LENNOX®

ENGINEERING DATA

HP28

ELITE® SERIES

SEER - up to 13.75

Cooling Capacity - 25,200 to 42,000 Btuh (7.4 to 12.3 kW)

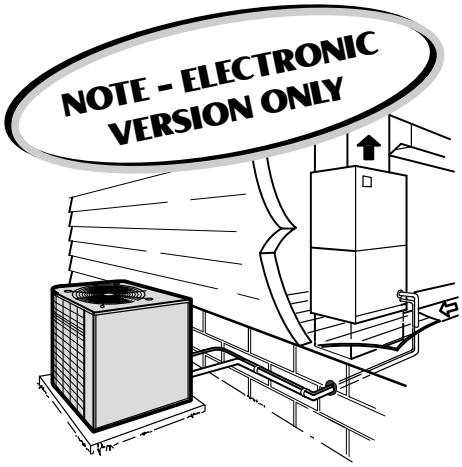
Heat Capacity - 24,800 to 39,000 Btuh (7.3 to 11.4 kW)

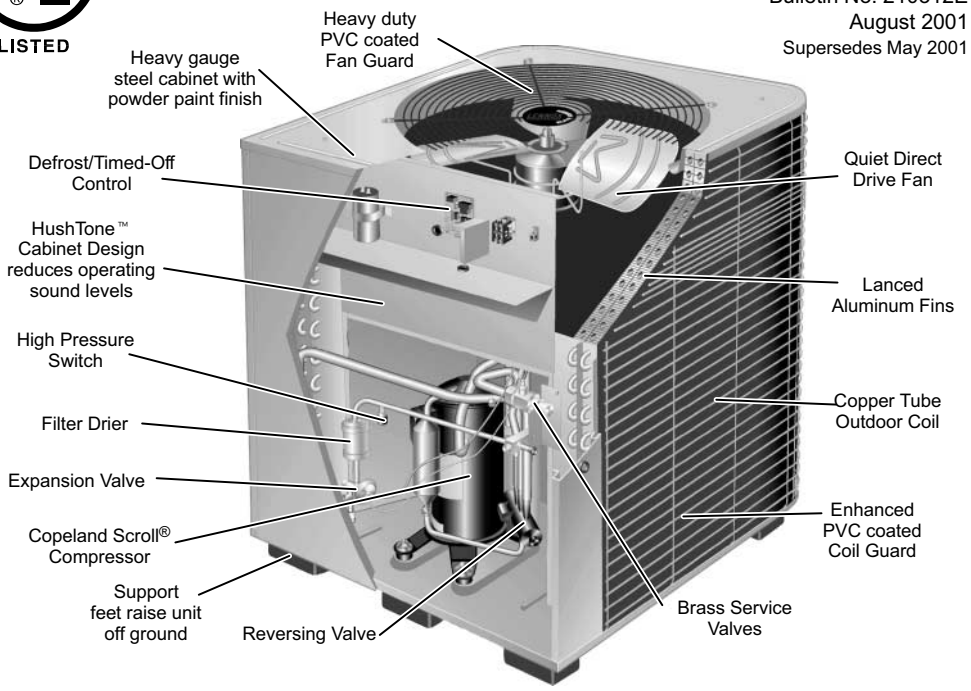
Bulletin No. 210312E
August 2001
Supersedes May 2001

CERTIFICATION APPLIES ONLY WHEN THE COMPLETE SYSTEM IS LISTED WITH ARI

C UL LISTED

UL LISTED





MODEL NUMBER IDENTIFICATION

H P 28 - 036 - 1 Y

Unit Type
HP = Heat pump Outdoor Unit

Series

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

Minor Revision Number

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

FEATURES

Application
- SEER up to 13.75.
- HSPF (Region IV) up to 8.50.
- 2 through 3.5 ton (7.0 through 12.3 kW).
- Single phase power supply.
- Vertical air discharge allows concealment behind shrubs at grade level or out of sight on a roof.
- Designed for applications with indoor add-on coils with FM21 furnace control. See FM21 bulletin, Thermostats and Controls section. Also see Coils-Blower Coils section for indoor unit data.
- Units shipped completely factory assembled, piped and wired. Each unit is test operated at the factory insuring proper operation.
- Installer must set outdoor unit, connect refrigerant lines and make electrical connections to complete job.
- Each unit is test operated at the factory insuring proper operation.

