

# HEAT PUMP OUTDOOR UNITS



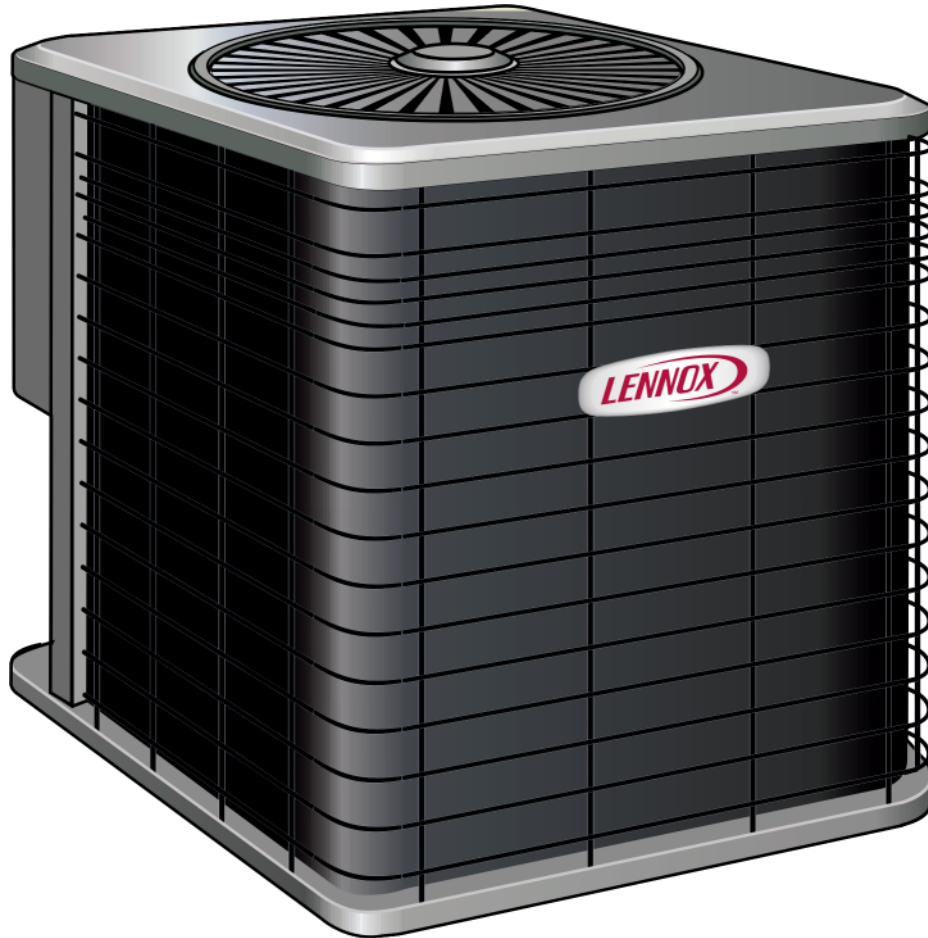
ENGINEERING DATA

## HPXA12 SPLIT SYSTEMS R-410A - 60 HZ

Bulletin No. 210471

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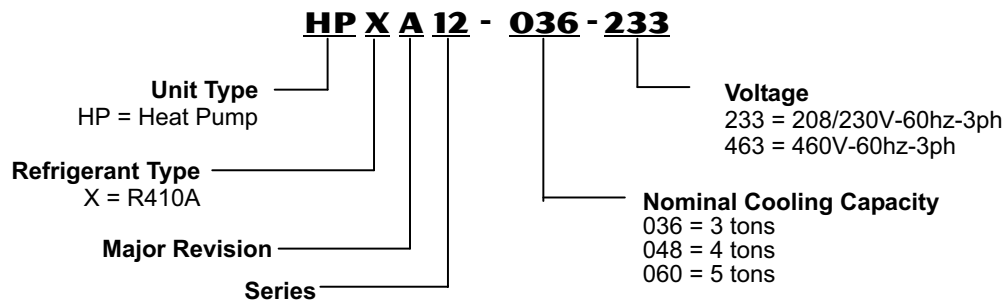
**SEER - up to 13.0**

**3 to 5 Tons**

**Cooling Capacity - 34,000 to 60,000 Btuh**

**Heating Capacity - 34,000 to 56,000 Btuh**

### MODEL NUMBER IDENTIFICATION



## FEATURES

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### APPLICATIONS

SEER of up to 13.0.  
HSPF of up to 8.15 (Region IV).  
3 through 5 Ton sizes.  
Three phase power supply.  
Vertical air discharge allows concealment behind shrubs at grade level or out of sight on a roof.  
Matching air handlers 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.  
See Indoor Coils and Air Handlers tab sections for data.  
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.  
Sound rated in Lennox reverberant sound test room in accordance with test conditions included in ARI Standard 270.  
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.

