubing	93G35	93G35	93G35	93G35	93G35	93G35	93G35
	1/2 in. tubing	39H29	39H29	39H29	39H29	39H29	39H29	39H29
	5/8 in. tubing	50A93	50A93	50A93	50A93	50A93	50A93	50A93
Hail Guards		17L73	17L73	17L73	17L73	17L73	17L74	17L74
Low Ambient Kit		54M89	54M89	54M89	54M89	54M89	54M89	54M89
Mild Weather Kit		33M07	33M07	33M07	33M07	33M07	33M07	33M07
Monitor Kit - Service Light		76F53	76F53	76F53	76F53	76F53	76F53	76F53
Outdoor Thermostat Kit	Thermostat	56A87	56A87	56A87	56A87	56A87	56A87	56A87
	Mounting Box - US	31461	31461	31461	31461	31461	31461	31461
		Canada	33A09	33A09	33A09	33A09	33A09	33A09
Mounting Base	Model No.	MB2-S	MB2-S	MB2-S	MB2-S	MB2-S	MB2-L	MB2-L
	Catalog No.	69J06	69J06	69J06	69J06	69J06	69J07	69J07
	Net Weight	6 lbs. (3 kg)	6 lbs. (3 kg)	6 lbs. (3 kg)	6 lbs. (3 kg)	6 lbs. (3 kg)	15 lbs. (7 kg)	15 lbs. (7 kg)
Refrigerant Line Set	15 ft. (4.6 m) length	L15-41-15	L15-41-15	L15-41-15	L15-65-15	L15-65-15	L15-65-15	Field Fabricate
	20 ft. (6 m) length	L15-41-20	L15-41-20	L15-41-20	---	---	---	---
	30 ft. (9 m) length	L15-41-30	L15-41-30	L15-41-30	L15-65-30	L15-65-30	L15-65-30	Field Fabricate
	40 ft. (12 m) length	L15-41-40	L15-41-40	L15-41-40	L15-65-40	L15-65-40	L15-65-40	Field Fabricate
	50 ft. (15 m) length	L15-41-50	L15-41-50	L15-41-50	L15-65-50	L15-65-50	L15-65-50	Field Fabricate
Unit Stand-Off Kit		94J45	94J45	94J45	94J45	94J45	94J45	94J45

NOTE - Extremes of operating range are plus 10% and minus 5% of line voltage.

¹ Refrigerant charge is sufficient for 15 ft. (4.6 m) length line set.

² HACR type circuit breaker or fuse.

³ Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

SPECIFICATIONS - 3 PHASE MODELS

General Data		Model No.	HPXA12-036	HPXA12-048	HPXA12-060
		Nominal Tonnage (kW)	3 (10.6)	4 (14.1)	5 (17.6)
Connections (sweat)	Liquid line o.d. - in. (mm)		3/8 (9.5)	3/8 (9.5)	3/8 (9.5)
	Vapor line o.d. - in. (mm)		7/8 (22.2)	7/8 (22.2)	1-1/8 (28.6)
¹ Refrigerant (R410A) furnished			8 lbs. 15 oz. (4.1 kg)	11 lbs. 5 oz. (5.1 kg)	11 lbs. 3 oz. (5.1 kg)
Outdoor Coil Fan	Diameter - in. (mm) & no. of blades		18 (457) - 4	22 (559) - 4	22 (559) - 4
	Motor hp (W)		1/6 (124)	1/3 (249)	1/3 (249)
	Cfm (L/s)		2450 (1155)	3890 (1835)	3890 (1835)
	Rpm		1100	1085	1085
	Watts		200	375	375
Outdoor Coil	Net face area sq. ft. (m ²)	Outer coil	15.21 (1.41)	21.11 (1.96)	21.11 (1.96)
		Inner coil	14.50 (1.35)	20.31 (1.89)	20.31 (1.89)
	Tube diameter - in. (mm) & no. of rows		5/16 (8) - 2	5/16 (8) - 2	5/16 (8) - 2
	Fins per inch (m)		18 (709)	22 (860)	22 (860)
Shipping Data		1 package - lbs. (kg)	180 (82)	225 (102)	250 (113)

ELECTRICAL DATA

		Model No.	HPXA12-036	HPXA12-036	HPXA12-048	HPXA12-048	HPXA12-060	HPXA12-060
			-233	-463	-233	-463	-233	-463
Line voltage data - 60 hz - 3 phase			208/230V	460V	208/230V	460V	208/230V	460V
² Maximum overcurrent protection (amps)			25	10	35	15	40	20
³ Minimum circuit ampacity			15.4	6.9	21.9	9.8	24.5	12.2
Compressor	Rated load amps		11.5	5.1	16	7.1	18.1	9
	Locked Rotor amps		77	35	91	46	137	62
	Power Factor		0.98	0.98	0.99	0.99	0.99	0.99
Outdoor Coil Fan Motor	Full load amps		1	0.55	1.9	0.9	1.9	0.9
	Locked Rotor Amps		2.3	1	4.1	2.1	4.1	2.1

OPTIONAL ACCESSORIES - MUST BE ORDERED EXTRA

Compressor Crankcase Heater		67K90	67K89	Factory Installed	Factory Installed
Compressor Low Ambient Cut-Off		45F08		45F08	45F08
Compressor Sound Cover		69J03		69J03	69J03
Freezestat	3/8 in. tubing	93G35		93G35	93G35
	1/2 in. tubing	39H29		39H29	39H29
	5/8 in. tubing	50A93		50A93	50A93
Hail Guards		17L73		17L74	17L74
Low Ambient Kit		54M89		54M89	54M89
Mild Weather Kit		33M07		33M07	33M07
Monitor Kit - Service Light		76F53		76F53	76F53
Outdoor Thermostat Kit	Thermostat	56A87		56A87	56A87
	Mounting Box - US	31461		31461	31461
		Canada	33A09		33A09
Mounting Base	Model (Catalog) No.	MB2-S (69J06)		MB2-L (69J07)	MB2-L (69J07)
	Net Weight	6 lbs. (3 kg)		15 lbs. (7 kg)	15 lbs. (7 kg)
Refrigerant Line Set	15 ft. (4.6 m) length	L15-65-15		L15-65-15	Field Fabricate
	30 ft. (9 m) length	L15-65-30		L15-65-30	Field Fabricate
	40 ft. (12 m) length	L15-65-40		L15-65-40	Field Fabricate
	50 ft. (15 m) length	L15-65-50		L15-65-50	Field Fabricate
Unit Stand-Off Kit		94J45		94J45	94J45

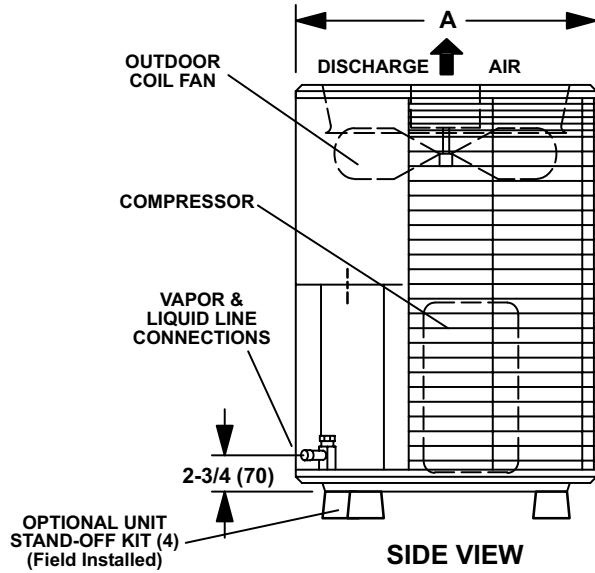
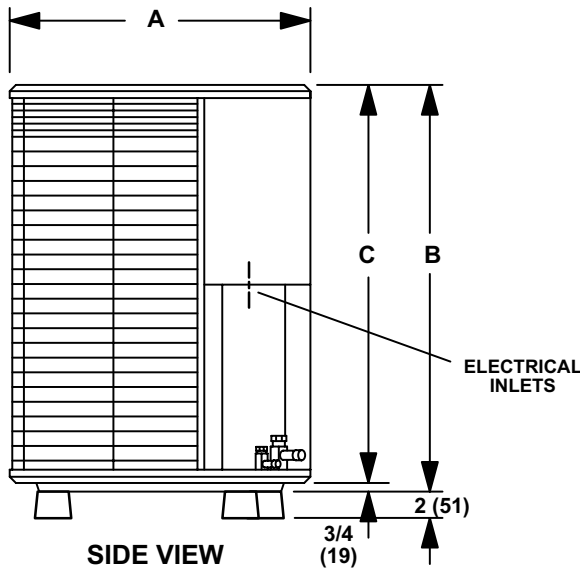
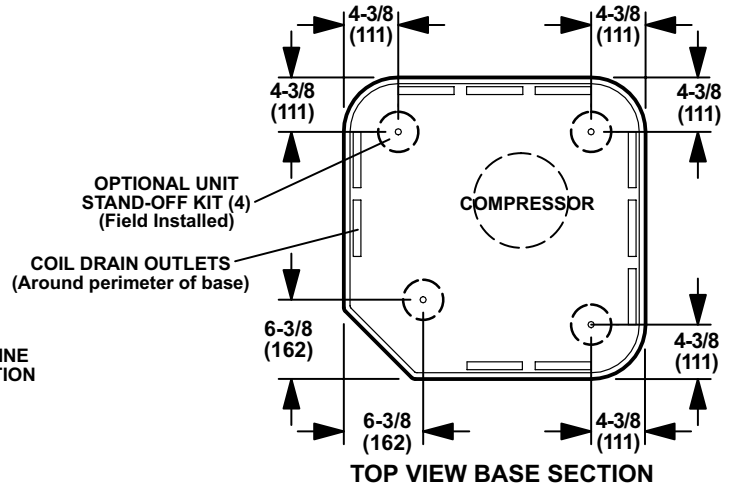
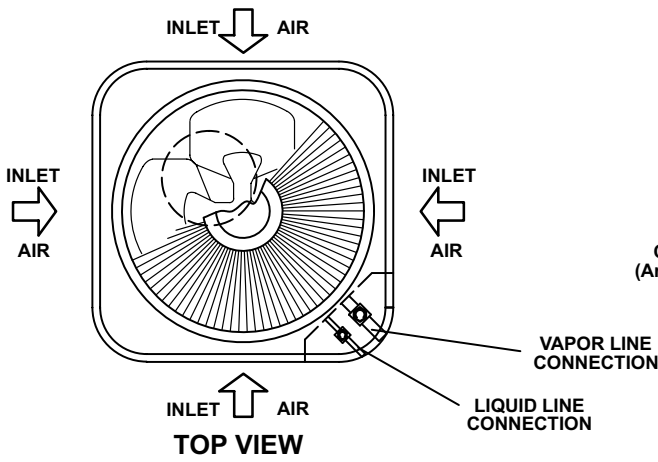
NOTE - Extremes of operating range are plus 10% and minus 5% of line voltage.

¹ Refrigerant charge is sufficient for 15 ft. (4.6 m) length line set.

² HACR type circuit breaker or fuse.

³ Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

DIMENSIONS - INCHES (MM)



Model No.		A	B	C
HPXA12-018				
HPXA12-024	in.	24-1/4	33-1/4	32-1/2
HPXA12-030				
HPXA12-036	mm	616	819	826
HPXA12-042				
HPXA12-048	in.	28-1/4	37	36-1/4
HPXA12-060	mm	718	940	921

ARI RATINGS

1.5, 2, AND 2.5 TON

Outdoor Unit Model No. Unit Size ¹ Sound Rating Number		² ARI Standard 210/240 Ratings														Indoor Unit Model No.	Check and Expansion Valve Kit Required				
		Cooling Capacity		High Temp. Heating Capacity		Low Temp. Heating Capacity		Efficiency				Total Cool. Watts	Total High Htg. Watts	Total Low Htg. Watts	High Htg. COP			Low Htg. COP			
		Btuh	kW	Btuh	kW	Btuh	kW	SEER	EER	HSPF											
									IV	V											
HPXA12-018 1.5 Ton (72 dB)	Blower Coil Units	17,500	5.1	17,200	5.0	10,500	3.1	11.30	10.15	6.80	5.90	1720	1635	1550	3.08	1.98	CB29M-31 (Multi)	³ 49L24			
		17,500	5.1	17,200	5.0	10,500	3.1	11.30	10.15	6.80	5.90	1720	1635	1550	3.08	1.98	CB28UH-030 (Up-Flow/Horiz.)	³ 49L24			
		18,500	5.4	17,100	5.0	10,400	3.0	12.60	11.00	7.00	6.00	1680	1545	1505	3.24	2.02	⁴ CB30M-21/26 (Multi)	³ 49L24			
		18,500	5.4	17,100	5.0	10,400	3.0	12.60	11.00	7.00	6.00	1680	1545	1505	3.24	2.02	CB30U-21/26 (Up-Flow)	³ 49L24			
		18,500	5.4	17,100	5.0	10,400	3.0	12.60	11.00	7.00	6.00	1680	1545	1505	3.24	2.02	CBX32M-018/024 (Multi)	Factory Installed			
		Up-Flow Coils	17,500	5.1	17,100	5.0	10,400	3.0	11.50	10.25	6.80	5.95	1705	1580	1505	3.18	2.02	⁵ CVP10-26/EC10(Up-Flow)	³ 49L24		
	18,000		5.3	17,000	5.0	10,400	3.0	11.50	10.55	6.80	5.90	1710	1615	1540	3.08	1.98	C33-30A/B/C	49L24			
	18,000		5.3	17,000	5.0	10,400	3.0	11.50	10.55	6.80	5.90	1710	1615	1540	3.08	1.98	CX34-30A/B/C-6F	Factory Installed			
			HPXA12-024 2 Ton (72 dB)	Blower Coil Units	26,000	7.6	23,000	6.7	14,800	4.3	12.80	11.35	7.20	6.40	23.60	2140	1940	3.14	2.24	CBX32MV-024/030 (Multi)	Factory Installed
	26,400				7.7	23,200	6.8	15,000	4.4	12.00	10.80	7.25	6.40	2440	2275	2070	2.98	2.12	⁴ CB30M-21/26 (Multi)	³ 49L24	
26,400	7.7	23,200			6.8	15,000	4.4	12.00	10.80	7.25	6.40	2440	2275	2070	2.98	2.12	CB30U-21/26 (Up-Flow)	³ 49L24			
26,400	7.7	23,200			6.8	15,000	4.4	12.00	10.80	7.25	6.40	2440	2275	2070	2.98	2.12	CBX32M-018/024 (Multi)	Factory Installed			
26,500	7.8	23,800			7.0	15,500	4.5	11.40	10.30	6.80	6.10	2575	2375	2205	2.94	2.06	CB29M-31 (Multi)	³ 49L24			
	Up-Flow Coils	26,500		7.8	23,800	7.0	15,500	4.5	11.40	10.30	6.80	6.10	2575	2375	2205	2.94	2.06	CB28UH-030 (Up-Flow/Horiz.)	³ 49L24		
26,600		7.8		23,200	6.8	15,000	4.4	12.20	10.90	7.20	6.40	2445	2215	2030	3.06	2.16	CB30M-31 (Multi)	³ 49L24			
26,600		7.8		23,200	6.8	15,000	4.4	12.20	10.90	7.20	6.40	2445	2215	2030	3.06	2.16	CB30U-31 (Up-Flow)	³ 49L24			
26,600		7.8		23,200	6.8	15,000	4.4	12.20	10.90	7.20	6.40	2445	2215	2030	3.06	2.16	CBX32M-030 (Multi)	Factory Installed			
26,600		7.8		24,200	7.1	15,700	4.6	11.40	10.25	7.00	6.20	2590	2300	2150	3.08	2.14	CB29M-41 (Multi)	³ 49L24			
	HPXA12-030 2.5 Ton (72 dB)	Blower Coil Units	26,600	7.8	24,200	7.1	15,700	4.6	11.40	10.25	7.00	6.20	2590	2300	2150	3.08	2.14	CB28UH-036 (Up-Flow/Horiz.)	³ 49L24		
25,400			7.4	23,400	6.9	15,600	4.6	11.50	10.30	7.00	6.30	2470	2400	2195	2.86	2.08	⁵ CVP10-26/EC10(Up-Flow)	³ 49L24			
25,600			7.5	23,000	6.7	15,200	4.5	11.60	10.35	6.80	6.05	2475	2430	2200	2.78	2.02	C33-30A/B/C	49L24			
25,600			7.5	23,000	6.7	15,200	4.5	11.60	10.35	6.80	6.05	2475	2430	2200	2.78	2.02	CX34-30A/B/C-6F	Factory Installed			
25,800			7.6	23,200	6.8	15,200	4.5	11.60	10.40	6.85	6.20	2475	2350	2140	2.90	2.08	C33-36A/B/C	49L24			
	HPXA12-030 2.5 Ton (72 dB)	Blower Coil Units	25,800	7.6	23,200	6.8	15,200	4.5	11.60	10.40	6.85	6.20	2475	2350	2140	2.90	2.08	CX34-36A/B/C-6F	Factory Installed		
28,400			8.3	29,800	8.7	18,900	5.5	12.00	10.25	7.25	6.30	2770	2785	2680	3.14	2.06	⁴ CB29M-41 (Multi)	³ 49L24			
28,400			8.3	29,800	8.7	18,900	5.5	12.00	10.25	7.25	6.30	2770	2785	2680	3.14	2.06	CB28UH-036 (Up-Flow/Horiz.)	³ 49L24			
29,800			8.7	28,200	8.3	17,800	5.2	13.70	11.60	7.80	6.80	2570	2435	2310	3.40	2.26	CBX32MV-024/030 (Multi)	Factory Installed			
29,800			8.7	28,200	8.3	17,800	5.2	13.15	11.35	7.80	6.80	2630	2435	2310	3.40	2.26	CB30M-31 (Multi)	³ 49L24			
29,800			8.7	28,200	8.3	17,800	5.2	13.15	11.35	7.80	6.80	2630	2435	2310	3.40	2.26	CB30U-31 (Up-Flow)	³ 49L24			
29,800			8.7	28,200	8.3	17,800	5.2	13.15	11.35	7.80	6.80	2630	2435	2310	3.40	2.26	CBX32M-030 (Multi)	Factory Installed			
30,000			8.8	28,600	8.4	17,900	5.2	13.10	11.25	8.00	6.90	2670	2400	2290	3.50	2.28	CB30M-41 (Multi)	³ 49L24			
30,000			8.8	28,600	8.4	17,900	5.2	13.10	11.25	8.00	6.90	2670	2400	2290	3.50	2.28	CB30U-41/46 (Up-Flow)	³ 49L24			
30,000			8.8	28,600	8.4	17,900	5.2	13.10	11.25	8.00	6.90	2670	2400	2290	3.50	2.28	CBX32M-036 (Multi)	Factory Installed			
	HPXA12-030 2.5 Ton (72 dB)	Blower Coil Units	30,000	8.8	28,800	8.4	18,000	5.3	12.90	11.10	7.90	6.85	2705	2435	2325	3.46	2.26	CB30M-46 (Multi)	³ 49L24		
30,000			8.8	28,800	8.4	18,000	5.3	12.90	11.10	7.90	6.85	2705	2435	2325	3.46	2.26	CBX32M-042 (Multi)	³ 49L24			
30,000			8.8	28,800	8.4	18,000	5.3	12.90	11.10	7.90	6.85	2705	2435	2325	3.46	2.26	CB31MV-41 (Multi)	³ 49L24			
30,600			9.0	28,200	8.3	17,400	5.1	14.00	11.90	8.20	7.00	2570	2290	2170	3.60	2.34	CBX32MV-036 (Multi)	Factory Installed			
30,600			9.0	28,200	8.3	17,400	5.1	14.00	11.90	8.20	7.00	2570	2290	2170	3.60	2.34	⁵ CVP10-46/EC10(Up-Flow)	³ 49L24			
28,800			8.4	28,600	8.4	18,000	5.3	12.20	10.10	7.50	6.50	2850	2585	2370	3.24	2.22	⁵ CVP10-31/EC10(Up-Flow)	³ 49L24			
29,000			8.5	28,800	8.4	18,200	5.3	12.00	10.55	7.50	6.50	2745	2545	2415	3.32	2.20	⁵ CVP10-41/EC10(Up-Flow)	³ 49L24			
29,000			8.5	28,600	8.4	18,000	5.3	12.30	10.55	7.60	6.55	2750	2485	2370	3.38	2.22	⁵ CVP10-41/EC10(Up-Flow)	³ 49L24			
			Up-Flow Coils	29,200	8.6	29,200	8.6	18,300	5.4	12.30	10.65	7.00	6.10	2745	2760	2705	3.10	1.98	C33-36A/B/C	49L24	
29,200				8.6	29,200	8.6	18,300	5.4	12.30	10.65	7.00	6.10	2745	2760	2705	3.10	1.98	CX34-36A/B/C-6F	Factory Installed		
29,200	8.6	29,200		8.6	18,300	5.4	12.30	10.65	7.00	6.10	2745	2760	2705	3.10	1.98	C33-42B	49L24				
29,200	8.6	29,200		8.6	18,300	5.4	12.30	10.65	7.00	6.10	2745	2760	2705	3.10	1.98	CX34-42B-6F	Factory Installed				
30,000	8.8	28,600		8.4	18,000	5.3	12.50	10.90	7.30	6.40	2755	2600	2485	3.22	2.12	C33-38A/B	49L24				
30,000	8.8	28,600		8.4	18,000	5.3	12.50	10.90	7.30	6.40	2755	2600	2485	3.22	2.12	CX34-38A/B-6F	Factory Installed				
30,000	8.8	28,600		8.4	18,000	5.3	12.50	10.90	7.30	6.40	2755	2600	2485	3.22	2.12	C33-44C	49L24				

NOTE — These are the only approved system match-ups. For other matches, contact the Lennox Applications Department.

NOTE - Ratings for all C33 coils include all cased and uncased coils.

NOTE - Use FM21 Control with any listed coil and furnace that meets system design requirements. See FM21 page in Controls section for additional data.

¹ Sound Rating Number in accordance with test conditions included in ARI Standard 270.

² Certified in accordance with USE certification program which is based on ARI Standard 210/240 with 25 ft. (7.6 m) of connecting refrigerant lines;

Cooling Ratings - 95°F (35°C) outdoor air temperature and 80°F (27°C) db/67°F (19°C) wb entering indoor coil air.

High Temperature Heating Ratings - 47°F (8°C) db/43°F (6°C) wb outdoor air temperature and 70°F (21°C) db entering indoor coil air.

Low Temperature Heating Ratings - 17°F (-8.3°C) db/15°F (-9.4°C) wb outdoor air temperature and 70°F (21°C) db entering indoor coil air.

³ Factory installed check/expansion valves on indoor units **MUST** be replaced with separately ordered check/expansion valve kit shown.

⁴ Most popular blower coil combination.

⁵ Canada Only

ARI RATINGS

3 AND 3.5 TON

² ARI Standard 210/240 Ratings

Outdoor Unit Model No. Unit Size 1 Sound Rating Number	² ARI Standard 210/240 Ratings														Indoor Unit Model No.	Check and Expansion Valve Kit Required				
	Cooling Capacity		High Temp. Heating Capacity		Low Temp. Heating Capacity		Efficiency				Total Cool. Watts	Total High Htg. Watts	Total Low Htg. Watts	High Htg. COP			Low Htg. COP			
	Btuh	kW	Btuh	kW	Btuh	kW	SEER	EER	HSPF											
								IV	V											
HPXA12-036 3Ton (74 dB)	Blower Coil Units	34,600	10.1	35,000	10.3	21,700	6.4	12.00	9.90	7.80	6.80	3490	3000	2755	3.42	2.30	⁴ CB29M-46 (Multi)	³ 49L24		
		34,600	10.1	35,000	10.3	21,700	6.4	12.00	9.90	7.80	6.80	3490	3000	2755	3.42	2.30	CB28UH-042 (Up-Flow/Horiz)	³ 49L24		
		34,800	10.2	34,000	10.0	21,000	6.2	13.15	10.65	8.00	7.00	3270	2800	2540	3.56	2.42	CBX32MV-024/030 (Multi)	³ 49L24		
		34,800	10.2	34,000	10.0	21,300	6.2	12.60	10.35	8.00	7.00	3355	2880	2630	3.46	2.38	CB30M-31 (Multi)	³ 49L24		
		34,800	10.2	34,000	10.0	21,300	6.2	12.60	10.35	8.00	7.00	3355	2880	2630	3.46	2.38	CB30U-31 (Up-Flow)	³ 49L24		
		34,800	10.2	34,000	10.0	21,300	6.2	12.60	10.35	8.00	7.00	3355	2880	2630	3.46	2.38	CBX32M-030 (Multi)	Factory Installed		
		35,000	10.3	34,600	10.1	21,400	6.3	12.50	10.30	8.10	7.00	3390	2860	2635	3.54	2.38	CB30M-41 (Multi)	³ 49L24		
		35,000	10.3	34,600	10.1	21,400	6.3	12.50	10.30	8.10	7.00	3390	2860	2635	3.54	2.38	CB30U-41/46 (Up-Flow)	³ 49L24		
		35,000	10.3	34,600	10.1	21,400	6.3	12.50	10.30	8.10	7.00	3390	2860	2635	3.54	2.38	CBX32M-036 (Multi)	Factory Installed		
		35,200	10.3	34,400	10.1	21,500	6.3	12.60	10.40	8.15	7.05	3380	2850	2625	3.54	2.40	CB30M-46 (Multi)	³ 49L24		
		35,200	10.3	34,400	10.1	21,500	6.3	12.60	10.40	8.15	7.05	3380	2850	2625	3.54	2.40	CBX32M-042 (Multi)	Factory Installed		
		35,400	10.4	34,000	10.0	21,100	6.2	13.15	10.80	8.30	7.20	3280	2750	2525	3.62	2.44	CB31MV-41 (Multi)	³ 49L24		
		35,400	10.4	34,000	10.0	21,100	6.2	13.15	10.80	8.30	7.20	3280	2750	2525	3.62	2.44	CBX32MV-036 (Multi)	Factory Installed		
		36,000	10.6	34,800	10.2	21,800	6.4	11.80	10.15	7.60	6.70	3555	3095	2855	3.30	2.24	CB29M-51 (Multi)	³ 49L24		
		36,000	10.6	34,800	10.2	21,800	6.4	11.80	10.15	7.60	6.70	3555	3095	2855	3.30	2.24	CB28UH-048 (Up-Flow/Horiz)	³ 49L24		
		33,800	9.9	34,400	10.1	21,500	6.3	11.80	9.85	7.70	6.70	3440	2990	2735	3.38	2.30	⁵ CVP10-31/EC10(Up-Flow)	³ 49L24		
		34,200	10.0	34,600	10.1	21,600	6.3	11.80	9.90	7.60	6.55	3450	2935	2710	3.46	2.34	⁵ CVP10-46/EC10(Up-Flow)	³ 49L24		
		34,600	10.1	34,400	10.1	21,600	6.3	12.00	10.05	7.80	6.75	3450	2935	2710	3.44	2.34	⁵ CVP10-41/EC10(Up-Flow)	³ 49L24		
		HPXA12-042 3.5Ton (80 dB)	Blower Coil Units	40,500	11.9	40,000	11.7	26,200	7.7	11.70	9.85	7.40	6.65	4105	3670	3420	3.20	2.24	CB29M-46 (Multi)	³ 49L25
				40,500	11.9	40,000	11.7	26,200	7.7	11.70	9.85	7.40	6.65	4105	3670	3420	3.20	2.24	CB28UH-042 (Up-Flow/Horiz)	³ 49L25
41,000	12.0			39,500	11.6	25,800	7.6	12.20	10.25	7.60	6.80	4000	3505	3275	3.30	2.30	⁴ CB30M-46 (Multi)	³ 49L25		
41,000	12.0			39,500	11.6	25,800	7.6	12.20	10.25	7.60	6.80	4000	3505	3275	3.30	2.30	CB30U-41/46 (Up-Flow)	³ 49L25		
41,000	12.0			39,500	11.6	25,800	7.6	12.20	10.25	7.60	6.80	4000	3505	3275	3.30	2.30	CBX32M-042 (Multi)	Factory Installed		
41,000	12.0			40,000	11.7	26,400	7.7	11.50	9.75	7.20	6.50	4200	3745	3550	3.14	2.18	CB29M-51 (Multi)	³ 49L25		
41,000	12.0			40,000	11.7	26,400	7.7	11.50	9.75	7.20	6.50	4200	3745	3550	3.14	2.18	CB28UH-048 (Up-Flow/Horiz)	³ 49L25		
HPXA12-042 3.5Ton (80 dB)	Up-Flow Coils	40,000	11.7	40,000	11.7	26,400	7.7	11.50	9.75	7.10	6.45	4100	3865	3585	3.04	2.16	C33-36A/B/C	49L25		
		40,000	11.7	40,000	11.7	26,400	7.7	11.50	9.75	7.10	6.45	4100	3865	3585	3.04	2.16	CX34-36A/B/C-6F	Factory Installed		
		40,000	11.7	40,000	11.7	26,400	7.7	11.50	9.75	7.10	6.45	4100	3865	3585	3.04	2.16	C33-42B	49L25		
		40,000	11.7	40,000	11.7	26,400	7.7	11.50	9.75	7.10	6.45	4100	3865	3585	3.04	2.16	CX34-42B-6F	Factory Installed		
		41,500	12.2	39,500	11.6	26,000	7.6	11.90	10.10	7.20	6.50	4100	3755	3500	3.08	2.18	C33-38A/B	49L25		
		41,500	12.2	39,500	11.6	26,000	7.6	11.90	10.10	7.20	6.50	4100	3755	3500	3.08	2.18	CX34-38A/B-6F	Factory Installed		
		41,500	12.2	39,500	11.6	26,000	7.6	11.90	10.10	7.20	6.50	4100	3755	3500	3.08	2.18	C33-44C	49L25		
		41,500	12.2	39,500	11.6	26,000	7.6	11.90	10.10	7.20	6.50	4100	3755	3500	3.08	2.18				
		41,500	12.2	39,500	11.6	26,000	7.6	11.90	10.10	7.20	6.50	4100	3755	3500	3.08	2.18				
		41,500	12.2	39,500	11.6	26,000	7.6	11.90	10.10	7.20	6.50	4100	3755	3500	3.08	2.18				
		41,500	12.2	39,500	11.6	26,000	7.6	11.90	10.10	7.20	6.50	4100	3755	3500	3.08	2.18				
		41,500	12.2	39,500	11.6	26,000	7.6	11.90	10.10	7.20	6.50	4100	3755	3500	3.08	2.18				
		41,500	12.2	39,500	11.6	26,000	7.6	11.90	10.10	7.20	6.50	4100	3755	3500	3.08	2.18				

NOTE — These are the only approved system match-ups. For other matches, contact the Lennox Applications Department.

NOTE - Ratings for all C33 coils include all cased and uncased coils.

NOTE - Use FM21 Control with any listed coil and furnace that meets system design requirements. See FM21 page in Controls section for additional data.

¹ Sound Rating Number in accordance with test conditions included in ARI Standard 270.

² Certified in accordance with USE certification program which is based on ARI Standard 210/240 with 25 ft. (7.6 m) of connecting refrigerant lines;

Cooling Ratings - 95°F (35°C) outdoor air temperature and 80°F (27°C) db/67°F (19°C) wb entering indoor coil air.

High Temperature Heating Ratings - 47°F (8°C) db/43°F (6°C) wb outdoor air temperature and 70°F (21°C) db entering indoor coil air.

Low Temperature Heating Ratings - 17°F (-8.3°C) db/15°F (-9.4°C) wb outdoor air temperature and 70°F (21°C) db entering indoor coil air.

³ **Factory installed check/expansion valves on indoor units MUST be replaced with separately ordered check/expansion valve kit shown.**

⁴ Most popular blower coil combination.

⁵ Canada Only

ARI RATINGS

4 AND 5 TON

Outdoor Unit Model No. Unit Size 1 Sound Rating Number		2 ARI Standard 210/240 Ratings														Indoor Unit Model No.	Check and Expansion Valve Kit Required	
		Cooling Capacity		High Temp. Heating Capacity		Low Temp. Heating Capacity		Efficiency				Total Cool. Watts	Total High Htg. Watts	Total Low Htg. Watts	High Htg. COP			Low Htg. COP
		Btuh	kW	Btuh	kW	Btuh	kW	SEER	EER	HSPF								
									IV	V								
HPXA12-048 4Ton (80 dB)	Blower Coil Units	46,500	13.6	48,000	14.1	32,200	9.4	12.50	10.60	7.80	7.00	4380	4380	4000	3.22	2.36	CB30M-46 (Multi)	3 49L25
		46,500	13.6	48,000	14.1	32,200	9.4	12.50	10.60	7.80	7.00	4380	4380	4000	3.22	2.36	CB30U-41/46 (Up-Flow)	3 49L25
		46,500	13.6	48,000	14.1	32,200	9.4	12.50	10.60	7.80	7.00	4380	4380	4000	3.22	2.36	CBX32M-042 (Multi)	Factory Installed
		47,500	13.9	49,000	14.4	32,800	9.6	12.00	10.25	7.50	6.70	4645	4670	4300	3.08	2.24	4 CB29M-51 (Multi)	3 49L25
		47,500	13.9	49,000	14.4	32,800	9.6	12.00	10.25	7.50	6.70	4645	4670	4300	3.08	2.24	CB28UH-048 (Up-Flow/Horiz)	3 49L25
		47,500	13.9	49,500	14.5	33,000	9.7	11.80	10.15	7.50	6.80	4685	4710	4340	3.08	2.22	CB29M-65 (Multi)	3 49L25
		47,500	13.9	49,500	14.5	33,000	9.7	11.80	10.15	7.50	6.80	4685	4710	4340	3.08	2.22	CB28UH-060 (Up-Flow/Horiz)	3 49L25
		49,500	14.5	48,000	14.1	31,800	9.3	13.00	11.15	8.00	7.15	4430	4065	3780	3.46	2.46	CB30M-51 (Multi)	3 49L25
		49,500	14.5	48,000	14.1	31,800	9.3	13.00	11.15	8.00	7.15	4430	4065	3780	3.46	2.46	CB30U-51 (Up-Flow)	3 49L25
		49,500	14.5	48,000	14.1	31,800	9.3	13.00	11.15	8.00	7.15	4430	4065	3780	3.46	2.46	CBX32M-048 (Multi)	Factory Installed
		49,500	14.5	48,000	14.1	31,600	9.3	13.00	11.15	8.00	7.15	4440	4115	3825	3.42	2.42	CB30M-65 (Multi)	3 49L25
		49,500	14.5	48,000	14.1	31,600	9.3	13.00	11.15	8.00	7.15	4440	4115	3825	3.42	2.42	CB30U-65 (Up-Flow)	3 49L25
		49,500	14.5	48,000	14.1	31,600	9.3	13.00	11.15	8.00	7.15	4440	4115	3825	3.42	2.42	CBX32M-060 (Multi)	Factory Installed
		50,000	14.7	47,500	13.9	31,400	9.2	13.50	11.55	8.20	7.25	4335	3975	3680	3.50	2.50	CB31MV-51 (Multi)	3 49L25
		50,000	14.7	47,500	13.9	31,400	9.2	13.50	11.55	8.20	7.25	4335	3975	3680	3.50	2.50	CBX32MV-048 (Multi)	Factory Installed
	50,000	14.7	47,500	13.9	31,200	9.1	13.50	11.55	8.20	7.25	4330	4005	3720	3.48	2.46	CB31MV-65 (Multi)	3 49L25	
	50,000	14.7	47,500	13.9	31,200	9.1	13.50	11.55	8.20	7.25	4330	4005	3720	3.48	2.46	CBX32MV-060 (Multi)	Factory Installed	
	47,000	13.8	48,000	14.1	32,200	9.4	11.70	10.20	7.50	6.80	4615	4370	4045	3.22	2.34	5 CVP10-46/EC10(Up-Flow)	3 49L25	
	47,500	13.9	48,500	14.2	32,400	9.5	11.90	10.30	7.75	6.95	4620	4300	4005	3.30	2.36	5 CVP10-51/EC10(Up-Flow)	3 49L25	
	Up-Flow Coils	48,000	14.1	48,500	14.2	32,200	9.4	12.30	10.60	7.25	6.55	4520	4720	4340	3.02	2.18	C33-44C	49L25
		48,000	14.1	48,500	14.2	32,200	9.4	12.30	10.60	7.25	6.55	4525	4845	4425	2.94	2.14	C33-48B/C	49L25
		48,000	14.1	48,500	14.2	32,200	9.4	12.30	10.60	7.25	6.55	4525	4845	4425	2.94	2.14	CX34-44/48B/C-6F	Factory Installed
		49,000	14.4	48,000	14.1	32,000	9.4	12.60	10.80	7.40	6.60	4530	4600	4230	3.06	2.22	C33-50/60C	49L25
		49,000	14.4	48,000	14.1	32,000	9.4	12.60	10.80	7.40	6.60	4530	4600	4230	3.06	2.22	CX34-50/60C-6F	Factory Installed
		49,000	14.4	48,000	14.1	32,000	9.4	12.60	10.85	7.60	6.80	4525	4430	4100	3.18	2.28	C33-60D	49L25
		49,000	14.4	48,000	14.1	32,000	9.4	12.60	10.85	7.60	6.80	4525	4430	4100	3.18	2.28	CX34-60D-6F	Factory Installed
	HPXA12-060 5Ton (80 dB)	Blower Coil Units	55,500	16.3	56,000	16.4	37,800	11.1	11.00	9.15	7.10	6.40	6060	5620	5075	2.92	2.18	CB29M-51 (Multi)
55,500			16.3	56,000	16.4	37,800	11.1	11.00	9.15	7.10	6.40	6060	5620	5075	2.92	2.18	CB28UH-048 (Up-Flow/Horiz)	3 49L25
55,500			16.3	56,000	16.4	37,600	11.0	11.00	9.25	7.10	6.40	5995	5595	5035	2.94	2.18	CB29M-65 (Multi)	3 49L25
55,500			16.3	56,000	16.4	37,600	11.0	11.00	9.25	7.10	6.40	5995	5595	5035	2.94	2.18	CB28UH-060 (Up-Flow/horiz)	3 49L25
58,500			17.1	55,500	16.3	37,000	10.8	12.00	10.20	7.50	6.80	5725	5125	4690	3.18	2.32	4 CB30M-65 (Multi)	3 49L25
58,500			17.1	55,500	16.3	37,000	10.8	12.00	10.20	7.50	6.80	5725	5125	4690	3.18	2.32	CB30U-65 (Up-Flow)	3 49L25
58,500			17.1	55,500	16.3	37,000	10.8	12.00	10.20	7.50	6.80	5725	5125	4690	3.18	2.32	CBX32M-060 (Multi)	Factory Installed
58,500			17.1	55,000	16.1	36,500	10.7	12.20	10.20	7.70	6.90	5725	4965	4495	3.24	2.38	CB30M-51 (Multi)	3 49L25
58,500			17.1	55,000	16.1	36,500	10.7	12.20	10.20	7.70	6.90	5725	4965	4495	3.24	2.38	CB30U-51 (Up-Flow)	3 49L25
58,500			17.1	55,000	16.1	36,500	10.7	12.20	10.20	7.70	6.90	5725	4965	4495	3.24	2.38	CBX32M-048 (Multi)	Factory Installed
58,500			17.1	54,500	16.0	36,200	10.6	12.50	10.35	7.80	7.00	5650	4890	4420	3.26	2.40	CB31MV-51 (Multi)	3 49L25
58,500			17.1	54,500	16.0	36,200	10.6	12.50	10.35	7.80	7.00	5650	4890	4420	3.26	2.40	CBX32MV-048 (Multi)	Factory Installed
59,000			17.3	54,500	16.0	36,200	10.6	12.60	10.45	7.70	6.90	5640	4955	4480	3.22	2.36	CB31MV-65 (Multi)	3 49L25
59,000		17.3	54,500	16.0	36,200	10.6	12.60	10.45	7.70	6.90	5640	4955	4480	3.22	2.36	CBX32MV-060 (Multi)	Factory Installed	
56,000		16.4	55,500	16.3	37,200	10.9	11.20	9.45	7.40	6.65	5930	5180	4720	3.14	2.30	5 CVP10-51/EC10(Up-Flow)	3 49L25	
57,500		16.9	55,000	16.1	37,000	10.8	11.40	9.70	7.20	6.50	5940	5210	4765	3.10	2.28	5 CVP10-65/EC10(Up-Flow)	3 49L25	
Up-Flow Coils		57,000	16.7	55,000	16.1	36,800	10.8	11.70	9.80	6.90	6.30	5825	5630	5020	2.86	2.14	C33-48B/C	49L25
		57,000	16.7	55,000	16.1	36,800	10.8	11.70	9.80	6.90	6.30	5825	5630	5020	2.86	2.14	CX34-44/48B/C-6F	Factory Installed
		57,500	16.9	55,000	16.1	36,800	10.8	11.90	9.85	7.20	6.50	5835	5420	4875	2.98	2.22	C33-50/60C	49L25
		57,500	16.9	55,000	16.1	36,800	10.8	11.90	9.85	7.20	6.50	5835	5420	4875	2.98	2.22	CX34-50/60C-6F	Factory Installed
	57,500	16.9	55,000	16.1	36,800	10.8	11.90	9.90	7.30	6.50	5820	5325	4800	3.02	2.24	C33-60D	49L25	
	57,500	16.9	55,000	16.1	36,800	10.8	11.90	9.90	7.30	6.50	5820	5325	4800	3.02	2.24	CX34-60D-6F	Factory Installed	
	60,000	17.6	55,000	16.1	36,800	10.8	12.00	10.25	7.40	6.65	5845	5180	4710	3.12	2.28	C33-62D	49L25	
60,000	17.6	55,000	16.1	36,800	10.8	12.00	10.25	7.40	6.65	5845	5180	4710	3.12	2.28	CX34-62D-6F	Factory Installed		

NOTE — These are the only approved system match-ups. For other matches, contact the Lennox Applications Department.