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

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

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

FEATURES

Refrigerant Line Connections, Electrical Inlets and Service Valves
- Vapor and liquid lines are located inside of the cabinet and are made with sweat connections. See dimension drawing.
- Fully serviceable brass service valves prevent corrosion and provide access to refrigerant system. Suction valve can be fully shut off, while liquid valve may be front seated to manage refrigerant charge while servicing system.
- Vapor and liquid line service valves and gauge ports are located inside the cabinet.
- Refrigerant line connections and field wiring inlets are located in one central area of the cabinet. See dimension drawing.

Copeland Scroll™ Compressor

- Compressor features high efficiency with uniform suction flow, constant discharge flow and high volumetric efficiency and quiet operation.
- Compressor consists of two involute spiral scrolls matched together to generate a series 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 to be worked toward the center and discharged.
- Low gas pulses during compression reduces operational sound levels.
- Compressor motor is internally protected from excessive current and temperature.
- Compressor is installed in the unit on resilient rubber mounts for vibration free operation.

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

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

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

Defrost/Timed-Off Control
- A solid-state defrost control board is furnished as standard equipment. It gives a defrost cycle (14 minutes) for every 30, 60 or 90 minutes (adjustable) of compressor “on” time at outdoor temperature below 42°F (5.5°C).
- A sensing element mounted on the liquid line determines when the defrost cycle is required and also when to terminate a cycle.
- Diagnostic LED on control board furnished as an aid for servicing.
- Prevents compressor short-cycling and allows time for suction and discharge pressure to equalize, permitting the compressor to start in an unloaded condition.
- Automatic reset control provides a five minute time delay between compressor shutoff and start-up.

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

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

FEATURES

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

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

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

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

OPTIONAL ACCESSORIES - MUST BE ORDERED EXTRA

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

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

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

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

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

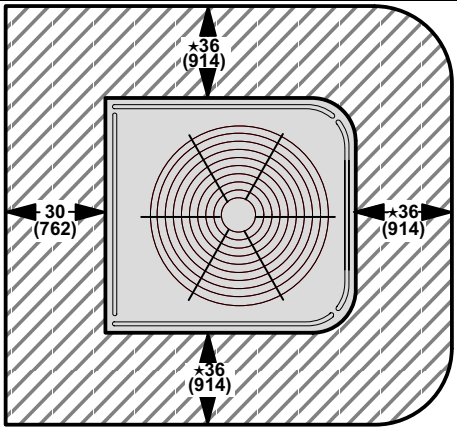
Mounting Base
- Provides permanent foundation for condensing units.
- High density polyethylene structural material is lightweight, sturdy, sound absorbing and will withstand the rigors of the sun, heat, cold, moisture, oil and refrigerant. Will not mildew or rot.
- Can be shipped singly or in packages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

REFRIGERANT LINE KITS

Outdoor Unit Model No.	Line Set Model No.	Line Length		Liquid Line (o.d.)		Vapor Line (o.d.)	
		ft.	m	in.	mm	in.	mm
HP28-024 HP28-030	L15-41-20	20	6	3/8	9.5	3/4	19
	L15-41-30	30	9	3/8	9.5	3/4	19
	L15-41-40	40	12	3/8	9.5	3/4	19
	L15-41-50	50	15	3/8	9.5	3/4	19
HP28-036 HP28-042	L15-65-30	30	9	3/8	9.5	7/8	22.2
	L15-65-40	40	12	3/8	9.5	7/8	22.2
	L15-65-50	50	15	3/8	9.5	7/8	22.2

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

INSTALLATION CLEARANCES - IN. (MM)