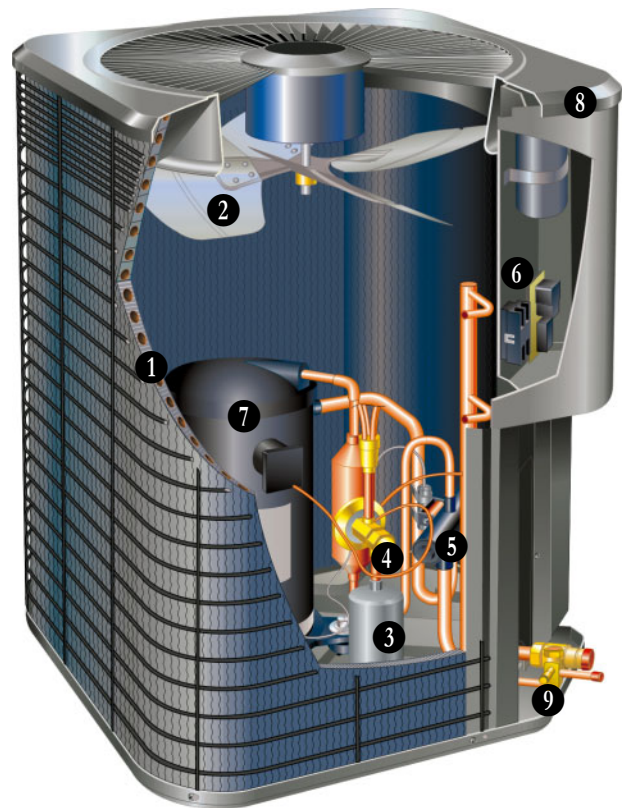
### WARRANTY

**Compressor** - limited warranty for **five years**.  
**All other covered components** - **one year**.  
Refer to Lennox Equipment Limited Warranty certificate included with unit for specific details.

### REFRIGERATION SYSTEM

#### Refrigerant

Non-chlorine, ozone friendly, R-410A.  
Unit pre-charged with refrigerant. See Specification table.



- 1 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.
  - 2 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.
- 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.

## FEATURES

### REFRIGERATION SYSTEM

- 3 **Hi-Capacity Drier**  
Factory installed.  
Drier traps any moisture or dirt that could contaminate the refrigerant system.
- 4 **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.
- 5 **Reversing Valve**  
4-way interchange reversing valve effects a rapid change in direction of refrigerant flow resulting in quick changeover from cooling to heating and vice versa.  
Valve operates on pressure differential between outdoor unit and indoor unit of the system. Factory installed.

### OPTIONS

#### Check and Expansion Valve Kits

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

#### 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 its setpoint.

Opens at 29°F and closes at 58°F.

#### 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 -060 models and must be field fabricated.

### CONTROLS

- 6 **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.

### OPTIONS

#### Low Ambient Kit

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

Low Ambient Control Kit can be field installed, allowing unit operation down to 30°F.

#### Mild Weather Kit

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

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

#### 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 Thermostat bulletins in the Controls Section and Lennox Price Book.

### 7 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.



## FEATURES

### COMPRESSOR

#### OPTIONS

##### Compressor Low Ambient Cut-Out

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

##### Crankcase Heater (-036 models)

Crankcase heater prevents migration of liquid refrigerant into compressor and ensures proper compressor lubrication. Crankcase heater factory installed on -048-060.

##### Compressor Sound Cover

A reinforced vinyl compressor cover containing a 1-1/2 in. 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.

### 8 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.

- 9 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.

#### OPTIONS

##### 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. shipping weight 6 lbs. each.

##### Hail Guards

Constructed of louvered heavy gauge steel painted to match cabinet.

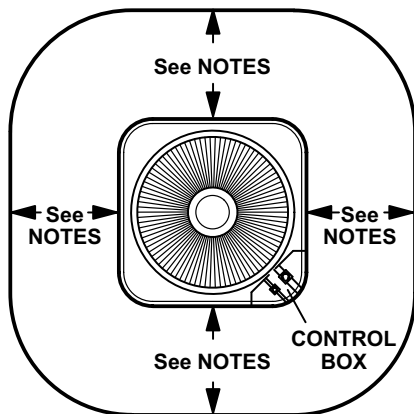
Surrounds unit on all four sides to prevent damage to the coil.

##### 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.

## INSTALLATION CLEARANCES - INCHES (MM)



#### NOTES:

Service clearance of 30 in. (762 mm) must be maintained on one of the sides adjacent to the control box.

Clearance to one of the other three sides must be 36 in. (914 mm).

Clearance to one of the remaining two sides may be 12 in. (305 mm) and the final side may be 6 in. (152 mm).

A clearance of 24 in. (610 mm) must be maintained between two units.

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

## SPECIFICATIONS

General Data		Model No.	HPXA12-036	HPXA12-048	HPXA12-060
	Nominal Tonnage		3	4	5
Connections (sweat)	Liquid line o.d. - in.		3/8	3/8	3/8
	Vapor line o.d. - in.		7/8	7/8	1-1/8
<sup>1</sup> Refrigerant (R410A) furnished			8 lbs. 15 oz.	11 lbs. 5 oz.	11 lbs. 3 oz.
Outdoor Coil Fan	Diameter - in. & no. of blades		18 - 4	22 - 4	22 - 4
	Motor hp (W)		1/6	1/3	1/3
	Cfm (L/s)		2450	3890	3890
	Rpm		1100	1085	1085
	Watts		200	375	375
Outdoor Coil	Net face	Outer coil	15.21	21.11	21.11
	area - sq. ft.	Inner coil	14.50	20.31	20.31
	Tube diameter - in. & no. of rows		5/16 - 2	5/16 - 2	5/16 - 2
	Fins per inch		18	22	22
Shipping Data	1 package - lbs.		180	225	250