NOTE - Ratings for all C33 coils include all cased and uncased coils.

NOTE - Use FM21 Control with any listed coil and furnace that meets system design requirements. See FM21 page in Controls section for additional data.

1 Sound Rating Number in accordance with test conditions included in ARI Standard 270.

2 Certified in accordance with USE certification program which is based on ARI Standard 210/240 with 25 ft. (7.6 m) of connecting refrigerant lines;

Cooling Ratings - 95°F (35°C) outdoor air temperature and 80°F (27°C) db/67°F (19°C) wb entering indoor coil air.

High Temperature Heating Ratings - 47°F (8°C) db/43°F (6°C) wb outdoor air temperature and 70°F (21°C) db entering indoor coil air.

Low Temperature Heating Ratings - 17°F (-8.3°C) db/15°F (-9.4°C) wb outdoor air temperature and 70°F (21°C) db entering indoor coil air.

3 Factory installed check/expansion valves on indoor units MUST be replaced with separately ordered check/expansion valve kit shown.

4 Most popular blower coil combination.

5 Canada Only

RATINGS

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

HPXA12-018 — CB29M-31 - CB28UH-030 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	500	235	17.7	5.2	1.11	.74	.88	.99	16.9	5.0	1.28	.75	.90	1.00	16.0	4.7	1.46	.77	.92	1.00	15.0	4.4	1.68	.79	.95	1.00
	700	330	18.8	5.5	1.12	.82	.98	1.00	17.9	5.2	1.28	.84	1.00	1.00	17.0	5.0	1.47	.87	1.00	1.00	16.1	4.7	1.69	.89	1.00	1.00
	900	425	19.7	5.8	1.12	.90	1.00	1.00	18.9	5.5	1.29	.92	1.00	1.00	18.0	5.3	1.47	.95	1.00	1.00	17.0	5.0	1.69	.98	1.00	1.00
67°F (19°C)	500	235	18.9	5.5	1.12	.58	.71	.84	18.0	5.3	1.28	.58	.72	.86	17.0	5.0	1.47	.59	.75	.89	16.0	4.7	1.69	.61	.76	.92
	700	330	19.8	5.8	1.13	.63	.80	.95	18.8	5.5	1.29	.64	.82	.97	17.8	5.2	1.48	.66	.85	1.00	16.7	4.9	1.69	.68	.87	1.00
	900	425	20.3	5.9	1.13	.68	.89	1.00	19.3	5.7	1.29	.70	.91	1.00	18.3	5.4	1.48	.72	.93	1.00	17.1	5.0	1.70	.74	.96	1.00
71°F (22°C)	500	235	20.2	5.9	1.13	.43	.56	.69	19.3	5.7	1.29	.43	.57	.70	18.2	5.3	1.48	.44	.58	.72	17.1	5.0	1.70	.44	.59	.74
	700	330	21.1	6.2	1.13	.45	.61	.78	20.0	5.9	1.30	.45	.63	.80	18.9	5.5	1.48	.46	.65	.82	17.7	5.2	1.70	.47	.67	.85
	900	425	21.6	6.3	1.14	.47	.67	.87	20.5	6.0	1.30	.48	.69	.89	19.4	5.7	1.48	.48	.71	.91	18.1	5.3	1.70	.50	.74	.94

HPXA12-018 — CB30M-21/26 - CB30U-21/26 - CBX32M-018/024 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	460	215	17.9	5.2	1.11	.70	.84	.96	17.1	5.0	1.27	.72	.85	.98	16.2	4.7	1.46	.73	.88	1.00	15.2	4.5	1.68	.75	.90	1.00
	660	310	19.2	5.6	1.12	.79	.95	1.00	18.3	5.4	1.28	.82	.98	1.00	17.3	5.1	1.47	.83	1.00	1.00	16.3	4.8	1.68	.86	1.00	1.00
	860	405	20.3	5.9	1.12	.88	1.00	1.00	19.4	5.7	1.28	.90	1.00	1.00	18.4	5.4	1.47	.93	1.00	1.00	17.4	5.1	1.69	.96	1.00	1.00
67°F (19°C)	460	215	19.2	5.6	1.12	.56	.68	.80	18.3	5.4	1.28	.56	.69	.82	17.3	5.1	1.47	.57	.70	.84	16.2	4.7	1.69	.58	.73	.87
	660	310	20.3	5.9	1.13	.60	.77	.92	19.3	5.7	1.29	.62	.78	.95	18.2	5.3	1.47	.63	.81	.98	17.0	5.0	1.69	.65	.84	.99
	860	405	20.9	6.1	1.13	.66	.86	1.00	19.9	5.8	1.29	.68	.88	1.00	18.8	5.5	1.48	.69	.91	1.00	17.6	5.2	1.69	.72	.95	1.00
71°F (22°C)	460	215	20.6	6.0	1.13	.42	.53	.65	19.6	5.7	1.29	.42	.54	.66	18.5	5.4	1.47	.42	.55	.68	17.4	5.1	1.69	.43	.56	.70
	660	310	21.7	6.4	1.13	.44	.59	.74	20.6	6.0	1.29	.44	.60	.76	19.4	5.7	1.48	.45	.62	.79	18.2	5.3	1.70	.45	.64	.82
	860	405	22.3	6.5	1.14	.46	.65	.84	21.1	6.2	1.30	.46	.67	.86	19.9	5.8	1.48	.47	.69	.89	18.6	5.5	1.70	.48	.71	.92

HPXA12-018 - CB29M-31 - CB28UH-030 - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)	Total Air Volume		Air Temperature Entering Outdoor Coil														
			65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
			Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
kBtuh	kW	kBtuh	kW	kBtuh		kW	kBtuh		kW	kBtuh		kW					
500	235	20.4	6.0	1.37	15.6	4.6	1.31	10.7	3.1	1.26	7.2	2.1	1.14	3.3	1.0	.85	
700	330	21.2	6.2	1.26	16.4	4.8	1.20	11.5	3.4	1.15	8.0	2.3	1.03	4.1	1.2	.74	
900	425	21.7	6.4	1.20	16.9	5.0	1.14	12.0	3.5	1.09	8.5	2.5	.97	4.6	1.3	.68	

HPXA12-018 - CB30M-21/26 - CB30U-21/26 - CBX32M-018/024 - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)	Total Air Volume		Air Temperature Entering Outdoor Coil														
			65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
			Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
kBtuh	kW	kBtuh	kW	kBtuh		kW	kBtuh		kW	kBtuh		kW					
460	215	20.3	5.9	1.32	15.5	4.5	1.27	10.6	3.1	1.23	7.1	2.1	1.12	3.3	1.0	.84	
660	310	21.0	6.2	1.20	16.2	4.7	1.15	11.3	3.3	1.11	7.8	2.3	1.00	4.0	1.2	.72	
860	405	21.6	6.3	1.13	16.8	4.9	1.09	11.9	3.5	1.04	8.4	2.5	.94	4.6	1.3	.66	

HPXA12-018 - CB29M-31 - CB28UH-030 - HEATING PERFORMANCE AT 700 cfm (330 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	1.26	21.2	6.2
60	16	1.24	20.1	5.9
55	13	1.23	19.0	5.6
50	10	1.21	17.9	5.2
47	8	1.21	17.2	5.0
45	7	1.20	16.4	4.8
40	4	1.19	14.5	4.2
35	2	1.18	12.7	3.7
30	-1	1.16	12.1	3.5
25	-4	1.15	11.5	3.4
20	-7	1.13	10.9	3.2
17	-8	1.12	10.5	3.1
15	-9	1.12	10.1	3.0
10	-12	1.10	9.0	2.6
5	-15	1.03	8.0	2.3
0	-18	.96	7.0	2.1
-5	-21	.89	6.1	1.8
-10	-23	.82	5.1	1.5
-15	-26	.74	4.1	1.2
-20	-29	.67	3.2	.9

HPXA12-018 - CB30M/U-21/26 - CBX32M-018/024 - HEATING PERFORMANCE AT 660 cfm (310 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	1.20	21.0	6.2
60	16	1.18	19.9	5.8
55	13	1.17	18.8	5.5
50	10	1.16	17.6	5.2
47	8	1.15	17.0	5.0
45	7	1.15	16.2	4.7
40	4	1.14	14.3	4.2
35	2	1.13	12.5	3.7
30	-1	1.12	11.9	3.5
25	-4	1.11	11.3	3.3
20	-7	1.09	10.7	3.1
17	-8	1.09	10.3	3.0
15	-9	1.08	9.9	2.9
10	-12	1.07	8.7	2.5
5	-15	1.00	7.8	2.3
0	-18	.93	6.9	2.0
-5	-21	.86	5.9	1.7
-10	-23	.79	5.0	1.5
-15	-26	.72	4.0	1.2
-20	-29	.65	3.1	.9

RATINGS

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

HPXA12-018 — CVP10-26/EC10Q3 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C		kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C		kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C		kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C				
63°F (17°C)	460	215	17.5	5.1	1.11	.71	.83	.96	16.6	4.9	1.28	.72	.86	.98	15.8	4.6	1.46	.73	.87	1.00	14.8	4.3	1.68	.75	.90	1.00
	660	310	18.6	5.5	1.12	.79	.96	1.00	17.8	5.2	1.28	.81	.97	1.00	16.9	5.0	1.47	.83	.99	1.00	15.9	4.7	1.69	.86	1.00	1.00
	860	405	19.7	5.8	1.13	.87	1.00	1.00	18.9	5.5	1.29	.90	1.00	1.00	17.9	5.2	1.48	.93	1.00	1.00	16.9	5.0	1.70	.96	1.00	1.00
67°F (19°C)	460	215	18.7	5.5	1.12	.55	.68	.80	17.8	5.2	1.28	.56	.69	.82	16.9	5.0	1.47	.57	.70	.84	15.8	4.6	1.69	.58	.73	.87
	660	310	19.7	5.8	1.13	.60	.76	.92	18.8	5.5	1.29	.61	.78	.94	17.7	5.2	1.48	.63	.81	.97	16.6	4.9	1.70	.65	.84	.99
	860	405	20.4	6.0	1.13	.66	.85	.99	19.4	5.7	1.29	.67	.88	1.00	18.3	5.4	1.48	.69	.90	1.00	17.1	5.0	1.70	.71	.94	1.00
71°F (22°C)	460	215	20.0	5.9	1.13	.42	.53	.65	19.1	5.6	1.29	.42	.54	.66	18.1	5.3	1.48	.42	.55	.68	16.9	5.0	1.70	.43	.56	.70
	660	310	21.1	6.2	1.14	.44	.59	.74	20.1	5.9	1.30	.44	.60	.76	18.9	5.5	1.48	.45	.62	.78	17.7	5.2	1.70	.45	.64	.82
	860	405	21.7	6.4	1.14	.46	.64	.83	20.6	6.0	1.30	.47	.66	.85	19.4	5.7	1.49	.47	.68	.89	18.1	5.3	1.71	.48	.71	.92

HPXA12-018 — C33-30A/B/C - CX34-30A/B/C-6F COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C		kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C		kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C		kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C				
63°F (17°C)	460	215	17.8	5.2	1.11	.73	.87	.99	17.0	5.0	1.28	.74	.88	1.00	16.1	4.7	1.46	.76	.91	1.00	15.1	4.4	1.68	.78	.94	1.00
	660	310	19.0	5.6	1.12	.82	.98	1.00	18.1	5.3	1.28	.84	1.00	1.00	17.2	5.0	1.47	.86	1.00	1.00	16.3	4.8	1.69	.89	1.00	1.00
	860	405	20.0	5.9	1.13	.90	1.00	1.00	19.2	5.6	1.29	.93	1.00	1.00	18.3	5.4	1.47	.96	1.00	1.00	17.2	5.0	1.69	.98	1.00	1.00
67°F (19°C)	460	215	19.0	5.6	1.12	.57	.70	.83	18.2	5.3	1.28	.58	.71	.85	17.2	5.0	1.47	.59	.74	.87	16.1	4.7	1.69	.60	.75	.90
	660	310	20.1	5.9	1.13	.63	.79	.94	19.1	5.6	1.29	.64	.82	.97	18.0	5.3	1.47	.65	.84	1.00	16.9	5.0	1.69	.67	.87	1.00
	860	405	20.7	6.1	1.13	.68	.88	1.00	19.7	5.8	1.29	.70	.91	1.00	18.6	5.5	1.48	.72	.93	1.00	17.4	5.1	1.70	.74	.97	1.00
71°F (22°C)	460	215	20.4	6.0	1.13	.44	.56	.68	19.4	5.7	1.29	.44	.56	.69	18.4	5.4	1.48	.44	.57	.70	17.3	5.1	1.70	.44	.58	.73
	660	310	21.4	6.3	1.14	.45	.61	.77	20.3	5.9	1.30	.46	.63	.79	19.2	5.6	1.48	.46	.64	.81	18.0	5.3	1.70	.47	.66	.85
	860	405	21.9	6.4	1.14	.48	.67	.86	20.9	6.1	1.30	.48	.69	.88	19.7	5.8	1.49	.49	.71	.92	18.4	5.4	1.71	.50	.74	.95

HPXA12-018 - CVP10-26/EC10Q3 - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)			Air Temperature Entering Outdoor Coil														
			65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
cfm	L/s		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
			kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
460	215		20.3	5.9	1.34	15.5	4.5	1.29	10.6	3.1	1.24	7.1	2.1	1.13	3.3	1.0	.86
660	310		21.1	6.2	1.21	16.3	4.8	1.16	11.4	3.3	1.11	7.9	2.3	1.00	4.1	1.2	.73
860	405		21.5	6.3	1.14	16.7	4.9	1.09	11.8	3.5	1.04	8.3	2.4	.93	4.5	1.3	.66

HPXA12-018 - C33-30A/B/C - CX34-30A/B/C-6F - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)			Air Temperature Entering Outdoor Coil														
			65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
cfm	L/s		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
			kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
460	215		20.1	5.9	1.38	15.4	4.5	1.33	10.5	3.1	1.28	7.0	2.1	1.17	3.2	.9	.88
660	310		21.0	6.2	1.25	16.3	4.8	1.20	11.4	3.3	1.15	7.9	2.3	1.04	4.1	1.2	.75
860	405		21.6	6.3	1.18	16.9	5.0	1.13	12.0	3.5	1.08	8.5	2.5	.97	4.7	1.4	.68

HPXA12-018 - CVP10-26/EC10Q3 - HEATING PERFORMANCE AT 660 cfm (310 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	1.21	21.1	6.2
60	16	1.19	20.0	5.9
55	13	1.18	18.9	5.5
50	10	1.17	17.8	5.2
47	8	1.16	17.1	5.0
45	7	1.16	16.3	4.8
40	4	1.15	14.4	4.2
35	2	1.14	12.6	3.7
30	-1	1.13	12.0	3.5
25	-4	1.11	11.4	3.3
20	-7	1.10	10.8	3.2
17	-8	1.09	10.4	3.0
15	-9	1.09	10.0	2.9
10	-12	1.07	8.9	2.6
5	-15	1.00	7.9	2.3
0	-18	.93	7.0	2.1
-5	-21	.87	6.0	1.8
-10	-23	.80	5.0	1.5
-15	-26	.73	4.1	1.2
-20	-29	.66	3.1	.9

HPXA12-018 - C33-30A/B - CX34-30A/B-6F - HEATING PERFORMANCE AT 660 cfm (310 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	1.25	21.0	6.2
60	16	1.23	19.9	5.8
55	13	1.22	18.8	5.5
50	10	1.21	17.7	5.2
47	8	1.20	17.0	5.0
45	7	1.20	16.3	4.8
40	4	1.19	14.4	4.2
35	2	1.18	12.5	3.7
30	-1	1.16	11.9	3.5
25	-4	1.15	11.4	3.3
20	-7	1.13	10.8	3.2
17	-8	1.13	10.4	3.0
15	-9	1.12	10.0	2.9
10	-12	1.11	8.9	2.6
5	-15	1.04	7.9	2.3
0	-18	.96	6.9	2.0
-5	-21	.89	6.0	1.8
-10	-23	.82	5.0	1.5
-15	-26	.75	4.1	1.2
-20	-29	.68	3.1	.9

RATINGS

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

HPXA12-024 — CBX32MV-024/030 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	550	260	26.0	7.6	1.81	.68	.80	.91	24.7	7.2	2.04	.70	.82	.93	23.3	6.8	2.31	.71	.84	.96	21.8	6.4	2.62	.73	.87	.99
	650	305	26.9	7.9	1.82	.71	.84	.96	25.6	7.5	2.05	.72	.86	.99	24.1	7.1	2.32	.74	.88	1.00	22.5	6.6	2.63	.76	.92	1.00
	750	355	27.6	8.1	1.83	.74	.89	1.00	26.2	7.7	2.06	.76	.91	1.00	24.7	7.2	2.33	.78	.93	1.00	23.1	6.8	2.64	.80	.96	1.00
67°F (19°C)	550	260	27.8	8.1	1.83	.55	.66	.77	26.5	7.8	2.06	.55	.67	.78	25.0	7.3	2.33	.56	.68	.80	23.4	6.9	2.65	.57	.69	.83
	650	305	28.8	8.4	1.84	.56	.68	.81	27.3	8.0	2.07	.57	.70	.83	25.7	7.5	2.34	.58	.72	.85	24.0	7.0	2.65	.59	.74	.88
	750	355	29.4	8.6	1.84	.58	.71	.85	27.9	8.2	2.08	.59	.73	.87	26.3	7.7	2.35	.60	.75	.90	24.5	7.2	2.66	.61	.78	.94
71°F (22°C)	550	260	29.8	8.7	1.85	.42	.53	.63	28.3	8.3	2.08	.42	.54	.64	26.8	7.9	2.35	.43	.54	.65	25.0	7.3	2.67	.43	.55	.67
	650	305	30.7	9.0	1.86	.43	.54	.66	29.2	8.6	2.09	.43	.55	.67	27.5	8.1	2.36	.43	.56	.69	25.7	7.5	2.68	.44	.57	.71
	750	355	31.4	9.2	1.86	.43	.56	.69	29.8	8.7	2.10	.43	.57	.71	28.0	8.2	2.37	.44	.58	.73	26.1	7.6	2.69	.45	.60	.75

HPXA12-024 — CB30M-21/26 - CB30U-21/26 - CBX32M-018/024 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	550	260	25.8	7.6	1.81	.66	.78	.90	24.5	7.2	2.05	.68	.80	.92	23.2	6.8	2.31	.69	.82	.95	21.7	6.4	2.62	.71	.85	.98
	650	305	26.7	7.8	1.82	.69	.83	.95	25.3	7.4	2.05	.71	.85	.97	23.9	7.0	2.32	.72	.87	.99	22.4	6.6	2.63	.75	.90	1.00
	750	355	27.4	8.0	1.83	.72	.87	.99	26.0	7.6	2.06	.74	.89	1.00	24.5	7.2	2.33	.76	.92	1.00	22.9	6.7	2.64	.79	.95	1.00
67°F (19°C)	550	260	27.6	8.1	1.83	.53	.64	.75	26.2	7.7	2.06	.54	.65	.76	24.8	7.3	2.33	.55	.66	.78	23.2	6.8	2.64	.55	.68	.81
	650	305	28.4	8.3	1.84	.55	.67	.79	27.0	7.9	2.07	.56	.68	.81	25.5	7.5	2.34	.56	.70	.84	23.8	7.0	2.65	.58	.72	.87
	750	355	29.1	8.5	1.84	.56	.69	.83	27.6	8.1	2.08	.57	.72	.86	26.0	7.6	2.35	.58	.73	.88	24.3	7.1	2.66	.60	.76	.92
71°F (22°C)	550	260	29.5	8.6	1.85	.41	.51	.61	28.1	8.2	2.08	.41	.52	.62	26.5	7.8	2.35	.41	.53	.64	24.8	7.3	2.67	.41	.54	.65
	650	305	30.4	8.9	1.86	.42	.53	.64	28.9	8.5	2.09	.42	.54	.65	27.2	8.0	2.36	.42	.55	.67	25.4	7.4	2.68	.42	.56	.70
	750	355	31.0	9.1	1.86	.42	.55	.67	29.5	8.6	2.10	.42	.55	.69	27.7	8.1	2.37	.43	.57	.71	25.9	7.6	2.68	.43	.58	.74

HPXA12-024 - CBX32MV-024/030 - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)	Total Air Volume		Air Temperature Entering Outdoor Coil														
			65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
			Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
kBtuh	kW	kBtuh	kW	kBtuh		kW	kBtuh		kW	kBtuh		kW					
550	260	27.7	8.1	2.07	21.8	6.4	1.94	15.5	4.5	1.80	11.3	3.3	1.62	5.6	1.6	1.21	
650	305	28.1	8.2	1.96	22.2	6.5	1.83	15.9	4.7	1.69	11.7	3.4	1.51	6.0	1.8	1.10	
750	355	28.4	8.3	1.88	22.5	6.6	1.75	16.2	4.7	1.61	12.0	3.5	1.43	6.3	1.8	1.02	

HPXA12-024 - CB30M-21/26 - CB30U-21/26 - CBX32M-018/024 - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)	Total Air Volume		Air Temperature Entering Outdoor Coil														
			65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
			Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
kBtuh	kW	kBtuh	kW	kBtuh		kW	kBtuh		kW	kBtuh		kW					
550	260	27.7	8.1	2.13	21.8	6.4	1.99	15.5	4.5	1.85	11.3	3.3	1.65	5.6	1.6	1.23	
650	305	28.1	8.2	2.02	22.2	6.5	1.88	15.9	4.7	1.74	11.7	3.4	1.54	6.0	1.8	1.12	
750	355	28.5	8.4	1.94	22.6	6.6	1.80	16.3	4.8	1.66	12.1	3.5	1.46	6.4	1.9	1.04	

HPXA12-024 - CBX32MV-024/030 HEATING PERFORMANCE @ 650 cfm (305 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	1.96	28.1	8.2
60	16	1.93	26.8	7.9
55	13	1.89	25.4	7.4
50	10	1.86	24.0	7.0
47	8	1.84	23.2	6.8
45	7	1.83	22.2	6.5
40	4	1.78	19.5	5.7
35	2	1.73	16.9	5.0
30	-1	1.71	16.4	4.8
25	-4	1.69	15.9	4.7
20	-7	1.67	15.4	4.5
17	-8	1.66	15.1	4.4
15	-9	1.64	14.5	4.2
10	-12	1.61	13.2	3.9
5	-15	1.51	11.7	3.4
0	-18	1.41	10.3	3.0
-5	-21	1.30	8.8	2.6
-10	-23	1.20	7.4	2.2
-15	-26	1.10	6.0	1.8
-20	-29	.99	4.5	1.3

HPXA12-024 - CB30M/U-21/26 - CBX32M-018/024 - HEATING PERFORMANCE @ 650 cfm (305 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.02	28.1	8.2
60	16	1.99	26.8	7.9
55	13	1.96	25.4	7.4
50	10	1.92	24.1	7.1
47	8	1.90	23.2	6.8
45	7	1.88	22.2	6.5
40	4	1.83	19.5	5.7
35	2	1.78	16.9	5.0
30	-1	1.76	16.4	4.8
25	-4	1.74	15.9	4.7
20	-7	1.71	15.4	4.5
17	-8	1.70	15.1	4.4
15	-9	1.68	14.5	4.2
10	-12	1.65	13.2	3.9
5	-15	1.54	11.7	3.4
0	-18	1.44	10.3	3.0
-5	-21	1.33	8.9	2.6
-10	-23	1.23	7.4	2.2
-15	-26	1.12	6.0	1.8
-20	-29	1.02	4.5	1.3

RATINGS

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

HPXA12-024 — CB29M-31 - CB28UH-030 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C		kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C		kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C		kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C				
63°F (17°C)	800	380	27.1	7.9	1.82	.74	.89	1.00	25.8	7.6	2.05	.76	.92	1.00	24.4	7.2	2.32	.78	.94	1.00	22.9	6.7	2.62	.81	.97	1.00
	900	425	27.7	8.1	1.82	.77	.92	1.00	26.3	7.7	2.05	.79	.95	1.00	24.9	7.3	2.32	.82	.97	1.00	23.4	6.9	2.63	.85	1.00	1.00
	1000	470	28.1	8.2	1.82	.80	.96	1.00	26.8	7.9	2.06	.82	.98	1.00	25.4	7.4	2.33	.85	1.00	1.00	23.9	7.0	2.64	.88	1.00	1.00
67°F (19°C)	800	380	28.7	8.4	1.83	.58	.72	.86	27.3	8.0	2.06	.59	.74	.88	25.8	7.6	2.33	.60	.76	.91	24.1	7.1	2.64	.62	.79	.94
	900	425	29.2	8.6	1.83	.59	.75	.90	27.7	8.1	2.07	.60	.77	.92	26.2	7.7	2.34	.62	.79	.94	24.5	7.2	2.65	.64	.82	.97
	1000	470	29.5	8.6	1.84	.61	.78	.93	28.1	8.2	2.07	.62	.80	.95	26.5	7.8	2.34	.64	.82	.98	24.7	7.2	2.65	.66	.86	1.00
71°F (22°C)	800	380	30.6	9.0	1.84	.43	.56	.70	29.1	8.5	2.08	.43	.57	.71	27.5	8.1	2.35	.44	.58	.73	25.7	7.5	2.66	.44	.60	.76
	900	425	31.0	9.1	1.85	.43	.58	.73	29.5	8.6	2.08	.44	.59	.75	27.8	8.1	2.35	.44	.61	.77	26.0	7.6	2.67	.45	.62	.80
	1000	470	31.3	9.2	1.85	.44	.60	.76	29.8	8.7	2.09	.45	.61	.78	28.1	8.2	2.36	.45	.63	.80	26.2	7.7	2.67	.46	.65	.84

HPXA12-024 — CB30M-31 - CB30U-31 - CBX32M-030 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C		kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C		kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C		kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C				
63°F (17°C)	550	260	26.0	7.6	1.81	.68	.80	.91	24.7	7.2	2.04	.70	.82	.93	23.3	6.8	2.31	.71	.84	.96	21.8	6.4	2.62	.73	.87	.99
	650	305	26.9	7.9	1.82	.71	.84	.96	25.6	7.5	2.05	.72	.86	.99	24.1	7.1	2.32	.74	.88	1.00	22.5	6.6	2.63	.76	.92	1.00
	750	355	27.6	8.1	1.83	.74	.89	1.00	26.2	7.7	2.06	.76	.91	1.00	24.7	7.2	2.33	.78	.93	1.00	23.1	6.8	2.64	.80	.96	1.00
67°F (19°C)	550	260	27.8	8.1	1.83	.55	.66	.77	26.5	7.8	2.06	.55	.67	.78	25.0	7.3	2.33	.56	.68	.80	23.4	6.9	2.65	.57	.69	.83
	650	305	28.8	8.4	1.84	.56	.68	.81	27.3	8.0	2.07	.57	.70	.83	25.7	7.5	2.34	.58	.72	.85	24.0	7.0	2.65	.59	.74	.88
	750	355	29.4	8.6	1.84	.58	.71	.85	27.9	8.2	2.08	.59	.73	.87	26.3	7.7	2.35	.60	.75	.90	24.5	7.2	2.66	.61	.78	.94
71°F (22°C)	550	260	29.8	8.7	1.85	.42	.53	.63	28.3	8.3	2.08	.42	.54	.64	26.8	7.9	2.35	.43	.54	.65	25.0	7.3	2.67	.43	.55	.67
	650	305	30.7	9.0	1.86	.43	.54	.66	29.2	8.6	2.09	.43	.55	.67	27.5	8.1	2.36	.43	.56	.69	25.7	7.5	2.68	.44	.57	.71
	750	355	31.4	9.2	1.86	.43	.56	.69	29.8	8.7	2.10	.43	.57	.71	28.0	8.2	2.37	.44	.58	.73	26.1	7.6	2.69	.45	.60	.75

HPXA12-024 - CB30M-31 - CB30U-31 - CBX32M-030 - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)	Total Air Volume		Air Temperature Entering Outdoor Coil														
			65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
			Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
kBtuh	kW	kBtuh	kW	kBtuh		kW	kBtuh		kW	kBtuh		kW					
550	260	27.7	8.1	2.07	21.8	6.4	1.94	15.5	4.5	1.80	11.3	3.3	1.62	5.6	1.6	1.21	
650	305	28.1	8.2	1.96	22.2	6.5	1.83	15.9	4.7	1.69	11.7	3.4	1.51	6.0	1.8	1.10	
750	355	28.4	8.3	1.88	22.5	6.6	1.75	16.2	4.7	1.61	12.0	3.5	1.43	6.3	1.8	1.02	

HPXA12-024 - CB29M-31 - CB28UH-030 - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)	Total Air Volume		Air Temperature Entering Outdoor Coil														
			65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
			Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
kBtuh	kW	kBtuh	kW	kBtuh		kW	kBtuh		kW	kBtuh		kW					
800	380	28.9	8.5	2.06	22.8	6.7	1.95	16.4	4.8	1.82	12.1	3.5	1.65	6.2	1.8	1.22	
900	425	28.9	8.5	1.98	22.8	6.7	1.86	16.4	4.8	1.74	12.1	3.5	1.56	6.2	1.8	1.13	
1000	470	29.4	8.6	1.96	23.3	6.8	1.84	16.9	5.0	1.72	12.6	3.7	1.54	6.7	2.0	1.11	

HPXA12-024 - CB29M-31 - CB28UH-030 - HEATING PERFORMANCE at 900 cfm (425 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	1.98	28.9	8.5
60	16	1.95	27.5	8.1
55	13	1.92	26.2	7.7
50	10	1.90	24.8	7.3
47	8	1.88	23.9	7.0
45	7	1.86	22.8	6.7
40	4	1.82	20.1	5.9
35	2	1.78	17.4	5.1
30	-1	1.76	16.9	5.0
25	-4	1.74	16.4	4.8
20	-7	1.72	15.9	4.7
17	-8	1.71	15.6	4.6
15	-9	1.70	15.0	4.4
10	-12	1.67	13.6	4.0
5	-15	1.56	12.1	3.5
0	-18	1.46	10.7	3.1
-5	-21	1.35	9.2	2.7
-10	-23	1.24	7.7	2.3
-15	-26	1.13	6.2	1.8
-20	-29	1.03	4.7	1.4

HPXA12-024 - CB30M-31 - CB30U-31 - CBX32M-030 - HEATING PERFORMANCE at 900 cfm (425 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	1.96	28.1	8.2
60	16	1.93	26.8	7.9
55	13	1.89	25.4	7.4
50	10	1.86	24.0	7.0
47	8	1.84	23.2	6.8
45	7	1.83	22.2	6.5
40	4	1.78	19.5	5.7
35	2	1.73	16.9	5.0
30	-1	1.71	16.4	4.8
25	-4	1.69	15.9	4.7
20	-7	1.67	15.4	4.5
17	-8	1.66	15.1	4.4
15	-9	1.64	14.5	4.2
10	-12	1.61	13.2	3.9
5	-15	1.51	11.7	3.4
0	-18	1.41	10.3	3.0
-5	-21	1.30	8.8	2.6
-10	-23	1.20	7.4	2.2
-15	-26	1.10	6.0	1.8
-20	-29	.99	4.5	1.3

RATINGS

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

HPXA12-024 — CB29M-41 - CB28UH-036 COOLING CAPACITY

Entering Wet Bulb Temperature	Outdoor Air Temperature Entering Outdoor Coil																									
	Total Air Volume		85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	kBtuh	kW	75°F 24°C	80°F 27°C		85°F 29°C	kBtuh	kW	75°F 24°C	80°F 27°C		85°F 29°C	kBtuh	kW	75°F 24°C	80°F 27°C		85°F 29°C	kBtuh	kW	75°F 24°C	80°F 27°C		85°F 29°C		
63°F (17°C)	800	380	27.0	7.9	1.82	.76	.91	1.00	25.7	7.5	2.06	.78	.93	1.00	24.3	7.1	2.33	.79	.95	1.00	22.7	6.7	2.64	.83	.98	1.00
	900	425	27.6	8.1	1.83	.79	.94	1.00	26.2	7.7	2.06	.81	.96	1.00	24.8	7.3	2.33	.83	.99	1.00	23.3	6.8	2.64	.85	1.00	1.00
	1000	470	28.0	8.2	1.83	.82	.97	1.00	26.7	7.8	2.07	.83	.99	1.00	25.3	7.4	2.34	.86	1.00	1.00	23.8	7.0	2.65	.89	1.00	1.00
67°F (19°C)	800	380	28.7	8.4	1.84	.59	.73	.87	27.3	8.0	2.07	.60	.75	.90	25.7	7.5	2.34	.61	.77	.92	24.0	7.0	2.66	.63	.80	.95
	900	425	29.1	8.5	1.84	.60	.76	.91	27.7	8.1	2.08	.62	.78	.93	26.0	7.6	2.35	.63	.81	.96	24.3	7.1	2.66	.65	.84	.99
	1000	470	29.5	8.6	1.85	.62	.79	.95	28.0	8.2	2.08	.64	.82	.96	26.4	7.7	2.35	.65	.84	.99	24.6	7.2	2.66	.67	.87	1.00
71°F (22°C)	800	380	30.6	9.0	1.86	.44	.57	.71	29.0	8.5	2.09	.44	.58	.73	27.4	8.0	2.36	.44	.59	.75	25.5	7.5	2.68	.45	.61	.77
	900	425	31.0	9.1	1.86	.44	.59	.74	29.4	8.6	2.09	.45	.60	.76	27.7	8.1	2.37	.45	.62	.78	25.9	7.6	2.68	.46	.64	.82
	1000	470	31.4	9.2	1.86	.45	.61	.77	29.8	8.7	2.10	.45	.62	.79	28.0	8.2	2.37	.46	.64	.82	26.1	7.6	2.69	.47	.66	.85