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

SPECIFICATIONS

General Data	Model No.	HP28-024	HP28-030	HP28-036	HP28-042
	Nominal Tonnage	2	2.5	3	3.5
Connections (sweat)	Liquid line conn. o.d. - in. (mm)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)
	Vapor line conn. o.d. - in. (mm)	3/4 (19)	3/4 (19)	7/8 (22.2)	7/8 (22.2)
Refrigerant	*HCFC-22 charge furnished	12 lbs. 8 oz. (5.7 kg)	11 lbs. 13 oz. (5.4 kg)	13 lbs. 3 oz. (6.0 kg)	12 lbs. 15 oz. (5.9 kg)
Outdoor Coil	Net face area sq. ft. (m^2) Outer Coil	21.77 (2.02)	21.77 (2.02)	24.06 (2.24)	24.06 (2.24)
	Inner Coil	21.11 (1.96)	21.11 (1.96)	23.33 (2.17)	23.33 (2.17)
	Tube diameter - in. (mm)	5/16 (7.9)	5/16 (7.9)	5/16 (7.9)	5/16 (7.9)
	Number of rows	2	2	2	2
	Fins per inch (m)	22 (866)	22 (866)	22 (866)	22 (866)
Outdoor Coil Fan	Diameter in. (mm)	24 (610)	24 (610)	24 (610)	24 (610)
	Number of blades	3	3	3	3
	Motor hp	1/10 (75)	1/10 (75)	1/10 (75)	1/10 (75)
	Cfm (L/s)	2800 (1320)	2800 (1320)	2800 (1320)	2800 (1320)
	Rpm	825	825	825	825
	Watts	165	165	170	170
Shipping Data (1 package)		268 (122)	271 (123)	328 (149)	328 (149)
OPTIONAL ACCESSORIES - MUST BE ORDERED EXTRA					
Low Ambient Kit		**27J00** (LB-57113BM)	**27J00** (LB-57113BM)	**27J00** (LB-57113BM)	**27J00** (LB-57113BM)
Mounting Base - Net Weight		MB2-L (**69J07**) 15 lbs. (7 kg)	MB2-L (**69J07**) 15 lbs. (7 kg)	MB2-L (**69J07**) 15 lbs. (7 kg)	MB2-L (**69J07**) 15 lbs. (7 kg)
Outdoor Thermostat Kit	Thermostat Kit	**56A87** (LB-29740BA)	**56A87** (LB-29740BA)	**56A87** (LB-29740BA)	**56A87** (LB-29740BA)
	Mounting Box	M-1595 (**31461**) or BM-10260 (Canada Only) (**33A09**)			

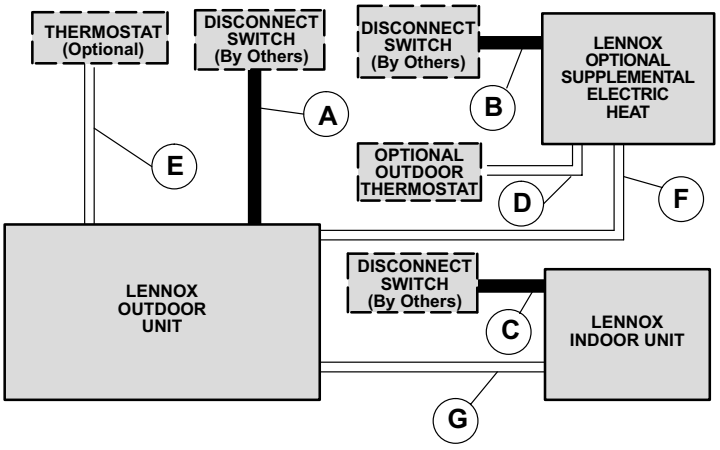
*Refrigerant charge sufficient for 20 ft. (6.1 m) length of refrigerant lines.