## ELECTRICAL DATA

Model No.		-036-233	-036-463	-048-233	-048-463	-060-233	-060-463
Line voltage data - 60 hz - 3 phase		208/230V	460V	208/230V	460V	208/230V	460V
<sup>2</sup> Maximum overcurrent protection (amps)		25	10	35	15	40	20
<sup>3</sup> 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
	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	31461		31461	31461
Mounting Base	Model (Catalog) No.	MB2-S (69J06)		MB2-L (69J07)	MB2-L (69J07)
	Net Weight	6 lbs.		15 lbs.	15 lbs.
Refrigerant Line Set	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

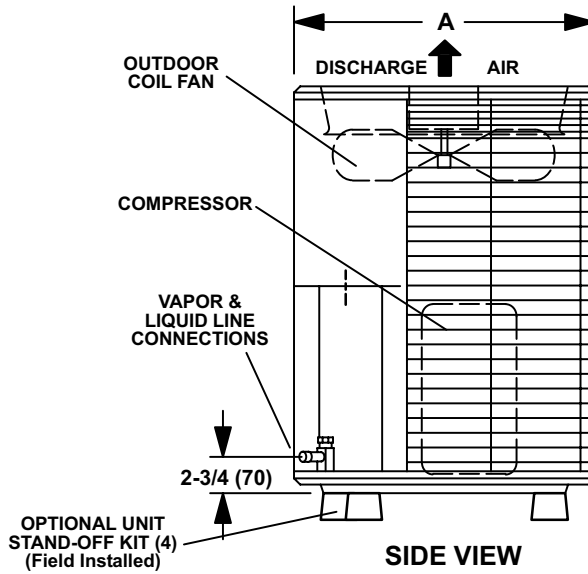
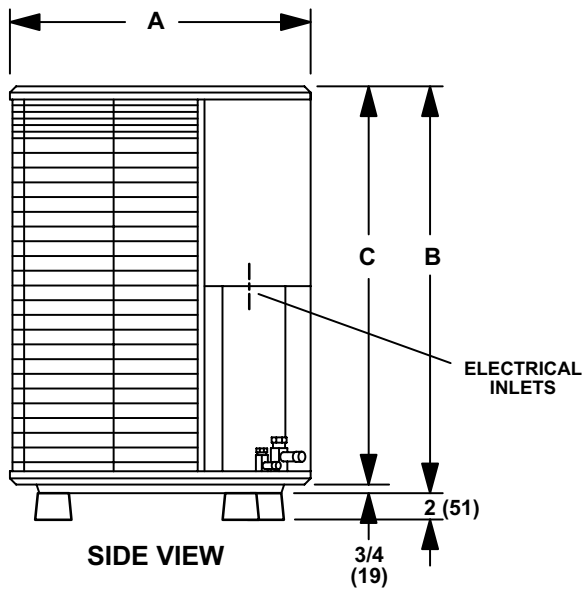
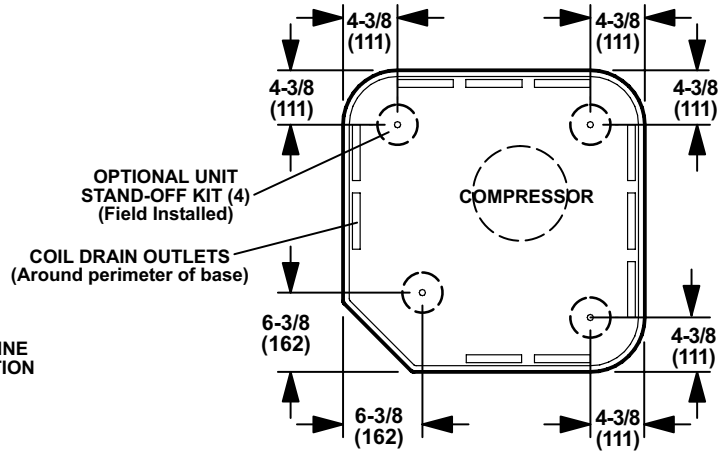
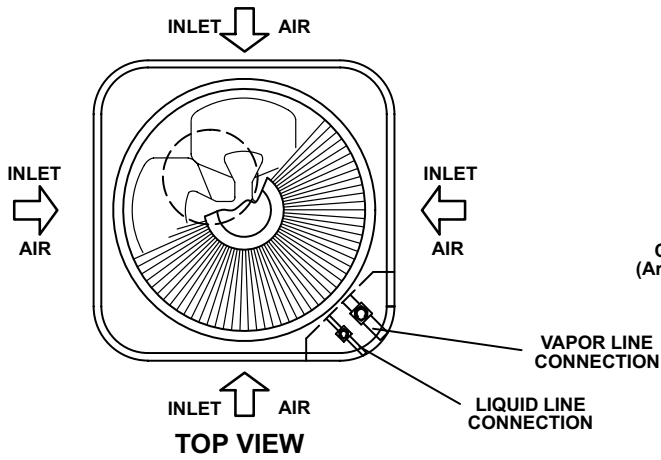
NOTE - Extremes of operating range are plus 10% and minus 5% of line voltage.