HPXA12-024 — CVP10-26/EC10Q3 COOLING CAPACITY

Entering Wet Bulb Temperature	Outdoor Air Temperature Entering Outdoor Coil																									
	Total Air Volume		85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	kBtuh	kW	75°F 24°C	80°F 27°C		85°F 29°C	kBtuh	kW	75°F 24°C	80°F 27°C		85°F 29°C	kBtuh	kW	75°F 24°C	80°F 27°C		85°F 29°C	kBtuh	kW	75°F 24°C	80°F 27°C		85°F 29°C		
63°F (17°C)	550	260	25.1	7.4	1.80	.68	.80	.91	23.9	7.0	2.03	.70	.82	.93	22.6	6.6	2.30	.71	.84	.95	21.2	6.2	2.61	.73	.86	.98
	650	305	26.0	7.6	1.81	.71	.84	.96	24.7	7.2	2.04	.73	.86	.98	23.3	6.8	2.31	.74	.88	1.00	21.9	6.4	2.62	.76	.91	1.00
	750	355	26.6	7.8	1.82	.74	.88	1.00	25.3	7.4	2.05	.76	.91	1.00	23.9	7.0	2.31	.78	.93	1.00	22.4	6.6	2.63	.80	.96	1.00
67°F (19°C)	550	260	26.8	7.9	1.82	.55	.66	.77	25.6	7.5	2.05	.55	.67	.78	24.2	7.1	2.32	.56	.68	.80	22.7	6.7	2.63	.57	.70	.83
	650	305	27.7	8.1	1.82	.56	.69	.81	26.3	7.7	2.06	.57	.70	.83	24.9	7.3	2.33	.58	.71	.85	23.3	6.8	2.64	.59	.74	.88
	750	355	28.3	8.3	1.83	.58	.72	.85	26.9	7.9	2.06	.59	.73	.87	25.4	7.4	2.33	.60	.75	.90	23.7	6.9	2.65	.61	.78	.93
71°F (22°C)	550	260	28.7	8.4	1.83	.43	.53	.63	27.3	8.0	2.07	.43	.53	.64	25.8	7.6	2.34	.43	.54	.65	24.2	7.1	2.65	.43	.55	.67
	650	305	29.5	8.6	1.84	.43	.54	.66	28.1	8.2	2.08	.43	.55	.67	26.5	7.8	2.35	.43	.56	.69	24.8	7.3	2.66	.44	.57	.71
	750	355	30.2	8.9	1.85	.43	.56	.69	28.7	8.4	2.08	.44	.57	.71	27.1	7.9	2.35	.44	.58	.73	25.3	7.4	2.67	.44	.60	.75

HPXA12-024 - CB29M-41 - CB28UH-036 - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)	Air Temperature Entering Outdoor Coil															
	65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)			
	cfm	L/s	Total Heating Capacity kBtuh kW	Comp. Motor kW Input	Total Heating Capacity kBtuh kW	Comp. Motor kW Input	Total Heating Capacity kBtuh kW	Comp. Motor kW Input	Total Heating Capacity kBtuh kW	Comp. Motor kW Input	Total Heating Capacity kBtuh kW	Comp. Motor kW Input				
800	380	29.1	8.5	1.93	22.9	6.7	1.83	16.3	4.8	1.72	12.0	3.5	1.56	5.9	1.7	1.14
900	425	29.4	8.6	1.87	23.2	6.8	1.77	16.6	4.9	1.66	12.3	3.6	1.50	6.2	1.8	1.09
1000	470	29.7	8.7	1.83	23.5	6.9	1.73	16.9	5.0	1.62	12.6	3.7	1.46	6.5	1.9	1.04

HPXA12-024 - CVP10-26/EC10Q3 - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)	Air Temperature Entering Outdoor Coil															
	65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)			
	cfm	L/s	Total Heating Capacity kBtuh kW	Comp. Motor kW Input	Total Heating Capacity kBtuh kW	Comp. Motor kW Input	Total Heating Capacity kBtuh kW	Comp. Motor kW Input	Total Heating Capacity kBtuh kW	Comp. Motor kW Input	Total Heating Capacity kBtuh kW	Comp. Motor kW Input				
550	260	27.8	8.1	2.12	21.7	6.4	1.98	15.3	4.5	1.83	11.3	3.3	1.64	5.3	1.6	1.22
650	305	28.7	8.4	2.01	22.6	6.6	1.87	16.2	4.7	1.72	12.2	3.6	1.53	6.2	1.8	1.11
750	355	28.8	8.4	1.93	22.7	6.7	1.79	16.3	4.8	1.64	12.3	3.6	1.45	6.3	1.8	1.03

HPXA12-024 - CB29M-41 - CB28UH-036 - HEATING PERFORMANCE AT 900 cfm (425 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	1.87	29.4	8.6
60	16	1.85	28.0	8.2
55	13	1.83	26.6	7.8
50	10	1.80	25.2	7.4
47	8	1.79	24.3	7.1
45	7	1.77	23.2	6.8
40	4	1.73	20.4	6.0
35	2	1.70	17.6	5.2
30	-1	1.68	17.1	5.0
25	-4	1.66	16.6	4.9
20	-7	1.65	16.1	4.7
17	-8	1.64	15.8	4.6
15	-9	1.63	15.2	4.5
10	-12	1.61	13.8	4.0
5	-15	1.50	12.3	3.6
0	-18	1.40	10.8	3.2
-5	-21	1.30	9.3	2.7
-10	-23	1.19	7.8	2.3
-15	-26	1.09	6.2	1.8
-20	-29	.98	4.7	1.4

HPXA12-024 - CVP10-26/EC10Q3 - HEATING PERFORMANCE AT 650 cfm (305 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.01	28.7	8.4
60	16	1.98	27.3	8.0
55	13	1.95	25.9	7.6
50	10	1.91	24.6	7.2
47	8	1.89	23.8	7.0
45	7	1.87	22.6	6.6
40	4	1.82	19.8	5.8
35	2	1.77	17.0	5.0
30	-1	1.75	16.6	4.9
25	-4	1.72	16.2	4.7
20	-7	1.70	15.8	4.6
17	-8	1.68	15.6	4.6
15	-9	1.67	15.1	4.4
10	-12	1.63	13.7	4.0
5	-15	1.53	12.2	3.6
0	-18	1.42	10.7	3.1
-5	-21	1.32	9.2	2.7
-10	-23	1.22	7.7	2.3
-15	-26	1.11	6.2	1.8
-20	-29	1.01	4.7	1.4

RATINGS

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

HPXA12-024 — C33-30A/B/C - CX34-30A/B/C-6F COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C		kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C		kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C		kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C				
63°F (17°C)	550	260	25.3	7.4	1.80	.69	.81	.92	24.1	7.1	2.03	.70	.83	.94	22.8	6.7	2.30	.71	.85	.96	21.4	6.3	2.61	.73	.87	.99
	650	305	26.1	7.6	1.81	.72	.85	.97	24.9	7.3	2.04	.73	.87	.99	23.5	6.9	2.31	.75	.89	1.00	22.1	6.5	2.61	.77	.92	1.00
	750	355	26.8	7.9	1.81	.75	.89	1.00	25.5	7.5	2.04	.76	.91	1.00	24.1	7.1	2.31	.78	.93	1.00	22.6	6.6	2.62	.81	.97	1.00
67°F (19°C)	550	260	27.0	7.9	1.81	.55	.67	.77	25.8	7.6	2.05	.56	.67	.79	24.3	7.1	2.32	.57	.69	.81	22.8	6.7	2.63	.57	.70	.83
	650	305	27.8	8.1	1.82	.57	.69	.81	26.5	7.8	2.06	.57	.71	.84	25.0	7.3	2.32	.58	.72	.86	23.4	6.9	2.63	.60	.75	.89
	750	355	28.4	8.3	1.83	.58	.72	.86	27.0	7.9	2.06	.59	.74	.88	25.5	7.5	2.33	.60	.76	.90	23.8	7.0	2.64	.62	.79	.93
71°F (22°C)	550	260	28.9	8.5	1.83	.43	.53	.64	27.5	8.1	2.06	.43	.54	.65	26.0	7.6	2.33	.43	.54	.66	24.4	7.2	2.65	.43	.55	.68
	650	305	29.7	8.7	1.84	.43	.55	.67	28.2	8.3	2.07	.43	.56	.68	26.7	7.8	2.34	.43	.56	.70	25.0	7.3	2.66	.44	.58	.72
	750	355	30.2	8.9	1.84	.43	.57	.70	28.8	8.4	2.08	.43	.58	.72	27.1	7.9	2.35	.44	.59	.74	25.4	7.4	2.66	.45	.60	.76

HPXA12-024 — C33-36A/B/C - CX34-36A/B/C-6F COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C		kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C		kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C		kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C				
63°F (17°C)	550	260	25.4	7.4	1.81	.69	.80	.92	24.2	7.1	2.04	.70	.82	.94	22.8	6.7	2.31	.71	.84	.96	21.4	6.3	2.61	.73	.87	.99
	650	305	26.2	7.7	1.81	.72	.85	.96	25.0	7.3	2.04	.73	.86	.99	23.6	6.9	2.31	.74	.89	1.00	22.1	6.5	2.62	.77	.92	1.00
	750	355	26.9	7.9	1.82	.75	.89	1.00	25.6	7.5	2.05	.76	.91	1.00	24.1	7.1	2.32	.78	.94	1.00	22.6	6.6	2.63	.81	.97	1.00
67°F (19°C)	550	260	27.2	8.0	1.82	.55	.66	.77	25.8	7.6	2.06	.56	.67	.78	24.4	7.2	2.32	.56	.69	.81	22.9	6.7	2.63	.57	.70	.83
	650	305	28.0	8.2	1.83	.57	.69	.82	26.5	7.8	2.06	.57	.70	.83	25.1	7.4	2.33	.58	.72	.85	23.4	6.9	2.64	.60	.74	.89
	750	355	28.6	8.4	1.83	.58	.72	.86	27.2	8.0	2.07	.59	.74	.88	25.6	7.5	2.34	.60	.76	.90	23.9	7.0	2.65	.62	.78	.93
71°F (22°C)	550	260	29.0	8.5	1.84	.42	.53	.63	27.6	8.1	2.07	.42	.53	.64	26.1	7.6	2.34	.43	.54	.66	24.4	7.2	2.66	.43	.55	.68
	650	305	29.8	8.7	1.85	.43	.55	.66	28.4	8.3	2.08	.43	.55	.68	26.8	7.9	2.35	.43	.57	.69	25.0	7.3	2.66	.44	.58	.72
	750	355	30.5	8.9	1.85	.43	.56	.70	28.9	8.5	2.09	.44	.58	.71	27.3	8.0	2.36	.44	.59	.73	25.4	7.4	2.68	.45	.60	.76

HPXA12-024 - C33-30A/B/C - CX34-30A/B/C-6F - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil														
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
kBtuh	kW	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW				
550	260	27.7	8.1	2.28	21.8	6.4	2.12	15.5	4.5	1.95	11.4	3.3	1.75	5.5	1.6	1.30
650	305	28.2	8.3	2.16	22.3	6.5	2.00	16.0	4.7	1.83	11.9	3.5	1.63	6.0	1.8	1.18
750	355	28.6	8.4	2.07	22.7	6.7	1.91	16.4	4.8	1.75	12.3	3.6	1.54	6.4	1.9	1.10

HPXA12-024 - C33-36A/B/C - CX34-36A/B/C-6F - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil														
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
kBtuh	kW	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW				
550	260	27.7	8.1	2.19	21.8	6.4	2.04	15.5	4.5	1.89	11.3	3.3	1.69	5.5	1.6	1.27
650	305	28.2	8.3	2.07	22.3	6.5	1.92	16.0	4.7	1.77	11.8	3.5	1.57	6.0	1.8	1.15
750	355	28.6	8.4	1.98	22.7	6.7	1.84	16.4	4.8	1.69	12.2	3.6	1.49	6.4	1.9	1.06

HPXA12-024 - C33-30A/B/C - CX34-30A/B/C-6F - HEATING PERFORMANCE at 650 cfm (305 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.16	28.2	8.3
60	16	2.12	26.8	7.9
55	13	2.08	25.5	7.5
50	10	2.04	24.1	7.1
47	8	2.02	23.3	6.8
45	7	2.00	22.3	6.5
40	4	1.94	19.6	5.7
35	2	1.89	17.0	5.0
30	-1	1.86	16.5	4.8
25	-4	1.83	16.0	4.7
20	-7	1.81	15.5	4.5
17	-8	1.79	15.2	4.5
15	-9	1.77	14.7	4.3
10	-12	1.74	13.4	3.9
5	-15	1.63	11.9	3.5
0	-18	1.52	10.4	3.0
-5	-21	1.41	9.0	2.6
-10	-23	1.30	7.5	2.2
-15	-26	1.18	6.0	1.8
-20	-29	1.07	4.6	1.3

HPXA12-024 - C33-36A/B/C - CX34-36A/B/C-6F - HEATING PERFORMANCE at 650 cfm (305 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.07	28.2	8.3
60	16	2.03	26.8	7.9
55	13	2.00	25.5	7.5
50	10	1.96	24.1	7.1
47	8	1.94	23.3	6.8
45	7	1.92	22.3	6.5
40	4	1.87	19.6	5.7
35	2	1.82	16.9	5.0
30	-1	1.80	16.4	4.8
25	-4	1.77	16.0	4.7
20	-7	1.75	15.5	4.5
17	-8	1.73	15.2	4.5
15	-9	1.72	14.6	4.3
10	-12	1.68	13.3	3.9
5	-15	1.57	11.8	3.5
0	-18	1.47	10.4	3.0
-5	-21	1.36	8.9	2.6
-10	-23	1.25	7.5	2.2
-15	-26	1.15	6.0	1.8
-20	-29	1.04	4.6	1.3

RATINGS

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

HPXA12-030 — CB29M-41 - CB28UH-036 COOLING CAPACITY

Entering Wet Bulb Temperature	Outdoor Air Temperature Entering Outdoor Coil																									
	Total Air Volume		85°F (29°C)					95°F (35°C)					105°F (41°C)					115°F (46°C)								
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb					
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh		kW	75°F 24°C	80°F 27°C	85°F 29°C		kBtuh	kW	75°F 24°C	80°F 27°C		85°F 29°C	kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	850	400	28.5	8.4	1.91	.73	.87	.99	27.2	8.0	2.16	.74	.89	1.00	25.9	7.6	2.44	.76	.91	1.00	24.4	7.2	2.78	.78	.94	1.00
	1050	495	29.5	8.6	1.91	.78	.93	1.00	28.2	8.3	2.16	.80	.95	1.00	26.8	7.9	2.45	.82	.98	1.00	25.3	7.4	2.79	.84	1.00	1.00
	1250	590	30.3	8.9	1.91	.83	.98	1.00	29.1	8.5	2.17	.85	.99	1.00	27.7	8.1	2.45	.87	1.00	1.00	26.3	7.7	2.79	.90	1.00	1.00
67°F (19°C)	850	400	30.3	8.9	1.91	.57	.70	.83	28.9	8.5	2.17	.58	.72	.86	27.4	8.0	2.46	.59	.73	.88	25.8	7.6	2.79	.60	.76	.91
	1050	495	31.1	9.1	1.92	.60	.75	.91	29.7	8.7	2.17	.61	.77	.92	28.1	8.2	2.46	.62	.79	.95	26.5	7.8	2.80	.64	.82	.98
	1250	590	31.7	9.3	1.92	.63	.81	.96	30.3	8.9	2.18	.64	.83	.98	28.7	8.4	2.46	.65	.85	.99	27.0	7.9	2.80	.68	.88	1.00
71°F (22°C)	850	400	32.2	9.4	1.93	.42	.55	.68	30.8	9.0	2.18	.43	.56	.69	29.2	8.6	2.47	.43	.57	.71	27.5	8.1	2.81	.44	.58	.73
	1050	495	33.1	9.7	1.93	.43	.58	.73	31.6	9.3	2.19	.44	.60	.75	29.9	8.8	2.48	.44	.61	.77	28.2	8.3	2.81	.45	.62	.80
	1250	590	33.7	9.9	1.94	.45	.61	.78	32.1	9.4	2.19	.45	.63	.80	30.4	8.9	2.48	.46	.64	.83	28.6	8.4	2.82	.46	.66	.86

HPXA12-030 — CBX32MV-024/030 - CB30M-31 - CB30U-31 - CBX32M-030 COOLING CAPACITY

Entering Wet Bulb Temperature	Outdoor Air Temperature Entering Outdoor Coil																									
	Total Air Volume		85°F (29°C)					95°F (35°C)					105°F (41°C)					115°F (46°C)								
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb					
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh		kW	75°F 24°C	80°F 27°C	85°F 29°C		kBtuh	kW	75°F 24°C	80°F 27°C		85°F 29°C	kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	800	380	29.2	8.6	1.90	.73	.87	.99	27.9	8.2	2.15	.75	.89	1.00	26.5	7.8	2.44	.76	.91	1.00	24.9	7.3	2.78	.79	.94	1.00
	1000	470	30.4	8.9	1.91	.79	.94	1.00	29.0	8.5	2.16	.81	.96	1.00	27.5	8.1	2.45	.83	.99	1.00	25.9	7.6	2.78	.85	1.00	1.00
	1200	565	31.3	9.2	1.92	.84	1.00	1.00	29.9	8.8	2.17	.86	1.00	1.00	28.6	8.4	2.45	.88	1.00	1.00	27.0	7.9	2.79	.91	1.00	1.00
67°F (19°C)	800	380	31.2	9.1	1.92	.58	.71	.84	29.7	8.7	2.17	.58	.72	.86	28.2	8.3	2.45	.59	.74	.88	26.5	7.8	2.79	.60	.76	.91
	1000	470	32.2	9.4	1.92	.61	.76	.91	30.7	9.0	2.18	.62	.78	.93	29.0	8.5	2.46	.63	.80	.96	27.3	8.0	2.79	.65	.83	.99
	1200	565	32.9	9.6	1.93	.64	.82	.97	31.4	9.2	2.18	.65	.84	.99	29.7	8.7	2.47	.67	.86	1.00	27.8	8.1	2.80	.69	.90	1.00
71°F (22°C)	800	380	33.3	9.8	1.93	.43	.56	.68	31.8	9.3	2.18	.44	.56	.70	30.1	8.8	2.47	.44	.58	.72	28.3	8.3	2.81	.44	.59	.74
	1000	470	34.3	10.1	1.94	.44	.59	.74	32.7	9.6	2.19	.45	.60	.76	30.9	9.1	2.48	.45	.62	.78	29.1	8.5	2.81	.46	.63	.81
	1200	565	35.0	10.3	1.94	.46	.63	.79	33.3	9.8	2.20	.46	.64	.82	31.5	9.2	2.48	.47	.66	.84	29.6	8.7	2.82	.48	.68	.87

HPXA12-030 - CB29M-41 - CB28UH-036 - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)	Air Temperature Entering Outdoor Coil															
	65°F (18°C)		45°F (7°C)			25°F (-4°C)			5°F (-15°C)		-15°F (-26°C)					
	cfm	L/s	Total Heating Capacity kBtuh	kW	Comp. Motor kW Input	Total Heating Capacity kBtuh	kW	Comp. Motor kW Input	Total Heating Capacity kBtuh	kW	Comp. Motor kW Input	Total Heating Capacity kBtuh	kW	Comp. Motor kW Input	Total Heating Capacity kBtuh	kW
850	400	35.9	10.5	2.38	27.7	8.1	2.30	19.1	5.6	2.21	13.8	4.0	2.05	6.7	2.0	1.51
1050	495	36.6	10.7	2.25	28.4	8.3	2.17	19.8	5.8	2.08	14.5	4.2	1.92	7.4	2.2	1.38
1250	590	37.1	10.9	2.16	28.9	8.5	2.08	20.3	5.9	1.99	15.0	4.4	1.83	7.9	2.3	1.29

HPXA12-030 - CBX32MV-024/030 - CB30M-31 - CB30U-31 - CBX32M-030 - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)	Air Temperature Entering Outdoor Coil															
	65°F (18°C)		45°F (7°C)			25°F (-4°C)			5°F (-15°C)		-15°F (-26°C)					
	cfm	L/s	Total Heating Capacity kBtuh	kW	Comp. Motor kW Input	Total Heating Capacity kBtuh	kW	Comp. Motor kW Input	Total Heating Capacity kBtuh	kW	Comp. Motor kW Input	Total Heating Capacity kBtuh	kW	Comp. Motor kW Input	Total Heating Capacity kBtuh	kW
800	380	34.4	10.1	2.19	26.5	7.8	2.10	18.1	5.3	2.00	12.9	3.8	1.85	6.3	1.8	1.37
1000	470	35.1	10.3	2.05	27.2	8.0	1.96	18.8	5.5	1.87	13.6	4.0	1.71	7.0	2.1	1.24
1200	565	35.7	10.5	1.97	27.8	8.1	1.88	19.4	5.7	1.78	14.2	4.2	1.63	7.6	2.2	1.15

HPXA12-030 - CB29M-41 - CB28UH-036 - HEATING PERFORMANCE AT 1050 cfm (495 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.25	36.6	10.7
60	16	2.23	34.7	10.2
55	13	2.21	32.9	9.6
50	10	2.19	31.0	9.1
47	8	2.18	29.9	8.8
45	7	2.17	28.4	8.3
40	4	2.13	24.7	7.2
35	2	2.09	21.0	6.2
30	-1	2.09	20.4	6.0
25	-4	2.08	19.8	5.8
20	-7	2.08	19.2	5.6
17	-8	2.08	18.8	5.5
15	-9	2.07	18.1	5.3
10	-12	2.06	16.2	4.7
5	-15	1.92	14.5	4.2
0	-18	1.79	12.7	3.7
-5	-21	1.65	10.9	3.2
-10	-23	1.52	9.2	2.7
-15	-26	1.38	7.4	2.2
-20	-29	1.25	5.6	1.6

HPXA12-030 - CBX32MV-024/030 - CB30M/U-31 - CBX32M-030 HEATING PERFORMANCE @ 1000 cfm (470 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.05	35.1	10.3
60	16	2.03	33.3	9.8
55	13	2.01	31.5	9.2
50	10	1.99	29.7	8.7
47	8	1.98	28.6	8.4
45	7	1.96	27.2	8.0
40	4	1.92	23.6	6.9
35	2	1.88	20.0	5.9
30	-1	1.87	19.4	5.7
25	-4	1.87	18.8	5.5
20	-7	1.86	18.2	5.3
17	-8	1.86	17.8	5.2
15	-9	1.85	17.1	5.0
10	-12	1.83	15.3	4.5
5	-15	1.71	13.6	4.0
0	-18	1.59	12.0	3.5
-5	-21	1.47	10.3	3.0
-10	-23	1.35	8.7	2.5
-15	-26	1.24	7.0	2.1
-20	-29	1.12	5.3	1.6

RATINGS

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

HPXA12-030 — CB30M-41 - CB30U-41/46 - CBX32M-036 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	850	400	29.9	8.8	1.91	.75	.89	1.00	28.5	8.4	2.16	.76	.91	1.00	27.0	7.9	2.45	.78	.93	1.00	25.4	7.4	2.78	.80	.96	1.00
	1050	495	31.0	9.1	1.92	.80	.96	1.00	29.5	8.6	2.17	.82	.98	1.00	28.0	8.2	2.45	.84	1.00	1.00	26.5	7.8	2.79	.87	1.00	1.00
	1250	590	31.9	9.3	1.92	.85	1.00	1.00	30.5	8.9	2.17	.87	1.00	1.00	29.1	8.5	2.46	.90	1.00	1.00	27.6	8.1	2.79	.93	1.00	1.00
67°F (19°C)	850	400	31.8	9.3	1.92	.58	.72	.86	30.3	8.9	2.17	.59	.74	.88	28.7	8.4	2.46	.60	.75	.90	27.0	7.9	2.79	.62	.78	.93
	1050	495	32.8	9.6	1.93	.62	.78	.93	31.2	9.1	2.18	.62	.79	.95	29.5	8.6	2.47	.64	.82	.98	27.7	8.1	2.80	.66	.85	1.00
	1250	590	33.5	9.8	1.93	.65	.83	.99	31.9	9.3	2.18	.66	.85	1.00	30.1	8.8	2.47	.68	.88	1.00	28.3	8.3	2.80	.70	.91	1.00
71°F (22°C)	850	400	34.0	10.0	1.94	.44	.56	.69	32.4	9.5	2.19	.44	.58	.71	30.7	9.0	2.48	.44	.58	.73	28.8	8.4	2.81	.45	.60	.75
	1050	495	34.9	10.2	1.95	.45	.60	.75	33.3	9.8	2.20	.45	.61	.77	31.5	9.2	2.48	.46	.62	.79	29.5	8.6	2.82	.46	.65	.82
	1250	590	35.6	10.4	1.95	.46	.64	.81	33.9	9.9	2.20	.47	.65	.83	32.0	9.4	2.49	.47	.67	.86	30.0	8.8	2.82	.48	.69	.88

HPXA12-030 — CB30M-46 - CBX32M-042 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	850	400	29.9	8.8	1.91	.72	.86	.99	28.5	8.4	2.16	.74	.89	1.00	27.0	7.9	2.45	.76	.91	1.00	25.4	7.4	2.78	.78	.94	1.00
	1050	495	31.0	9.1	1.92	.78	.94	1.00	29.5	8.6	2.17	.80	.96	1.00	28.0	8.2	2.45	.82	.99	1.00	26.5	7.8	2.79	.84	1.00	1.00
	1250	590	31.9	9.3	1.92	.83	.99	1.00	30.5	8.9	2.17	.85	1.00	1.00	29.1	8.5	2.46	.88	1.00	1.00	27.6	8.1	2.79	.91	1.00	1.00
67°F (19°C)	850	400	31.8	9.3	1.92	.57	.70	.83	30.3	8.9	2.17	.58	.72	.85	28.7	8.4	2.46	.58	.73	.88	27.0	7.9	2.79	.60	.76	.91
	1050	495	32.8	9.6	1.93	.60	.75	.91	31.2	9.1	2.18	.61	.77	.93	29.5	8.6	2.47	.62	.80	.95	27.7	8.1	2.80	.64	.82	.99
	1250	590	33.5	9.8	1.93	.63	.81	.97	31.9	9.3	2.18	.64	.83	.99	30.1	8.8	2.47	.66	.86	1.00	28.3	8.3	2.80	.68	.89	1.00
71°F (22°C)	850	400	34.0	10.0	1.94	.42	.55	.67	32.4	9.5	2.19	.42	.56	.69	30.7	9.0	2.48	.43	.57	.71	28.8	8.4	2.81	.43	.58	.73
	1050	495	34.9	10.2	1.95	.43	.58	.73	33.3	9.8	2.20	.44	.59	.75	31.5	9.2	2.48	.44	.61	.77	29.5	8.6	2.82	.45	.63	.80
	1250	590	35.6	10.4	1.95	.45	.62	.79	33.9	9.9	2.20	.45	.63	.80	32.0	9.4	2.49	.46	.65	.84	30.0	8.8	2.82	.47	.67	.86

HPXA12-030 - CB30M-41 - CB30U-41/46 - CBX32M-036 - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil																			
		65°F (18°C)				45°F (7°C)				25°F (-4°C)				5°F (-15°C)				-15°F (-26°C)			
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input		
kBtuh	kW	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW			
850	400	34.6	10.1	2.10	26.7	7.8	2.02	18.3	5.4	1.93	13.1	3.8	1.78	6.4	1.9	1.32					
1050	495	35.2	10.3	1.98	27.3	8.0	1.90	18.9	5.5	1.81	13.7	4.0	1.66	7.0	2.1	1.20					
1250	590	35.8	10.5	1.91	27.9	8.2	1.82	19.5	5.7	1.73	14.3	4.2	1.59	7.6	2.2	1.12					

HPXA12-030 - CB30M-46 - CBX32M-042 - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil																			
		65°F (18°C)				45°F (7°C)				25°F (-4°C)				5°F (-15°C)				-15°F (-26°C)			
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input		
kBtuh	kW	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW			
850	400	34.8	10.2	2.10	26.8	7.9	2.02	18.4	5.4	1.93	13.2	3.9	1.78	6.5	1.9	1.32					
1050	495	35.4	10.4	1.98	27.4	8.0	1.90	19.0	5.6	1.81	13.8	4.0	1.66	7.1	2.1	1.20					
1250	590	36.0	10.6	1.91	28.0	8.2	1.82	19.6	5.7	1.73	14.4	4.2	1.59	7.7	2.3	1.12					

HPXA12-030 - CB30M-41-CB30U-41/46 - CBX32M-036 - HEATING PERFORMANCE at 1050 cfm (495 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	1.98	35.2	10.3
60	16	1.96	33.4	9.8
55	13	1.94	31.6	9.3
50	10	1.93	29.8	8.7
47	8	1.91	28.7	8.4
45	7	1.90	27.3	8.0
40	4	1.86	23.7	6.9
35	2	1.81	20.1	5.9
30	-1	1.81	19.5	5.7
25	-4	1.81	18.9	5.5
20	-7	1.81	18.3	5.4
17	-8	1.80	17.9	5.2
15	-9	1.80	17.2	5.0
10	-12	1.78	15.4	4.5
5	-15	1.66	13.7	4.0
0	-18	1.55	12.1	3.5
-5	-21	1.43	10.4	3.0
-10	-23	1.32	8.7	2.5
-15	-26	1.20	7.0	2.1
-20	-29	1.08	5.4	1.6

HPXA12-030 - CB30M-46 - CBX32M-042 - HEATING PERFORMANCE at 1050 cfm (495 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	1.98	35.4	10.4
60	16	1.96	33.6	9.8
55	13	1.94	31.7	9.3
50	10	1.93	29.9	8.8
47	8	1.91	28.9	8.5
45	7	1.90	27.4	8.0
40	4	1.86	23.8	7.0
35	2	1.81	20.2	5.9
30	-1	1.81	19.6	5.7
25	-4	1.81	19.0	5.6
20	-7	1.81	18.4	5.4
17	-8	1.80	18.0	5.3
15	-9	1.80	17.3	5.1
10	-12	1.78	15.5	4.5
5	-15	1.66	13.8	4.0
0	-18	1.55	12.1	3.5
-5	-21	1.43	10.5	3.1
-10	-23	1.32	8.8	2.6
-15	-26	1.20	7.1	2.1
-20	-29	1.08	5.4	1.6

RATINGS

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

HPXA12-030 — CB31MV-41 - CBX32MV-036 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	900	425	30.2	8.9	1.91	.77	.91	1.00	28.8	8.4	2.16	.79	.94	1.00	27.3	8.0	2.45	.80	.96	1.00	25.6	7.5	2.78	.83	.99	1.00
	1090	515	31.1	9.1	1.92	.82	.98	1.00	29.7	8.7	2.17	.84	1.00	1.00	28.2	8.3	2.45	.86	1.00	1.00	26.7	7.8	2.79	.89	1.00	1.00
	1275	600	32.0	9.4	1.86	.87	1.00	1.00	30.7	9.0	2.10	.89	1.00	1.00	29.3	8.6	2.38	.91	1.00	1.00	27.7	8.1	2.70	.94	1.00	1.00
67°F (19°C)	900	425	32.1	9.4	1.92	.60	.74	.88	30.6	9.0	2.18	.61	.76	.91	29.0	8.5	2.46	.62	.78	.93	27.2	8.0	2.79	.63	.80	.96
	1090	515	33.0	9.7	1.93	.63	.79	.95	31.4	9.2	2.18	.64	.81	.97	29.7	8.7	2.47	.65	.84	1.00	27.8	8.1	2.80	.67	.87	1.00
	1275	600	33.6	9.8	1.87	.66	.84	1.00	31.9	9.3	2.11	.67	.87	1.00	30.2	8.9	2.39	.69	.89	1.00	28.3	8.3	2.71	.71	.92	1.00
71°F (22°C)	900	425	34.3	10.1	1.94	.44	.58	.71	32.6	9.6	2.19	.44	.59	.73	30.9	9.1	2.48	.45	.60	.75	29.0	8.5	2.81	.45	.62	.78
	1090	515	35.1	10.3	1.95	.45	.61	.77	33.4	9.8	2.20	.46	.63	.79	31.6	9.3	2.49	.46	.64	.81	29.6	8.7	2.82	.47	.66	.84
	1275	600	35.7	10.5	1.89	.47	.65	.82	33.9	9.9	2.13	.47	.66	.85	32.1	9.4	2.41	.48	.68	.87	30.1	8.8	2.73	.49	.70	.90

HPXA12-030 — CVP10-46/EC10Q4 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	850	400	29.6	8.7	1.90	.74	.89	1.00	28.3	8.3	2.15	.76	.90	1.00	26.8	7.9	2.44	.78	.93	1.00	25.2	7.4	2.78	.80	.96	1.00
	1050	495	30.7	9.0	1.91	.80	.96	1.00	29.3	8.6	2.16	.81	.98	1.00	27.8	8.1	2.45	.84	1.00	1.00	26.3	7.7	2.78	.86	1.00	1.00
	1250	590	31.7	9.3	1.92	.85	1.00	1.00	30.3	8.9	2.17	.87	1.00	1.00	28.9	8.5	2.45	.89	1.00	1.00	27.4	8.0	2.79	.93	1.00	1.00
67°F (19°C)	850	400	31.6	9.3	1.92	.58	.72	.85	30.1	8.8	2.17	.59	.74	.87	28.5	8.4	2.46	.60	.75	.90	26.8	7.9	2.79	.61	.77	.93
	1050	495	32.6	9.6	1.93	.61	.77	.92	31.0	9.1	2.18	.62	.79	.95	29.4	8.6	2.46	.64	.81	.97	27.6	8.1	2.80	.65	.84	1.00
	1250	590	33.3	9.8	1.93	.65	.83	.98	31.7	9.3	2.18	.66	.85	1.00	30.0	8.8	2.47	.68	.87	1.00	28.1	8.2	2.80	.70	.90	1.00
71°F (22°C)	850	400	33.7	9.9	1.93	.44	.56	.69	32.2	9.4	2.18	.44	.57	.71	30.5	8.9	2.47	.44	.59	.73	28.6	8.4	2.81	.45	.60	.75
	1050	495	34.7	10.2	1.94	.45	.60	.75	33.1	9.7	2.19	.45	.61	.77	31.3	9.2	2.48	.46	.62	.79	29.4	8.6	2.81	.46	.64	.82
	1250	590	35.4	10.4	1.95	.46	.63	.80	33.7	9.9	2.20	.46	.65	.83	31.9	9.3	2.49	.47	.66	.85	29.9	8.8	2.82	.48	.69	.88

HPXA12-030 - CB31MV-41 - CBX32MV-036 - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil														
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
cfm	L/s	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
900	425	34.4	10.1	2.07	26.5	7.8	1.98	18.1	5.3	1.88	13.0	3.8	1.73	6.6	1.9	1.27
1010	475	34.7	10.2	2.01	26.8	7.9	1.92	18.4	5.4	1.82	13.3	3.9	1.67	6.9	2.0	1.21
1275	600	35.6	10.4	1.90	27.7	8.1	1.81	19.3	5.7	1.72	14.2	4.2	1.57	7.8	2.3	1.10

HPXA12-030 - CVP10-46/EC10Q4 - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil														
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
cfm	L/s	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
850	400	34.7	10.2	2.10	26.8	7.9	2.01	18.4	5.4	1.92	13.3	3.9	1.77	6.6	1.9	1.31
1050	495	35.2	10.3	1.99	27.3	8.0	1.90	18.9	5.5	1.81	13.8	4.0	1.66	7.1	2.1	1.20
1250	590	35.7	10.5	1.91	27.8	8.1	1.82	19.4	5.7	1.73	14.3	4.2	1.58	7.6	2.2	1.12

HPXA12-030 - CB31MV-41 - CBX32MV-036 - HEATING PERFORMANCE at 1010 cfm (475 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.01	34.7	10.2
60	16	1.99	32.9	9.6
55	13	1.97	31.1	9.1
50	10	1.95	29.3	8.6
47	8	1.94	28.2	8.3
45	7	1.92	26.8	7.9
40	4	1.87	23.2	6.8
35	2	1.83	19.6	5.7
30	-1	1.83	19.0	5.6
25	-4	1.82	18.4	5.4
20	-7	1.82	17.8	5.2
17	-8	1.82	17.5	5.1
15	-9	1.81	16.7	4.9
10	-12	1.79	14.9	4.4
5	-15	1.67	13.3	3.9
0	-18	1.56	11.7	3.4
-5	-21	1.44	10.1	3.0
-10	-23	1.32	8.5	2.5
-15	-26	1.21	6.9	2.0
-20	-29	1.09	5.2	1.5

HPXA12-030 - CVP10-46/EC10Q4 - HEATING PERFORMANCE at 1050 cfm (495 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	1.99	35.2	10.3
60	16	1.97	33.4	9.8
55	13	1.95	31.6	9.3
50	10	1.93	29.9	8.8
47	8	1.92	28.8	8.4
45	7	1.90	27.3	8.0
40	4	1.86	23.7	6.9
35	2	1.81	20.1	5.9
30	-1	1.81	19.5	5.7
25	-4	1.81	18.9	5.5
20	-7	1.80	18.4	5.4
17	-8	1.80	18.0	5.3
15	-9	1.79	17.3	5.1
10	-12	1.77	15.5	4.5
5	-15	1.66	13.8	4.0
0	-18	1.54	12.1	3.5
-5	-21	1.43	10.5	3.1
-10	-23	1.31	8.8	2.6
-15	-26	1.20	7.1	2.1
-20	-29	1.08	5.4	1.6

RATINGS

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

HPXA12-030 — CVP10-31/EC10Q3 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
cfm	L/s	kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	850	400	29.1	8.5	1.90	.75	.89	1.00	27.9	8.2	2.15	.76	.91	1.00	26.4	7.7	2.44	.78	.93	1.00	24.9	7.3	2.77	.80	.96	1.00
	1050	495	30.2	8.9	1.91	.80	.96	1.00	28.9	8.5	2.16	.82	.97	1.00	27.4	8.0	2.44	.84	1.00	1.00	25.9	7.6	2.78	.86	1.00	1.00
	1250	590	31.2	9.1	1.91	.85	1.00	1.00	29.8	8.7	2.16	.87	1.00	1.00	28.5	8.4	2.45	.89	1.00	1.00	27.0	7.9	2.78	.93	1.00	1.00
67°F (19°C)	850	400	31.0	9.1	1.91	.58	.72	.86	29.6	8.7	2.16	.59	.73	.88	28.1	8.2	2.45	.60	.75	.90	26.4	7.7	2.78	.61	.78	.93
	1050	495	32.0	9.4	1.92	.61	.77	.92	30.5	8.9	2.17	.62	.79	.94	28.9	8.5	2.46	.64	.82	.97	27.1	7.9	2.79	.65	.84	1.00
	1250	590	32.6	9.6	1.92	.64	.83	.98	31.1	9.1	2.17	.66	.85	1.00	29.4	8.6	2.46	.67	.87	1.00	27.7	8.1	2.79	.69	.90	1.00
71°F (22°C)	850	400	33.1	9.7	1.93	.43	.56	.69	31.6	9.3	2.18	.44	.57	.71	30.0	8.8	2.46	.44	.58	.73	28.2	8.3	2.80	.45	.60	.75
	1050	495	34.0	10.0	1.93	.45	.60	.75	32.5	9.5	2.18	.45	.61	.77	30.8	9.0	2.47	.46	.62	.79	28.9	8.5	2.80	.46	.64	.82
	1250	590	34.7	10.2	1.94	.46	.63	.81	33.0	9.7	2.19	.47	.65	.83	31.3	9.2	2.48	.47	.66	.85	29.4	8.6	2.81	.48	.68	.88