ELECTRICAL DATA

General Data	Model No.	HP28-024	HP28-030	HP28-036	HP28-042
	Line voltage data - 60hz	208/230v-1ph	208/230v-1ph	208/230v-1ph	208/230v-1ph
	Rec. max. fuse/circuit brkr size (amps)	20	30	35	40
	*Minimum circuit ampacity	13.8	17.7	20.9	23.4
Compressor	Rated load amps	10.3	13.5	16.0	18.0
	Power factor	.96	.96	.96	.97
	Locked rotor amps	56	72.5	88	104
Outdoor Coil Fan Motor	Full load amps	0.9	0.9	0.9	0.9
	Locked rotor amps	1.6	1.6	1.6	1.6

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

FIELD WIRING



A — Two Wire Power (see Electrical Data)

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

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

D — Two Wire Low Voltage — 18 ga. minimum

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

— Ten Wire Low Voltage with Optional Outdoor Thermostat

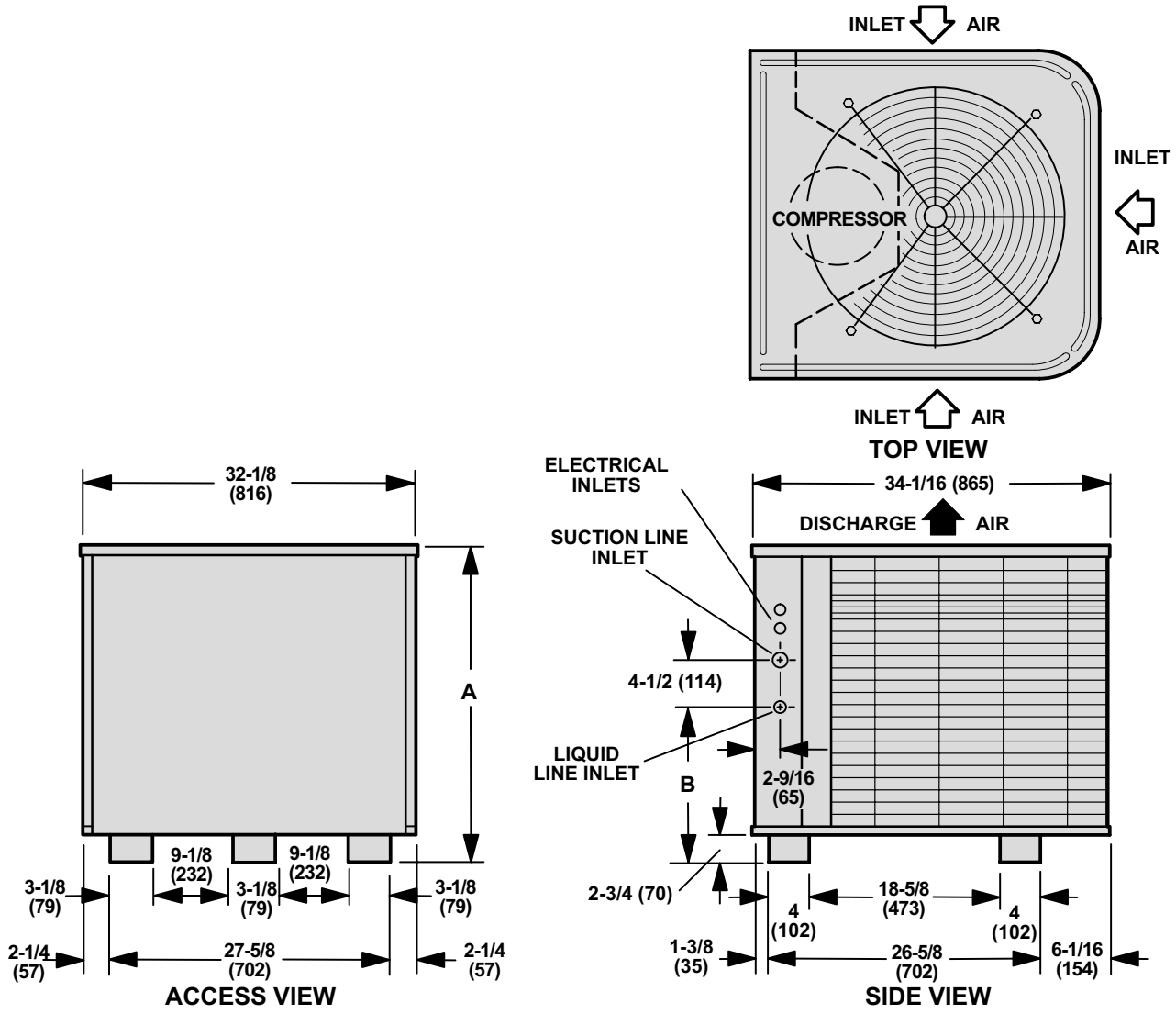
F — Four Wire Low Voltage — 18 ga. minimum