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

<sup>2</sup> HACR type circuit breaker or fuse.

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

**DIMENSIONS - INCHES (MM)**



Model No.	A		B		C	
	in.	mm	in.	mm	in.	mm
HPXA12-036	24-1/4	616	33-1/4	845	32-1/2	826
HPXA12-048	28-1/4	718	37	940	36-1/4	921
HPXA12-060						

## ARI RATINGS - INDOOR COIL / AIR HANDLER SUBSTITUTION

### Substituting Coils in the ARI Tables

Most R-22 and R-410A indoor coils and air handlers are the same except for the Factory TXV expansion device. C33 coils can be used in place of the CX34 coils and CB30M can be used in place of the CBX32M air handlers.

The expansion device is based on the size of the outdoor unit. The Factory TXV RFC or TXV on the C33/CB30M must be replaced to correspond to the outdoor unit. The correct TXV's are:

3 ton air conditioners **37L51**  
 4-5 ton air conditioners **39L72**

### Example:

A four-ton air conditioner is being installed. The ARI table shows that CBX32M-048 is a matching air handler. A CB30M-51 with a 91M02 TXV can be used in its place.

UP-FLOW COILS		
R-410A		R-22
CX34-36A-6F	=	C33-36A-2
CX34-36B-6F	=	C33-36B-2
CX34-36C-6F	=	C33-36C-2
CX34-42B-6F	=	C33-42B-2
no equivalent		C33-44C-2
CX34-44/48B-6F	=	C33-48B-2
CX34-44/48C-6F	=	C33-48C-2
CX34-50/60C-6F	=	C33-50/60C-2
CX34-62D-6F	=	C33-62D-2

AIR HANDLERS		
R-410A		R-22
CBX32M-030	=	CB30M-31
CBX32M-036	=	CB30M-41
CBX32M-042	=	CB30M-46
CBX32M-048	=	CB30M-51
CBX32M-060	=	CB30M-65