HPXA12-030 — CVP10-41/EC10Q3 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
cfm	L/s	kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	850	400	29.6	8.7	1.90	.74	.89	1.00	28.3	8.3	2.15	.76	.90	1.00	26.8	7.9	2.44	.78	.93	1.00	25.2	7.4	2.78	.80	.96	1.00
	1050	495	30.7	9.0	1.91	.80	.96	1.00	29.3	8.6	2.16	.81	.98	1.00	27.8	8.1	2.45	.84	1.00	1.00	26.3	7.7	2.78	.86	1.00	1.00
	1250	590	31.7	9.3	1.92	.85	1.00	1.00	30.3	8.9	2.17	.87	1.00	1.00	28.9	8.5	2.45	.89	1.00	1.00	27.4	8.0	2.79	.93	1.00	1.00
67°F (19°C)	850	400	31.6	9.3	1.92	.58	.72	.85	30.1	8.8	2.17	.59	.74	.87	28.5	8.4	2.46	.60	.75	.90	26.8	7.9	2.79	.61	.77	.93
	1050	495	32.6	9.6	1.93	.61	.77	.92	31.0	9.1	2.18	.62	.79	.95	29.4	8.6	2.46	.64	.81	.97	27.6	8.1	2.80	.65	.84	1.00
	1250	590	33.3	9.8	1.93	.65	.83	.98	31.7	9.3	2.18	.66	.85	1.00	30.0	8.8	2.47	.68	.87	1.00	28.1	8.2	2.80	.70	.90	1.00
71°F (22°C)	850	400	33.7	9.9	1.93	.44	.56	.69	32.2	9.4	2.18	.44	.57	.71	30.5	8.9	2.47	.44	.59	.73	28.6	8.4	2.81	.45	.60	.75
	1050	495	34.7	10.2	1.94	.45	.60	.75	33.1	9.7	2.19	.45	.61	.77	31.3	9.2	2.48	.46	.62	.79	29.4	8.6	2.81	.46	.64	.82
	1250	590	35.4	10.4	1.95	.46	.63	.80	33.7	9.9	2.20	.46	.65	.83	31.9	9.3	2.49	.47	.66	.85	29.9	8.8	2.82	.48	.69	.88

HPXA12-030 - CVP10-31/EC10Q3 - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)	Total Air Volume		Air Temperature Entering Outdoor Coil																			
			65°F (18°C)				45°F (7°C)				25°F (-4°C)				5°F (-15°C)				-15°F (-26°C)			
			Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input		
cfm	L/s	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW					
850	400	34.8	10.2	2.17	26.8	7.9	2.08	18.4	5.4	1.98	13.3	3.9	1.82	6.5	1.9	1.35	1.35					
1050	495	35.5	10.4	2.05	27.5	8.1	1.96	19.1	5.6	1.86	14.0	4.1	1.70	7.2	2.1	1.23	1.23					
1250	590	35.9	10.5	1.97	27.9	8.2	1.88	19.5	5.7	1.78	14.4	4.2	1.62	7.6	2.2	1.15	1.15					

HPXA12-030 - CVP10-41/EC10Q3 - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)	Total Air Volume		Air Temperature Entering Outdoor Coil																			
			65°F (18°C)				45°F (7°C)				25°F (-4°C)				5°F (-15°C)				-15°F (-26°C)			
			Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input					
cfm	L/s	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW							
850	400	34.5	10.1	2.10	26.6	7.8	2.01	18.2	5.3	1.92	13.1	3.8	1.77	6.4	1.9	1.31						
1050	495	35.2	10.3	1.99	27.3	8.0	1.90	18.9	5.5	1.81	13.8	4.0	1.66	7.1	2.1	1.20						
1250	590	35.7	10.5	1.91	27.8	8.1	1.82	19.4	5.7	1.73	14.3	4.2	1.58	7.6	2.2	1.12						

HPXA12-030 - CVP10-31/EC10Q3 - HEATING PERFORMANCE AT 1050 cfm (495 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input				Total Output	
°F	°C	kW Input		kBtuh	kW	kBtuh	kW
65	18	2.05		35.5	10.4		
60	16	2.03		33.7	9.9		
55	13	2.01		31.9	9.3		
50	10	1.99		30.1	8.8		
47	8	1.97		29.0	8.5		
45	7	1.96		27.5	8.1		
40	4	1.91		23.9	7.0		
35	2	1.87		20.3	5.9		
30	-1	1.86		19.7	5.8		
25	-4	1.86		19.1	5.6		
20	-7	1.85		18.5	5.4		
17	-8	1.85		18.2	5.3		
15	-9	1.84		17.5	5.1		
10	-12	1.82		15.7	4.6		
5	-15	1.70		14.0	4.1		
0	-18	1.58		12.3	3.6		
-5	-21	1.46		10.6	3.1		
-10	-23	1.34		8.9	2.6		
-15	-26	1.23		7.2	2.1		
-20	-29	1.11		5.5	1.6		

HPXA12-030 - CVP10-41/EC10Q3 - HEATING PERFORMANCE AT 1050 cfm (495 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input				Total Output	
°F	°C	kW Input		kBtuh	kW	kBtuh	kW
65	18	1.99		35.2	10.3		
60	16	1.97		33.4	9.8		
55	13	1.95		31.6	9.3		
50	10	1.93		29.9	8.8		
47	8	1.92		28.8	8.4		
45	7	1.90		27.3	8.0		
40	4	1.86		23.7	6.9		
35	2	1.81		20.1	5.9		
30	-1	1.81		19.5	5.7		
25	-4	1.81		18.9	5.5		
20	-7	1.80		18.4	5.4		
17	-8	1.80		18.0	5.3		
15	-9	1.79		17.3	5.1		
10	-12	1.77		15.5	4.5		
5	-15	1.66		13.8	4.0		
0	-18	1.54		12.1	3.5		
-5	-21	1.43		10.5	3.1		
-10	-23	1.31		8.8	2.6		
-15	-26	1.20		7.1	2.1		
-20	-29	1.08		5.4	1.6		

RATINGS

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

HPXA12-030 — C33-36A/B/C - CX34-36A/B/C-6F - C33-42B - CX34-42B-6F COOLING CAPACITY

Entering Wet Bulb Temperature	Outdoor Air Temperature Entering Outdoor Coil																									
	Total Air Volume		85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
	cfm	L/s	Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity	Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity	Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity	Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb					
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C			kBtuh	kW	75°F 24°C			80°F 27°C	85°F 29°C	kBtuh			kW	75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW
63°F (17°C)	850	400	29.4	8.6	1.90	.75	.89	1.00	28.1	8.2	2.15	.76	.91	1.00	26.7	7.8	2.44	.78	.93	1.00	25.2	7.4	2.77	.80	.95	1.00
	1050	495	30.4	8.9	1.90	.80	.95	1.00	29.1	8.5	2.15	.82	.97	1.00	27.6	8.1	2.44	.84	.99	1.00	26.1	7.6	2.78	.86	1.00	1.00
	1250	590	31.3	9.2	1.91	.85	1.00	1.00	30.0	8.8	2.16	.87	1.00	1.00	28.6	8.4	2.45	.89	1.00	1.00	27.1	7.9	2.78	.92	1.00	1.00
67°F (19°C)	850	400	31.2	9.1	1.91	.58	.72	.86	29.8	8.7	2.16	.59	.74	.87	28.3	8.3	2.45	.60	.75	.90	26.6	7.8	2.78	.61	.77	.93
	1050	495	32.0	9.4	1.92	.61	.78	.92	30.6	9.0	2.17	.62	.79	.94	29.0	8.5	2.45	.63	.81	.97	27.3	8.0	2.79	.65	.84	.99
	1250	590	32.7	9.6	1.92	.64	.83	.98	31.2	9.1	2.17	.66	.85	.99	29.5	8.6	2.46	.67	.87	1.00	27.8	8.1	2.79	.69	.90	1.00
71°F (22°C)	850	400	33.2	9.7	1.92	.43	.57	.70	31.8	9.3	2.17	.44	.57	.71	30.1	8.8	2.46	.44	.58	.73	28.4	8.3	2.79	.44	.60	.75
	1050	495	34.1	10.0	1.93	.44	.60	.75	32.5	9.5	2.18	.45	.61	.77	30.8	9.0	2.47	.46	.63	.79	29.0	8.5	2.80	.46	.64	.82
	1250	590	34.7	10.2	1.93	.46	.63	.80	33.1	9.7	2.18	.46	.65	.83	31.3	9.2	2.48	.47	.66	.85	29.4	8.6	2.81	.48	.69	.88

HPXA12-030 — C33-38A/B - CX34-38A/B - C33-44C COOLING CAPACITY

Entering Wet Bulb Temperature	Outdoor Air Temperature Entering Outdoor Coil																									
	Total Air Volume		85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
	cfm	L/s	Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity	Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity	Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity	Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb					
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C			kBtuh	kW	75°F 24°C			80°F 27°C	85°F 29°C	kBtuh			kW	75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW
63°F (17°C)	850	400	29.9	8.8	1.90	.73	.87	.99	28.6	8.4	2.15	.75	.89	1.00	27.1	7.9	2.44	.77	.92	1.00	25.4	7.4	2.78	.79	.94	1.00
	1050	495	31.0	9.1	1.91	.78	.94	1.00	29.6	8.7	2.16	.80	.96	1.00	28.1	8.2	2.45	.82	.98	1.00	26.5	7.8	2.78	.85	1.00	1.00
	1250	590	32.0	9.4	1.92	.83	.99	1.00	30.6	9.0	2.17	.86	1.00	1.00	29.2	8.6	2.46	.88	1.00	1.00	27.6	8.1	2.79	.91	1.00	1.00
67°F (19°C)	850	400	31.9	9.3	1.92	.57	.71	.84	30.4	8.9	2.17	.58	.72	.86	28.8	8.4	2.46	.59	.74	.88	27.0	7.9	2.79	.60	.76	.91
	1050	495	32.8	9.6	1.93	.60	.76	.91	31.3	9.2	2.18	.62	.78	.93	29.6	8.7	2.46	.63	.80	.96	27.8	8.1	2.80	.64	.83	.98
	1250	590	33.5	9.8	1.93	.63	.81	.97	31.9	9.3	2.18	.65	.84	.98	30.2	8.9	2.47	.66	.86	1.00	28.3	8.3	2.80	.68	.89	1.00
71°F (22°C)	850	400	34.0	10.0	1.93	.43	.56	.68	32.5	9.5	2.18	.43	.56	.70	30.7	9.0	2.48	.43	.57	.72	28.9	8.5	2.81	.44	.59	.74
	1050	495	35.0	10.3	1.94	.44	.59	.74	33.3	9.8	2.19	.44	.60	.76	31.5	9.2	2.48	.45	.62	.78	29.6	8.7	2.81	.45	.63	.81
	1250	590	35.7	10.5	1.95	.45	.62	.79	33.9	9.9	2.20	.46	.64	.81	32.1	9.4	2.49	.46	.65	.84	30.1	8.8	2.82	.47	.67	.87

HPXA12-030 - C33-36A/B/C - CX34-36A/B/C-6F - C33-42B - CX34-42B-6F - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)	Air Temperature Entering Outdoor Coil															
	65°F (18°C)		45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)				
	cfm	L/s	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity	
kBtuh	kW	kBtuh	kW	kBtuh		kW	kBtuh		kW	kBtuh		kW	kBtuh		kW	
850	400	35.2	10.3	2.37	27.2	8.0	2.33	18.6	5.5	2.28	13.4	3.9	2.13	6.5	1.9	1.57
1050	495	35.9	10.5	2.22	27.9	8.2	2.18	19.3	5.7	2.13	14.1	4.1	1.98	7.2	2.1	1.42
1250	590	36.4	10.7	2.13	28.4	8.3	2.08	19.8	5.8	2.04	14.6	4.3	1.88	7.7	2.3	1.33

HPXA12-030 - C33-38A/B - CX34-38A/B - C33-44C - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)	Air Temperature Entering Outdoor Coil															
	65°F (18°C)		45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)				
	cfm	L/s	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input		
kBtuh	kW	kBtuh	kW	kBtuh		kW	kBtuh		kW	kBtuh		kW	kBtuh		kW	
850	400	34.3	10.1	2.24	26.5	7.8	2.15	18.2	5.3	2.06	13.1	3.8	1.90	6.4	1.9	1.41
1050	495	35.0	10.3	2.10	27.2	8.0	2.01	18.9	5.5	1.92	13.8	4.0	1.77	7.1	2.1	1.27
1250	590	35.6	10.4	2.02	27.8	8.1	1.93	19.5	5.7	1.84	14.4	4.2	1.68	7.7	2.3	1.19

HPXA12-030 - C33-36A/B/C - CX34-36A/B/C-6F - C33-42B - CX34-42B-6F HEATING PERFORMANCE at 1050 cfm (495 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.22	35.9	10.5
60	16	2.21	34.1	10.0
55	13	2.20	32.3	9.5
50	10	2.19	30.4	8.9
47	8	2.19	29.3	8.6
45	7	2.18	27.9	8.2
40	4	2.16	24.2	7.1
35	2	2.13	20.5	6.0
30	-1	2.13	19.9	5.8
25	-4	2.13	19.3	5.7
20	-7	2.13	18.7	5.5
17	-8	2.13	18.4	5.4
15	-9	2.13	17.6	5.2
10	-12	2.12	15.8	4.6
5	-15	1.98	14.1	4.1
0	-18	1.84	12.4	3.6
-5	-21	1.70	10.7	3.1
-10	-23	1.56	8.9	2.6
-15	-26	1.42	7.2	2.1
-20	-29	1.28	5.5	1.6

HPXA12-030 - C33-38A/B - CX34-38A/B - C33-44C HEATING PERFORMANCE at 1050 cfm (495 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.10	35.0	10.3
60	16	2.08	33.3	9.8
55	13	2.06	31.5	9.2
50	10	2.04	29.7	8.7
47	8	2.03	28.6	8.4
45	7	2.01	27.2	8.0
40	4	1.97	23.6	6.9
35	2	1.93	20.0	5.9
30	-1	1.93	19.4	5.7
25	-4	1.92	18.9	5.5
20	-7	1.92	18.3	5.4
17	-8	1.92	18.0	5.3
15	-9	1.91	17.3	5.1
10	-12	1.89	15.5	4.5
5	-15	1.77	13.8	4.0
0	-18	1.64	12.1	3.5
-5	-21	1.52	10.4	3.0
-10	-23	1.40	8.8	2.6
-15	-26	1.27	7.1	2.1
-20	-29	1.15	5.4	1.6

RATINGS

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

HPXA12-036 — CB29M-46 - CB28UH-042 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
cfm	L/s	kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW	Comp Motor kW Input	75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW	Comp Motor kW Input	75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW	Comp Motor kW Input	75°F 24°C	80°F 27°C	85°F 29°C		
63°F (17°C)	1075	505	35.1	10.3	2.44	.74	.88	.99	33.5	9.8	2.77	.76	.90	1.00	31.9	9.3	3.15	.78	.92	1.00	30.1	8.8	3.61	.80	.95	1.00
	1275	600	36.1	10.6	2.45	.78	.93	1.00	34.5	10.1	2.78	.80	.95	1.00	32.8	9.6	3.17	.82	.98	1.00	31.1	9.1	3.61	.84	.99	1.00
	1475	695	36.9	10.8	2.46	.82	.98	1.00	35.4	10.4	2.79	.84	.99	1.00	33.8	9.9	3.17	.87	1.00	1.00	32.1	9.4	3.63	.89	1.00	1.00
67°F (19°C)	1075	505	37.2	10.9	2.46	.58	.72	.85	35.6	10.4	2.79	.58	.73	.87	33.8	9.9	3.17	.59	.75	.89	31.9	9.3	3.63	.61	.77	.92
	1275	600	38.1	11.2	2.47	.60	.76	.90	36.3	10.6	2.80	.61	.78	.93	34.5	10.1	3.19	.63	.80	.95	32.5	9.5	3.64	.64	.82	.98
	1475	695	38.7	11.3	2.47	.63	.80	.95	36.9	10.8	2.81	.64	.82	.97	35.0	10.3	3.20	.65	.85	.99	33.0	9.7	3.65	.67	.87	1.00
71°F (22°C)	1075	505	39.6	11.6	2.48	.43	.56	.69	37.9	11.1	2.81	.43	.57	.71	36.0	10.6	3.20	.44	.58	.73	34.0	10.0	3.66	.44	.59	.75
	1275	600	40.5	11.9	2.49	.44	.59	.74	38.7	11.3	2.82	.44	.60	.75	36.7	10.8	3.22	.45	.61	.78	34.6	10.1	3.67	.45	.63	.80
	1475	695	41.1	12.0	2.49	.45	.62	.78	39.2	11.5	2.83	.45	.63	.80	37.2	10.9	3.22	.46	.65	.82	35.1	10.3	3.68	.47	.66	.85

HPXA12-036 — CBX32MV-024/030 - CB30M-31 - CB30U-31 - CBX32M-030 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
cfm	L/s	kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW	Comp Motor kW Input	75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW	Comp Motor kW Input	75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW	Comp Motor kW Input	75°F 24°C	80°F 27°C	85°F 29°C		
63°F (17°C)	1050	495	34.8	10.2	2.44	.74	.89	1.00	33.3	9.8	2.77	.76	.90	1.00	31.6	9.3	3.15	.78	.93	1.00	29.9	8.8	3.61	.80	.95	1.00
	1250	590	35.8	10.5	2.45	.79	.94	1.00	34.2	10.0	2.78	.80	.96	1.00	32.5	9.5	3.17	.82	.98	1.00	30.8	9.0	3.61	.85	1.00	1.00
	1300	615	35.9	10.5	2.36	.79	.94	1.00	34.4	10.1	2.67	.81	.96	1.00	32.7	9.6	3.05	.83	.98	1.00	31.0	9.1	3.48	.85	1.00	1.00
67°F (19°C)	1050	495	36.9	10.8	2.46	.58	.72	.85	35.3	10.3	2.79	.59	.73	.87	33.5	9.8	3.17	.60	.75	.90	31.6	9.3	3.63	.61	.77	.92
	1250	590	37.8	11.1	2.47	.60	.76	.91	36.1	10.6	2.80	.62	.78	.93	34.3	10.1	3.19	.63	.80	.95	32.3	9.5	3.64	.64	.83	.98
	1300	615	37.9	11.1	2.37	.60	.77	.91	36.2	10.6	2.69	.62	.78	.93	34.4	10.1	3.07	.63	.80	.96	32.4	9.5	3.50	.64	.83	.98
71°F (22°C)	1050	495	39.4	11.5	2.48	.43	.56	.69	37.6	11.0	2.81	.44	.57	.71	35.8	10.5	3.20	.44	.58	.73	33.7	9.9	3.66	.44	.60	.75
	1250	590	40.2	11.8	2.49	.44	.59	.74	38.4	11.3	2.82	.44	.60	.76	36.4	10.7	3.21	.45	.62	.78	34.4	10.1	3.67	.46	.63	.80
	1300	615	40.3	11.8	2.39	.44	.59	.74	38.5	11.3	2.71	.44	.60	.76	36.5	10.7	3.09	.45	.62	.78	34.4	10.1	3.53	.46	.63	.81

HPXA12-036 - CB29M-46 - CB28UH-042 - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil																			
		65°F (18°C)				45°F (7°C)				25°F (-4°C)				5°F (-15°C)				-15°F (-26°C)			
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input		
cfm	L/s	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW				
1075	505	42.0	12.3	2.56	32.2	9.4	2.38	21.6	6.3	2.19	15.8	4.6	1.99	7.7	2.3	1.47					
1275	600	42.8	12.5	2.46	33.0	9.7	2.28	22.4	6.6	2.09	16.6	4.9	1.88	8.5	2.5	1.37					
1475	695	43.3	12.7	2.38	33.5	9.8	2.20	22.9	6.7	2.01	17.1	5.0	1.80	9.0	2.6	1.29					

HPXA12-036 - CBX32MV-024/030 - CB30M-31 - CB30U-31 - CBX32M-030 - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil																			
		65°F (18°C)				45°F (7°C)				25°F (-4°C)				5°F (-15°C)				-15°F (-26°C)			
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input					
cfm	L/s	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW						
1050	495	41.5	12.2	2.59	31.8	9.3	2.40	21.3	6.2	2.21	15.6	4.6	2.00	7.7	2.3	1.49					
1250	590	42.2	12.4	2.47	32.5	9.5	2.29	22.0	6.4	2.10	16.3	4.8	1.89	8.4	2.5	1.37					
1300	615	42.4	12.4	2.45	32.7	9.6	2.27	22.2	6.5	2.08	16.5	4.8	1.87	8.6	2.5	1.35					

HPXA12-036 - CB29M-46 - CB28UH-042 - HEATING PERFORMANCE AT 1275 cfm (600 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.46	42.8	12.5
60	16	2.42	40.6	11.9
55	13	2.38	38.4	11.3
50	10	2.34	36.2	10.6
47	8	2.31	34.9	10.2
45	7	2.28	33.0	9.7
40	4	2.20	28.2	8.3
35	2	2.11	23.3	6.8
30	-1	2.10	22.9	6.7
25	-4	2.09	22.4	6.6
20	-7	2.08	22.0	6.4
17	-8	2.07	21.7	6.4
15	-9	2.05	20.9	6.1
10	-12	2.01	18.7	5.5
5	-15	1.88	16.6	4.9
0	-18	1.75	14.6	4.3
-5	-21	1.63	12.6	3.7
-10	-23	1.50	10.6	3.1
-15	-26	1.37	8.5	2.5
-20	-29	1.24	6.5	1.9

HPXA12-036 - CBX32MV-024/030 - CB30M/U-31 - CBX32M-030 HEATING PERFORMANCE AT 1250 cfm (590 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.47	42.2	12.4
60	16	2.43	40.1	11.8
55	13	2.39	37.9	11.1
50	10	2.35	35.7	10.5
47	8	2.32	34.4	10.1
45	7	2.29	32.5	9.5
40	4	2.21	27.7	8.1
35	2	2.12	23.0	6.7
30	-1	2.11	22.5	6.6
25	-4	2.10	22.0	6.4
20	-7	2.08	21.6	6.3
17	-8	2.07	21.3	6.2
15	-9	2.06	20.4	6.0
10	-12	2.02	18.2	5.3
5	-15	1.89	16.3	4.8
0	-18	1.76	14.3	4.2
-5	-21	1.63	12.3	3.6
-10	-23	1.50	10.3	3.0
-15	-26	1.37	8.4	2.5
-20	-29	1.25	6.4	1.9

RATINGS

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

HPXA12-036 — CB30M-41 - CB30U-41/46 - CBX32M-036 COOLING CAPACITY

Entering Wet Bulb Temperature	Outdoor Air Temperature Entering Outdoor Coil																									
	Total Air Volume		85°F (29°C)					95°F (35°C)					105°F (41°C)					115°F (46°C)								
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb					
	kBtuh	kW	75°F 24°C	80°F 27°C		85°F 29°C	kBtuh	kW	75°F 24°C		80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh		kW	75°F 24°C	80°F 27°C	85°F 29°C		
63°F (17°C)	1075	505	35.2	10.3	2.43	.74	.88	.99	33.6	9.8	2.76	.75	.90	1.00	31.9	9.3	3.14	.77	.92	1.00	30.2	8.9	3.59	.79	.95	1.00
	1275	600	36.2	10.6	2.44	.78	.94	1.00	34.6	10.1	2.76	.80	.96	1.00	32.9	9.6	3.15	.82	.98	1.00	31.1	9.1	3.60	.85	1.00	1.00
	1475	695	37.1	10.9	2.44	.82	.98	1.00	35.5	10.4	2.77	.84	.99	1.00	33.9	9.9	3.15	.87	1.00	1.00	32.2	9.4	3.61	.89	1.00	1.00
67°F (19°C)	1075	505	37.4	11.0	2.45	.58	.72	.85	35.7	10.5	2.77	.59	.73	.87	33.9	9.9	3.16	.59	.75	.89	31.9	9.3	3.61	.61	.77	.92
	1275	600	38.3	11.2	2.46	.60	.76	.91	36.5	10.7	2.79	.61	.78	.93	34.6	10.1	3.17	.62	.80	.95	32.6	9.6	3.62	.64	.82	.98
	1475	695	38.9	11.4	2.46	.63	.80	.95	37.1	10.9	2.79	.64	.82	.97	35.2	10.3	3.18	.65	.85	.99	33.2	9.7	3.63	.67	.87	1.00
71°F (22°C)	1075	505	39.9	11.7	2.47	.43	.56	.69	38.1	11.2	2.80	.43	.57	.71	36.1	10.6	3.19	.43	.58	.73	34.1	10.0	3.64	.44	.59	.74
	1275	600	40.7	11.9	2.48	.44	.59	.74	38.8	11.4	2.81	.44	.60	.75	36.8	10.8	3.20	.45	.61	.78	34.7	10.2	3.65	.45	.63	.80
	1475	695	41.3	12.1	2.49	.45	.62	.78	39.4	11.5	2.82	.45	.63	.80	37.4	11.0	3.20	.46	.64	.82	35.2	10.3	3.66	.47	.66	.85

HPXA12-036 — CB30M-46 - CBX32M-042 COOLING CAPACITY

Entering Wet Bulb Temperature	Outdoor Air Temperature Entering Outdoor Coil																									
	Total Air Volume		85°F (29°C)					95°F (35°C)					105°F (41°C)					115°F (46°C)								
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb					
	kBtuh	kW	75°F 24°C	80°F 27°C		85°F 29°C	kBtuh	kW	75°F 24°C		80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh		kW	75°F 24°C	80°F 27°C	85°F 29°C		
63°F (17°C)	1075	505	35.2	10.3	2.43	.74	.88	.99	33.6	9.8	2.76	.75	.90	1.00	31.9	9.3	3.14	.77	.92	1.00	30.2	8.9	3.59	.79	.95	1.00
	1275	600	36.2	10.6	2.44	.78	.94	1.00	34.6	10.1	2.76	.80	.96	1.00	32.9	9.6	3.15	.82	.98	1.00	31.1	9.1	3.60	.85	1.00	1.00
	1475	695	37.1	10.9	2.44	.82	.98	1.00	35.5	10.4	2.77	.84	.99	1.00	33.9	9.9	3.15	.87	1.00	1.00	32.2	9.4	3.61	.89	1.00	1.00
67°F (19°C)	1075	505	37.4	11.0	2.45	.58	.72	.85	35.7	10.5	2.77	.59	.73	.87	33.9	9.9	3.16	.59	.75	.89	31.9	9.3	3.61	.61	.77	.92
	1275	600	38.3	11.2	2.46	.60	.76	.91	36.5	10.7	2.79	.61	.78	.93	34.6	10.1	3.17	.62	.80	.95	32.6	9.6	3.62	.64	.82	.98
	1475	695	38.9	11.4	2.46	.63	.80	.95	37.1	10.9	2.79	.64	.82	.97	35.2	10.3	3.18	.65	.85	.99	33.2	9.7	3.63	.67	.87	1.00
71°F (22°C)	1075	505	39.9	11.7	2.47	.43	.56	.69	38.1	11.2	2.80	.43	.57	.71	36.1	10.6	3.19	.43	.58	.73	34.1	10.0	3.64	.44	.59	.74
	1275	600	40.7	11.9	2.48	.44	.59	.74	38.8	11.4	2.81	.44	.60	.75	36.8	10.8	3.20	.45	.61	.78	34.7	10.2	3.65	.45	.63	.80
	1475	695	41.3	12.1	2.49	.45	.62	.78	39.4	11.5	2.82	.45	.63	.80	37.4	11.0	3.20	.46	.64	.82	35.2	10.3	3.66	.47	.66	.85

HPXA12-036 - CB30M-41 - CB30U-41/46 - CBX32M-036 - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)	Air Temperature Entering Outdoor Coil															
	65°F (18°C)		45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)				
	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input		
1075	505	41.7	12.2	2.51	31.9	9.3	2.34	21.5	6.3	2.17	15.7	4.6	1.97	7.7	2.3	1.46
1275	600	42.4	12.4	2.41	32.6	9.6	2.24	22.2	6.5	2.06	16.4	4.8	1.86	8.4	2.5	1.35
1475	695	42.9	12.6	2.33	33.1	9.7	2.16	22.7	6.7	1.98	16.9	5.0	1.78	8.9	2.6	1.27

HPXA12-036 - CB30M-46 - CBX32M-042 - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)	Air Temperature Entering Outdoor Coil															
	65°F (18°C)		45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)				
	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input		
1075	505	41.6	12.2	2.51	31.9	9.3	2.34	21.5	6.3	2.17	15.7	4.6	1.97	7.7	2.3	1.46
1275	600	42.3	12.4	2.41	32.6	9.6	2.24	22.2	6.5	2.06	16.4	4.8	1.86	8.4	2.5	1.35
1475	695	42.7	12.5	2.33	33.0	9.7	2.16	22.6	6.6	1.98	16.8	4.9	1.78	8.8	2.6	1.27

HPXA12-036 - CB30M-41-CB30U-41/46 - CBX32M-036 - HEATING PERFORMANCE AT 1275 cfm (600 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.41	42.4	12.4
60	16	2.37	40.2	11.8
55	13	2.33	38.0	11.1
50	10	2.29	35.8	10.5
47	8	2.27	34.5	10.1
45	7	2.24	32.6	9.6
40	4	2.16	27.9	8.2
35	2	2.09	23.2	6.8
30	-1	2.08	22.7	6.7
25	-4	2.06	22.2	6.5
20	-7	2.05	21.7	6.4
17	-8	2.04	21.5	6.3
15	-9	2.03	20.6	6.0
10	-12	1.99	18.4	5.4
5	-15	1.86	16.4	4.8
0	-18	1.74	14.4	4.2
-5	-21	1.61	12.4	3.6
-10	-23	1.48	10.4	3.0
-15	-26	1.35	8.4	2.5
-20	-29	1.23	6.4	1.9

HPXA12-036 - CB30M-46 - CBX32M-042 - HEATING PERFORMANCE AT 1275 cfm (600 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.41	42.3	12.4
60	16	2.37	40.2	11.8
55	13	2.33	38.0	11.1
50	10	2.29	35.8	10.5
47	8	2.27	34.5	10.1
45	7	2.24	32.6	9.6
40	4	2.16	27.9	8.2
35	2	2.09	23.2	6.8
30	-1	2.08	22.7	6.7
25	-4	2.06	22.2	6.5
20	-7	2.05	21.7	6.4
17	-8	2.04	21.4	6.3
15	-9	2.03	20.5	6.0
10	-12	1.99	18.4	5.4
5	-15	1.86	16.4	4.8
0	-18	1.74	14.4	4.2
-5	-21	1.61	12.4	3.6
-10	-23	1.48	10.4	3.0
-15	-26	1.35	8.4	2.5
-20	-29	1.23	6.4	1.9

RATINGS

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

HPXA12-036 — CB31MV-41 - CBX32MV-036 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)					95°F (35°C)					105°F (41°C)					115°F (46°C)								
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C		kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C		kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C		kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C				
63°F (17°C)	1135	535	35.5	10.4	2.43	.75	.90	1.00	33.9	9.9	2.76	.77	.92	1.00	32.2	9.4	3.14	.79	.94	1.00	30.5	8.9	3.59	.81	.97	1.00
	1275	600	36.2	10.6	2.44	.78	.94	1.00	34.6	10.1	2.76	.80	.96	1.00	32.9	9.6	3.15	.82	.98	1.00	31.1	9.1	3.60	.85	1.00	1.00
	1400	660	36.8	10.8	2.36	.81	.96	1.00	35.1	10.3	2.68	.83	.98	1.00	33.5	9.8	3.05	.85	1.00	1.00	31.8	9.3	3.48	.87	1.00	1.00
67°F (19°C)	1135	535	37.7	11.0	2.45	.58	.73	.87	36.0	10.6	2.78	.59	.74	.89	34.1	10.0	3.16	.60	.76	.91	32.2	9.4	3.61	.62	.79	.94
	1275	600	38.3	11.2	2.46	.60	.76	.91	36.5	10.7	2.79	.61	.78	.93	34.6	10.1	3.17	.62	.80	.95	32.6	9.6	3.62	.64	.82	.98
	1400	660	38.7	11.3	2.38	.62	.79	.94	36.9	10.8	2.69	.63	.80	.96	35.0	10.3	3.07	.64	.83	.98	33.0	9.7	3.50	.66	.85	1.00
71°F (22°C)	1135	535	40.1	11.8	2.47	.43	.57	.71	38.3	11.2	2.80	.44	.58	.72	36.4	10.7	3.19	.44	.59	.74	34.3	10.1	3.64	.44	.60	.76
	1275	600	40.7	11.9	2.48	.44	.59	.74	38.8	11.4	2.81	.44	.60	.75	36.8	10.8	3.20	.45	.61	.78	34.7	10.2	3.65	.45	.63	.80
	1400	660	41.1	12.0	2.40	.45	.61	.76	39.2	11.5	2.72	.45	.62	.78	37.2	10.9	3.09	.45	.63	.80	35.0	10.3	3.53	.46	.65	.83

HPXA12-036 — CB29M-51 - CB28UH-048 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)					95°F (35°C)					105°F (41°C)					115°F (46°C)								
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C		kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C		kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C		kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C				
63°F (17°C)	1075	505	35.4	10.4	2.44	.74	.88	.99	33.8	9.9	2.77	.76	.90	1.00	32.1	9.4	3.15	.77	.93	1.00	30.4	8.9	3.60	.79	.95	1.00
	1275	600	36.4	10.7	2.45	.78	.94	1.00	34.8	10.2	2.78	.80	.96	1.00	33.1	9.7	3.16	.82	.98	1.00	31.3	9.2	3.62	.85	1.00	1.00
	1475	695	37.3	10.9	2.45	.82	.98	1.00	35.7	10.5	2.78	.84	.99	1.00	34.1	10.0	3.17	.87	1.00	1.00	32.4	9.5	3.63	.89	1.00	1.00
67°F (19°C)	1075	505	37.6	11.0	2.46	.58	.72	.85	35.9	10.5	2.79	.58	.73	.87	34.1	10.0	3.18	.60	.75	.89	32.1	9.4	3.63	.61	.77	.92
	1275	600	38.5	11.3	2.47	.60	.76	.90	36.7	10.8	2.80	.61	.78	.93	34.8	10.2	3.18	.62	.80	.95	32.8	9.6	3.64	.64	.82	.98
	1475	695	39.2	11.5	2.47	.63	.80	.95	37.3	10.9	2.80	.64	.82	.97	35.4	10.4	3.19	.65	.84	.99	33.4	9.8	3.64	.67	.87	1.00
71°F (22°C)	1075	505	40.1	11.8	2.48	.43	.56	.69	38.3	11.2	2.81	.43	.57	.70	36.3	10.6	3.20	.43	.58	.72	34.3	10.1	3.66	.44	.59	.75
	1275	600	41.0	12.0	2.49	.44	.59	.74	39.1	11.5	2.82	.44	.60	.75	37.1	10.9	3.21	.45	.61	.78	34.9	10.2	3.67	.45	.63	.80
	1475	695	41.6	12.2	2.50	.45	.62	.78	39.7	11.6	2.83	.45	.63	.80	37.6	11.0	3.22	.46	.64	.82	35.4	10.4	3.67	.47	.66	.85

HPXA12-036 - CB31MV-41 - CBX32MV-036 - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil														
		65°F (18°C)		45°F (7°C)		25°F (-4°C)		5°F (-15°C)		-15°F (-26°C)						
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input			
kBtuh	kW	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW				
1135	535	41.5	12.2	2.47	31.8	9.3	2.31	21.5	6.3	2.13	15.7	4.6	1.93	7.9	2.3	1.42
1265	595	41.9	12.3	2.41	32.2	9.4	2.24	21.9	6.4	2.07	16.1	4.7	1.87	8.3	2.4	1.36
1400	660	42.5	12.5	2.35	32.8	9.6	2.19	22.5	6.6	2.01	16.7	4.9	1.81	8.9	2.6	1.30

HPXA12-036 - CB29M-51 - CB28UH-048 - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil														
		65°F (18°C)		45°F (7°C)		25°F (-4°C)		5°F (-15°C)		-15°F (-26°C)						
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input			
kBtuh	kW	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW				
1075	505	42.0	12.3	2.59	32.3	9.5	2.41	21.9	6.4	2.23	16.1	4.7	2.02	7.9	2.3	1.50
1275	600	42.7	12.5	2.48	33.0	9.7	2.31	22.6	6.6	2.12	16.8	4.9	1.91	8.6	2.5	1.39
1475	695	43.0	12.6	2.40	33.3	9.8	2.23	22.9	6.7	2.04	17.1	5.0	1.83	8.9	2.6	1.31

HPXA12-036 - CB31MV-41 - CBX32MV-036 - HEATING PERFORMANCE AT 1265 cfm (595 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.41	41.9	12.3
60	16	2.37	39.7	11.6
55	13	2.33	37.6	11.0
50	10	2.30	35.4	10.4
47	8	2.27	34.1	10.0
45	7	2.24	32.2	9.4
40	4	2.17	27.5	8.1
35	2	2.09	22.9	6.7
30	-1	2.08	22.4	6.6
25	-4	2.07	21.9	6.4
20	-7	2.05	21.4	6.3
17	-8	2.05	21.1	6.2
15	-9	2.03	20.2	5.9
10	-12	1.99	18.0	5.3
5	-15	1.87	16.1	4.7
0	-18	1.74	14.1	4.1
-5	-21	1.61	12.2	3.6
-10	-23	1.48	10.2	3.0
-15	-26	1.36	8.3	2.4
-20	-29	1.23	6.3	1.8