G — Three Wire Low Voltage — 18 ga. minimum

— Field Wiring Not Furnished —

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

DIMENSIONS - INCHES (MM)



Model No.		A	B
HP28-024 HP28-030	in.	40-7/8	19-13/16
	mm	1038	503
HP28-036 HP28-042	in.	44-7/8	14-1/4
	mm	1140	362

ARI RATINGS

Outdoor Unit Model No. Unit Size *Sound Rating Number		★ARI Standard 210/240 Ratings																**Check and Expansion Valve Kit Required
		Cooling Capacity		High Temp. Heating Capacity		Low Temp. Heating Capacity		Efficiency				Total Cool. Watts	Total High Htg. Watts	Total Low Htg. Watts	High Htg. COP	Low Htg. COP	Indoor Unit Model No.	
		Btuh	kW	Btuh	kW	Btuh	kW	SEER	EER	HSPF IV	HSPF V							
HP28-024 2 Ton (72 db)	**Blower Coil Units**	25,000	7.3	24,200	7.1	15,400	4.5	14.05	11.85	8.25	7.40	2110	2230	1820	3.18	2.48	CB30M-31 (Multi)	●Factory Installed
		25,000	7.3	24,200	7.1	15,400	4.5	14.05	11.85	8.25	7.40	2110	2230	1820	3.18	2.48	CB30U-31 (Up-Flow)	●Factory Installed
		25,400	7.4	24,600	7.2	15,400	4.5	14.25	12.05	8.50	7.35	2110	2120	1865	3.40	2.42	CB30M-41 (Multi)	●Factory Installed
		25,400	7.4	24,600	7.2	15,400	4.5	14.25	12.05	8.50	7.35	2110	2120	1865	3.40	2.42	CB30U-41/46 (Up-Flow)	●Factory Installed
		25,800	7.6	24,200	7.1	15,000	4.4	15.05	12.80	8.60	7.45	2015	2025	1770	3.50	2.48	CB31MV-41 (Multi)	●Factory Installed
	Up-Flow Coils	25,200	7.4	24,800	7.3	15,600	4.6	13.60	11.65	8.50	7.35	2165	2135	1890	3.40	2.42	[1]C33-38A/B	**56J19** (LB-85759F)
		25,200	7.4	24,800	7.3	15,600	4.6	13.60	11.65	8.50	7.35	2165	2135	1890	3.40	2.42	C33-44C	**56J19** (LB-85759F)
		25,400	7.4	24,800	7.3	15,600	4.6	13.65	11.75	8.30	7.30	2160	2165	1905	3.36	2.40	C33-48B/C	**56J19** (LB-85759F)
		25,600	7.5	24,800	7.3	15,600	4.6	13.75	11.80	8.40	7.35	2165	2125	1860	3.42	2.46	C33-50/60C	**56J19** (LB-85759F)
	Horizontal Coils	25,200	7.4	25,400	7.4	15,600	4.6	13.60	11.70	8.70	7.65	2155	1990	1800	3.74	2.54	CH33-44/48B-F	**56J19** LB-85759F
		25,400	7.4	25,600	7.5	15,600	4.6	13.75	11.75	9.00	7.70	2160	1975	1785	3.80	2.56	CH33-48C-F	**56J19** LB-85759F
HP28-030 2.5 Ton (72 db)	**Blower Coil Units**	29,200	8.6	30,000	8.8	20,000	5.9	13.35	11.35	8.75	7.75	2575	2470	2235	3.56	2.62	CB30M-31 (Multi)	●Factory Installed