# ARI RATINGS

## <sup>1</sup> ARI Standard 210/240 Ratings

Cooling Capacity Btuh	High Temp. Heating Capacity Btuh	Low Temp. Heating Capacity Btuh	Efficiency				Total Cool. Watts	Total High Htg. Watts	Total Low Htg. Watts	High Htg. COP	Low Htg. COP	Indoor Unit Model No.	Expansion Device
			SEER	EER	HSPF								
<b>HPXA12-036</b>												<b>3 TON</b>	
<b>Air Handlers</b>						<b>Air Handlers</b>							
34,600	35,000	21,700	12.00	9.90	7.80	6.80	3490	3000	2755	3.42	2.30	<sup>3</sup> CB29M-46 (Multi-Position)	<sup>2</sup> 49L24
34,800	34,000	21,300	12.60	10.35	8.00	7.00	3355	2880	2630	3.46	2.38	CBX32M-030 (Multi-Position)	Factory TXV
34,800	34,000	21,300	12.60	10.35	8.00	7.00	3355	2880	2630	3.46	2.38	CB30U-31 (Up-Flow)	<sup>2</sup> 49L24
35,000	34,600	21,400	12.50	10.30	8.10	7.00	3390	2860	2635	3.54	2.38	CBX32M-036 (Multi-Position)	Factory TXV
35,000	34,600	21,400	12.50	10.30	8.10	7.00	3390	2860	2635	3.54	2.38	CB30U-41/46 (Up-Flow)	<sup>2</sup> 49L24
35,200	34,400	21,500	12.60	10.40	8.15	7.05	3380	2850	2625	3.54	2.40	CBX32M-042 (Multi-Position)	Factory TXV
36,000	34,800	21,800	11.80	10.15	7.60	6.70	3555	3095	2855	3.30	2.24	CB29M-51 (Multi-Position)	<sup>2</sup> 49L24
33,800	34,400	21,500	11.80	9.85	7.70	6.70	3440	2990	2735	3.38	2.30	<sup>4</sup> CVP10-31 / EC10Q3	<sup>2</sup> 49L24
34,200	34,600	21,600	11.80	9.90	7.60	6.55	3450	2935	2710	3.46	2.34	<sup>4</sup> CVP10-46 / EC10Q4	<sup>2</sup> 49L24
34,600	34,400	21,600	12.00	10.05	7.80	6.75	3450	2935	2710	3.44	2.34	<sup>4</sup> CVP10-41 / EC10Q3	<sup>2</sup> 49L24
<b>Up-Flow Indoor Coils</b>						<b>Up-Flow Coils</b>							
34,000	34,800	21,500	12.00	9.85	7.50	6.60	3445	3135	2810	3.26	2.24	CX34-36A/B/C-6F	Factory TXV
34,000	34,800	21,500	12.00	9.85	7.50	6.60	3445	3135	2810	3.26	2.24	CX34-42B-6F	Factory TXV
35,000	34,200	21,400	12.30	10.15	7.60	6.65	3445	3035	2780	3.30	2.26	CX34-38A/B-6F	Factory TXV
<b>HPXA12-048</b>												<b>4 TON</b>	
<b>Air Handlers</b>						<b>Air Handlers</b>							
46,500	48,000	32,200	12.50	10.60	7.80	7.00	4380	4380	4000	3.22	2.36	CBX32M-042 (Multi-Position)	Factory TXV
46,500	48,000	32,200	12.50	10.60	7.80	7.00	4380	4380	4000	3.22	2.36	CB30U-41/46 (Up-Flow)	<sup>2</sup> 49L25
47,500	49,000	32,800	12.00	10.25	7.50	6.70	4645	4670	4300	3.08	2.24	<sup>3</sup> CB29M-51 (Multi-Position)	<sup>2</sup> 49L25
47,500	49,500	33,000	11.80	10.15	7.50	6.80	4685	4710	4340	3.08	2.22	CB29M-65 (Multi-Position)	<sup>2</sup> 49L25
49,500	48,000	31,800	13.00	11.15	8.00	7.15	4430	4065	3780	3.46	2.46	CBX32M-048 (Multi-Position)	Factory TXV
49,500	48,000	31,800	13.00	11.15	8.00	7.15	4430	4065	3780	3.46	2.46	CB30U-51 (Up-Flow)	<sup>2</sup> 49L25
49,500	48,000	31,600	13.00	11.15	8.00	7.15	4440	4115	3825	3.42	2.42	CBX32M-060 (Multi-Position)	Factory TXV
49,500	48,000	31,600	13.00	11.15	8.00	7.15	4440	4115	3825	3.42	2.42	CB30U-65 (Up-Flow)	<sup>2</sup> 49L25
47,000	48,000	32,200	11.70	10.20	7.50	6.80	4615	4370	4045	3.22	2.34	<sup>4</sup> CVP10-46 / EC10Q4	<sup>2</sup> 49L25
47,500	48,500	32,400	11.90	10.30	7.75	6.95	4620	4300	4005	3.30	2.36	<sup>4</sup> CVP10-51 / EC10Q4	<sup>2</sup> 49L25
<b>Up-Flow Indoor Coils</b>						<b>Up-Flow Coils</b>							
48,000	48,500	32,200	12.30	10.60	7.25	6.55	4525	4845	4425	2.94	2.14	CX34-44/48B/C-6F	Factory TXV
49,000	48,000	32,000	12.60	10.80	7.40	6.60	4530	4600	4230	3.06	2.22	CX34-50/60C-6F	Factory TXV
49,000	48,000	32,000	12.60	10.85	7.60	6.80	4525	4430	4100	3.18	2.28	CX34-60D-6F	Factory TXV
<b>HPXA12-060</b>												<b>5 TON</b>	
<b>Air Handlers</b>						<b>Air Handlers</b>							
55,500	56,000	37,800	11.00	9.15	7.10	6.40	6060	5620	5075	2.92	2.18	CB29M-51 (Multi-Position)	<sup>2</sup> 49L25
55,500	56,000	37,600	11.00	9.25	7.10	6.40	5995	5595	5035	2.94	2.18	CB29M-65 (Multi-Position)	<sup>2</sup> 49L25
58,500	55,500	37,000	12.00	10.20	7.50	6.80	5725	5125	4690	3.18	2.32	CBX32M-060 (Multi-Position)	Factory TXV
58,500	55,500	37,000	12.00	10.20	7.50	6.80	5725	5125	4690	3.18	2.32	CB30U-65 (Up-Flow)	<sup>2</sup> 49L25
58,500	55,000	36,500	12.20	10.20	7.70	6.90	5725	4965	4495	3.24	2.38	CBX32M-048 (Multi-Position)	Factory TXV
58,500	55,000	36,500	12.20	10.20	7.70	6.90	5725	4965	4495	3.24	2.38	CB30U-51 (Up-Flow)	<sup>2</sup> 49L25
56,000	55,500	37,200	11.20	9.45	7.40	6.65	5930	5180	4720	3.14	2.30	<sup>4</sup> CVP10-51 / EC10Q4	<sup>2</sup> 49L25
57,500	55,000	37,000	11.40	9.70	7.20	6.50	5940	5210	4765	3.10	2.28	<sup>4</sup> CVP10-65 / EC10Q5	<sup>2</sup> 49L25
<b>Up-Flow Indoor Coils</b>						<b>Up-Flow Coils</b>							
57,000	55,000	36,800	11.70	9.80	6.90	6.30	5825	5630	5020	2.86	2.14	CX34-44/48B/C-6F	Factory TXV
57,500	55,000	36,800	11.90	9.85	7.20	6.50	5835	5420	4875	2.98	2.22	CX34-50/60C-6F	Factory TXV
57,500	55,000	36,800	11.90	9.90	7.30	6.50	5820	5325	4800	3.02	2.24	CX34-60D-6F	Factory TXV
60,000	55,000	36,800	12.00	10.25	7.40	6.65	5845	5180	4710	3.12	2.28	CX34-62D-6F	Factory TXV

NOTE - When used with gas furnaces, a dual-fuel control (i.e. FM21) or a control system with dual-fuel capabilities (i.e. Harmony III, LZP-2 or LZP-4) must be used (ordered extra).