HPXA12-036 - CB29M-51 - CB28UH-048 - HEATING PERFORMANCE AT 1275 cfm (600 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.48	42.7	12.5
60	16	2.44	40.5	11.9
55	13	2.40	38.4	11.3
50	10	2.36	36.2	10.6
47	8	2.34	34.9	10.2
45	7	2.31	33.0	9.7
40	4	2.23	28.2	8.3
35	2	2.15	23.5	6.9
30	-1	2.14	23.0	6.7
25	-4	2.12	22.6	6.6
20	-7	2.11	22.1	6.5
17	-8	2.10	21.8	6.4
15	-9	2.08	21.0	6.2
10	-12	2.04	18.8	5.5
5	-15	1.91	16.8	4.9
0	-18	1.78	14.7	4.3
-5	-21	1.65	12.7	3.7
-10	-23	1.52	10.6	3.1
-15	-26	1.39	8.6	2.5
-20	-29	1.26	6.6	1.9

RATINGS

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

HPXA12-036 — CVP10-31/EC10Q3 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1075	505	34.3	10.1	2.43	.74	.88	.99	32.8	9.6	2.77	.75	.90	1.00	31.2	9.1	3.15	.77	.92	1.00	29.5	8.6	3.61	.79	.95	1.00
	1275	600	35.2	10.3	2.44	.78	.93	1.00	33.7	9.9	2.77	.80	.95	1.00	32.1	9.4	3.15	.82	.97	1.00	30.4	8.9	3.61	.85	.99	1.00
	1475	695	36.1	10.6	2.44	.82	.98	1.00	34.6	10.1	2.78	.84	.99	1.00	33.1	9.7	3.16	.86	1.00	1.00	31.4	9.2	3.62	.89	1.00	1.00
67°F (19°C)	1075	505	36.3	10.6	2.45	.58	.72	.85	34.7	10.2	2.78	.59	.73	.87	33.0	9.7	3.16	.59	.75	.89	31.2	9.1	3.61	.61	.77	.92
	1275	600	37.2	10.9	2.46	.60	.76	.90	35.5	10.4	2.79	.61	.78	.93	33.8	9.9	3.17	.62	.80	.95	31.9	9.3	3.63	.64	.82	.97
	1475	695	37.8	11.1	2.46	.63	.80	.95	36.1	10.6	2.79	.64	.82	.97	34.3	10.1	3.18	.65	.85	.99	32.4	9.5	3.64	.67	.87	1.00
71°F (22°C)	1075	505	38.7	11.3	2.47	.43	.56	.69	37.0	10.8	2.80	.43	.57	.71	35.2	10.3	3.19	.43	.58	.72	33.3	9.8	3.64	.44	.59	.74
	1275	600	39.5	11.6	2.48	.44	.59	.74	37.7	11.0	2.81	.44	.60	.75	35.9	10.5	3.20	.45	.61	.77	33.9	9.9	3.66	.45	.63	.80
	1475	695	40.1	11.8	2.48	.45	.62	.78	38.3	11.2	2.82	.45	.63	.80	36.4	10.7	3.20	.46	.64	.82	34.3	10.1	3.66	.47	.66	.85

HPXA12-036 — CVP10-46/EC10Q4 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1075	505	35.0	10.3	2.43	.75	.89	1.00	33.4	9.8	2.76	.76	.91	1.00	31.8	9.3	3.15	.78	.93	1.00	30.0	8.8	3.60	.80	.96	1.00
	1275	600	36.0	10.6	2.44	.79	.94	1.00	34.4	10.1	2.77	.81	.96	1.00	32.7	9.6	3.16	.83	.99	1.00	31.0	9.1	3.60	.85	1.00	1.00
	1475	695	36.9	10.8	2.45	.83	.99	1.00	35.3	10.3	2.78	.85	1.00	1.00	33.7	9.9	3.16	.87	1.00	1.00	32.1	9.4	3.61	.90	1.00	1.00
67°F (19°C)	1075	505	37.2	10.9	2.45	.58	.72	.86	35.5	10.4	2.78	.59	.73	.88	33.7	9.9	3.17	.60	.75	.90	31.8	9.3	3.62	.61	.77	.93
	1275	600	38.0	11.1	2.46	.61	.77	.91	36.3	10.6	2.79	.61	.78	.93	34.4	10.1	3.18	.63	.80	.96	32.5	9.5	3.63	.65	.83	.98
	1475	695	38.7	11.3	2.47	.63	.81	.96	36.9	10.8	2.80	.64	.83	.98	35.0	10.3	3.18	.66	.85	1.00	33.0	9.7	3.64	.68	.88	1.00
71°F (22°C)	1075	505	39.6	11.6	2.48	.43	.56	.70	37.9	11.1	2.80	.43	.57	.71	36.0	10.6	3.19	.44	.58	.73	33.9	9.9	3.65	.44	.60	.75
	1275	600	40.5	11.9	2.48	.44	.59	.74	38.7	11.3	2.81	.45	.60	.76	36.7	10.8	3.21	.45	.62	.78	34.6	10.1	3.66	.46	.63	.81
	1475	695	41.1	12.0	2.49	.45	.62	.79	39.2	11.5	2.83	.46	.63	.81	37.2	10.9	3.21	.46	.65	.83	35.1	10.3	3.67	.47	.67	.86

HPXA12-036 - CVP10-31/EC10Q3 - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)	Total Air Volume		Air Temperature Entering Outdoor Coil																
			65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)				
			Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input		
kBtuh	kW	kBtuh	kW	kBtuh		kW	kBtuh		kW	kBtuh		kW	kBtuh		kW				
1075	505	L/s	41.6	12.2	2.60	31.9	9.3	2.42	21.5	6.3	2.22	15.7	4.6	2.00	7.7	2.3	1.49		
			1275	600	42.4	12.4	2.49	32.7	9.6	2.31	22.3	6.5	2.11	16.5	4.8	1.89	8.5	2.5	1.38
			1475	695	42.9	12.6	2.41	33.2	9.7	2.23	22.8	6.7	2.03	17.0	5.0	1.81	9.0	2.6	1.30

HPXA12-036 - CVP10-46/EC10Q4 - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)	Total Air Volume		Air Temperature Entering Outdoor Coil																
			65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)				
			Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input		
kBtuh	kW	kBtuh	kW	kBtuh		kW	kBtuh		kW	kBtuh		kW	kBtuh		kW				
1075	505	L/s	42.3	12.4	2.52	32.7	9.6	2.36	22.5	6.6	2.19	16.7	4.9	1.99	8.6	2.5	1.47		
			1275	600	42.2	12.4	2.41	32.6	9.6	2.25	22.4	6.6	2.08	16.6	4.9	1.88	8.5	2.5	1.36
			1475	695	43.2	12.7	2.34	33.6	9.8	2.18	23.4	6.9	2.00	17.6	5.2	1.80	9.5	2.8	1.29

HPXA12-036 - CVP10-31/EC10Q3 - HEATING PERFORMANCE AT 1275 cfm (600 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.49	42.4	12.4
60	16	2.45	40.2	11.8
55	13	2.41	38.1	11.2
50	10	2.36	35.9	10.5
47	8	2.34	34.6	10.1
45	7	2.31	32.7	9.6
40	4	2.22	28.0	8.2
35	2	2.14	23.2	6.8
30	-1	2.12	22.8	6.7
25	-4	2.11	22.3	6.5
20	-7	2.09	21.8	6.4
17	-8	2.08	21.6	6.3
15	-9	2.06	20.7	6.1
10	-12	2.02	18.5	5.4
5	-15	1.89	16.5	4.8
0	-18	1.76	14.5	4.2
-5	-21	1.64	12.5	3.7
-10	-23	1.51	10.5	3.1
-15	-26	1.38	8.5	2.5
-20	-29	1.25	6.5	1.9

HPXA12-036 - CVP10-46/EC10Q4 - HEATING PERFORMANCE AT 1275 cfm (600 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.41	42.2	12.4
60	16	2.38	40.1	11.8
55	13	2.34	37.9	11.1
50	10	2.30	35.8	10.5
47	8	2.28	34.5	10.1
45	7	2.25	32.6	9.6
40	4	2.18	28.0	8.2
35	2	2.10	23.3	6.8
30	-1	2.09	22.8	6.7
25	-4	2.08	22.4	6.6
20	-7	2.07	21.9	6.4
17	-8	2.06	21.6	6.3
15	-9	2.04	20.8	6.1
10	-12	2.01	18.6	5.5
5	-15	1.88	16.6	4.9
0	-18	1.75	14.6	4.3
-5	-21	1.62	12.6	3.7
-10	-23	1.49	10.5	3.1
-15	-26	1.36	8.5	2.5
-20	-29	1.24	6.5	1.9

RATINGS

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

HPXA12-036 — CVP10-41/EC10Q3 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C		kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C		kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C		kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C				
63°F (17°C)	1075	505	35.0	10.3	2.43	.75	.89	1.00	33.4	9.8	2.76	.76	.91	1.00	31.8	9.3	3.15	.78	.93	1.00	30.0	8.8	3.60	.80	.96	1.00
	1275	600	36.0	10.6	2.44	.79	.94	1.00	34.4	10.1	2.77	.81	.96	1.00	32.7	9.6	3.16	.83	.99	1.00	31.0	9.1	3.60	.85	1.00	1.00
	1475	695	36.9	10.8	2.45	.83	.99	1.00	35.3	10.3	2.78	.85	1.00	1.00	33.7	9.9	3.16	.87	1.00	1.00	32.1	9.4	3.61	.90	1.00	1.00
67°F (19°C)	1075	505	37.2	10.9	2.45	.58	.72	.86	35.5	10.4	2.78	.59	.73	.88	33.7	9.9	3.17	.60	.75	.90	31.8	9.3	3.62	.61	.77	.93
	1275	600	38.0	11.1	2.46	.61	.77	.91	36.3	10.6	2.79	.61	.78	.93	34.4	10.1	3.18	.63	.80	.96	32.5	9.5	3.63	.65	.83	.98
	1475	695	38.7	11.3	2.47	.63	.81	.96	36.9	10.8	2.80	.64	.83	.98	35.0	10.3	3.18	.66	.85	1.00	33.0	9.7	3.64	.68	.88	1.00
71°F (22°C)	1075	505	39.6	11.6	2.48	.43	.56	.70	37.9	11.1	2.80	.43	.57	.71	36.0	10.6	3.19	.44	.58	.73	33.9	9.9	3.65	.44	.60	.75
	1275	600	40.5	11.9	2.48	.44	.59	.74	38.7	11.3	2.81	.45	.60	.76	36.7	10.8	3.21	.45	.62	.78	34.6	10.1	3.66	.46	.63	.81
	1475	695	41.1	12.0	2.49	.45	.62	.79	39.2	11.5	2.83	.46	.63	.81	37.2	10.9	3.21	.46	.65	.83	35.1	10.3	3.67	.47	.67	.86

HPXA12-036 — C33-36A/B/C - CX34-36A/B/C-6F - C33-42B - CX34-42B-6F COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C		kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C		kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C		kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C				
63°F (17°C)	1075	505	34.7	10.2	2.43	.74	.89	.99	33.2	9.7	2.77	.76	.91	1.00	31.6	9.3	3.16	.78	.93	1.00	29.9	8.8	3.62	.80	.95	1.00
	1275	600	35.6	10.4	2.44	.79	.94	1.00	34.1	10.0	2.77	.81	.96	1.00	32.5	9.5	3.16	.83	.98	1.00	30.8	9.0	3.61	.85	.99	1.00
	1475	695	36.4	10.7	2.45	.83	.98	1.00	35.0	10.3	2.78	.85	.99	1.00	33.4	9.8	3.16	.87	1.00	1.00	31.8	9.3	3.62	.89	1.00	1.00
67°F (19°C)	1075	505	36.7	10.8	2.45	.58	.72	.86	35.1	10.3	2.78	.59	.74	.88	33.4	9.8	3.17	.60	.75	.90	31.6	9.3	3.62	.61	.78	.92
	1275	600	37.5	11.0	2.45	.61	.77	.91	35.8	10.5	2.79	.61	.78	.93	34.1	10.0	3.17	.63	.80	.95	32.2	9.4	3.62	.64	.83	.98
	1475	695	38.1	11.2	2.46	.63	.81	.96	36.4	10.7	2.79	.64	.83	.97	34.6	10.1	3.18	.66	.85	.99	32.7	9.6	3.63	.67	.87	1.00
71°F (22°C)	1075	505	39.0	11.4	2.47	.43	.57	.70	37.3	10.9	2.80	.43	.57	.72	35.5	10.4	3.19	.44	.59	.73	33.6	9.8	3.64	.44	.60	.75
	1275	600	39.8	11.7	2.47	.44	.59	.74	38.0	11.1	2.81	.44	.61	.76	36.2	10.6	3.20	.45	.62	.78	34.2	10.0	3.65	.45	.63	.80
	1475	695	40.3	11.8	2.48	.45	.62	.79	38.5	11.3	2.81	.45	.63	.81	36.6	10.7	3.20	.46	.65	.83	34.6	10.1	3.66	.47	.67	.85

HPXA12-036 - CVP10-41/EC10Q3 - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)	Total Air Volume		Air Temperature Entering Outdoor Coil														
			65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
			Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
kBtuh	kW	kBtuh	kW	kBtuh		kW	kBtuh		kW	kBtuh		kW	kBtuh		kW		
1075	505	41.4	12.1	2.52	31.8	9.3	2.36	21.6	6.3	2.19	15.8	4.6	1.99	7.7	2.3	1.47	
1275	600	42.2	12.4	2.41	32.6	9.6	2.25	22.4	6.6	2.08	16.6	4.9	1.88	8.5	2.5	1.36	
1475	695	42.7	12.5	2.34	33.1	9.7	2.18	22.9	6.7	2.00	17.1	5.0	1.80	9.0	2.6	1.29	

HPXA12-036 - C33-36A/B/C - CX34-36A/B/C-6F - C33-42B - CX34-42B-6F HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)	Total Air Volume		Air Temperature Entering Outdoor Coil														
			65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
			Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
kBtuh	kW	kBtuh	kW	kBtuh		kW	kBtuh		kW	kBtuh		kW	kBtuh		kW		
1075	505	42.3	12.4	2.80	32.3	9.5	2.56	21.7	6.4	2.31	15.9	4.7	2.07	7.9	2.3	1.55	
1275	600	42.9	12.6	2.68	32.9	9.6	2.44	22.3	6.5	2.18	16.5	4.8	1.95	8.5	2.5	1.43	
1475	695	43.4	12.7	2.59	33.4	9.8	2.35	22.8	6.7	2.09	17.0	5.0	1.86	9.0	2.6	1.34	

HPXA12-036 - CVP10-41/EC10Q3 - HEATING PERFORMANCE AT 1275 cfm (600 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.41	42.2	12.4
60	16	2.38	40.1	11.8
55	13	2.34	37.9	11.1
50	10	2.30	35.8	10.5
47	8	2.28	34.5	10.1
45	7	2.25	32.6	9.6
40	4	2.18	28.0	8.2
35	2	2.10	23.3	6.8
30	-1	2.09	22.8	6.7
25	-4	2.08	22.4	6.6
20	-7	2.07	21.9	6.4
17	-8	2.06	21.6	6.3
15	-9	2.04	20.8	6.1
10	-12	2.01	18.6	5.5
5	-15	1.88	16.6	4.9
0	-18	1.75	14.6	4.3
-5	-21	1.62	12.6	3.7
-10	-23	1.49	10.5	3.1
-15	-26	1.36	8.5	2.5
-20	-29	1.24	6.5	1.9

HPXA12-036 - C33-36A/B/C-CX34-36A/B/C-6F -C33-42B -CX34-42B-6F HEATING PERFORMANCE AT 1275 cfm (600 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.68	42.9	12.6
60	16	2.63	40.6	11.9
55	13	2.57	38.4	11.3
50	10	2.52	36.2	10.6
47	8	2.48	34.9	10.2
45	7	2.44	32.9	9.6
40	4	2.33	28.0	8.2
35	2	2.22	23.2	6.8
30	-1	2.20	22.7	6.7
25	-4	2.18	22.3	6.5
20	-7	2.17	21.8	6.4
17	-8	2.16	21.6	6.3
15	-9	2.13	20.7	6.1
10	-12	2.08	18.5	5.4
5	-15	1.95	16.5	4.8
0	-18	1.82	14.5	4.2
-5	-21	1.69	12.5	3.7
-10	-23	1.56	10.5	3.1
-15	-26	1.43	8.5	2.5
-20	-29	1.29	6.5	1.9

RATINGS

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

HPXA12-036 — C33-38A/B - CX34-38A/B-6F - C33-44C COOLING CAPACITY

Entering Wet Bulb Temperature	Outdoor Air Temperature Entering Outdoor Coil																									
	Total Air Volume		85°F (29°C)					95°F (35°C)					105°F (41°C)					115°F (46°C)								
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb					
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh		kW	75°F 24°C	80°F 27°C	85°F 29°C		kBtuh	kW	75°F 24°C	80°F 27°C		85°F 29°C	kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1075	505	34.5	10.1	2.43	.73	.88	.99	33.0	9.7	2.76	.75	.90	1.00	31.3	9.2	3.15	.76	.92	1.00	29.6	8.7	3.60	.78	.95	1.00
	1275	600	35.5	10.4	2.44	.78	.93	1.00	33.9	9.9	2.77	.79	.95	1.00	32.2	9.4	3.16	.81	.98	1.00	30.5	8.9	3.61	.84	1.00	1.00
	1475	695	36.3	10.6	2.45	.82	.98	1.00	34.8	10.2	2.78	.84	.99	1.00	33.2	9.7	3.17	.86	1.00	1.00	31.6	9.3	3.62	.89	1.00	1.00
67°F (19°C)	1075	505	36.6	10.7	2.46	.57	.71	.84	34.9	10.2	2.78	.58	.72	.87	33.2	9.7	3.17	.59	.74	.89	31.3	9.2	3.63	.60	.76	.91
	1275	600	37.4	11.0	2.46	.60	.75	.90	35.7	10.5	2.79	.61	.77	.92	33.9	9.9	3.18	.62	.79	.95	32.0	9.4	3.63	.63	.82	.97
	1475	695	38.1	11.2	2.47	.62	.80	.95	36.3	10.6	2.80	.63	.82	.97	34.5	10.1	3.19	.65	.84	.99	32.5	9.5	3.64	.67	.87	1.00
71°F (22°C)	1075	505	39.0	11.4	2.48	.42	.55	.68	37.2	10.9	2.81	.43	.56	.70	35.4	10.4	3.19	.43	.57	.72	33.4	9.8	3.65	.44	.59	.74
	1275	600	39.8	11.7	2.48	.44	.58	.73	38.0	11.1	2.82	.44	.59	.75	36.0	10.6	3.21	.44	.61	.77	34.0	10.0	3.66	.45	.62	.79
	1475	695	40.4	11.8	2.49	.44	.61	.78	38.6	11.3	2.82	.45	.62	.80	36.6	10.7	3.21	.45	.64	.82	34.5	10.1	3.67	.46	.66	.85

HPXA12-042 — CB29M-46 - CB28UH-042 COOLING CAPACITY

Entering Wet Bulb Temperature	Outdoor Air Temperature Entering Outdoor Coil																									
	Total Air Volume		85°F (29°C)					95°F (35°C)					105°F (41°C)					115°F (46°C)								
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb					
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh		kW	75°F 24°C	80°F 27°C	85°F 29°C		kBtuh	kW	75°F 24°C	80°F 27°C		85°F 29°C	kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1150	545	40.7	11.9	2.89	.73	.86	.98	39.0	11.4	3.29	.74	.88	1.00	37.1	10.9	3.77	.76	.90	1.00	35.2	10.3	4.31	.78	.92	1.00
	1350	635	41.8	12.3	2.88	.76	.91	1.00	40.1	11.8	3.29	.78	.93	1.00	38.2	11.2	3.76	.80	.95	1.00	36.2	10.6	4.31	.81	.97	1.00
	1550	730	42.8	12.5	2.88	.80	.95	1.00	41.0	12.0	3.28	.82	.97	1.00	39.1	11.5	3.75	.83	.99	1.00	37.1	10.9	4.30	.86	1.00	1.00
67°F (19°C)	1150	545	43.4	12.7	2.89	.57	.70	.83	41.5	12.2	3.29	.58	.72	.85	39.6	11.6	3.76	.59	.73	.87	37.5	11.0	4.30	.60	.75	.89
	1350	635	44.3	13.0	2.89	.59	.74	.88	42.4	12.4	3.30	.60	.76	.90	40.5	11.9	3.75	.61	.77	.92	38.3	11.2	4.29	.62	.79	.94
	1550	730	45.1	13.2	2.90	.61	.78	.92	43.2	12.7	3.30	.62	.79	.94	41.1	12.0	3.76	.64	.81	.96	38.9	11.4	4.30	.65	.83	.99
71°F (22°C)	1150	545	46.2	13.5	2.91	.43	.55	.68	44.2	13.0	3.31	.44	.56	.69	42.2	12.4	3.78	.44	.57	.71	40.0	11.7	4.31	.44	.58	.72
	1350	635	47.2	13.8	2.92	.43	.58	.71	45.1	13.2	3.33	.44	.59	.73	43.0	12.6	3.79	.45	.60	.75	40.8	12.0	4.32	.45	.61	.77
	1550	730	47.9	14.0	2.93	.45	.60	.75	45.8	13.4	3.33	.45	.61	.77	43.6	12.8	3.79	.46	.62	.79	41.4	12.1	4.33	.46	.64	.81

HPXA12-036 - C33-38A/B - CX34-38A/B-6F - C33-44C - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)	Air Temperature Entering Outdoor Coil															
	65°F (18°C)		45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)				
	cfm	L/s	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity	
kBtuh	kW	kBtuh	kW	kBtuh		kW	kBtuh		kW	kBtuh		kW	kBtuh		kW	
1075	505	41.4	12.1	2.66	31.8	9.3	2.47	21.6	6.3	2.27	15.9	4.7	2.06	7.8	2.3	1.53
1275	600	42.0	12.3	2.54	32.4	9.5	2.35	22.2	6.5	2.15	16.5	4.8	1.94	8.4	2.5	1.41
1475	695	42.6	12.5	2.45	33.0	9.7	2.27	22.8	6.7	2.07	17.1	5.0	1.85	9.0	2.6	1.32

HPXA12-042 - CB29M-46 - CB28UH-042 - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)	Air Temperature Entering Outdoor Coil															
	65°F (18°C)		45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)				
	cfm	L/s	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input		
kBtuh	kW	kBtuh	kW	kBtuh		kW	kBtuh		kW	kBtuh		kW	kBtuh		kW	
1150	545	47.5	13.9	3.16	37.1	10.9	2.98	25.9	7.6	2.79	19.8	5.8	2.54	9.7	2.8	1.88
1350	635	48.2	14.1	3.01	37.8	11.1	2.83	26.6	7.8	2.65	20.5	6.0	2.39	10.4	3.0	1.73
1550	730	49.0	14.4	2.91	38.6	11.3	2.73	27.4	8.0	2.54	21.3	6.2	2.29	11.2	3.3	1.63

HPXA12-036 - C33-38A/B - CX34-38A/B-6F - C33-44C HEATING PERFORMANCE @ 1275 cfm (600 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.54	42.0	12.3
60	16	2.50	39.9	11.7
55	13	2.45	37.7	11.0
50	10	2.41	35.6	10.4
47	8	2.38	34.3	10.1
45	7	2.35	32.4	9.5
40	4	2.26	27.7	8.1
35	2	2.18	23.1	6.8
30	-1	2.16	22.6	6.6
25	-4	2.15	22.2	6.5
20	-7	2.14	21.7	6.4
17	-8	2.13	21.5	6.3
15	-9	2.11	20.6	6.0
10	-12	2.07	18.5	5.4
5	-15	1.94	16.5	4.8
0	-18	1.80	14.5	4.2
-5	-21	1.67	12.5	3.7
-10	-23	1.54	10.4	3.0
-15	-26	1.41	8.4	2.5
-20	-29	1.28	6.4	1.9

HPXA12-042 - CB29M-46 - CB28UH-042 - HEATING PERFORMANCE @ 1350 cfm (635 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.01	48.2	14.1
60	16	2.97	45.9	13.5
55	13	2.93	43.6	12.8
50	10	2.89	41.3	12.1
47	8	2.86	40.0	11.7
45	7	2.83	37.8	11.1
40	4	2.76	32.4	9.5
35	2	2.69	27.0	7.9
30	-1	2.67	26.8	7.9
25	-4	2.65	26.6	7.8
20	-7	2.63	26.3	7.7
17	-8	2.61	26.2	7.7
15	-9	2.60	25.3	7.4
10	-12	2.56	23.0	6.7
5	-15	2.39	20.5	6.0
0	-18	2.23	18.0	5.3
-5	-21	2.06	15.4	4.5
-10	-23	1.90	12.9	3.8
-15	-26	1.73	10.4	3.0
-20	-29	1.57	7.9	2.3

RATINGS

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

HPXA12-042 — CB30M-46 - CB30U-41/46 - CBX32M-042 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1150	545	40.9	12.0	2.89	.73	.87	.99	39.1	11.5	3.29	.75	.89	1.00	37.3	10.9	3.76	.76	.91	1.00	35.3	10.3	4.31	.78	.93	1.00
	1350	635	42.0	12.3	2.88	.77	.92	1.00	40.3	11.8	3.28	.79	.94	1.00	38.3	11.2	3.75	.80	.96	1.00	36.3	10.6	4.30	.82	.98	1.00
	1550	730	43.0	12.6	2.89	.81	.96	1.00	41.2	12.1	3.29	.82	.98	1.00	39.3	11.5	3.75	.84	1.00	1.00	37.3	10.9	4.29	.86	1.00	1.00
67°F (19°C)	1150	545	43.6	12.8	2.89	.58	.71	.84	41.7	12.2	3.30	.59	.72	.86	39.7	11.6	3.75	.59	.74	.88	37.6	11.0	4.29	.61	.76	.90
	1350	635	44.6	13.1	2.90	.60	.74	.89	42.7	12.5	3.30	.61	.76	.91	40.6	11.9	3.76	.62	.78	.93	38.4	11.3	4.30	.63	.80	.95
	1550	730	45.4	13.3	2.91	.62	.78	.93	43.4	12.7	3.31	.63	.80	.95	41.3	12.1	3.78	.64	.82	.98	39.1	11.5	4.31	.65	.84	1.00
71°F (22°C)	1150	545	46.4	13.6	2.92	.44	.56	.68	44.4	13.0	3.32	.44	.57	.70	42.3	12.4	3.79	.44	.58	.71	40.2	11.8	4.32	.45	.59	.73
	1350	635	47.4	13.9	2.93	.44	.58	.72	45.4	13.3	3.34	.45	.59	.74	43.2	12.7	3.79	.45	.60	.75	40.9	12.0	4.33	.46	.62	.77
	1550	730	48.2	14.1	2.94	.45	.60	.76	46.1	13.5	3.34	.46	.62	.78	43.8	12.8	3.81	.46	.63	.80	41.5	12.2	4.35	.46	.64	.82

HPXA12-042 — CB29M-51 - CB28UH-048 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1150	545	41.4	12.1	2.89	.73	.86	.98	39.7	11.6	3.29	.74	.88	1.00	37.8	11.1	3.76	.76	.90	1.00	35.8	10.5	4.31	.78	.92	1.00
	1350	635	42.6	12.5	2.88	.76	.91	1.00	40.8	12.0	3.28	.78	.93	1.00	38.9	11.4	3.75	.79	.95	1.00	36.8	10.8	4.30	.82	.98	1.00
	1550	730	43.6	12.8	2.89	.80	.95	1.00	41.7	12.2	3.29	.81	.97	1.00	39.8	11.7	3.75	.84	.99	1.00	37.8	11.1	4.29	.86	1.00	1.00
67°F (19°C)	1150	545	44.2	13.0	2.89	.57	.70	.83	42.3	12.4	3.30	.58	.71	.85	40.3	11.8	3.75	.59	.73	.87	38.2	11.2	4.29	.60	.74	.89
	1350	635	45.2	13.2	2.90	.59	.74	.88	43.3	12.7	3.30	.60	.75	.90	41.2	12.1	3.76	.61	.77	.92	39.0	11.4	4.30	.62	.79	.94
	1550	730	46.0	13.5	2.91	.61	.77	.92	44.0	12.9	3.31	.62	.79	.94	41.8	12.3	3.78	.63	.81	.96	39.6	11.6	4.31	.65	.83	.99
71°F (22°C)	1150	545	47.0	13.8	2.92	.43	.56	.68	45.0	13.2	3.32	.44	.56	.69	42.9	12.6	3.79	.44	.57	.70	40.7	11.9	4.32	.44	.58	.72
	1350	635	48.1	14.1	2.93	.44	.58	.71	46.0	13.5	3.34	.44	.59	.73	43.8	12.8	3.79	.44	.60	.75	41.5	12.2	4.33	.45	.61	.77
	1550	730	48.9	14.3	2.94	.45	.60	.75	46.7	13.7	3.34	.45	.61	.77	44.4	13.0	3.81	.45	.62	.79	42.0	12.3	4.35	.46	.64	.81

HPXA12-042 - CB30M-46 - CB30U-41/46 - CBX32M-042 - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil														
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1150	545	47.1	13.8	3.09	36.7	10.8	2.92	25.5	7.5	2.75	19.5	5.7	2.50	9.5	2.8	1.85
1350	635	47.8	14.0	2.95	37.4	11.0	2.78	26.2	7.7	2.61	20.2	5.9	2.36	10.2	3.0	1.71
1550	730	48.3	14.2	2.84	37.9	11.1	2.67	26.7	7.8	2.50	20.7	6.1	2.25	10.7	3.1	1.60

HPXA12-042 - CB29M-51 - CB28UH-048 - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil														
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1150	545	47.8	14.0	3.13	37.1	10.9	3.03	25.5	7.5	2.94	19.3	5.7	2.71	9.2	2.7	2.02
1350	635	49.0	14.4	2.87	38.3	11.2	2.78	26.7	7.8	2.69	20.5	6.0	2.45	10.4	3.0	1.76
1550	730	48.5	14.2	2.98	37.8	11.1	2.88	26.2	7.7	2.79	20.0	5.9	2.56	9.9	2.9	1.87

HPXA12-042 - CB30M-46-CB30U-41/46 -CBX32M-042 - HEATING PERFORMANCE at 1350 cfm (635 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.95	47.8	14.0
60	16	2.91	45.5	13.3
55	13	2.87	43.2	12.7
50	10	2.83	40.9	12.0
47	8	2.81	39.6	11.6
45	7	2.78	37.4	11.0
40	4	2.71	32.0	9.4
35	2	2.65	26.7	7.8
30	-1	2.63	26.4	7.7
25	-4	2.61	26.2	7.7
20	-7	2.59	26.0	7.6
17	-8	2.57	25.8	7.6
15	-9	2.56	24.9	7.3
10	-12	2.52	22.6	6.6
5	-15	2.36	20.2	5.9
0	-18	2.20	17.7	5.2
-5	-21	2.03	15.2	4.5
-10	-23	1.87	12.7	3.7
-15	-26	1.71	10.2	3.0
-20	-29	1.55	7.8	2.3

HPXA12-042 - CB29M-51 - CB28UH-048 - HEATING PERFORMANCE at 1350 cfm (635 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.87	49.0	14.4
60	16	2.85	46.7	13.7
55	13	2.83	44.3	13.0
50	10	2.80	41.9	12.3
47	8	2.79	40.5	11.9
45	7	2.78	38.3	11.2
40	4	2.75	32.7	9.6
35	2	2.73	27.1	7.9
30	-1	2.71	26.9	7.9
25	-4	2.69	26.7	7.8
20	-7	2.67	26.5	7.8
17	-8	2.65	26.4	7.7
15	-9	2.64	25.4	7.4
10	-12	2.62	23.1	6.8
5	-15	2.45	20.5	6.0
0	-18	2.28	18.0	5.3
-5	-21	2.11	15.5	4.5
-10	-23	1.94	13.0	3.8
-15	-26	1.76	10.4	3.0
-20	-29	1.59	7.9	2.3

RATINGS

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

HPXA12-042 — CB30M-41 - CBX32M-036 COOLING CAPACITY

Entering Wet Bulb Temperature	Outdoor Air Temperature Entering Outdoor Coil																									
	Total Air Volume		85°F (29°C)					95°F (35°C)					105°F (41°C)					115°F (46°C)								
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb					
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh		kW	75°F 24°C	80°F 27°C	85°F 29°C		kBtuh	kW	75°F 24°C	80°F 27°C		85°F 29°C	kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1150	545	40.9	12.0	2.89	.73	.87	.99	39.1	11.5	3.29	.75	.89	1.00	37.3	10.9	3.76	.76	.91	1.00	35.3	10.3	4.31	.78	.93	1.00
	1350	635	42.0	12.3	2.88	.77	.92	1.00	40.3	11.8	3.28	.79	.94	1.00	38.3	11.2	3.75	.80	.96	1.00	36.3	10.6	4.30	.82	.98	1.00
	1525	720	42.9	12.6	2.89	.80	.96	1.00	41.1	12.0	3.29	.82	.97	1.00	39.2	11.5	3.75	.84	1.00	1.00	37.2	10.9	4.29	.86	1.00	1.00
67°F (19°C)	1150	545	43.6	12.8	2.89	.58	.71	.84	41.7	12.2	3.30	.59	.72	.86	39.7	11.6	3.75	.59	.74	.88	37.6	11.0	4.29	.61	.76	.90
	1350	635	44.6	13.1	2.90	.60	.74	.89	42.7	12.5	3.30	.61	.76	.91	40.6	11.9	3.76	.62	.78	.93	38.4	11.3	4.30	.63	.80	.95
	1525	720	45.3	13.3	2.91	.62	.78	.93	43.3	12.7	3.31	.63	.79	.95	41.2	12.1	3.77	.64	.82	.97	39.0	11.4	4.31	.65	.84	.99
71°F (22°C)	1150	545	46.4	13.6	2.92	.44	.56	.68	44.4	13.0	3.32	.44	.57	.70	42.3	12.4	3.79	.44	.58	.71	40.2	11.8	4.32	.45	.59	.73
	1350	635	47.4	13.9	2.93	.44	.58	.72	45.4	13.3	3.34	.45	.59	.74	43.2	12.7	3.79	.45	.60	.75	40.9	12.0	4.33	.46	.62	.77
	1525	720	48.1	14.1	2.93	.45	.60	.75	46.0	13.5	3.34	.45	.61	.77	43.8	12.8	3.80	.46	.63	.79	41.4	12.1	4.34	.47	.64	.81

HPXA12-042 — CB31MV-41 - CBX32MV-036 COOLING CAPACITY

Entering Wet Bulb Temperature	Outdoor Air Temperature Entering Outdoor Coil																									
	Total Air Volume		85°F (29°C)					95°F (35°C)					105°F (41°C)					115°F (46°C)								
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb					
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh		kW	75°F 24°C	80°F 27°C	85°F 29°C		kBtuh	kW	75°F 24°C	80°F 27°C		85°F 29°C	kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1135	535	40.7	11.9	2.89	.73	.86	.98	38.9	11.4	3.29	.74	.88	.99	37.1	10.9	3.76	.75	.90	1.00	35.1	10.3	4.31	.77	.92	1.00
	1275	600	41.5	12.2	2.88	.75	.89	1.00	39.7	11.6	3.29	.76	.91	1.00	37.8	11.1	3.76	.78	.93	1.00	35.8	10.5	4.30	.80	.96	1.00
	1400	660	42.2	12.4	2.80	.77	.92	1.00	40.4	11.8	3.19	.79	.94	1.00	38.5	11.3	3.64	.80	.96	1.00	36.4	10.7	4.18	.82	.99	1.00
67°F (19°C)	1135	535	43.3	12.7	2.89	.57	.70	.82	41.5	12.2	3.30	.58	.71	.84	39.5	11.6	3.76	.59	.73	.86	37.5	11.0	4.29	.60	.74	.89
	1275	600	44.1	12.9	2.90	.59	.72	.86	42.2	12.4	3.30	.59	.74	.88	40.2	11.8	3.76	.60	.75	.90	38.0	11.1	4.30	.61	.78	.92
	1400	660	44.6	13.1	2.82	.60	.75	.89	42.7	12.5	3.21	.61	.76	.91	40.7	11.9	3.66	.62	.78	.93	38.5	11.3	4.18	.63	.80	.96
71°F (22°C)	1135	535	46.2	13.5	2.92	.43	.55	.67	44.2	13.0	3.32	.43	.56	.69	42.1	12.3	3.79	.44	.57	.70	40.0	11.7	4.32	.44	.58	.72
	1275	600	46.9	13.7	2.92	.44	.57	.70	44.9	13.2	3.33	.44	.58	.71	42.8	12.5	3.79	.44	.59	.73	40.5	11.9	4.33	.45	.60	.75
	1400	660	47.5	13.9	2.85	.44	.58	.72	45.4	13.3	3.24	.44	.59	.74	43.3	12.7	3.69	.45	.60	.76	40.9	12.0	4.21	.45	.62	.78

HPXA12-042 - CB30M-41 - CBX32M-036 - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)	Air Temperature Entering Outdoor Coil																
	65°F (18°C)		45°F (7°C)		25°F (-4°C)		5°F (-15°C)		-15°F (-26°C)		Comp. Motor kW Input						
	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input							
cfm	L/s	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW
1150	545	47.1	13.8	3.09	36.8	10.8	2.92	25.6	7.5	2.75	19.5	5.7	2.50	9.6	2.8	1.85	
1350	635	47.8	14.0	2.95	37.5	11.0	2.78	26.3	7.7	2.61	20.2	5.9	2.36	10.3	3.0	1.71	
1550	730	48.5	14.2	2.86	38.2	11.2	2.69	27.0	7.9	2.52	20.9	6.1	2.27	11.0	3.2	1.62	

HPXA12-042 - CB31MV-41 - CBX32MV-036 - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)	Air Temperature Entering Outdoor Coil																
	65°F (18°C)		45°F (7°C)		25°F (-4°C)		5°F (-15°C)		-15°F (-26°C)		Comp. Motor kW Input						
	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input							
cfm	L/s	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW
1135	535	46.7	13.7	3.10	36.4	10.7	2.93	25.3	7.4	2.75	19.2	5.6	2.50	9.4	2.8	1.85	
1315	620	47.4	13.9	2.97	37.1	10.9	2.80	26.0	7.6	2.62	19.9	5.8	2.37	10.1	3.0	1.72	
1400	660	47.9	14.0	2.92	37.6	11.0	2.75	26.5	7.8	2.57	20.4	6.0	2.32	10.6	3.1	1.67	