		29,200	8.6	30,000	8.8	20,000	5.9	13.35	11.35	8.75	7.75	2575	2470	2235	3.56	2.62	CB30U-31 (Up-Flow)	●Factory Installed
		29,200	8.6	30,000	8.8	20,000	5.9	13.10	11.15	8.75	7.75	2615	2470	2235	3.56	2.62	CB30M-41 (Multi)	●Factory Installed
		29,200	8.6	30,000	8.8	20,000	5.9	13.10	11.15	8.75	7.75	2615	2470	2235	3.56	2.62	CB30U-41/46 (Up-Flow)	●Factory Installed
		29,600	8.7	29,600	8.7	19,600	5.7	14.00	11.90	9.00	7.90	2490	2355	2145	3.68	2.68	CB31MV-41 (Multi)	●Factory Installed
	Up-Flow Coils	30,000	8.8	30,000	8.8	20,200	5.9	13.00	11.30	8.00	7.10	2660	2765	2465	3.18	2.40	[1]C33-38A/B	**56J19** (LB-85759F)
		30,000	8.8	30,000	8.8	20,200	5.9	13.00	11.30	8.00	7.10	2660	2765	2465	3.18	2.40	C33-44C	**56J19** (LB-85759F)
		30,000	8.8	30,000	8.8	20,200	5.9	13.00	11.30	8.00	7.10	2660	2765	2465	3.18	2.40	C33-48B/C	**56J19** (LB-85759F)
		30,200	8.9	30,000	8.8	20,200	5.9	13.20	11.35	8.00	7.10	2660	2765	2465	3.18	2.40	C33-50/60C	**56J19** (LB-85759F)
	Horizontal Coils	30,000	8.8	29,800	8.7	20,000	5.9	13.10	11.15	8.00	7.10	2685	2745	2460	3.18	2.38	CH33-44/48B-F	**56J19** LB-85759F
		30,200	8.9	29,800	8.7	20,000	5.9	13.15	11.25	8.00	7.10	2685	2765	2460	3.16	2.38	CH33-48C-F	**56J19** LB-85759F
HP28-036 3 Ton (74 db)	**Blower Coil Units**	34,400	10.1	35,600	10.4	22,000	6.4	12.75	10.80	8.70	7.60	3185	2865	2580	3.64	2.50	CB30M-41 (Multi)	●Factory Installed
		34,400	10.1	35,600	10.4	22,000	6.4	12.75	10.80	8.70	7.60	3185	2865	2580	3.64	2.50	CB30U-41/46 (Up-Flow)	●Factory Installed
		34,400	10.1	35,600	10.4	22,000	6.4	12.80	10.85	8.70	7.60	3175	2850	2580	3.66	2.50	CB30M-46 (Multi)	●Factory Installed
		34,800	10.2	35,400	10.4	21,600	6.3	13.50	11.30	9.00	7.90	3075	2730	2470	3.80	2.56	CB31MV-41 (Multi)	●Factory Installed
		36,000	10.6	35,600	10.4	22,000	6.4	13.50	11.40	8.80	7.70	3155	2780	2580	3.76	2.50	CB30M-51 (Multi)	●Factory Installed
		36,000	10.6	35,600	10.4	22,000	6.4	13.50	11.40	8.80	7.70	3155	2780	2580	3.76	2.50	CB30U-51 (Up-Flow)	●Factory Installed
		36,000	10.6	35,200	10.3	21,600	6.3	14.50	11.95	9.20	8.10	3010	2645	2415	3.90	2.62	CB31MV-51 (Multi)	●Factory Installed
	Up-Flow Coils	36,000	10.6	35,600	10.4	22,200	6.5	13.10	11.10	8.25	7.15	3250	3070	2710	3.40	2.40	C33-50/60C	**56J19** (LB-85759F)