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

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

<sup>3</sup> Most popular air handler combination.

<sup>4</sup> Canada Only



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

**AIR HANDLERS**

**COOLING CAPACITY - HPXA12-036 with**

**[CB29M-46]**

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW 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	35.1	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

**COOLING CAPACITY - HPXA12-036 with**

**[CB29M-51]**

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW 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

**HEATING CAPACITY - HPXA12-036 with**

**[CB29M-46]**

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil														
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-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
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

**HEATING CAPACITY - HPXA12-036 with**

**[CB29M-51]**

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil														
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-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
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

**HEATING PERFORMANCE at 1275 cfm Indoor Coil Air Volume HPXA12-036 with**

**[CB29M-46]**

*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

**HEATING PERFORMANCE at 1275 cfm Indoor Coil Air Volume HPXA12-036 with**

**[CB29M-51]**

*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**

**3 TON**

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

**AIR HANDLERS**

**COOLING CAPACITY - HPXA12-036 with**

**[CBX32M-036] [CB30U-41/46]**

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW 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

**COOLING CAPACITY - HPXA12-036 with**

**[CBX32M-042]**

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	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

**HEATING CAPACITY - HPXA12-036 with**

**[CBX32M-036] [CB30U-41/46]**

Indoor Coil Air Volume 70°F db (21°C db)	Total Heating Capacity		Comp. Motor kW Input		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)			
					kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW
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

**HEATING CAPACITY - HPXA12-036 with**

**[CBX32M-042]**

Indoor Coil Air Volume 70°F db (21°C db)	Total Heating Capacity		Comp. Motor kW Input		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)			
					kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW
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

**HEATING PERFORMANCE at 1275 cfm Indoor Coil Air Volume HPXA12-036 with**

**[CBX32M-036] [CB30U-41/46]**

*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

**HEATING PERFORMANCE at 1275 cfm Indoor Coil Air Volume HPXA12-036 with**

**[CBX32M-042]**

*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

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

**AIR HANDLERS**

**COOLING CAPACITY - HPXA12-036 with**

**[CBX32M-030] [CB30U-31]**

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1050	495	34.8	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

**COOLING CAPACITY - HPXA12-036 with**

**[CVP10-31 with EC10Q3]**

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW 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

**COOLING CAPACITY - HPXA12-036 with**

**[CBX32M-030] [CB30U-31]**

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil														
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
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	
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

**HEATING CAPACITY - HPXA12-036 with**

**[CVP10-31 with EC10Q3]**

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil														
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-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	
1075	505	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

**HEATING PERFORMANCE at 1250 cfm Indoor Coil Air Volume HPXA12-036 with [CBX32M-030] [CB30U-31]**

*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

**HEATING PERFORMANCE at 1275 cfm Indoor Coil Air Volume HPXA12-036 with [CVP10-31 with EC10Q3]**

*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

**RATINGS**

**3 TON**

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

**AIR HANDLERS**

**COOLING CAPACITY - HPXA12-036 with**

**[CVP10-41 with EC10Q3]**

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW 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

**COOLING CAPACITY - HPXA12-036 with**

**[CVP10-46 with EC10Q4]**

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW 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

**HEATING CAPACITY - HPXA12-036 with**

**[CVP10-41 with EC10Q3]**

Indoor Coil Air Volume 70°F db (21°C db)	Total Heating Capacity		Comp. Motor kW Input		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)			
					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

**HEATING CAPACITY - HPXA12-036 with**

**[CVP10-46 with EC10Q4]**

Indoor Coil Air Volume 70°F db (21°C db)	Total Heating Capacity		Comp. Motor kW Input		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)			
					kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW
1075	505	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

**HEATING PERFORMANCE at 1275 cfm Indoor Coil Air Volume HPXA12-036 with [CVP10-41 with EC10Q3]**

*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

**HEATING PERFORMANCE at 1275 cfm Indoor Coil Air Volume HPXA12-036 with [CVP10-46 with EC10Q4]**

*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**

**3 TON**

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

**UP-FLOW INDOOR COILS**

**COOLING CAPACITY - HPXA12-036 with**

**[CX34-36A/B/C-6F] [CX34-42B-6F]**

Entering Wet Bulb Temperature	Total Air Volume		Outdoor 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

**COOLING CAPACITY - HPXA12-036 with**

**[CX34-38A/B-6F]**

Entering Wet Bulb Temperature	Total Air Volume		Outdoor 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	34.5	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

**HEATING CAPACITY - HPXA12-036 with**

**[CX34-36A/B/C-6F] [CX34-42B-6F]**

Indoor Coil Air Volume 70°F db (21°C 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	
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		

**HEATING CAPACITY - HPXA12-036 with**

**[CX34-38A/B-6F]**

Indoor Coil Air Volume 70°F db (21°C 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	
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		

**HEATING PERFORMANCE AT 1275 cfm Indoor Coil Air Volume HPXA12-036 with [CX34-36A/B/C-6F] [CX34-42B-6F]**

*Outdoor Temperature		Compressor Motor kW Input		Total Output	
°F	°C	kBtuh	kW	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	