HPXA12-042 - CB30M-41 - CBX32M-036 - HEATING PERFORMANCE AT 1350 cfm (635 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.95	47.8	14.0
60	16	2.91	45.5	13.3
55	13	2.87	43.3	12.7
50	10	2.83	41.0	12.0
47	8	2.81	39.6	11.6
45	7	2.78	37.5	11.0
40	4	2.71	32.1	9.4
35	2	2.65	26.7	7.8
30	-1	2.63	26.5	7.8
25	-4	2.61	26.3	7.7
20	-7	2.59	26.0	7.6
17	-8	2.57	25.9	7.6
15	-9	2.56	25.0	7.3
10	-12	2.52	22.7	6.7
5	-15	2.36	20.2	5.9
0	-18	2.20	17.7	5.2
-5	-21	2.03	15.2	4.5
-10	-23	1.87	12.7	3.7
-15	-26	1.71	10.3	3.0
-20	-29	1.55	7.8	2.3

HPXA12-042 - CB31MV-41 - CBX32MV-036 - HEATING PERFORMANCE AT 1315 cfm (620 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.97	47.4	13.9
60	16	2.93	45.2	13.2
55	13	2.89	42.9	12.6
50	10	2.85	40.6	11.9
47	8	2.83	39.2	11.5
45	7	2.80	37.1	10.9
40	4	2.73	31.8	9.3
35	2	2.66	26.4	7.7
30	-1	2.64	26.2	7.7
25	-4	2.62	26.0	7.6
20	-7	2.60	25.7	7.5
17	-8	2.59	25.6	7.5
15	-9	2.57	24.7	7.2
10	-12	2.53	22.4	6.6
5	-15	2.37	19.9	5.8
0	-18	2.21	17.5	5.1
-5	-21	2.04	15.0	4.4
-10	-23	1.88	12.6	3.7
-15	-26	1.72	10.1	3.0
-20	-29	1.55	7.7	2.3

RATINGS

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

HPXA12-042 — CB29M-65 - CB28UH-060 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1200	565	41.9	12.3	2.88	.74	.87	.99	40.1	11.8	3.28	.75	.89	1.00	38.1	11.2	3.75	.77	.92	1.00	36.1	10.6	4.30	.78	.94	1.00
	1400	660	43.0	12.6	2.88	.77	.92	1.00	41.2	12.1	3.27	.79	.94	1.00	39.2	11.5	3.75	.80	.96	1.00	37.1	10.9	4.29	.83	.99	1.00
	1600	755	43.9	12.9	2.88	.80	.96	1.00	42.1	12.3	3.28	.82	.98	1.00	40.1	11.8	3.75	.84	1.00	1.00	38.1	11.2	4.28	.87	1.00	1.00
67°F (19°C)	1200	565	44.5	13.0	2.89	.58	.71	.84	42.6	12.5	3.29	.58	.72	.86	40.6	11.9	3.75	.59	.74	.88	38.5	11.3	4.28	.60	.76	.90
	1400	660	45.5	13.3	2.90	.60	.75	.89	43.5	12.7	3.30	.61	.76	.91	41.4	12.1	3.76	.62	.78	.93	39.2	11.5	4.29	.63	.80	.96
	1600	755	46.3	13.6	2.90	.62	.78	.93	44.2	13.0	3.30	.63	.80	.95	42.1	12.3	3.77	.64	.82	.97	39.8	11.7	4.31	.66	.85	1.00
71°F (22°C)	1200	565	47.4	13.9	2.91	.43	.56	.68	45.4	13.3	3.32	.44	.57	.70	43.3	12.7	3.78	.44	.58	.71	41.0	12.0	4.31	.44	.59	.73
	1400	660	48.4	14.2	2.93	.44	.58	.72	46.3	13.6	3.33	.45	.59	.74	44.1	12.9	3.79	.45	.60	.76	41.7	12.2	4.33	.45	.62	.78
	1600	755	49.1	14.4	2.93	.45	.60	.76	47.0	13.8	3.33	.45	.62	.78	44.7	13.1	3.80	.46	.63	.80	42.3	12.4	4.34	.46	.64	.82

HPXA12-042 — CVP10-41/EC10Q3 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1150	545	41.1	12.0	2.89	.73	.86	.98	39.3	11.5	3.29	.74	.88	1.00	37.5	11.0	3.77	.75	.90	1.00	35.5	10.4	4.31	.77	.92	1.00
	1350	635	42.3	12.4	2.88	.76	.91	1.00	40.5	11.9	3.29	.78	.93	1.00	38.6	11.3	3.76	.80	.95	1.00	36.6	10.7	4.31	.81	.97	1.00
	1550	730	43.3	12.7	2.88	.80	.95	1.00	41.5	12.2	3.28	.81	.97	1.00	39.6	11.6	3.75	.83	.99	1.00	37.6	11.0	4.30	.86	1.00	1.00
67°F (19°C)	1150	545	43.8	12.8	2.89	.57	.70	.83	42.0	12.3	3.29	.58	.71	.85	40.0	11.7	3.76	.59	.73	.86	37.9	11.1	4.30	.60	.75	.89
	1350	635	44.9	13.2	2.90	.59	.74	.88	42.9	12.6	3.30	.60	.75	.90	40.9	12.0	3.75	.61	.77	.92	38.8	11.4	4.29	.62	.79	.94
	1550	730	45.7	13.4	2.90	.61	.77	.92	43.7	12.8	3.30	.62	.79	.94	41.6	12.2	3.76	.63	.81	.96	39.4	11.5	4.30	.65	.83	.98
71°F (22°C)	1150	545	46.7	13.7	2.91	.43	.55	.67	44.7	13.1	3.31	.43	.56	.69	42.6	12.5	3.78	.44	.57	.70	40.4	11.8	4.31	.44	.58	.72
	1350	635	47.7	14.0	2.92	.44	.58	.71	45.7	13.4	3.33	.44	.58	.73	43.5	12.7	3.79	.45	.60	.75	41.2	12.1	4.32	.45	.61	.77
	1550	730	48.5	14.2	2.93	.45	.60	.75	46.4	13.6	3.34	.45	.61	.77	44.2	13.0	3.79	.45	.62	.79	41.9	12.3	4.33	.46	.64	.81

HPXA12-042 - CB29M-65 - CB28UH-060 - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil														
		65°F (18°C)		45°F (7°C)		25°F (-4°C)		5°F (-15°C)		-15°F (-26°C)						
		Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input					
cfm	L/s	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW					
1150	545	47.6	14.0	3.14	37.3	10.9	2.97	26.1	7.6	2.80	20.1	5.9	2.55	10.0	2.9	1.88
1350	635	48.0	14.1	3.00	37.7	11.0	2.84	26.5	7.8	2.67	20.5	6.0	2.42	10.4	3.0	1.75
1550	730	48.8	14.3	2.90	38.5	11.3	2.74	27.3	8.0	2.57	21.3	6.2	2.32	11.2	3.3	1.65

HPXA12-042 - CVP10-41/EC10Q3 - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil														
		65°F (18°C)		45°F (7°C)		25°F (-4°C)		5°F (-15°C)		-15°F (-26°C)						
		Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input					
cfm	L/s	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW					
1150	545	47.2	13.8	3.10	36.9	10.8	2.93	25.8	7.6	2.76	19.8	5.8	2.51	9.7	2.8	1.85
1350	635	47.8	14.0	2.96	37.5	11.0	2.79	26.4	7.7	2.62	20.4	6.0	2.37	10.3	3.0	1.71
1550	730	48.6	14.2	2.86	38.3	11.2	2.69	27.2	8.0	2.52	21.2	6.2	2.27	11.1	3.3	1.61

HPXA12-042 - CB29M-65 - CB28UH-060 - HEATING PERFORMANCE AT 1350 cfm (635 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.00	48.0	14.1
60	16	2.97	45.8	13.4
55	13	2.93	43.5	12.7
50	10	2.89	41.2	12.1
47	8	2.87	39.8	11.7
45	7	2.84	37.7	11.0
40	4	2.77	32.3	9.5
35	2	2.70	26.9	7.9
30	-1	2.69	26.7	7.8
25	-4	2.67	26.5	7.8
20	-7	2.65	26.3	7.7
17	-8	2.64	26.2	7.7
15	-9	2.62	25.3	7.4
10	-12	2.58	23.0	6.7
5	-15	2.42	20.5	6.0
0	-18	2.25	17.9	5.2
-5	-21	2.08	15.4	4.5
-10	-23	1.92	12.9	3.8
-15	-26	1.75	10.4	3.0
-20	-29	1.58	7.8	2.3

HPXA12-042 - CVP10-41/EC10Q3 - HEATING PERFORMANCE AT 1350 cfm (635 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.96	47.8	14.0
60	16	2.92	45.5	13.3
55	13	2.88	43.3	12.7
50	10	2.84	41.0	12.0
47	8	2.82	39.7	11.6
45	7	2.79	37.5	11.0
40	4	2.73	32.2	9.4
35	2	2.66	26.8	7.9
30	-1	2.64	26.6	7.8
25	-4	2.62	26.4	7.7
20	-7	2.60	26.2	7.7
17	-8	2.58	26.1	7.6
15	-9	2.57	25.2	7.4
10	-12	2.53	22.9	6.7
5	-15	2.37	20.4	6.0
0	-18	2.20	17.9	5.2
-5	-21	2.04	15.4	4.5
-10	-23	1.88	12.8	3.8
-15	-26	1.71	10.3	3.0
-20	-29	1.55	7.8	2.3

RATINGS

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

HPXA12-042 — CVP10-46/EC10Q4 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1150	545	41.1	12.0	2.89	.73	.86	1.00	39.3	11.5	3.29	.74	.88	1.00	37.5	11.0	3.77	.75	.90	1.00	35.5	10.4	4.31	.77	.92	1.00
	1350	635	42.3	12.4	2.88	.76	.91	1.00	40.5	11.9	3.29	.78	.93	1.00	38.6	11.3	3.76	.80	.95	1.00	36.6	10.7	4.31	.81	.97	1.00
	1550	730	43.3	12.7	2.88	.80	.95	1.00	41.5	12.2	3.28	.81	.97	1.00	39.6	11.6	3.75	.83	.99	1.00	37.6	11.0	4.30	.86	1.00	1.00
67°F (19°C)	1150	545	43.8	12.8	2.89	.57	.70	.83	42.0	12.3	3.29	.58	.71	.85	40.0	11.7	3.76	.59	.73	.86	37.9	11.1	4.30	.60	.75	.89
	1350	635	44.9	13.2	2.90	.59	.74	.88	42.9	12.6	3.30	.60	.75	.90	40.9	12.0	3.75	.61	.77	.92	38.8	11.4	4.29	.62	.79	.94
	1550	730	45.7	13.4	2.90	.61	.77	.92	43.7	12.8	3.30	.62	.79	.94	41.6	12.2	3.76	.63	.81	.96	39.4	11.5	4.30	.65	.83	.98
71°F (22°C)	1150	545	46.7	13.7	2.91	.43	.55	.67	44.7	13.1	3.31	.43	.56	.69	42.6	12.5	3.78	.44	.57	.70	40.4	11.8	4.31	.44	.58	.72
	1350	635	47.7	14.0	2.92	.44	.58	.71	45.7	13.4	3.33	.44	.58	.73	43.5	12.7	3.79	.45	.60	.75	41.2	12.1	4.32	.45	.61	.77
	1550	730	48.5	14.2	2.93	.45	.60	.75	46.4	13.6	3.34	.45	.61	.77	44.2	13.0	3.79	.45	.62	.79	41.9	12.3	4.33	.46	.64	.81

HPXA12-042 — C33-38A/B - CX34-38A/B-6F - C33-44C COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1150	545	41.4	12.1	2.90	.72	.85	.97	39.6	11.6	3.31	.73	.87	.98	37.8	11.1	3.78	.74	.88	1.00	35.8	10.5	4.33	.76	.91	1.00
	1350	635	42.6	12.5	2.89	.75	.89	1.00	40.8	12.0	3.30	.76	.91	1.00	38.8	11.4	3.77	.78	.93	1.00	36.8	10.8	4.32	.80	.96	1.00
	1550	730	43.6	12.8	2.89	.78	.93	1.00	41.7	12.2	3.29	.80	.95	1.00	39.8	11.7	3.77	.81	.97	1.00	37.7	11.0	4.31	.84	.99	1.00
67°F (19°C)	1150	545	44.2	13.0	2.89	.56	.69	.82	42.3	12.4	3.30	.57	.70	.83	40.3	11.8	3.77	.58	.72	.85	38.2	11.2	4.31	.59	.73	.87
	1350	635	45.2	13.2	2.90	.58	.72	.86	43.3	12.7	3.30	.59	.74	.88	41.3	12.1	3.77	.60	.75	.90	39.1	11.5	4.30	.61	.77	.92
	1550	730	46.0	13.5	2.91	.60	.76	.90	44.0	12.9	3.31	.61	.77	.92	42.0	12.3	3.77	.62	.79	.95	39.7	11.6	4.31	.64	.82	.97
71°F (22°C)X	1150	545	47.1	13.8	2.91	.43	.55	.66	45.1	13.2	3.32	.43	.55	.68	43.0	12.6	3.79	.43	.56	.69	40.8	12.0	4.33	.44	.57	.71
	1350	635	48.2	14.1	2.92	.43	.57	.70	46.1	13.5	3.33	.44	.57	.71	43.9	12.9	3.79	.44	.58	.73	41.6	12.2	4.33	.44	.60	.75
	1550	730	48.9	14.3	2.93	.44	.59	.74	46.8	13.7	3.34	.44	.60	.75	44.6	13.1	3.80	.45	.61	.77	42.3	12.4	4.34	.45	.62	.79

HPXA12-042 - CVP10-46/EC10Q4 - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)	Total Air Volume		Air Temperature Entering Outdoor Coil													
			65°F (18°C)		45°F (7°C)		25°F (-4°C)		5°F (-15°C)		-15°F (-26°C)					
			Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input				
cfm	L/s	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	
1150	545	47.7	14.0	3.01	37.4	11.0	2.85	26.3	7.7	2.67	20.3	5.9	2.42	10.2	3.0	1.77
1350	635	47.8	14.0	2.96	37.5	11.0	2.79	26.4	7.7	2.62	20.4	6.0	2.37	10.3	3.0	1.71
1550	730	48.7	14.3	2.86	38.4	11.3	2.69	27.3	8.0	2.52	21.3	6.2	2.27	11.2	3.3	1.61

HPXA12-042 - C33-38A/B - CX34-38A/B-6F - C33-44C - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)	Total Air Volume		Air Temperature Entering Outdoor Coil													
			65°F (18°C)		45°F (7°C)		25°F (-4°C)		5°F (-15°C)		-15°F (-26°C)					
			Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input				
cfm	L/s	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	
1150	545	46.7	13.7	3.26	36.5	10.7	3.08	25.5	7.5	2.89	19.6	5.7	2.63	9.5	2.8	1.95
1350	635	47.5	13.9	3.11	37.3	10.9	2.92	26.3	7.7	2.74	20.4	6.0	2.47	10.3	3.0	1.79
1550	730	48.1	14.1	2.99	37.9	11.1	2.81	26.9	7.9	2.62	21.0	6.2	2.36	10.9	3.2	1.68

HPXA12-042 - CVP10-46/EC10Q4 - HEATING PERFORMANCE at 1350 cfm (635 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.96	47.8	14.0
60	16	2.92	45.5	13.3
55	13	2.88	43.3	12.7
50	10	2.84	41.0	12.0
47	8	2.82	39.7	11.6
45	7	2.79	37.5	11.0
40	4	2.73	32.2	9.4
35	2	2.66	26.8	7.9
30	-1	2.64	26.6	7.8
25	-4	2.62	26.4	7.7
20	-7	2.60	26.2	7.7
17	-8	2.58	26.1	7.6
15	-9	2.57	25.2	7.4
10	-12	2.53	22.9	6.7
5	-15	2.37	20.4	6.0
0	-18	2.20	17.9	5.2
-5	-21	2.04	15.4	4.5
-10	-23	1.88	12.8	3.8
-15	-26	1.71	10.3	3.0
-20	-29	1.55	7.8	2.3

HPXA12-042 - C33-36A/B/C - CX34-36A/B/C-6F - C33-42B - CX34-42B-6F HEATING PERFORMANCE at 1350 cfm (635 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.24	48.3	14.2
60	16	3.19	46.0	13.5
55	13	3.14	43.7	12.8
50	10	3.10	41.4	12.1
47	8	3.07	40.1	11.8
45	7	3.04	37.9	11.1
40	4	2.96	32.5	9.5
35	2	2.88	27.1	7.9
30	-1	2.85	26.9	7.9
25	-4	2.83	26.7	7.8
20	-7	2.80	26.5	7.8
17	-8	2.79	26.4	7.7
15	-9	2.77	25.5	7.5
10	-12	2.72	23.2	6.8
5	-15	2.55	20.6	6.0
0	-18	2.37	18.1	5.3
-5	-21	2.20	15.6	4.6
-10	-23	2.02	13.0	3.8
-15	-26	1.85	10.5	3.1
-20	-29	1.67	7.9	2.3

RATINGS

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

HPXA12-042 — C33-36A/B/C - CX34-36A/B/C-6F - C33-42B - CX34-42B-6F COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)					95°F (35°C)					105°F (41°C)					115°F (46°C)								
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1150	545	40.0	11.7	2.91	.73	.87	.98	38.4	11.3	3.32	.74	.88	.99	36.6	10.7	3.79	.76	.90	1.00	34.8	10.2	4.34	.78	.92	1.00
	1350	635	41.1	12.0	2.90	.76	.91	1.00	39.4	11.5	3.31	.78	.93	1.00	37.6	11.0	3.78	.80	.95	1.00	35.8	10.5	4.33	.82	.97	1.00
	1550	730	42.0	12.3	2.90	.80	.95	1.00	40.3	11.8	3.30	.82	.97	1.00	38.5	11.3	3.78	.83	.98	1.00	36.6	10.7	4.33	.86	1.00	1.00
67°F (19°C)	1150	545	42.6	12.5	2.90	.57	.70	.83	40.8	12.0	3.31	.58	.72	.85	38.9	11.4	3.79	.59	.73	.87	36.9	10.8	4.32	.60	.75	.89
	1350	635	43.5	12.7	2.89	.59	.74	.88	41.7	12.2	3.30	.60	.75	.90	39.7	11.6	3.78	.61	.77	.92	37.7	11.0	4.32	.62	.79	.94
	1550	730	44.3	13.0	2.89	.61	.78	.92	42.4	12.4	3.30	.62	.79	.94	40.4	11.8	3.78	.63	.81	.96	38.3	11.2	4.31	.65	.83	.98
71°F (22°C)	1150	545	45.4	13.3	2.90	.43	.55	.68	43.5	12.7	3.30	.43	.56	.69	41.5	12.2	3.77	.43	.57	.70	39.4	11.5	4.32	.44	.58	.72
	1350	635	46.3	13.6	2.90	.44	.58	.72	44.4	13.0	3.31	.44	.58	.73	42.3	12.4	3.77	.44	.60	.75	40.2	11.8	4.31	.45	.61	.77
	1550	730	46.9	13.7	2.91	.45	.60	.75	45.0	13.2	3.31	.45	.61	.77	42.9	12.6	3.78	.45	.62	.79	40.7	11.9	4.32	.46	.64	.81

HPXA12-048 — CB30M-46 - CB30U-41/46 - CBX32M-042 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)					95°F (35°C)					105°F (41°C)					115°F (46°C)								
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1350	635	47.0	13.8	3.06	.72	.86	.97	44.9	13.2	3.47	.74	.88	.99	42.7	12.5	3.96	.76	.90	1.00	40.3	11.8	4.53	.78	.93	1.00
	1550	730	48.1	14.1	3.06	.76	.90	1.00	45.9	13.5	3.48	.77	.92	1.00	43.7	12.8	3.96	.79	.94	1.00	41.3	12.1	4.53	.81	.97	1.00
	1750	825	49.0	14.4	3.07	.79	.94	1.00	46.8	13.7	3.48	.80	.96	1.00	44.6	13.1	3.96	.82	.98	1.00	42.2	12.4	4.54	.85	.99	1.00
67°F (19°C)	1350	635	49.9	14.6	3.07	.57	.70	.83	47.7	14.0	3.48	.58	.71	.85	45.3	13.3	3.97	.58	.73	.87	42.7	12.5	4.54	.60	.75	.90
	1550	730	50.8	14.9	3.08	.59	.73	.87	48.5	14.2	3.49	.60	.75	.89	46.1	13.5	3.97	.61	.77	.91	43.4	12.7	4.55	.62	.79	.94
	1750	825	51.6	15.1	3.08	.60	.76	.91	49.2	14.4	3.50	.61	.78	.93	46.7	13.7	3.98	.63	.80	.95	44.0	12.9	4.55	.64	.83	.98
71°F (22°C)	1350	635	53.1	15.6	3.09	.43	.55	.68	50.7	14.9	3.50	.43	.56	.69	48.2	14.1	3.99	.43	.57	.71	45.5	13.3	4.56	.44	.58	.73
	1550	730	54.1	15.9	3.09	.43	.57	.71	51.6	15.1	3.51	.44	.58	.72	48.9	14.3	3.99	.44	.59	.74	46.1	13.5	4.56	.44	.61	.77
	1750	825	54.8	16.1	3.10	.44	.59	.74	52.3	15.3	3.51	.44	.60	.76	49.6	14.5	4.00	.45	.61	.78	46.7	13.7	4.57	.45	.63	.81

HPXA12-042 - C33-36A/B/C - CX34-36A/B/C-6F - C33-42B - CX34-42B-6F - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)	Total Air Volume		Air Temperature Entering Outdoor Coil														
			65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
			Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
kBtuh	kW	kBtuh	kW	kBtuh		kW	kBtuh		kW	kBtuh		kW	kBtuh		kW		
1150	545	47.6	14.0	3.40	37.2	10.9	3.20	26.0	7.6	2.99	19.9	5.8	2.71	9.8	2.9	2.01	
1350	635	48.3	14.2	3.24	37.9	11.1	3.04	26.7	7.8	2.83	20.6	6.0	2.55	10.5	3.1	1.85	
1550	730	48.9	14.3	3.12	38.5	11.3	2.92	27.3	8.0	2.71	21.2	6.2	2.43	11.1	3.3	1.73	

HPXA12-048 - CB30M-46 - CB30U-41/46 - CBX32M-042 - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)	Total Air Volume		Air Temperature Entering Outdoor Coil														
			65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
			Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
kBtuh	kW	kBtuh	kW	kBtuh		kW	kBtuh		kW	kBtuh		kW	kBtuh		kW		
1350	635	57.7	16.9	3.88	45.4	13.3	3.61	32.3	9.5	3.33	24.4	7.2	2.99	11.9	3.5	2.22	
1550	730	58.5	17.1	3.72	46.2	13.5	3.45	33.1	9.7	3.17	25.2	7.4	2.83	12.7	3.7	2.06	
1750	825	59.0	17.3	3.60	46.7	13.7	3.33	33.6	9.8	3.05	25.7	7.5	2.71	13.2	3.9	1.94	

HPXA12-042 - C33-38A/B - CX34-38A/B-6F - C33-44C HEATING PERFORMANCE @ 1350 cfm (635 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.11	47.5	13.9
60	16	3.06	45.3	13.3
55	13	3.02	43.0	12.6
50	10	2.98	40.8	12.0
47	8	2.95	39.5	11.6
45	7	2.92	37.3	10.9
40	4	2.85	32.0	9.4
35	2	2.78	26.7	7.8
30	-1	2.76	26.5	7.8
25	-4	2.74	26.3	7.7
20	-7	2.71	26.1	7.6
17	-8	2.70	26.0	7.6
15	-9	2.68	25.1	7.4
10	-12	2.64	22.9	6.7
5	-15	2.47	20.4	6.0
0	-18	2.30	17.9	5.2
-5	-21	2.13	15.3	4.5
-10	-23	1.96	12.8	3.8
-15	-26	1.79	10.3	3.0
-20	-29	1.62	7.8	2.3

HPXA12-048 - CB30M-46-CB30U-41/46- CBX32M-042 - HEATING PERFORMANCE at 1550 cfm (730 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.72	58.5	17.1
60	16	3.65	55.7	16.3
55	13	3.59	53.0	15.5
50	10	3.53	50.3	14.7
47	8	3.49	48.6	14.2
45	7	3.45	46.2	13.5
40	4	3.35	40.3	11.8
35	2	3.24	34.4	10.1
30	-1	3.21	33.7	9.9
25	-4	3.17	33.1	9.7
20	-7	3.13	32.5	9.5
17	-8	3.11	32.1	9.4
15	-9	3.08	31.0	9.1
10	-12	3.02	28.3	8.3
5	-15	2.83	25.2	7.4
0	-18	2.63	22.1	6.5
-5	-21	2.44	19.0	5.6
-10	-23	2.25	15.9	4.7
-15	-26	2.06	12.7	3.7
-20	-29	1.87	9.6	2.8

RATINGS

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

HPXA12-048 — CB29M-51 - CB28UH-048 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1540	725	49.2	14.4	3.06	.75	.90	1.00	47.0	13.8	3.48	.76	.92	1.00	44.7	13.1	3.96	.78	.94	1.00	42.2	12.4	4.53	.80	.97	1.00
	1740	820	50.2	14.7	3.07	.78	.93	1.00	48.0	14.1	3.48	.79	.95	1.00	45.7	13.4	3.96	.82	.97	1.00	43.2	12.7	4.54	.84	.99	1.00
	1940	915	51.0	14.9	3.07	.81	.97	1.00	48.9	14.3	3.48	.83	.98	1.00	46.6	13.7	3.97	.85	1.00	1.00	44.2	13.0	4.55	.88	1.00	1.00
67°F (19°C)	1540	725	52.1	15.3	3.08	.58	.72	.86	49.7	14.6	3.49	.59	.74	.89	47.2	13.8	3.97	.60	.76	.91	44.4	13.0	4.55	.61	.78	.94
	1740	820	52.9	15.5	3.08	.60	.75	.90	50.4	14.8	3.50	.61	.77	.92	47.9	14.0	3.98	.62	.79	.95	45.1	13.2	4.55	.64	.82	.97
	1940	915	53.5	15.7	3.08	.61	.79	.94	51.1	15.0	3.50	.63	.81	.96	48.4	14.2	3.98	.64	.83	.98	45.6	13.4	4.56	.66	.86	1.00
71°F (22°C)	1540	725	55.4	16.2	3.09	.43	.56	.70	52.9	15.5	3.51	.43	.57	.72	50.2	14.7	3.99	.43	.59	.74	47.3	13.9	4.56	.44	.60	.76
	1740	820	56.1	16.4	3.10	.43	.58	.73	53.6	15.7	3.51	.44	.59	.75	50.8	14.9	4.00	.44	.61	.77	47.8	14.0	4.57	.45	.63	.80
	1940	915	56.7	16.6	3.10	.44	.60	.77	54.1	15.9	3.51	.45	.62	.79	51.3	15.0	4.00	.45	.63	.81	48.3	14.2	4.57	.46	.65	.84

HPXA12-048 — CB29M-65 - CB28UH-060 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1540	725	49.2	14.4	3.06	.75	.90	1.00	47.0	13.8	3.48	.76	.92	1.00	44.7	13.1	3.96	.78	.94	1.00	42.2	12.4	4.53	.80	.97	1.00
	1740	820	50.2	14.7	3.07	.78	.93	1.00	48.0	14.1	3.48	.79	.95	1.00	45.7	13.4	3.96	.82	.97	1.00	43.2	12.7	4.54	.84	.99	1.00
	1940	915	51.0	14.9	3.07	.81	.97	1.00	48.9	14.3	3.48	.83	.98	1.00	46.6	13.7	3.97	.85	1.00	1.00	44.2	13.0	4.55	.88	1.00	1.00
67°F (19°C)	1540	725	52.1	15.3	3.08	.58	.72	.86	49.7	14.6	3.49	.59	.74	.89	47.2	13.8	3.97	.60	.76	.91	44.4	13.0	4.55	.61	.78	.94
	1740	820	52.9	15.5	3.08	.60	.75	.90	50.4	14.8	3.50	.61	.77	.92	47.9	14.0	3.98	.62	.79	.95	45.1	13.2	4.55	.64	.82	.97
	1940	915	53.5	15.7	3.08	.61	.79	.94	51.1	15.0	3.50	.63	.81	.96	48.4	14.2	3.98	.64	.83	.98	45.6	13.4	4.56	.66	.86	1.00
71°F (22°C)	1540	725	55.4	16.2	3.09	.43	.56	.70	52.9	15.5	3.51	.43	.57	.72	50.2	14.7	3.99	.43	.59	.74	47.3	13.9	4.56	.44	.60	.76
	1740	820	56.1	16.4	3.10	.43	.58	.73	53.6	15.7	3.51	.44	.59	.75	50.8	14.9	4.00	.44	.61	.77	47.8	14.0	4.57	.45	.63	.80
	1940	915	56.7	16.6	3.10	.44	.60	.77	54.1	15.9	3.51	.45	.62	.79	51.3	15.0	4.00	.45	.63	.81	48.3	14.2	4.57	.46	.65	.84

HPXA12-048 - CB29M-51 - CB28UH-048 - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)	Total Air Volume		Air Temperature Entering Outdoor Coil														
			65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
			Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
kBtuh	kW	kBtuh	kW	kBtuh		kW	kBtuh		kW	kBtuh		kW	kBtuh		kW		
1540	725	58.5	17.1	3.88	46.3	13.6	3.62	33.1	9.7	3.35	25.2	7.4	3.01	12.4	3.6	2.23	
1740	820	59.2	17.3	3.75	47.0	13.8	3.49	33.8	9.9	3.22	25.9	7.6	2.87	13.1	3.8	2.09	
1940	915	60.2	17.6	3.64	48.0	14.1	3.38	34.8	10.2	3.11	26.9	7.9	2.77	14.1	4.1	1.99	

HPXA12-048 - CB29M-65 - CB28UH-060 - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)	Total Air Volume		Air Temperature Entering Outdoor Coil														
			65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
			Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
kBtuh	kW	kBtuh	kW	kBtuh		kW	kBtuh		kW	kBtuh		kW	kBtuh		kW		
1540	725	58.6	17.2	3.88	45.8	13.4	3.62	31.8	9.3	3.35	25.2	7.4	3.01	12.3	3.6	2.23	
1740	820	59.4	17.4	3.75	46.6	13.7	3.49	32.6	9.6	3.22	26.0	7.6	2.87	13.1	3.8	2.09	
1940	915	60.0	17.6	3.64	47.2	13.8	3.38	33.2	9.7	3.11	26.6	7.8	2.77	13.7	4.0	1.99	

HPXA12-048 - CB29M-51 - CB28UH-048 - HEATING PERFORMANCE AT 1740 cfm (820 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.75	59.2	17.3
60	16	3.69	56.5	16.6
55	13	3.63	53.8	15.8
50	10	3.56	51.0	14.9
47	8	3.53	49.4	14.5
45	7	3.49	47.0	13.8
40	4	3.39	41.0	12.0
35	2	3.29	35.0	10.3
30	-1	3.25	34.4	10.1
25	-4	3.22	33.8	9.9
20	-7	3.18	33.2	9.7
17	-8	3.16	32.9	9.6
15	-9	3.13	31.8	9.3
10	-12	3.07	29.1	8.5
5	-15	2.87	25.9	7.6
0	-18	2.68	22.7	6.7
-5	-21	2.48	19.5	5.7
-10	-23	2.29	16.3	4.8
-15	-26	2.09	13.1	3.8
-20	-29	1.89	9.9	2.9

HPXA12-048 - CB29M-65 - CB28UH-060 - HEATING PERFORMANCE AT 1740 cfm (820 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.75	59.4	17.4
60	16	3.69	56.6	16.6
55	13	3.63	53.9	15.8
50	10	3.56	51.2	15.0
47	8	3.53	49.5	14.5
45	7	3.49	46.6	13.7
40	4	3.39	39.4	11.5
35	2	3.29	32.1	9.4
30	-1	3.25	32.4	9.5
25	-4	3.22	32.6	9.6
20	-7	3.18	32.9	9.6
17	-8	3.16	33.0	9.7
15	-9	3.13	31.9	9.3
10	-12	3.07	29.2	8.6
5	-15	2.87	26.0	7.6
0	-18	2.68	22.8	6.7
-5	-21	2.48	19.6	5.7
-10	-23	2.29	16.3	4.8
-15	-26	2.09	13.1	3.8
-20	-29	1.89	9.9	2.9

RATINGS

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

HPXA12-048 — CB30M-51 - CB30U-51 - CBX32M-048 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1570	740	50.6	14.8	3.07	.76	.91	1.00	48.3	14.2	3.49	.77	.93	1.00	45.8	13.4	3.98	.79	.95	1.00	43.2	12.7	4.55	.81	.97	1.00
	1740	820	51.5	15.1	3.08	.78	.94	1.00	49.1	14.4	3.49	.80	.96	1.00	46.6	13.7	3.98	.82	.98	1.00	44.1	12.9	4.55	.85	1.00	1.00
	1910	900	52.3	15.3	3.09	.81	.97	1.00	49.9	14.6	3.50	.83	.98	1.00	47.5	13.9	3.98	.85	1.00	1.00	45.0	13.2	4.55	.88	1.00	1.00
67°F (19°C)	1570	740	53.7	15.7	3.09	.59	.73	.87	51.2	15.0	3.51	.60	.75	.89	48.4	14.2	3.99	.61	.77	.92	45.5	13.3	4.56	.62	.80	.95
	1740	820	54.4	15.9	3.10	.60	.76	.91	51.8	15.2	3.51	.61	.78	.93	49.0	14.4	4.00	.63	.80	.95	46.1	13.5	4.57	.64	.83	.98
	1910	900	55.0	16.1	3.10	.62	.79	.94	52.4	15.4	3.51	.63	.81	.96	49.6	14.5	4.00	.65	.83	.98	46.5	13.6	4.57	.66	.86	1.00
71°F (22°C)	1570	740	57.2	16.8	3.11	.43	.57	.71	54.5	16.0	3.53	.44	.58	.73	51.5	15.1	4.01	.44	.59	.75	48.5	14.2	4.58	.45	.61	.77
	1740	820	57.9	17.0	3.12	.44	.59	.74	55.1	16.1	3.53	.44	.60	.76	52.1	15.3	4.01	.45	.61	.78	49.0	14.4	4.58	.45	.63	.80
	1910	900	58.4	17.1	3.12	.45	.61	.77	55.6	16.3	3.53	.45	.62	.79	52.6	15.4	4.02	.46	.63	.81	49.4	14.5	4.58	.46	.65	.84

HPXA12-048 — CB30M-65 - CB30U-65 - CBX32M-060 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1540	725	50.6	14.8	3.06	.75	.90	1.00	48.3	14.2	3.47	.77	.92	1.00	45.8	13.4	3.96	.79	.94	1.00	43.1	12.6	4.53	.81	.97	1.00
	1740	820	51.6	15.1	3.07	.78	.94	1.00	49.2	14.4	3.48	.80	.96	1.00	46.7	13.7	3.96	.82	.98	1.00	44.1	12.9	4.53	.85	1.00	1.00
	1940	915	52.5	15.4	3.07	.81	.97	1.00	50.2	14.7	3.48	.83	.99	1.00	47.8	14.0	3.96	.86	1.00	1.00	45.3	13.3	4.53	.89	1.00	1.00
67°F (19°C)	1540	725	53.7	15.7	3.07	.58	.73	.87	51.2	15.0	3.49	.59	.74	.89	48.4	14.2	3.97	.60	.76	.91	45.5	13.3	4.54	.62	.79	.94
	1740	820	54.5	16.0	3.08	.60	.76	.91	51.9	15.2	3.50	.61	.78	.93	49.1	14.4	3.98	.63	.80	.95	46.2	13.5	4.54	.64	.83	.98
	1940	915	55.2	16.2	3.09	.62	.79	.94	52.6	15.4	3.50	.63	.81	.97	49.7	14.6	3.98	.65	.84	.99	46.7	13.7	4.55	.67	.87	1.00
71°F (22°C)	1540	725	57.1	16.7	3.10	.43	.57	.70	54.5	16.0	3.51	.43	.58	.72	51.5	15.1	3.99	.44	.59	.74	48.4	14.2	4.56	.44	.61	.76
	1740	820	58.0	17.0	3.10	.44	.59	.74	55.2	16.2	3.51	.44	.60	.76	52.2	15.3	3.99	.45	.61	.78	49.1	14.4	4.56	.45	.63	.80
	1940	915	58.6	17.2	3.11	.45	.61	.77	55.8	16.4	3.52	.45	.62	.79	52.8	15.5	4.00	.46	.64	.82	49.5	14.5	4.56	.46	.66	.85

HPXA12-048 - CB30M-51 - CB30U-51 - CBX32M-048 - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil														
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
kBtuh	kW	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1570	740	57.2	16.8	3.41	45.1	13.2	3.20	32.1	9.4	2.99	24.2	7.1	2.70	12.0	3.5	1.98
1740	820	57.8	16.9	3.32	45.7	13.4	3.11	32.7	9.6	2.90	24.8	7.3	2.61	12.6	3.7	1.89
1910	900	58.2	17.1	3.24	46.1	13.5	3.03	33.1	9.7	2.82	25.2	7.4	2.53	13.0	3.8	1.81

HPXA12-048 - CB30M-65 - CB30U-65 - CBX32M-060 - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil														
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
kBtuh	kW	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1540	725	57.0	16.7	3.46	44.9	13.2	3.26	32.0	9.4	3.05	24.1	7.1	2.76	11.9	3.5	2.03
1740	820	57.7	16.9	3.35	45.6	13.4	3.15	32.7	9.6	2.94	24.8	7.3	2.65	12.6	3.7	1.92
1940	915	58.3	17.1	3.26	46.2	13.5	3.06	33.3	9.8	2.85	25.4	7.4	2.56	13.2	3.9	1.83