		36,000	10.6	35,600	10.4	22,200	6.5	13.00	11.10	8.25	7.15	3245	3070	2710	3.40	2.40	[1]C33-60D	**56J19** (LB-85759F)
		36,000	10.6	35,800	10.5	22,400	6.6	13.30	11.10	8.35	7.25	3250	3050	2710	3.44	2.42	C33-62D	**56J19** (LB-85759F)
	Horizontal Coils	35,800	10.5	35,400	10.4	22,000	6.4	12.90	11.00	7.90	6.80	3250	3015	2710	3.44	2.38	CH33-44/48B-F	**56J19** LB-85759F
		35,800	10.5	35,400	10.4	22,000	6.4	12.90	11.00	7.90	6.80	3255	3015	2710	3.44	2.38	CH33-48C-F	**56J19** LB-85759F
		36,400	10.7	35,600	10.4	22,200	6.5	13.15	11.15	7.90	6.80	3260	3030	2735	3.44	2.38	CH33-50/60C-F	**56J19** LB-85759F
HP28-042 3.5 Ton (74 db)	**Blower Coil Units**	41,000	12.0	39,000	11.4	24,600	7.2	13.15	11.15	8.20	7.20	3675	3440	3005	3.32	2.40	CB30M-41 (Multi)	●Factory Installed
		41,000	12.0	39,000	11.4	24,600	7.2	13.15	11.15	8.20	7.20	3675	3440	3005	3.32	2.40	CB30U-41/46 (Up-Flow)	●Factory Installed
		41,000	12.0	39,000	11.4	24,600	7.2	13.15	11.15	8.20	7.20	3675	3420	2980	3.34	2.42	CB30M-46 (Multi)	●Factory Installed
		41,000	12.0	39,000	11.4	25,000	7.3	13.60	11.45	8.30	7.40	3580	3320	2955	3.44	2.48	CB31MV-41 (Multi)	●Factory Installed
		42,000	12.3	40,000	11.7	24,800	7.3	13.30	11.30	8.25	7.20	3715	3465	3025	3.38	2.40	CB30M-51 (Multi)	●Factory Installed
		42,000	12.3	40,000	11.7	24,800	7.3	13.30	11.30	8.25	7.20	3715	3465	3025	3.38	2.40	CB30U-51 (Up-Flow)	●Factory Installed
		42,000	12.3	40,000	11.7	25,000	7.3	14.00	11.80	8.50	7.50	3560	3290	2905	3.56	2.52	CB31MV-51 (Multi)	●Factory Installed
	Up-Flow Coils	40,500	11.9	39,000	11.4	25,000	7.3	13.00	10.75	8.00	7.10	3760	3615	3185	3.16	2.30	C33-50/60C	**56J20** (LB-85759G)
		41,500	12.2	39,000	11.4	25,000	7.3	13.00	11.00	8.05	7.10	3765	3570	3185	3.20	2.30	[1]C33-60D	**56J20** (LB-85759G)
		42,000	12.3	39,000	11.4	25,000	7.3	13.20	11.40	8.10	7.10	3685	3485	3155	3.28	2.32	C33-62D	**56J20** (LB-85759G)
	Horizontal Coils	41,000	12.0	39,000	11.4	25,000	7.3	12.80	10.90	8.05	7.10	3760	3485	3105	3.28	2.36	CH33-44/48B-F	**56J19** LB-85759F
		41,000	12.0	39,000	11.4	25,000	7.3	12.80	10.90	8.05	7.10	3760	3485	3105	3.28	2.36	CH33-48C-F	**56J19** LB-85759F
		42,000	12.3	39,000	11.4	25,000	7.3	13.10	11.20	8.30	7.25	3750	3360	3025	3.40	2.42	CH33-50/60C-F	**56J19** LB-85759F