**HEATING PERFORMANCE AT 1275 cfm Indoor Coil Air Volume HPXA12-036 with [CX34-38A/B-6F]**

*Outdoor Temperature		Compressor Motor kW Input		Total Output	
°F	°C	kBtuh	kW	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	

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

**AIR HANDLERS**

**COOLING CAPACITY - HPXA12-048 with**

[CB29M-51]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW 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

**COOLING CAPACITY - HPXA12-048 with**

[CB29M-65]

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW 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

**HEATING CAPACITY - HPXA12-048 with**

[CB29M-51]

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

**HEATING CAPACITY - HPXA12-048 with**

[CB29M-65]

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

**HEATING PERFORMANCE at 1740 cfm Indoor Coil Air Volume HPXA12-048 with**

[CB29M-51]

*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

**HEATING PERFORMANCE at 1740 cfm Indoor Coil Air Volume HPXA12-048 with**

[CB29M-65]

*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**

**4 TON**

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

**AIR HANDLERS**

**COOLING CAPACITY - HPXA12-048 with**

**[CBX32M-042] [CB30U-41/46]**

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW 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	.76	.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	.72	.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

**COOLING CAPACITY - HPXA12-048 with**

**[CBX32M-048] [CB30U-51]**

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	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

**HEATING CAPACITY - HPXA12-048 with**

**[CBX32M-042] [CB30U-41/46]**

Indoor Coil Air Volume 70°F db (21°C db)	Air Volume		Air Temperature Entering Outdoor Coil																			
			65°F (18°C)				45°F (7°C)				25°F (-4°C)				5°F (-15°C)				-15°F (-26°C)			
			Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input		
kBtuh	kW	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						

**HEATING CAPACITY - HPXA12-048 with**

**[CBX32M-048] [CB30U-51]**

Indoor Coil Air Volume 70°F db (21°C db)	Air Volume		Air Temperature Entering Outdoor Coil																			
			65°F (18°C)				45°F (7°C)				25°F (-4°C)				5°F (-15°C)				-15°F (-26°C)			
			Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input		
kBtuh	kW	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						

**HEATING PERFORMANCE at 1550 cfm Indoor Coil Air Volume HPXA12-048 with [CBX32M-042] [CB30U-41/46]**

*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

**HEATING PERFORMANCE at 1740 cfm Indoor Coil Air Volume HPXA12-048 with [CBX32M-048] [CB30U-51]**

*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

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

**AIR HANDLERS**

**COOLING CAPACITY - HPXA12-048 with**

**[CBX32M-060] [CB30U-65]**

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	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

**COOLING CAPACITY - HPXA12-048 with**

**[CVP10-46 with EC10Q4]**

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW 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

**HEATING CAPACITY - HPXA12-048 with**

**[CBX32M-060] [CB30U-65]**

Indoor Coil Air Volume 70°F db (21°C db)	Total Heating Capacity		Comp. Motor kW Input		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)			
					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

**HEATING CAPACITY - HPXA12-048 with**

**[CVP10-46 with EC10Q4]**

Indoor Coil Air Volume 70°F db (21°C db)	Total Heating Capacity		Comp. Motor kW Input		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)			
					kBtuh	kW	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

**HEATING PERFORMANCE at 1740 cfm Indoor Coil Air Volume HPXA12-048 with**

**[CBX32M-060] [CB30U-65]**

*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

**HEATING PERFORMANCE at 1740 cfm Indoor Coil Air Volume HPXA12-048 with**

**[CVP10-46 with EC10Q4]**

*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



**RATINGS**

**4 TON**

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

**AIR HANDLERS**

**COOLING CAPACITY - HPXA12-048 with**

**[CVP10-51 with EC10Q4]**

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW 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

**HEATING CAPACITY - HPXA12-048 with**

**[CVP10-51 with EC10Q4]**

Indoor Coil Air Volume 70°F db (21°C db)	Air Temperature Entering Outdoor Coil															
	65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-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	57.5	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

**HEATING PERFORMANCE at 1740 cfm Indoor Coil Air Volume HPXA12-048 with [CVP10-51 with EC10Q4]**

*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

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

**UP-FLOW INDOOR COILS**

**COOLING CAPACITY - HPXA12-048 with**

**[CX34-44/48B/C-6F]**

Entering Wet Bulb Temperature	Total Air Volume		Outdoor 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

**COOLING CAPACITY - HPXA12-048 with**

**[CX34-50/60C-6F]**

Entering Wet Bulb Temperature	Total Air Volume		Outdoor 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	.43	.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	.44	.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

**HEATING CAPACITY - HPXA12-048 with**

**[CX34-44/48B/C-6F]**

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	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

**HEATING CAPACITY - HPXA12-048 with**

**[CX34-50/60C-6F]**

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	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

**HEATING PERFORMANCE at 1740 cfm Indoor Coil Air Volume HPXA12-048 with**

**[CX34-44/48B/C-6F]**

*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

**HEATING PERFORMANCE at 1740 cfm Indoor Coil Air Volume HPXA12-048 with**

**[CX34-50/60C-6F]**

*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

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

**UP-FLOW INDOOR COILS**

**COOLING CAPACITY - HPXA12-048 with**

**[CX34-60D-6F]**

Entering Wet Bulb Temperature	Total Air Volume		Outdoor 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