HPXA12-048 - CB30M/U-51 - CBX32M-048 - HEATING PERFORMANCE AT 1740 cfm (820 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.32	57.8	16.9
60	16	3.27	55.1	16.1
55	13	3.22	52.4	15.4
50	10	3.17	49.7	14.6
47	8	3.14	48.0	14.1
45	7	3.11	45.7	13.4
40	4	3.04	39.8	11.7
35	2	2.96	34.0	10.0
30	-1	2.93	33.3	9.8
25	-4	2.90	32.7	9.6
20	-7	2.87	32.1	9.4
17	-8	2.86	31.7	9.3
15	-9	2.84	30.6	9.0
10	-12	2.79	27.9	8.2
5	-15	2.61	24.8	7.3
0	-18	2.43	21.8	6.4
-5	-21	2.25	18.7	5.5
-10	-23	2.07	15.6	4.6
-15	-26	1.89	12.6	3.7
-20	-29	1.71	9.5	2.8

HPXA12-048 - CB30M/U-65 - CBX32M-060 - HEATING PERFORMANCE AT 1740 cfm (820 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.35	57.7	16.9
60	16	3.31	55.0	16.1
55	13	3.26	52.3	15.3
50	10	3.21	49.6	14.5
47	8	3.18	47.9	14.0
45	7	3.15	45.6	13.4
40	4	3.07	39.7	11.6
35	2	3.00	33.9	9.9
30	-1	2.97	33.3	9.8
25	-4	2.94	32.7	9.6
20	-7	2.91	32.1	9.4
17	-8	2.89	31.7	9.3
15	-9	2.88	30.6	9.0
10	-12	2.83	27.9	8.2
5	-15	2.65	24.8	7.3
0	-18	2.46	21.8	6.4
-5	-21	2.28	18.7	5.5
-10	-23	2.10	15.6	4.6
-15	-26	1.92	12.6	3.7
-20	-29	1.74	9.5	2.8

RATINGS

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

HPXA12-048 — CB31MV-51 - CBX32MV-048 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1555	735	50.6	14.8	3.07	.76	.91	1.00	48.2	14.1	3.49	.78	.93	1.00	45.8	13.4	3.98	.80	.95	1.00	43.1	12.6	4.55	.82	.98	1.00
	1725	815	51.4	15.1	3.08	.79	.94	1.00	49.1	14.4	3.49	.81	.96	1.00	46.6	13.7	3.98	.83	.99	1.00	44.0	12.9	4.55	.86	1.00	1.00
	2005	945	52.7	15.4	2.99	.83	.99	1.00	50.4	14.8	3.39	.85	1.00	1.00	48.0	14.1	3.86	.88	1.00	1.00	45.5	13.3	4.42	.90	1.00	1.00
67°F (19°C)	1555	735	53.6	15.7	3.09	.59	.74	.88	51.1	15.0	3.50	.60	.76	.90	48.4	14.2	3.99	.61	.77	.93	45.5	13.3	4.56	.63	.80	.95
	1725	815	54.3	15.9	3.10	.61	.77	.91	51.8	15.2	3.51	.62	.78	.94	49.0	14.4	4.00	.63	.81	.96	46.0	13.5	4.57	.65	.83	.99
	2005	945	55.3	16.2	3.01	.63	.81	.96	52.6	15.4	3.41	.65	.83	.99	49.8	14.6	3.88	.66	.86	1.00	46.8	13.7	4.43	.68	.88	1.00
71°F (22°C)	1555	735	57.1	16.7	3.11	.44	.57	.71	54.4	15.9	3.53	.44	.58	.73	51.5	15.1	4.01	.44	.60	.75	48.4	14.2	4.58	.45	.61	.78
	1725	815	57.8	16.9	3.12	.44	.59	.74	55.0	16.1	3.53	.45	.60	.76	52.1	15.3	4.01	.45	.62	.79	48.9	14.3	4.58	.46	.64	.81
	2005	945	58.7	17.2	3.03	.45	.62	.79	55.9	16.4	3.43	.46	.64	.81	52.8	15.5	3.90	.46	.65	.83	49.6	14.5	4.45	.47	.67	.87

HPXA12-048 — CB31MV-65 - CBX32MV-060 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1555	735	50.7	14.9	3.06	.76	.91	1.00	48.3	14.2	3.47	.78	.93	1.00	45.8	13.4	3.96	.80	.96	1.00	43.2	12.7	4.53	.82	.98	1.00
	1725	815	51.5	15.1	3.07	.79	.94	1.00	49.2	14.4	3.48	.81	.96	1.00	46.6	13.7	3.96	.83	.99	1.00	44.1	12.9	4.53	.86	1.00	1.00
	2005	945	52.8	15.5	2.99	.83	.99	1.00	50.5	14.8	3.38	.85	1.00	1.00	48.1	14.1	3.85	.88	1.00	1.00	45.6	13.4	4.41	.90	1.00	1.00
67°F (19°C)	1555	735	53.7	15.7	3.08	.59	.74	.88	51.2	15.0	3.49	.60	.76	.90	48.5	14.2	3.97	.61	.77	.93	45.6	13.4	4.54	.63	.80	.96
	1725	815	54.5	16.0	3.08	.61	.77	.91	51.9	15.2	3.50	.62	.78	.94	49.1	14.4	3.98	.63	.81	.96	46.1	13.5	4.54	.65	.83	.99
	2005	945	55.4	16.2	3.00	.63	.81	.96	52.8	15.5	3.40	.65	.83	.99	49.9	14.6	3.87	.66	.86	1.00	46.9	13.7	4.42	.68	.89	1.00
71°F (22°C)	1555	735	57.2	16.8	3.10	.44	.58	.71	54.5	16.0	3.51	.44	.59	.73	51.6	15.1	3.99	.44	.60	.75	48.5	14.2	4.56	.45	.61	.78
	1725	815	57.9	17.0	3.10	.44	.59	.74	55.1	16.1	3.51	.45	.60	.76	52.2	15.3	3.99	.45	.62	.78	49.0	14.4	4.56	.46	.64	.81
	2005	945	58.8	17.2	3.02	.45	.62	.79	56.0	16.4	3.42	.46	.63	.81	52.9	15.5	3.89	.47	.65	.84	49.7	14.6	4.44	.47	.67	.87

HPXA12-048 - CB31MV-51 - CBX32MV-048 - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)	Air Temperature Entering Outdoor Coil																			
	65°F (18°C)				45°F (7°C)				25°F (-4°C)				5°F (-15°C)				-15°F (-26°C)			
	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input		
cfm	L/s	kBtuh		kW	kBtuh		kW	kBtuh		kW	kBtuh		kW	kBtuh		kW	kBtuh		kW	kBtuh
1555	735	56.9	16.7	3.42	44.8	13.1	3.21	31.9	9.3	3.00	24.0	7.0	2.70	11.9	3.5	1.98				
1705	805	57.4	16.8	3.34	45.3	13.3	3.13	32.4	9.5	2.92	24.5	7.2	2.62	12.4	3.6	1.90				
2005	945	58.7	17.2	3.20	46.6	13.7	3.00	33.7	9.9	2.78	25.8	7.6	2.48	13.7	4.0	1.77				

HPXA12-048 - CB31MV-65 - CBX32MV-060 - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)	Air Temperature Entering Outdoor Coil																			
	65°F (18°C)				45°F (7°C)				25°F (-4°C)				5°F (-15°C)				-15°F (-26°C)			
	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input		
cfm	L/s	kBtuh		kW	kBtuh		kW	kBtuh		kW	kBtuh		kW	kBtuh		kW	kBtuh		kW	kBtuh
1555	735	56.7	16.6	3.45	44.7	13.1	3.25	31.9	9.3	3.04	24.1	7.1	2.74	12.0	3.5	2.01				
1705	805	57.1	16.7	3.37	45.1	13.2	3.16	32.3	9.5	2.95	24.5	7.2	2.66	12.4	3.6	1.93				
2005	945	58.5	17.1	3.24	46.5	13.6	3.03	33.7	9.9	2.82	25.9	7.6	2.53	13.8	4.0	1.80				

HPXA12-048 - CB31MV-51 - CBX32MV-048 - HEATING PERFORMANCE AT 1705 cfm (805 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.34	57.4	16.8
60	16	3.29	54.7	16.0
55	13	3.24	52.0	15.2
50	10	3.19	49.2	14.4
47	8	3.16	47.6	14.0
45	7	3.13	45.3	13.3
40	4	3.05	39.4	11.5
35	2	2.97	33.6	9.8
30	-1	2.94	33.0	9.7
25	-4	2.92	32.4	9.5
20	-7	2.89	31.7	9.3
17	-8	2.87	31.3	9.2
15	-9	2.85	30.3	8.9
10	-12	2.80	27.5	8.1
5	-15	2.62	24.5	7.2
0	-18	2.44	21.5	6.3
-5	-21	2.26	18.5	5.4
-10	-23	2.08	15.5	4.5
-15	-26	1.90	12.4	3.6
-20	-29	1.72	9.4	2.8

HPXA12-048 - CB31MV-65 - CBX32MV-060 - HEATING PERFORMANCE AT 1705 cfm (805 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.37	57.1	16.7
60	16	3.32	54.4	15.9
55	13	3.27	51.7	15.2
50	10	3.22	49.0	14.4
47	8	3.19	47.4	13.9
45	7	3.16	45.1	13.2
40	4	3.09	39.3	11.5
35	2	3.01	33.5	9.8
30	-1	2.98	32.9	9.6
25	-4	2.95	32.3	9.5
20	-7	2.92	31.6	9.3
17	-8	2.91	31.3	9.2
15	-9	2.89	30.2	8.9
10	-12	2.84	27.5	8.1
5	-15	2.66	24.5	7.2
0	-18	2.47	21.4	6.3
-5	-21	2.29	18.4	5.4
-10	-23	2.11	15.4	4.5
-15	-26	1.93	12.4	3.6
-20	-29	1.74	9.4	2.8

RATINGS

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

HPXA12-048 — CVP10-46/EC10Q4 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1540	725	48.5	14.2	3.06	.75	.89	1.00	46.4	13.6	3.47	.76	.91	1.00	44.1	12.9	3.96	.78	.94	1.00	41.7	12.2	4.53	.80	.96	1.00
	1740	820	49.5	14.5	3.06	.78	.93	1.00	47.3	13.9	3.48	.79	.95	1.00	45.1	13.2	3.96	.82	.97	1.00	42.7	12.5	4.53	.84	.99	1.00
	1940	915	50.4	14.8	3.07	.81	.96	1.00	48.2	14.1	3.48	.83	.98	1.00	46.0	13.5	3.97	.85	1.00	1.00	43.6	12.8	4.54	.88	1.00	1.00
67°F (19°C)	1540	725	51.3	15.0	3.07	.58	.72	.86	49.0	14.4	3.49	.59	.74	.88	46.5	13.6	3.97	.60	.76	.91	43.9	12.9	4.54	.61	.78	.93
	1740	820	52.1	15.3	3.08	.60	.75	.90	49.7	14.6	3.49	.61	.77	.93	47.2	13.8	3.97	.62	.79	.95	44.5	13.0	4.55	.64	.82	.97
	1940	915	52.8	15.5	3.08	.62	.79	.94	50.4	14.8	3.49	.63	.81	.96	47.8	14.0	3.98	.64	.83	.98	45.0	13.2	4.55	.66	.86	1.00
71°F (22°C)	1540	725	54.6	16.0	3.09	.43	.56	.70	52.1	15.3	3.50	.43	.57	.72	49.5	14.5	3.99	.43	.58	.73	46.6	13.7	4.56	.44	.60	.76
	1740	820	55.3	16.2	3.09	.44	.58	.73	52.8	15.5	3.51	.44	.59	.75	50.1	14.7	3.99	.44	.61	.77	47.2	13.8	4.56	.45	.63	.80
	1940	915	55.9	16.4	3.10	.44	.60	.77	53.4	15.6	3.51	.45	.62	.79	50.7	14.9	3.99	.45	.63	.81	47.7	14.0	4.56	.46	.65	.84

HPXA12-048 — CVP10-51/EC10Q4 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1540	725	47.1	13.8	3.07	.74	.89	1.00	45.0	13.2	3.48	.76	.91	1.00	42.7	12.5	3.96	.78	.94	1.00	40.3	11.8	4.54	.80	.96	1.00
	1740	820	48.1	14.1	3.07	.77	.93	1.00	45.9	13.5	3.49	.79	.95	1.00	43.6	12.8	3.97	.81	.97	1.00	41.2	12.1	4.55	.84	.99	1.00
	1940	915	48.9	14.3	3.08	.81	.97	1.00	46.8	13.7	3.49	.83	.98	1.00	44.6	13.1	3.98	.85	1.00	1.00	42.2	12.4	4.55	.88	1.00	1.00
67°F (19°C)	1540	725	49.9	14.6	3.08	.58	.72	.86	47.6	14.0	3.50	.59	.74	.88	45.2	13.2	3.98	.60	.75	.90	42.5	12.5	4.56	.61	.78	.93
	1740	820	50.7	14.9	3.09	.60	.75	.90	48.4	14.2	3.50	.61	.77	.92	45.8	13.4	3.99	.62	.79	.95	43.1	12.6	4.56	.63	.82	.98
	1940	915	51.4	15.1	3.09	.61	.78	.94	49.0	14.4	3.51	.63	.80	.96	46.4	13.6	3.99	.64	.83	.98	43.6	12.8	4.57	.66	.86	1.00
71°F (22°C)	1540	725	53.1	15.6	3.10	.43	.56	.70	50.7	14.9	3.51	.43	.57	.71	48.1	14.1	4.00	.43	.58	.73	45.2	13.2	4.58	.44	.60	.75
	1740	820	53.9	15.8	3.11	.43	.58	.73	51.5	15.1	3.52	.44	.59	.75	48.7	14.3	4.01	.44	.61	.77	45.8	13.4	4.58	.45	.62	.79
	1940	915	54.6	16.0	3.11	.44	.60	.76	52.0	15.2	3.53	.45	.61	.78	49.2	14.4	4.01	.45	.63	.81	46.3	13.6	4.58	.46	.65	.83

HPXA12-048 - CVP10-46/EC10Q4 - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil														
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1540	725	57.2	16.8	3.55	45.3	13.3	3.33	32.4	9.5	3.09	24.6	7.2	2.78	12.1	3.5	2.05
1740	820	57.9	17.0	3.44	46.0	13.5	3.21	33.1	9.7	2.98	25.3	7.4	2.67	12.8	3.8	1.94
1940	915	58.5	17.1	3.34	46.6	13.7	3.12	33.7	9.9	2.88	25.9	7.6	2.57	13.4	3.9	1.84

HPXA12-048 - CVP10-51/EC10Q4 - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil														
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1540	725	57.5	16.9	3.47	45.4	13.3	3.26	32.5	9.5	3.04	24.7	7.2	2.74	12.1	3.5	2.02
1740	820	58.2	17.1	3.36	46.1	13.5	3.15	33.2	9.7	2.93	25.4	7.4	2.63	12.8	3.8	1.91
1940	915	58.9	17.3	3.27	46.8	13.7	3.06	33.9	9.9	2.84	26.1	7.6	2.54	13.5	4.0	1.82

HPXA12-048 - CVP10-46/EC10Q4 - HEATING PERFORMANCE at 1740 cfm (820 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.44	57.9	17.0
60	16	3.38	55.3	16.2
55	13	3.33	52.6	15.4
50	10	3.28	49.9	14.6
47	8	3.25	48.3	14.2
45	7	3.21	46.0	13.5
40	4	3.13	40.1	11.8
35	2	3.05	34.3	10.1
30	-1	3.01	33.7	9.9
25	-4	2.98	33.1	9.7
20	-7	2.94	32.6	9.6
17	-8	2.92	32.2	9.4
15	-9	2.90	31.2	9.1
10	-12	2.85	28.5	8.4
5	-15	2.67	25.3	7.4
0	-18	2.48	22.2	6.5
-5	-21	2.30	19.1	5.6
-10	-23	2.12	15.9	4.7
-15	-26	1.94	12.8	3.8
-20	-29	1.76	9.7	2.8

HPXA12-048 - CVP10-51/EC10Q4 - HEATING PERFORMANCE at 1740 cfm (820 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.36	58.2	17.1
60	16	3.31	55.5	16.3
55	13	3.26	52.8	15.5
50	10	3.21	50.1	14.7
47	8	3.18	48.5	14.2
45	7	3.15	46.1	13.5
40	4	3.07	40.3	11.8
35	2	3.00	34.4	10.1
30	-1	2.97	33.8	9.9
25	-4	2.93	33.2	9.7
20	-7	2.90	32.7	9.6
17	-8	2.88	32.3	9.5
15	-9	2.86	31.2	9.1
10	-12	2.81	28.5	8.4
5	-15	2.63	25.4	7.4
0	-18	2.45	22.3	6.5
-5	-21	2.27	19.1	5.6
-10	-23	2.09	16.0	4.7
-15	-26	1.91	12.8	3.8
-20	-29	1.73	9.7	2.8

RATINGS

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

HPXA12-048 — C33-44C COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1540	725	49.1	14.4	3.06	.74	.89	.99	47.0	13.8	3.47	.75	.90	1.00	44.7	13.1	3.96	.77	.93	1.00	42.2	12.4	4.53	.80	.95	1.00
	1740	820	50.0	14.7	3.06	.77	.93	1.00	47.9	14.0	3.48	.79	.94	1.00	45.5	13.3	3.96	.80	.97	1.00	43.1	12.6	4.53	.83	.99	1.00
	1940	915	50.9	14.9	3.07	.80	.95	1.00	48.7	14.3	3.48	.82	.97	1.00	46.4	13.6	3.96	.84	.99	1.00	44.0	12.9	4.54	.86	1.00	1.00
67°F (19°C)	1540	725	52.0	15.2	3.07	.57	.72	.85	49.7	14.6	3.48	.58	.73	.88	47.2	13.8	3.97	.59	.75	.90	44.5	13.0	4.54	.61	.77	.93
	1740	820	52.8	15.5	3.07	.59	.75	.89	50.4	14.8	3.49	.60	.76	.92	47.8	14.0	3.98	.61	.78	.94	45.1	13.2	4.55	.63	.81	.96
	1940	915	53.4	15.6	3.08	.61	.78	.93	51.0	14.9	3.49	.62	.80	.95	48.4	14.2	3.97	.63	.82	.97	45.6	13.4	4.55	.65	.85	.99
71°F (22°C)	1540	725	55.3	16.2	3.08	.43	.56	.69	52.9	15.5	3.50	.43	.57	.71	50.2	14.7	3.99	.43	.58	.73	47.3	13.9	4.56	.44	.59	.75
	1740	820	56.1	16.4	3.09	.43	.58	.72	53.6	15.7	3.51	.44	.59	.74	50.9	14.9	3.99	.44	.60	.76	48.0	14.1	4.55	.45	.62	.79
	1940	915	56.7	16.6	3.09	.44	.60	.75	54.2	15.9	3.51	.44	.61	.77	51.4	15.1	3.99	.45	.62	.80	48.4	14.2	4.56	.46	.64	.82

HPXA12-048 — C33-48B/C - CX34-44/48B/C-6F COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1540	725	49.3	14.4	3.06	.73	.88	1.00	47.2	13.8	3.48	.75	.90	1.00	44.9	13.2	3.97	.76	.93	1.00	42.4	12.4	4.55	.79	.95	1.00
	1740	820	50.3	14.7	3.07	.76	.92	1.00	48.1	14.1	3.49	.78	.94	1.00	45.8	13.4	3.97	.80	.96	1.00	43.3	12.7	4.54	.83	.98	1.00
	1940	915	51.1	15.0	3.07	.79	.95	1.00	49.0	14.4	3.49	.81	.97	1.00	46.6	13.7	3.97	.83	.99	1.00	44.2	13.0	4.55	.86	1.00	1.00
67°F (19°C)	1540	725	52.3	15.3	3.08	.57	.71	.85	50.0	14.7	3.49	.58	.72	.87	47.4	13.9	3.98	.59	.74	.90	44.7	13.1	4.56	.60	.76	.92
	1740	820	53.1	15.6	3.08	.59	.74	.89	50.7	14.9	3.50	.60	.75	.91	48.1	14.1	3.99	.61	.78	.94	45.3	13.3	4.56	.62	.80	.96
	1940	915	53.7	15.7	3.09	.60	.77	.93	51.3	15.0	3.50	.61	.79	.95	48.7	14.3	3.99	.63	.81	.97	45.8	13.4	4.56	.64	.84	.99
71°F (22°C)	1540	725	55.6	16.3	3.09	.42	.55	.68	53.1	15.6	3.51	.42	.56	.70	50.4	14.8	4.00	.43	.57	.72	47.5	13.9	4.57	.43	.59	.74
	1740	820	56.4	16.5	3.10	.43	.57	.71	53.8	15.8	3.52	.43	.58	.73	51.1	15.0	4.00	.44	.59	.75	48.2	14.1	4.57	.44	.61	.78
	1940	915	57.0	16.7	3.10	.43	.59	.75	54.4	15.9	3.52	.44	.60	.77	51.6	15.1	4.01	.44	.62	.79	48.6	14.2	4.58	.45	.64	.82

HPXA12-048 - C33-44C - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)	Total Air Volume		Air Temperature Entering Outdoor Coil													
			65°F (18°C)		45°F (7°C)		25°F (-4°C)		5°F (-15°C)		-15°F (-26°C)					
			Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input				
cfm	L/s	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	
1540	725	57.6	16.9	4.09	45.5	13.3	3.82	32.5	9.5	3.54	24.6	7.2	3.19	12.1	3.5	2.36
1740	820	58.3	17.1	3.92	46.2	13.5	3.66	33.2	9.7	3.38	25.3	7.4	3.03	12.8	3.8	2.20
1940	915	58.9	17.3	3.81	46.8	13.7	3.55	33.8	9.9	3.27	25.9	7.6	2.92	13.4	3.9	2.09

HPXA12-048 - C33-48B/C - CX34-44/48B/C-6F - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)	Total Air Volume		Air Temperature Entering Outdoor Coil													
			65°F (18°C)		45°F (7°C)		25°F (-4°C)		5°F (-15°C)		-15°F (-26°C)					
			Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input				
cfm	L/s	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	
1540	725	57.2	16.8	4.24	45.2	13.2	3.95	32.3	9.5	3.64	24.6	7.2	3.26	12.1	3.5	2.42
1740	820	57.9	17.0	4.07	45.9	13.5	3.78	33.0	9.7	3.47	25.3	7.4	3.09	12.8	3.8	2.25
1940	915	58.5	17.1	3.95	46.5	13.6	3.66	33.6	9.8	3.35	25.9	7.6	2.97	13.4	3.9	2.13

HPXA12-048 - C33-44C - HEATING PERFORMANCE at 1740 cfm (820 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.92	58.3	17.1
60	16	3.86	55.6	16.3
55	13	3.80	52.8	15.5
50	10	3.74	50.1	14.7
47	8	3.70	48.5	14.2
45	7	3.66	46.2	13.5
40	4	3.55	40.3	11.8
35	2	3.45	34.4	10.1
30	-1	3.41	33.8	9.9
25	-4	3.38	33.2	9.7
20	-7	3.34	32.6	9.6
17	-8	3.32	32.2	9.4
15	-9	3.29	31.2	9.1
10	-12	3.23	28.5	8.4
5	-15	3.03	25.3	7.4
0	-18	2.82	22.2	6.5
-5	-21	2.61	19.1	5.6
-10	-23	2.41	15.9	4.7
-15	-26	2.20	12.8	3.8
-20	-29	1.99	9.7	2.8

HPXA12-048 - C33-48B/C - CX34-44/48B/C-6F - HEATING PERFORMANCE at 1740 cfm (820 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	4.07	57.9	17.0
60	16	4.00	55.2	16.2
55	13	3.93	52.5	15.4
50	10	3.86	49.8	14.6
47	8	3.82	48.2	14.1
45	7	3.78	45.9	13.5
40	4	3.66	40.0	11.7
35	2	3.55	34.2	10.0
30	-1	3.51	33.6	9.8
25	-4	3.47	33.0	9.7
20	-7	3.43	32.5	9.5
17	-8	3.40	32.1	9.4
15	-9	3.37	31.1	9.1
10	-12	3.30	28.4	8.3
5	-15	3.09	25.3	7.4
0	-18	2.88	22.1	6.5
-5	-21	2.67	19.0	5.6
-10	-23	2.46	15.9	4.7
-15	-26	2.25	12.8	3.8
-20	-29	2.04	9.6	2.8

RATINGS

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

HPXA12-048 — C33-50/60C - CX34-50/60C-6F COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)					95°F (35°C)					105°F (41°C)					115°F (46°C)								
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C		kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C		kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C		kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C				
63°F (17°C)	1540	725	49.8	14.6	3.06	.74	.89	1.00	47.6	14.0	3.48	.75	.91	1.00	45.2	13.2	3.96	.77	.93	1.00	42.7	12.5	4.53	.79	.96	1.00
	1740	820	50.8	14.9	3.07	.77	.92	1.00	48.5	14.2	3.48	.78	.94	1.00	46.2	13.5	3.96	.80	.96	1.00	43.6	12.8	4.54	.83	.99	1.00
	1940	915	51.6	15.1	3.07	.80	.96	1.00	49.4	14.5	3.48	.82	.97	1.00	47.0	13.8	3.97	.84	.99	1.00	44.6	13.1	4.54	.87	1.00	1.00
67°F (19°C)	1540	725	52.8	15.5	3.08	.57	.71	.85	50.4	14.8	3.49	.58	.73	.87	47.9	14.0	3.97	.59	.75	.90	45.1	13.2	4.55	.61	.77	.93
	1740	820	53.6	15.7	3.08	.59	.74	.89	51.2	15.0	3.50	.60	.76	.92	48.6	14.2	3.98	.61	.78	.94	45.7	13.4	4.55	.63	.81	.97
	1940	915	54.3	15.9	3.08	.61	.78	.93	51.8	15.2	3.50	.62	.79	.95	49.2	14.4	3.98	.63	.82	.97	46.2	13.5	4.56	.65	.85	.99
71°F (22°C)	1540	725	56.2	16.5	3.09	.43	.56	.69	53.7	15.7	3.51	.43	.57	.71	50.9	14.9	3.99	.43	.58	.73	48.0	14.1	4.56	.44	.59	.75
	1740	820	57.0	16.7	3.10	.44	.58	.72	54.4	15.9	3.51	.44	.59	.74	51.6	15.1	4.00	.44	.60	.76	48.6	14.2	4.57	.45	.62	.79
	1940	915	57.7	16.9	3.10	.43	.60	.75	55.0	16.1	3.51	.44	.61	.77	52.2	15.3	4.00	.45	.62	.80	49.0	14.4	4.58	.46	.64	.82

HPXA12-048 — C33-60D - CX34-60D-6F COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)					95°F (35°C)					105°F (41°C)					115°F (46°C)								
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C		kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C		kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C		kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C				
63°F (17°C)	1540	725	49.7	14.6	3.07	.74	.89	1.00	47.5	13.9	3.48	.75	.91	1.00	45.1	13.2	3.96	.77	.93	1.00	42.5	12.5	4.53	.79	.96	1.00
	1740	820	50.7	14.9	3.07	.77	.92	1.00	48.4	14.2	3.48	.78	.94	1.00	46.0	13.5	3.97	.80	.97	1.00	43.4	12.7	4.54	.83	.99	1.00
	1940	915	51.6	15.1	3.07	.80	.96	1.00	49.3	14.4	3.49	.82	.97	1.00	46.9	13.7	3.97	.84	.99	1.00	44.4	13.0	4.54	.87	1.00	1.00
67°F (19°C)	1540	725	52.7	15.4	3.08	.57	.71	.85	50.3	14.7	3.50	.58	.73	.87	47.7	14.0	3.98	.59	.75	.90	44.9	13.2	4.55	.61	.77	.93
	1740	820	53.6	15.7	3.09	.59	.74	.89	51.1	15.0	3.50	.60	.76	.92	48.4	14.2	3.98	.61	.78	.94	45.5	13.3	4.56	.63	.81	.97
	1940	915	54.3	15.9	3.09	.61	.77	.93	51.7	15.2	3.50	.62	.80	.95	49.0	14.4	3.99	.63	.82	.97	46.1	13.5	4.57	.65	.84	1.00
71°F (22°C)	1540	725	56.1	16.4	3.10	.43	.56	.69	53.6	15.7	3.51	.43	.57	.71	50.8	14.9	4.00	.43	.58	.72	47.9	14.0	4.57	.44	.59	.75
	1740	820	57.0	16.7	3.11	.43	.58	.72	54.3	15.9	3.52	.44	.59	.74	51.5	15.1	4.00	.44	.60	.76	48.4	14.2	4.58	.45	.62	.79
	1940	915	57.6	16.9	3.11	.44	.60	.75	55.0	16.1	3.52	.44	.61	.77	52.0	15.2	4.01	.45	.62	.80	48.9	14.3	4.58	.46	.64	.82

HPXA12-048 - C33-50/60C - CX34-50/60C-6F - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil														
		65°F (18°C)		45°F (7°C)		25°F (-4°C)		5°F (-15°C)		-15°F (-26°C)						
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input			
kBtuh	kW	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW				
1540	725	57.2	16.8	3.93	45.2	13.2	3.67	32.3	9.5	3.40	24.5	7.2	3.06	12.0	3.5	2.26
1740	820	57.9	17.0	3.80	45.9	13.5	3.54	33.0	9.7	3.27	25.2	7.4	2.92	12.7	3.7	2.13
1940	915	58.5	17.1	3.69	46.5	13.6	3.43	33.6	9.8	3.16	25.8	7.6	2.81	13.3	3.9	2.02

HPXA12-048 - C33-60D - CX34-60D-6F - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil														
		65°F (18°C)		45°F (7°C)		25°F (-4°C)		5°F (-15°C)		-15°F (-26°C)						
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input			
kBtuh	kW	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW				
1540	725	57.0	16.7	3.74	45.0	13.2	3.51	32.2	9.4	3.27	24.4	7.2	2.94	12.0	3.5	2.17
1740	820	57.7	16.9	3.61	45.7	13.4	3.37	32.9	9.6	3.13	25.1	7.4	2.81	12.7	3.7	2.04
1940	915	58.2	17.1	3.50	46.2	13.5	3.26	33.4	9.8	3.02	25.6	7.5	2.70	13.2	3.9	1.93

HPXA12-048 - C33-50/60C - CX34-50/60C-6F - HEATING PERFORMANCE AT 1740 cfm (820 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.80	57.9	17.0
60	16	3.74	55.2	16.2
55	13	3.68	52.5	15.4
50	10	3.61	49.9	14.6
47	8	3.58	48.2	14.1
45	7	3.54	45.9	13.5
40	4	3.44	40.0	11.7
35	2	3.34	34.2	10.0
30	-1	3.30	33.6	9.8
25	-4	3.27	33.0	9.7
20	-7	3.23	32.4	9.5
17	-8	3.21	32.1	9.4
15	-9	3.18	31.0	9.1
10	-12	3.12	28.3	8.3
5	-15	2.92	25.2	7.4
0	-18	2.72	22.1	6.5
-5	-21	2.52	19.0	5.6
-10	-23	2.33	15.8	4.6
-15	-26	2.13	12.7	3.7
-20	-29	1.93	9.6	2.8

HPXA12-048 - C33-60D - CX34-60D-6F - HEATING PERFORMANCE AT 1740 cfm (820 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.61	57.7	16.9
60	16	3.55	55.0	16.1
55	13	3.50	52.3	15.3
50	10	3.44	49.6	14.5
47	8	3.41	48.0	14.1
45	7	3.37	45.7	13.4
40	4	3.29	39.9	11.7
35	2	3.20	34.1	10.0
30	-1	3.17	33.5	9.8
25	-4	3.13	32.9	9.6
20	-7	3.10	32.3	9.5
17	-8	3.08	31.9	9.3
15	-9	3.05	30.9	9.1
10	-12	3.00	28.2	8.3
5	-15	2.81	25.1	7.4
0	-18	2.61	22.0	6.4
-5	-21	2.42	18.9	5.5
-10	-23	2.23	15.8	4.6
-15	-26	2.04	12.7	3.7
-20	-29	1.85	9.6	2.8

RATINGS

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

HPXA12-060 — CB29M-51 - CB28UH-048 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1650	780	57.2	16.8	4.16	.72	.85	.97	54.8	16.1	4.72	.73	.87	.98	52.3	15.3	5.37	.75	.89	.99	49.7	14.6	6.12	.76	.91	1.00
	1850	875	58.2	17.1	4.17	.74	.89	.99	55.8	16.4	4.72	.76	.91	1.00	53.3	15.6	5.37	.77	.92	1.00	50.7	14.9	6.11	.79	.94	1.00
	2050	970	59.1	17.3	4.18	.77	.92	1.00	56.7	16.6	4.74	.78	.93	1.00	54.2	15.9	5.37	.80	.95	1.00	51.5	15.1	6.10	.82	.97	1.00
67°F (19°C)	1650	780	60.6	17.8	4.19	.57	.70	.82	58.1	17.0	4.75	.57	.71	.84	55.4	16.2	5.38	.58	.72	.86	52.6	15.4	6.13	.59	.74	.88
	1850	875	61.5	18.0	4.20	.58	.72	.86	58.9	17.3	4.76	.59	.74	.88	56.2	16.5	5.39	.60	.75	.89	53.3	15.6	6.14	.61	.77	.92
	2050	970	62.3	18.3	4.21	.59	.75	.89	59.7	17.5	4.76	.60	.76	.91	56.8	16.6	5.41	.61	.78	.93	53.9	15.8	6.15	.63	.80	.95
71°F (22°C)	1650	780	64.4	18.9	4.23	.43	.55	.67	61.7	18.1	4.79	.43	.56	.68	58.9	17.3	5.43	.43	.57	.70	55.8	16.4	6.19	.43	.58	.72
	1850	875	65.3	19.1	4.24	.43	.56	.70	62.6	18.3	4.80	.43	.57	.71	59.6	17.5	5.44	.44	.58	.73	56.5	16.6	6.20	.44	.60	.75
	2050	970	66.1	19.4	4.25	.44	.58	.72	63.3	18.6	4.81	.44	.59	.74	60.3	17.7	5.45	.44	.60	.76	57.1	16.7	6.21	.45	.61	.78

HPXA12-060 — CB29M-65 - CB28UH-060 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1600	755	56.7	16.6	4.16	.72	.85	.96	54.4	15.9	4.72	.73	.86	.97	51.9	15.2	5.37	.74	.88	.99	49.3	14.4	6.11	.76	.90	1.00
	1800	850	57.8	16.9	4.17	.74	.88	.99	55.5	16.3	4.72	.75	.90	1.00	52.9	15.5	5.36	.77	.91	1.00	50.3	14.7	6.10	.79	.94	1.00
	2000	945	58.7	17.2	4.18	.76	.91	1.00	56.3	16.5	4.73	.78	.93	1.00	53.8	15.8	5.37	.80	.95	1.00	51.1	15.0	6.10	.82	.97	1.00
67°F (19°C)	1600	755	60.2	17.6	4.19	.56	.69	.82	57.7	16.9	4.74	.57	.70	.83	55.0	16.1	5.37	.58	.72	.85	52.2	15.3	6.12	.59	.73	.87
	1800	850	61.1	17.9	4.19	.56	.72	.85	58.6	17.2	4.75	.58	.73	.87	55.8	16.4	5.39	.59	.75	.89	52.9	15.5	6.13	.60	.76	.91
	2000	945	61.9	18.1	4.20	.59	.74	.88	59.3	17.4	4.76	.60	.76	.90	56.5	16.6	5.40	.61	.77	.92	53.6	15.7	6.15	.62	.79	.94
71°F (22°C)	1600	755	63.9	18.7	4.22	.42	.54	.67	61.3	18.0	4.78	.43	.55	.68	58.5	17.1	5.42	.43	.56	.69	55.5	16.3	6.17	.43	.57	.71
	1800	850	64.9	19.0	4.23	.43	.56	.69	62.2	18.2	4.79	.43	.57	.70	59.3	17.4	5.43	.44	.58	.72	56.2	16.5	6.19	.44	.59	.74
	2000	945	65.7	19.3	4.24	.43	.58	.72	62.9	18.4	4.80	.44	.59	.73	59.9	17.6	5.44	.44	.60	.75	56.8	16.6	6.20	.45	.61	.77

HPXA12-060 - CB29M-51 - CB28UH-048 - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)	Total Air Volume		Air Temperature Entering Outdoor Coil													
			65°F (18°C)		45°F (7°C)		25°F (-4°C)		5°F (-15°C)		-15°F (-26°C)					
			Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input				
cfm	L/s	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	
1650	780	66.4	19.5	4.79	52.7	15.4	4.41	38.2	11.2	4.01	28.9	8.5	3.56	14.1	4.1	2.64
1850	875	67.4	19.8	4.65	53.7	15.7	4.26	39.2	11.5	3.87	29.9	8.8	3.41	15.1	4.4	2.49
2050	970	67.9	19.9	4.52	54.2	15.9	4.14	39.7	11.6	3.74	30.4	8.9	3.29	15.6	4.6	2.37

HPXA12-060 - CB29M-65 - CB28UH-060 - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)	Total Air Volume		Air Temperature Entering Outdoor Coil													
			65°F (18°C)		45°F (7°C)		25°F (-4°C)		5°F (-15°C)		-15°F (-26°C)					
			Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input				
cfm	L/s	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	
1600	755	65.9	19.3	4.85	52.4	15.4	4.46	37.9	11.1	4.06	28.6	8.4	3.59	13.9	4.1	2.67
1800	850	67.0	19.6	4.69	53.5	15.7	4.30	39.0	11.4	3.90	29.7	8.7	3.43	15.0	4.4	2.51
2000	945	67.1	19.7	4.56	53.6	15.7	4.17	39.1	11.5	3.77	29.8	8.7	3.30	15.1	4.4	2.38

HPXA12-060 - CB29M-51 - CB28UH-048 - HEATING PERFORMANCE AT 1850 cfm (875 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	4.65	67.4	19.8
60	16	4.55	64.3	18.8
55	13	4.46	61.2	17.9
50	10	4.37	58.2	17.1
47	8	4.32	56.3	16.5
45	7	4.26	53.7	15.7
40	4	4.13	47.3	13.9
35	2	3.99	40.9	12.0
30	-1	3.93	40.0	11.7
25	-4	3.87	39.2	11.5
20	-7	3.81	38.4	11.3
17	-8	3.77	37.9	11.1
15	-9	3.73	36.6	10.7
10	-12	3.64	33.6	9.8
5	-15	3.41	29.9	8.8
0	-18	3.18	26.2	7.7
-5	-21	2.95	22.5	6.6
-10	-23	2.72	18.8	5.5
-15	-26	2.49	15.1	4.4
-20	-29	2.26	11.4	3.3

HPXA12-060 - CB29M-65 - CB28UH-060 - HEATING PERFORMANCE AT 1800 cfm (850 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	4.69	67.0	19.6
60	16	4.59	64.0	18.8
55	13	4.50	60.9	17.8
50	10	4.41	57.9	17.0
47	8	4.35	56.0	16.4
45	7	4.30	53.5	15.7
40	4	4.16	47.1	13.8
35	2	4.02	40.7	11.9
30	-1	3.96	39.8	11.7
25	-4	3.90	39.0	11.4
20	-7	3.83	38.2	11.2
17	-8	3.79	37.6	11.0
15	-9	3.76	36.4	10.7
10	-12	3.66	33.4	9.8
5	-15	3.43	29.7	8.7
0	-18	3.20	26.0	7.6
-5	-21	2.97	22.3	6.5
-10	-23	2.74	18.6	5.5
-15	-26	2.51	15.0	4.4
-20	-29	2.28	11.3	3.3

RATINGS

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

HPXA12-060 — CB30M-65 - CB30U-65 - CBX32M-060 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1650	780	59.0	17.3	4.18	.72	.86	.98	56.5	16.6	4.73	.74	.88	.99	53.9	15.8	5.35	.75	.90	1.00	51.1	15.0	6.09	.77	.92	1.00
	1850	875	60.2	17.6	4.19	.75	.89	1.00	57.6	16.9	4.73	.76	.91	1.00	54.9	16.1	5.37	.78	.93	1.00	52.0	15.2	6.11	.80	.96	1.00
	2050	970	61.1	17.9	4.19	.77	.92	1.00	58.6	17.2	4.75	.79	.94	1.00	55.8	16.4	5.38	.81	.96	1.00	52.9	15.5	6.13	.83	.99	1.00
67°F (19°C)	1650	780	62.7	18.4	4.21	.57	.70	.83	60.0	17.6	4.77	.58	.71	.84	57.2	16.8	5.40	.58	.73	.86	54.1	15.9	6.14	.60	.74	.89
	1850	875	63.7	18.7	4.22	.58	.72	.86	61.0	17.9	4.78	.59	.74	.88	58.0	17.0	5.42	.60	.76	.90	54.9	16.1	6.17	.61	.78	.93
	2050	970	64.6	18.9	4.23	.60	.75	.89	61.8	18.1	4.79	.61	.77	.91	58.7	17.2	5.42	.62	.79	.94	55.5	16.3	6.18	.63	.81	.96
71°F (22°C)	1650	780	66.8	19.6	4.26	.43	.55	.67	63.8	18.7	4.82	.43	.56	.69	60.8	17.8	5.46	.43	.57	.70	57.6	16.9	6.21	.44	.58	.72
	1850	875	67.8	19.9	4.27	.44	.57	.70	64.8	19.0	4.83	.44	.58	.72	61.7	18.1	5.47	.44	.59	.73	58.3	17.1	6.22	.45	.60	.75
	2050	970	68.6	20.1	4.28	.44	.58	.73	65.6	19.2	4.84	.44	.59	.74	62.4	18.3	5.48	.45	.61	.76	58.9	17.3	6.25	.45	.62	.79

HPXA12-060 — CB30M-51 - CB30U-51 - CBX32M-048 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1700	800	59.0	17.3	4.18	.74	.88	.99	56.5	16.6	4.72	.75	.89	1.00	53.8	15.8	5.35	.77	.92	1.00	51.0	14.9	6.09	.78	.94	1.00
	1800	850	59.5	17.4	4.18	.75	.89	1.00	57.0	16.7	4.73	.76	.91	1.00	54.3	15.9	5.36	.78	.93	1.00	51.5	15.1	6.10	.80	.96	1.00
	1900	895	60.1	17.6	4.19	.76	.91	1.00	57.5	16.9	4.73	.78	.93	1.00	54.8	16.1	5.37	.79	.95	1.00	51.9	15.2	6.11	.82	.97	1.00
67°F (19°C)	1700	800	62.6	18.3	4.21	.58	.71	.84	59.9	17.6	4.77	.59	.73	.86	57.0	16.7	5.40	.60	.74	.88	54.0	15.8	6.14	.61	.76	.91
	1800	850	63.1	18.5	4.22	.59	.73	.86	60.4	17.7	4.77	.59	.74	.88	57.4	16.8	5.41	.60	.76	.90	54.3	15.9	6.16	.62	.78	.93
	1900	895	63.6	18.6	4.22	.59	.74	.88	60.8	17.8	4.77	.60	.75	.90	57.8	16.9	5.41	.61	.77	.92	54.7	16.0	6.17	.62	.79	.95
71°F (22°C)	1700	800	66.6	19.5	4.25	.43	.56	.69	63.7	18.7	4.82	.44	.57	.70	60.7	17.8	5.45	.44	.58	.72	57.4	16.8	6.21	.44	.59	.74
	1800	850	67.1	19.7	4.26	.44	.57	.70	64.2	18.8	4.82	.44	.58	.71	61.1	17.9	5.46	.44	.59	.73	57.8	16.9	6.21	.45	.60	.75
	1900	895	67.6	19.8	4.27	.44	.58	.71	64.6	18.9	4.83	.44	.59	.73	61.5	18.0	5.47	.45	.60	.75	58.1	17.0	6.23	.45	.61	.77

HPXA12-060 - CB30M-65 - CB30U-65 - CBX32M-060 - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil														
		65°F (18°C)		45°F (7°C)		25°F (-4°C)		5°F (-15°C)		-15°F (-26°C)						
		Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input					
cfm	L/s	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	
1650	780	65.4	19.2	4.47	51.8	15.2	4.14	37.3	10.9	3.81	28.0	8.2	3.40	13.7	4.0	2.51
1850	875	66.3	19.4	4.33	52.7	15.4	4.00	38.2	11.2	3.67	28.9	8.5	3.26	14.6	4.3	2.37
2050	970	66.8	19.6	4.22	53.2	15.6	3.89	38.7	11.3	3.56	29.4	8.6	3.15	15.1	4.4	2.26

HPXA12-060 - CB30M-51 - CB30U-51 - CBX32M-048 - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil														
		65°F (18°C)		45°F (7°C)		25°F (-4°C)		5°F (-15°C)		-15°F (-26°C)						
		Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input					
cfm	L/s	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	
1700	800	65.6	19.2	4.36	51.9	15.2	4.04	37.4	11.0	3.70	28.1	8.2	3.29	14.0	4.1	2.42
1800	850	66.1	19.4	4.29	52.4	15.4	3.97	37.9	11.1	3.63	28.6	8.4	3.22	14.5	4.2	2.35
1900	895	66.4	19.5	4.23	52.7	15.4	3.91	38.2	11.2	3.57	28.9	8.5	3.16	14.8	4.3	2.29

HPXA12-060 - CB30M/U-65 - CBX32M-060 - HEATING PERFORMANCE at 1850 cfm (875 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	4.33	66.3	19.4
60	16	4.25	63.2	18.5
55	13	4.17	60.1	17.6
50	10	4.10	57.1	16.7
47	8	4.05	55.2	16.2
45	7	4.00	52.7	15.4
40	4	3.88	46.3	13.6
35	2	3.76	40.0	11.7
30	-1	3.71	39.1	11.5
25	-4	3.67	38.2	11.2
20	-7	3.62	37.3	10.9
17	-8	3.59	36.8	10.8
15	-9	3.55	35.6	10.4
10	-12	3.48	32.5	9.5
5	-15	3.26	28.9	8.5
0	-18	3.04	25.4	7.4
-5	-21	2.82	21.8	6.4
-10	-23	2.59	18.2	5.3
-15	-26	2.37	14.6	4.3
-20	-29	2.15	11.0	3.2

HPXA12-060 - CB30M/U-51 - CBX32M-048 - HEATING PERFORMANCE at 1800 cfm (850 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	4.29	66.1	19.4
60	16	4.22	63.0	18.5
55	13	4.14	59.9	17.6
50	10	4.06	56.8	16.6
47	8	4.01	55.0	16.1
45	7	3.97	52.4	15.4
40	4	3.85	46.1	13.5
35	2	3.73	39.7	11.6
30	-1	3.68	38.8	11.4
25	-4	3.63	37.9	11.1
20	-7	3.58	37.0	10.8
17	-8	3.54	36.5	10.7
15	-9	3.51	35.3	10.3
10	-12	3.44	32.2	9.4
5	-15	3.22	28.6	8.4
0	-18	3.00	25.1	7.4
-5	-21	2.78	21.6	6.3
-10	-23	2.56	18.0	5.3
-15	-26	2.35	14.5	4.2
-20	-29	2.13	10.9	3.2

RATINGS

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

HPXA12-060 — CB31MV-51 - CBX32MV-048 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1555	735	58.1	17.0	4.16	.72	.85	.97	55.7	16.3	4.71	.73	.87	.99	53.0	15.5	5.34	.74	.89	1.00	50.3	14.7	6.08	.76	.91	1.00
	1805	850	59.6	17.5	4.18	.75	.89	1.00	57.0	16.7	4.73	.76	.91	1.00	54.4	15.9	5.36	.78	.93	1.00	51.5	15.1	6.10	.80	.96	1.00
	2055	970	60.8	17.8	4.19	.78	.93	1.00	58.2	17.1	4.74	.80	.95	1.00	55.5	16.3	5.38	.82	.97	1.00	52.6	15.4	6.12	.84	1.00	1.00
67°F (19°C)	1555	735	61.8	18.1	4.20	.57	.69	.82	59.1	17.3	4.76	.57	.71	.84	56.3	16.5	5.40	.58	.72	.85	53.3	15.6	6.13	.59	.74	.88
	1805	850	63.1	18.5	4.22	.59	.73	.86	60.4	17.7	4.77	.59	.74	.88	57.5	16.9	5.41	.60	.76	.90	54.4	15.9	6.16	.62	.78	.93
	2055	970	64.2	18.8	4.23	.60	.76	.90	61.4	18.0	4.78	.61	.77	.92	58.4	17.1	5.42	.63	.79	.95	55.2	16.2	6.18	.64	.82	.97
71°F (22°C)	1555	735	65.8	19.3	4.24	.43	.55	.67	62.9	18.4	4.81	.43	.56	.68	59.9	17.6	5.45	.44	.57	.69	56.8	16.6	6.20	.44	.58	.71
	1805	850	67.1	19.7	4.27	.44	.57	.70	64.2	18.8	4.82	.44	.58	.72	61.1	17.9	5.46	.44	.59	.73	57.8	16.9	6.21	.45	.60	.76
	2055	970	68.2	20.0	4.28	.44	.59	.74	65.2	19.1	4.83	.45	.60	.75	62.0	18.2	5.48	.45	.61	.77	58.5	17.1	6.24	.46	.63	.80

HPXA12-060 — CB31MV-65 - CBX32MV-060 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1555	735	58.4	17.1	4.16	.72	.85	.97	55.9	16.4	4.71	.73	.87	.99	53.3	15.6	5.33	.74	.89	1.00	50.5	14.8	6.07	.76	.91	1.00
	1805	850	59.9	17.6	4.17	.75	.89	1.00	57.3	16.8	4.72	.76	.91	1.00	54.6	16.0	5.35	.78	.93	1.00	51.8	15.2	6.09	.80	.96	1.00
	2055	970	61.1	17.9	4.18	.78	.93	1.00	58.5	17.1	4.73	.80	.95	1.00	55.8	16.4	5.37	.82	.97	1.00	52.9	15.5	6.11	.84	1.00	1.00
67°F (19°C)	1555	735	62.1	18.2	4.19	.57	.69	.82	59.4	17.4	4.75	.58	.71	.84	56.6	16.6	5.39	.58	.72	.85	53.6	15.7	6.12	.59	.74	.88
	1805	850	63.5	18.6	4.21	.59	.73	.86	60.7	17.8	4.76	.59	.74	.88	57.8	16.9	5.40	.60	.76	.90	54.7	16.0	6.15	.62	.78	.93
	2055	970	64.5	18.9	4.22	.60	.76	.90	61.7	18.1	4.77	.61	.78	.92	58.7	17.2	5.41	.62	.79	.95	55.5	16.3	6.16	.64	.82	.97
71°F (22°C)	1555	735	66.1	19.4	4.24	.43	.55	.67	63.2	18.5	4.80	.43	.56	.68	60.2	17.6	5.44	.44	.57	.70	57.1	16.7	6.18	.44	.58	.71
	1805	850	67.5	19.8	4.26	.44	.57	.70	64.5	18.9	4.81	.44	.58	.72	61.4	18.0	5.45	.44	.59	.73	58.1	17.0	6.20	.45	.60	.75
	2055	970	68.6	20.1	4.27	.44	.59	.73	65.5	19.2	4.82	.45	.60	.75	62.3	18.3	5.47	.45	.61	.77	58.8	17.2	6.23	.46	.63	.80

HPXA12-060 - CB31MV-51 - CBX32MV-048 - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)	Total Air Volume		Air Temperature Entering Outdoor Coil														
			65°F (18°C)		45°F (7°C)		25°F (-4°C)		5°F (-15°C)		-15°F (-26°C)						
			Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input					
cfm	L/s	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW
1555	735	64.9	19.0	4.48	51.3	15.0	4.15	36.8	10.8	3.82	27.5	8.1	3.41	13.5	4.0	2.53	2.53
1805	850	65.8	19.3	4.29	52.2	15.3	3.96	37.7	11.0	3.63	28.4	8.3	3.22	14.4	4.2	2.34	2.34
2055	970	67.3	19.7	4.16	53.7	15.7	3.83	39.2	11.5	3.49	29.9	8.8	3.08	15.9	4.7	2.21	2.21

HPXA12-060 - CB31MV-65 - CBX32MV-060 - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)	Total Air Volume		Air Temperature Entering Outdoor Coil														
			65°F (18°C)		45°F (7°C)		25°F (-4°C)		5°F (-15°C)		-15°F (-26°C)						
			Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input					
cfm	L/s	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW
1555	735	64.7	19.0	4.55	51.1	15.0	4.22	36.7	10.8	3.87	27.5	8.1	3.46	13.5	4.0	2.57	2.57
1805	850	65.6	19.2	4.36	52.0	15.2	4.03	37.6	11.0	3.69	28.4	8.3	3.27	14.4	4.2	2.39	2.39
2055	970	66.8	19.6	4.22	53.2	15.6	3.89	38.8	11.4	3.54	29.6	8.7	3.13	15.6	4.6	2.24	2.24

HPXA12-060 - CB31MV-51 - CBX32MV-048 - HEATING PERFORMANCE AT 1805 cfm (850 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	4.29	65.8	19.3
60	16	4.21	62.7	18.4
55	13	4.14	59.7	17.5
50	10	4.06	56.6	16.6
47	8	4.01	54.7	16.0
45	7	3.96	52.2	15.3
40	4	3.85	45.9	13.5
35	2	3.73	39.5	11.6
30	-1	3.68	38.6	11.3
25	-4	3.63	37.7	11.0
20	-7	3.57	36.8	10.8
17	-8	3.54	36.2	10.6
15	-9	3.51	35.0	10.3
10	-12	3.43	31.9	9.3
5	-15	3.22	28.4	8.3
0	-18	3.00	24.9	7.3
-5	-21	2.78	21.4	6.3
-10	-23	2.56	17.9	5.2
-15	-26	2.34	14.4	4.2
-20	-29	2.13	10.9	3.2

HPXA12-060 - CB31MV-65 - CBX32MV-060 - HEATING PERFORMANCE AT 1805 cfm (850 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	4.36	65.6	19.2
60	16	4.29	62.5	18.3
55	13	4.21	59.4	17.4
50	10	4.13	56.4	16.5
47	8	4.08	54.5	16.0
45	7	4.03	52.0	15.2
40	4	3.91	45.7	13.4
35	2	3.79	39.4	11.5
30	-1	3.74	38.5	11.3
25	-4	3.69	37.6	11.0
20	-7	3.64	36.7	10.8
17	-8	3.60	36.2	10.6
15	-9	3.57	35.0	10.3
10	-12	3.49	31.9	9.3
5	-15	3.27	28.4	8.3
0	-18	3.05	24.9	7.3
-5	-21	2.83	21.4	6.3
-10	-23	2.61	17.9	5.2
-15	-26	2.39	14.4	4.2
-20	-29	2.16	10.9	3.2

RATINGS

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

HPXA12-060 — CVP10-51/EC10Q4 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C		kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C		kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C		kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C				
63°F (17°C)	1750	825	58.8	17.2	4.16	.74	.87	.99	56.3	16.5	4.71	.75	.89	1.00	53.7	15.7	5.34	.76	.91	1.00	51.0	14.9	6.08	.78	.93	1.00
	1850	875	59.3	17.4	4.17	.75	.89	1.00	56.8	16.6	4.72	.76	.91	1.00	54.2	15.9	5.35	.78	.93	1.00	51.4	15.1	6.08	.80	.95	1.00
	1950	920	59.8	17.5	4.17	.76	.91	1.00	57.3	16.8	4.72	.78	.93	1.00	54.7	16.0	5.35	.79	.95	1.00	51.9	15.2	6.09	.81	.97	1.00
67°F (19°C)	1750	825	62.3	18.3	4.19	.58	.71	.84	59.7	17.5	4.75	.58	.72	.86	56.8	16.6	5.39	.59	.74	.88	53.8	15.8	6.12	.60	.76	.91
	1850	875	62.8	18.4	4.20	.58	.72	.86	60.1	17.6	4.76	.59	.74	.88	57.2	16.8	5.39	.60	.76	.90	54.2	15.9	6.13	.61	.78	.92
	1950	920	63.3	18.6	4.20	.59	.74	.88	60.5	17.7	4.76	.60	.75	.90	57.6	16.9	5.40	.61	.77	.92	54.6	16.0	6.13	.62	.79	.94
71°F (22°C)	1750	825	66.3	19.4	4.23	.43	.56	.69	63.4	18.6	4.79	.43	.57	.70	60.4	17.7	5.44	.44	.58	.72	57.2	16.8	6.18	.44	.59	.74
	1850	875	66.7	19.5	4.24	.43	.57	.70	63.9	18.7	4.80	.44	.58	.71	60.8	17.8	5.44	.44	.59	.73	57.6	16.9	6.19	.44	.60	.75
	1950	920	67.2	19.7	4.24	.44	.57	.71	64.2	18.8	4.81	.44	.59	.73	61.2	17.9	5.45	.44	.60	.75	57.9	17.0	6.20	.45	.61	.77

HPXA12-060 — CVP10-65/EC10Q5 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C		kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C		kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C		kBtuh	kW	75°F 24°C	80°F 27°C	85°F 29°C				
63°F (17°C)	1750	825	59.6	17.5	4.17	.75	.89	1.00	57.1	16.7	4.72	.76	.91	1.00	54.5	16.0	5.35	.78	.93	1.00	51.8	15.2	6.09	.80	.95	1.00
	1850	875	60.2	17.6	4.18	.76	.91	1.00	57.7	16.9	4.73	.78	.92	1.00	55.1	16.1	5.36	.79	.94	1.00	52.2	15.3	6.10	.81	.97	1.00
	1950	920	60.7	17.8	4.18	.78	.92	1.00	58.2	17.1	4.73	.79	.94	1.00	55.5	16.3	5.36	.81	.96	1.00	52.8	15.5	6.10	.83	.98	1.00
67°F (19°C)	1750	825	63.1	18.5	4.20	.58	.72	.86	60.4	17.7	4.76	.59	.74	.88	57.5	16.9	5.40	.60	.76	.90	54.5	16.0	6.14	.61	.77	.92
	1850	875	63.6	18.6	4.21	.59	.74	.88	60.8	17.8	4.77	.60	.75	.89	57.9	17.0	5.41	.61	.77	.92	54.9	16.1	6.14	.62	.79	.94
	1950	920	64.0	18.8	4.21	.60	.75	.89	61.2	17.9	4.77	.61	.77	.91	58.3	17.1	5.41	.62	.79	.93	55.3	16.2	6.15	.63	.81	.96
71°F (22°C)	1750	825	67.1	19.7	4.24	.43	.57	.70	64.2	18.8	4.80	.44	.58	.71	61.1	17.9	5.45	.44	.59	.73	57.9	17.0	6.20	.44	.60	.75
	1850	875	67.5	19.8	4.25	.44	.58	.71	64.6	18.9	4.81	.44	.58	.73	61.5	18.0	5.46	.44	.60	.75	58.3	17.1	6.21	.45	.61	.77
	1950	920	68.0	19.9	4.25	.44	.58	.73	65.0	19.0	4.82	.44	.60	.75	61.8	18.1	5.47	.45	.61	.77	58.6	17.2	6.21	.45	.62	.79

HPXA12-060 - CVP10-51/EC10Q4 - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil														
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
kBtuh	kW	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW				
1750	825	66.5	19.5	4.34	52.8	15.5	4.02	38.2	11.2	3.69	28.8	8.4	3.28	14.4	4.2	2.41
1850	875	66.9	19.6	4.29	53.2	15.6	3.97	38.6	11.3	3.63	29.2	8.6	3.22	14.8	4.3	2.35
1950	920	67.2	19.7	4.23	53.5	15.7	3.91	38.9	11.4	3.57	29.5	8.6	3.16	15.1	4.4	2.29

HPXA12-060 - CVP10-65/EC10Q5 - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil														
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
kBtuh	kW	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW				
1750	825	65.8	19.3	4.38	52.4	15.4	4.07	38.1	11.2	3.75	29.0	8.5	3.34	14.5	4.2	2.45
1850	875	66.0	19.3	4.31	52.6	15.4	4.00	38.3	11.2	3.68	29.2	8.6	3.27	14.7	4.3	2.38
1950	920	66.5	19.5	4.25	53.1	15.6	3.94	38.8	11.4	3.62	29.7	8.7	3.22	15.2	4.5	2.33

HPXA12-060 - CVP10-51/EC10Q4 - HEATING PERFORMANCE at 1850 cfm (875 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	4.29	66.9	19.6
60	16	4.21	63.8	18.7
55	13	4.13	60.7	17.8
50	10	4.06	57.6	16.9
47	8	4.01	55.7	16.3
45	7	3.97	53.2	15.6
40	4	3.85	46.7	13.7
35	2	3.74	40.3	11.8
30	-1	3.69	39.4	11.5
25	-4	3.63	38.6	11.3
20	-7	3.58	37.7	11.0
17	-8	3.55	37.2	10.9
15	-9	3.52	35.9	10.5
10	-12	3.44	32.8	9.6
5	-15	3.22	29.2	8.6
0	-18	3.01	25.6	7.5
-5	-21	2.79	22.0	6.4
-10	-23	2.57	18.4	5.4
-15	-26	2.35	14.8	4.3
-20	-29	2.13	11.2	3.3

HPXA12-060 - CVP10-65/EC10Q5 - HEATING PERFORMANCE at 1850 cfm (875 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	4.31	66.0	19.3
60	16	4.23	63.0	18.5
55	13	4.16	60.0	17.6
50	10	4.09	56.9	16.7
47	8	4.04	55.1	16.1
45	7	4.00	52.6	15.4
40	4	3.88	46.3	13.6
35	2	3.77	40.0	11.7
30	-1	3.72	39.2	11.5
25	-4	3.68	38.3	11.2
20	-7	3.63	37.5	11.0
17	-8	3.60	37.0	10.8
15	-9	3.57	35.8	10.5
10	-12	3.50	32.8	9.6
5	-15	3.27	29.2	8.6
0	-18	3.05	25.5	7.5
-5	-21	2.83	21.9	6.4
-10	-23	2.61	18.3	5.4
-15	-26	2.38	14.7	4.3
-20	-29	2.16	11.1	3.3

RATINGS

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

HPXA12-060 — C33-48B/C - CX34-44/48B/C-6F COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1650	780	57.3	16.8	4.19	.71	.84	.96	54.9	16.1	4.75	.72	.86	.97	52.5	15.4	5.41	.73	.88	.99	49.8	14.6	6.15	.75	.90	1.00
	1850	875	58.4	17.1	4.19	.73	.87	.98	55.9	16.4	4.75	.74	.89	1.00	53.4	15.6	5.40	.76	.91	1.00	50.8	14.9	6.15	.78	.93	1.00
	2050	970	59.3	17.4	4.18	.75	.90	1.00	56.9	16.7	4.74	.77	.92	1.00	54.3	15.9	5.40	.79	.94	1.00	51.6	15.1	6.14	.81	.96	1.00
67°F (19°C)	1650	780	60.9	17.8	4.19	.56	.68	.81	58.4	17.1	4.75	.56	.70	.83	55.8	16.4	5.39	.57	.71	.85	52.9	15.5	6.15	.58	.72	.87
	1850	875	61.8	18.1	4.20	.57	.71	.84	59.3	17.4	4.76	.58	.72	.86	56.6	16.6	5.40	.59	.74	.88	53.7	15.7	6.14	.60	.75	.90
	2050	970	62.6	18.3	4.21	.58	.73	.87	60.0	17.6	4.77	.59	.74	.89	57.2	16.8	5.41	.60	.76	.91	54.2	15.9	6.16	.61	.79	.94
71°F (22°C)	1650	780	64.7	19.0	4.23	.42	.54	.66	62.0	18.2	4.79	.42	.55	.67	59.2	17.3	5.43	.42	.56	.68	56.2	16.5	6.18	.43	.57	.70
	1850	875	65.6	19.2	4.24	.42	.55	.68	62.9	18.4	4.80	.43	.56	.70	60.0	17.6	5.44	.43	.57	.71	57.0	16.7	6.20	.43	.58	.73
	2050	970	66.4	19.5	4.25	.43	.57	.71	63.6	18.6	4.81	.43	.58	.72	60.7	17.8	5.45	.44	.59	.74	57.6	16.9	6.21	.44	.60	.76

HPXA12-060 — C33-50/60C - CX34-50/60C-6F COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1650	780	58.2	17.1	4.18	.71	.85	.96	55.8	16.4	4.74	.72	.86	.97	53.2	15.6	5.39	.74	.88	.99	50.5	14.8	6.14	.75	.90	1.00
	1850	875	59.2	17.3	4.19	.73	.88	.99	56.8	16.6	4.74	.75	.89	1.00	54.2	15.9	5.39	.77	.91	1.00	51.5	15.1	6.13	.78	.94	1.00
	2050	970	60.1	17.6	4.20	.76	.91	1.00	57.7	16.9	4.76	.77	.92	1.00	55.1	16.1	5.39	.79	.94	1.00	52.3	15.3	6.13	.81	.97	1.00
67°F (19°C)	1650	780	61.8	18.1	4.21	.56	.69	.81	59.2	17.3	4.76	.57	.70	.83	56.5	16.6	5.40	.58	.71	.85	53.6	15.7	6.16	.59	.73	.87
	1850	875	62.8	18.4	4.22	.57	.71	.85	60.1	17.6	4.77	.58	.73	.86	57.3	16.8	5.42	.59	.74	.88	54.3	15.9	6.17	.60	.76	.91
	2050	970	63.6	18.6	4.23	.59	.73	.88	60.9	17.8	4.78	.60	.75	.90	58.0	17.0	5.43	.61	.77	.92	55.0	16.1	6.17	.62	.79	.94
71°F (22°C)	1650	780	65.7	19.3	4.25	.42	.54	.66	62.9	18.4	4.81	.43	.55	.68	60.0	17.6	5.45	.43	.56	.69	56.9	16.7	6.22	.43	.57	.71
	1850	875	66.7	19.5	4.26	.43	.56	.69	63.9	18.7	4.82	.43	.57	.70	60.9	17.8	5.46	.43	.58	.72	57.7	16.9	6.23	.44	.59	.74
	2050	970	67.5	19.8	4.27	.43	.57	.71	64.6	18.9	4.83	.44	.58	.73	61.5	18.0	5.48	.44	.59	.75	58.3	17.1	6.24	.44	.61	.77

HPXA12-060 - C33-48B/C - CX34-44/48B/C-6F - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil														
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
kBtuh	kW	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW				
1650	780	65.4	19.2	5.10	51.9	15.2	4.67	37.4	11.0	4.23	28.2	8.3	3.74	13.9	4.1	2.78
1850	875	66.1	19.4	4.93	52.6	15.4	4.51	38.1	11.2	4.07	28.9	8.5	3.58	14.6	4.3	2.62
2050	970	66.6	19.5	4.79	53.1	15.6	4.36	38.6	11.3	3.92	29.4	8.6	3.43	15.1	4.4	2.47

HPXA12-060 - C33-50/60C - CX34-50/60C-6F - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil														
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
kBtuh	kW	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW				
1650	780	65.4	19.2	4.85	52.0	15.2	4.46	37.6	11.0	4.07	28.4	8.3	3.61	14.0	4.1	2.68
1850	875	66.0	19.3	4.69	52.6	15.4	4.30	38.2	11.2	3.91	29.0	8.5	3.45	14.6	4.3	2.52
2050	970	66.6	19.5	4.56	53.2	15.6	4.18	38.8	11.4	3.78	29.6	8.7	3.33	15.2	4.5	2.40

HPXA12-060 - C33-48B/C - CX34-44/48B/C-6F - HEATING PERFORMANCE AT 1850 cfm (875 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	4.93	66.1	19.4
60	16	4.83	63.0	18.5
55	13	4.73	60.0	17.6
50	10	4.63	56.9	16.7
47	8	4.57	55.1	16.1
45	7	4.51	52.6	15.4
40	4	4.35	46.2	13.5
35	2	4.20	39.8	11.7
30	-1	4.13	39.0	11.4
25	-4	4.07	38.1	11.2
20	-7	4.00	37.3	10.9
17	-8	3.96	36.8	10.8
15	-9	3.92	35.6	10.4
10	-12	3.82	32.5	9.5
5	-15	3.58	28.9	8.5
0	-18	3.34	25.4	7.4
-5	-21	3.10	21.8	6.4
-10	-23	2.86	18.2	5.3
-15	-26	2.62	14.6	4.3
-20	-29	2.38	11.0	3.2

HPXA12-060 - C33-50/60C - CX34-50/60C-6F - HEATING PERFORMANCE AT 1850 cfm (875 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	4.69	66.0	19.3
60	16	4.60	63.0	18.5
55	13	4.50	59.9	17.6
50	10	4.41	56.9	16.7
47	8	4.36	55.1	16.1
45	7	4.30	52.6	15.4
40	4	4.17	46.2	13.5
35	2	4.03	39.9	11.7
30	-1	3.97	39.1	11.5
25	-4	3.91	38.2	11.2
20	-7	3.85	37.3	10.9
17	-8	3.81	36.8	10.8
15	-9	3.77	35.6	10.4
10	-12	3.68	32.6	9.6
5	-15	3.45	29.0	8.5
0	-18	3.22	25.4	7.4
-5	-21	2.99	21.8	6.4
-10	-23	2.75	18.2	5.3
-15	-26	2.52	14.6	4.3
-20	-29	2.29	11.0	3.2

RATINGS

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

HPXA12-060 — C33-60D - CX34-60D-6F COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1650	780	58.0	17.0	4.17	.72	.85	.97	55.6	16.3	4.72	.73	.87	.98	53.0	15.5	5.36	.75	.89	1.00	50.3	14.7	6.10	.76	.91	1.00
	1850	875	59.1	17.3	4.18	.74	.89	.99	56.6	16.6	4.73	.76	.90	1.00	54.0	15.8	5.37	.77	.92	1.00	51.3	15.0	6.10	.79	.95	1.00
	2050	970	60.0	17.6	4.19	.76	.92	1.00	57.5	16.9	4.74	.78	.93	1.00	54.9	16.1	5.37	.80	.95	1.00	52.1	15.3	6.11	.82	.98	1.00
67°F (19°C)	1650	780	61.7	18.1	4.20	.57	.69	.82	59.1	17.3	4.75	.57	.71	.84	56.3	16.5	5.39	.58	.72	.86	53.4	15.6	6.14	.59	.74	.88
	1850	875	62.7	18.4	4.21	.58	.72	.85	60.0	17.6	4.76	.59	.73	.87	57.1	16.7	5.41	.60	.75	.89	54.2	15.9	6.14	.61	.77	.92
	2050	970	63.5	18.6	4.22	.59	.74	.88	60.7	17.8	4.78	.60	.76	.90	57.8	16.9	5.42	.61	.78	.93	54.8	16.1	6.16	.62	.80	.95
71°F (22°C)	1650	780	65.6	19.2	4.24	.43	.55	.67	62.8	18.4	4.80	.43	.56	.68	59.9	17.6	5.44	.43	.56	.70	56.8	16.6	6.20	.44	.57	.71
	1850	875	66.6	19.5	4.25	.44	.56	.69	63.7	18.7	4.81	.44	.57	.71	60.7	17.8	5.46	.44	.58	.73	57.5	16.9	6.22	.44	.59	.74
	2050	970	67.4	19.8	4.26	.44	.58	.72	64.5	18.9	4.82	.44	.59	.73	61.4	18.0	5.47	.44	.60	.75	58.2	17.1	6.21	.45	.61	.78

HPXA12-060 — C33-62D - CX34-62D-6F COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1650	780	56.5	16.6	4.16	.72	.85	.97	54.1	15.9	4.71	.73	.87	.98	51.6	15.1	5.34	.74	.89	1.00	48.9	14.3	6.08	.76	.91	1.00
	1850	875	57.6	16.9	4.17	.74	.88	.99	55.1	16.1	4.72	.76	.90	1.00	52.6	15.4	5.35	.77	.92	1.00	49.8	14.6	6.10	.79	.95	1.00
	2050	970	58.5	17.1	4.18	.77	.92	1.00	56.1	16.4	4.73	.78	.93	1.00	53.4	15.6	5.37	.80	.96	1.00	50.7	14.9	6.11	.82	.98	1.00
67°F (19°C)	1650	780	60.0	17.6	4.20	.56	.69	.82	57.4	16.8	4.75	.57	.71	.84	54.6	16.0	5.38	.58	.72	.86	51.8	15.2	6.13	.59	.74	.88
	1850	875	61.0	17.9	4.21	.58	.72	.85	58.3	17.1	4.76	.59	.73	.87	55.5	16.3	5.40	.60	.75	.89	52.5	15.4	6.15	.61	.77	.92
	2050	970	61.8	18.1	4.22	.59	.74	.89	59.1	17.3	4.77	.60	.76	.91	56.2	16.5	5.41	.61	.78	.93	53.1	15.6	6.16	.63	.80	.95
71°F (22°C)	1650	780	63.8	18.7	4.24	.42	.55	.67	61.1	17.9	4.80	.43	.56	.68	58.1	17.0	5.44	.43	.56	.70	55.1	16.1	6.19	.44	.57	.72
	1850	875	64.8	19.0	4.26	.43	.56	.69	62.0	18.2	4.82	.43	.57	.71	59.0	17.3	5.45	.44	.58	.73	55.8	16.4	6.20	.44	.59	.75
	2050	970	65.6	19.2	4.27	.43	.58	.72	62.7	18.4	4.82	.44	.59	.74	59.7	17.5	5.46	.44	.60	.76	56.3	16.5	6.23	.45	.62	.78

HPXA12-060 - C33-60D - CX34-60D-6F - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil														
		65°F (18°C)		45°F (7°C)		25°F (-4°C)		5°F (-15°C)		-15°F (-26°C)						
		Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input					
cfm	L/s	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	
1650	780	65.3	19.1	4.73	51.8	15.2	4.36	37.4	11.0	3.98	28.2	8.3	3.54	13.9	4.1	2.62
1850	875	66.0	19.3	4.58	52.5	15.4	4.21	38.1	11.2	3.83	28.9	8.5	3.39	14.6	4.3	2.47
2050	970	66.4	19.5	4.45	52.9	15.5	4.08	38.5	11.3	3.70	29.3	8.6	3.26	15.0	4.4	2.34

HPXA12-060 - C33-62D - CX34-62D-6F - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil														
		65°F (18°C)		45°F (7°C)		25°F (-4°C)		5°F (-15°C)		-15°F (-26°C)						
		Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input	Total Heating Capacity	Comp. Motor kW Input					
cfm	L/s	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	
1650	780	65.3	19.1	4.56	52.0	15.2	4.21	37.8	11.1	3.85	28.6	8.4	3.41	14.4	4.2	2.47
1850	875	65.4	19.2	4.60	52.1	15.3	4.25	37.9	11.1	3.89	28.7	8.4	3.45	14.5	4.2	2.52
2050	970	66.5	19.5	4.30	53.2	15.6	3.95	39.0	11.4	3.59	29.8	8.7	3.15	15.6	4.6	2.22

HPXA12-060 - C33-60D - CX34-60D-6F - HEATING PERFORMANCE AT 1850 cfm (875 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	4.58	66.0	19.3
60	16	4.49	63.0	18.5
55	13	4.40	59.9	17.6
50	10	4.31	56.9	16.7
47	8	4.26	55.0	16.1
45	7	4.21	52.5	15.4
40	4	4.07	46.2	13.5
35	2	3.94	39.8	11.7
30	-1	3.88	39.0	11.4
25	-4	3.83	38.1	11.2
20	-7	3.77	37.3	10.9
17	-8	3.74	36.8	10.8
15	-9	3.70	35.5	10.4
10	-12	3.62	32.5	9.5
5	-15	3.39	28.9	8.5
0	-18	3.16	25.3	7.4
-5	-21	2.93	21.8	6.4
-10	-23	2.70	18.2	5.3
-15	-26	2.47	14.6	4.3
-20	-29	2.24	11.0	3.2

HPXA12-060 - C33-62D - CX34-62D-6F - HEATING PERFORMANCE AT 1850 cfm (875 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	4.60	65.4	19.2
60	16	4.52	62.4	18.3
55	13	4.44	59.4	17.4
50	10	4.35	56.4	16.5
47	8	4.30	54.6	16.0
45	7	4.25	52.1	15.3
40	4	4.13	45.8	13.4
35	2	4.00	39.6	11.6
30	-1	3.94	38.7	11.3
25	-4	3.89	37.9	11.1
20	-7	3.84	37.0	10.8
17	-8	3.80	36.5	10.7
15	-9	3.77	35.3	10.3
10	-12	3.69	32.3	9.5
5	-15	3.45	28.7	8.4
0	-18	3.22	25.2	7.4
-5	-21	2.99	21.6	6.3
-10	-23	2.75	18.1	5.3
-15	-26	2.52	14.5	4.2
-20	-29	2.28	11.0	3.2