**HEATING CAPACITY - HPXA12-048 with**

**[CX34-60D-6F]**

Indoor Coil Air Volume 70°F db (21°C 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	
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				

**HEATING PERFORMANCE at 1740 cfm Indoor Coil Air Volume HPXA12-048 with**

**[CX34-60D-6F]**

*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

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

**AIR HANDLERS**

**COOLING CAPACITY - HPXA12-060 with**

**[CB29M-51]**

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW 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

**COOLING CAPACITY - HPXA12-060 with**

**[CB29M-65]**

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW 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	.58	.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

**HEATING CAPACITY - HPXA12-060 with**

**[CB29M-51]**

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		
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

**HEATING CAPACITY - HPXA12-060 with**

**[CB29M-65]**

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		
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

**HEATING PERFORMANCE at 1850 cfm Indoor Coil Air Volume HPXA12-060 with**

**[CB29M-51]**

*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

**HEATING PERFORMANCE at 1800 cfm Indoor Coil Air Volume HPXA12-060 with**

**[CB29M-65]**

*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**

**5 TON**

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

**AIR HANDLERS**

**COOLING CAPACITY - HPXA12-060 with**

**[CBX32M-048] [CB30U-51]**

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	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

**COOLING CAPACITY - HPXA12-060 with**

**[CBX32M-060] [CB30U-65]**

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	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	.43	.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

**HEATING CAPACITY - HPXA12-060 with**

**[CBX32M-048] [CB30U-51]**

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil														
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
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	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	
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

**HEATING CAPACITY - HPXA12-060 with**

**[CBX32M-060] [CB30U-65]**

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil														
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
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	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	
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

**HEATING PERFORMANCE at 1850 cfm Indoor Coil Air Volume HPXA12-060 with**

**[CBX32M-060] [CB30U-65]**

*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

**HEATING PERFORMANCE at 1800 cfm Indoor Coil Air Volume HPXA12-060 with**

**[CBX32M-048] [CB30U-51]**

*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

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

**AIR HANDLERS**

**COOLING CAPACITY - HPXA12-060 with**

**[CVP10-51 with EC10Q4]**

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW 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

**COOLING CAPACITY - HPXA12-060 with**

**[CVP10-65 with EC10Q5]**

Entering Wet Bulb Temperature	Total Air Volume		Outdoor 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

**HEATING CAPACITY - HPXA12-060 with**

**[CVP10-51 with EC10Q4]**

Indoor Coil Air Volume 70°F db (21°C db)	Total Heating Capacity		Comp. Motor kW Input		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)			
					kBtuh	kW	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

**HEATING CAPACITY - HPXA12-060 with**

**[CVP10-65 with EC10Q5]**

Indoor Coil Air Volume 70°F db (21°C db)	Total Heating Capacity		Comp. Motor kW Input		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)			
					kBtuh	kW	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

**HEATING PERFORMANCE at 1850 cfm Indoor Coil Air Volume HPXA12-060 with [CVP10-51 with EC10Q4]**

*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

**HEATING PERFORMANCE at 1850 cfm Indoor Coil Air Volume HPXA12-060 with [CVP10-65 with EC10Q5]**

*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**

**5 TON**

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

**UP-FLOW INDOOR COILS**

**COOLING CAPACITY - HPXA12-060 with**

**[CX34-44/48B/C-6F]**

Entering Wet Bulb Temperature	Total Air Volume		Outdoor 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

**COOLING CAPACITY - HPXA12-060 with**

**[CX34-50/60C-6F]**

Entering Wet Bulb Temperature	Total Air Volume		Outdoor 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	.74	.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	.56	.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

**HEATING CAPACITY - HPXA12-060 with**

**[CX34-44/48B/C-6F]**

Indoor Coil Air Volume 70°F db (21°C 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
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

**HEATING CAPACITY - HPXA12-060 with**

**[CX34-50/60C-6F]**

Indoor Coil Air Volume 70°F db (21°C 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
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

**HEATING PERFORMANCE at 1850 cfm Indoor Coil Air Volume HPXA12-060 with**

**[CX34-44/48B/C-6F]**

*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

**HEATING PERFORMANCE at 1850 cfm Indoor Coil Air Volume HPXA12-060 with**

**[CX34-50/60C-6F]**

*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

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

**UP-FLOW INDOOR COILS**

**COOLING CAPACITY - HPXA12-060 with**

**[CX34-60D-6F]**

Entering Wet Bulb Temperature	Total Air Volume		Outdoor 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	.43	.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

**COOLING CAPACITY - HPXA12-060 with**

**[CX34-62D-6F]**

Entering Wet Bulb Temperature	Total Air Volume		Outdoor 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	.43	.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

**HEATING CAPACITY - HPXA12-060 with**

**[CX34-60D-6F]**

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		
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

**HEATING CAPACITY - HPXA12-060 with**

**[CX34-62D-6F]**

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		
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

**HEATING PERFORMANCE at 1850 cfm Indoor Coil Air Volume HPXA12-060 with**

**[CX34-60D-6F]**

*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

**HEATING PERFORMANCE at 1850 cfm Indoor Coil Air Volume HPXA12-060 with**

**[CX34-62D-6F]**

*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







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