NOTE - Ratings for all C33 coils include all cased and uncased coils.
*Sound Rating Number in accordance with test conditions included in ARI Standard 270.
★Certified in accordance with USE certification program which is based on ARI Standard 210/240 with 25 ft. (7.6 m) of connecting refrigerant lines;
Cooling Ratings — 95°F (35°C) outdoor air temperature and 80°F (27°C) db/67°F (19°C) wb entering indoor coil air.
High Temperature Heating Ratings — 47°F (8°C) db/43°F (6°C) wb outdoor air temperature and 70°F (21°C) db entering indoor coil air.
Low Temperature Heating Ratings — 17°F (-8.3°C) db/15°F (-9.4°C) wb outdoor air temperature and 70°F (21°C) db entering indoor coil air.
●Furnished as standard with coil unit.
**Kit is required and must be ordered extra, unless shown as factory installed.
[1]Most popular coil combination.
NOTE - Use FM21 Control with any listed coil and furnace that meets system design requirements. See FM21 page in Thermostats and Controls section for additional data.

RATINGS

NOTE - Cooling capacities are gross and do not include indoor coil blower motor heat deduction. Heating capacities include defrost cycles in the temperature range where they occur.
NOTE HEATING PERFORMANCE outdoor temperature 70% relative humidity. Indoor temperature 70°F (21°).
NOTE - For Temperatures and Capacities not shown in tables, see bulletin — Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HP28-024 - CB30M-31 - CB30U-31 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	600	285	23.9	7.0	1.51	.69	.82	.94	23.1	6.8	1.70	.70	.83	.95	22.2	6.5	1.92	.71	.85	.98	21.2	6.2	2.17	.72	.87	1.00
	800	380	25.2	7.4	1.52	.75	.91	1.00	24.3	7.1	1.71	.77	.92	1.00	23.4	6.9	1.92	.78	.94	1.00	22.4	6.6	2.17	.80	.96	1.00
	1000	470	26.2	7.7	1.53	.82	.98	1.00	25.3	7.4	1.71	.84	.99	1.00	24.4	7.2	1.92	.85	1.00	1.00	23.5	6.9	2.17	.87	1.00	1.00
67°F (19°C)	600	285	25.6	7.5	1.52	.55	.66	.78	24.7	7.2	1.71	.55	.67	.80	23.7	6.9	1.92	.56	.68	.81	22.7	6.7	2.17	.56	.70	.83
	800	380	26.8	7.9	1.53	.58	.73	.87	25.8	7.6	1.72	.59	.74	.89	24.8	7.3	1.93	.60	.75	.91	23.7	6.9	2.18	.61	.77	.93
	1000	470	27.5	8.1	1.53	.62	.80	.95	26.5	7.8	1.72	.63	.81	.97	25.4	7.4	1.93	.64	.83	.99	24.3	7.1	2.18	.65	.85	1.00
71°F (22°C)	600	285	27.3	8.0	1.53	.42	.53	.64	26.4	7.7	1.72	.42	.53	.65	25.4	7.4	1.93	.42	.54	.66	24.3	7.1	2.18	.42	.54	.67
	800	380	28.5	8.4	1.54	.43	.57	.70	27.5	8.1	1.73	.43	.57	.72	26.4	7.7	1.94	.43	.58	.73	25.2	7.4	2.19	.44	.60	.75
	1000	470	29.3	8.6	1.55	.44	.61	.77	28.2	8.3	1.73	.44	.62	.79	27.1	7.9	1.94	.45	.63	.81	25.8	7.6	2.19	.46	.64	.83

HP28-024 - CB30M-41 - CB30U-41 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	700	330	24.7	7.2	1.49	.72	.86	.99	23.8	7.0	1.68	.73	.88	1.00	22.9	6.7	1.89	.74	.89	1.00	21.8	6.4	2.14	.76	.92	1.00
	900	425	25.8	7.6	1.50	.78	.95	1.00	24.8	7.3	1.68	.80	.97	1.00	23.9	7.0	1.89	.81	.98	1.00	22.9	6.7	2.14	.84	1.00	1.00
	1100	520	26.8	7.9	1.50	.85	1.00	1.00	25.9	7.6	1.68	.87	1.00	1.00	25.0	7.3	1.89	.88	1.00	1.00	24.0	7.0	2.14	.91	1.00	1.00
67°F (19°C)	700	330	26.3	7.7	1.50	.56	.69	.82	25.4	7.4	1.68	.57	.70	.84	24.4	7.2	1.89	.57	.72	.86	23.3	6.8	2.14	.58	.73	.88
	900	425	27.3	8.0	1.51	.60	.76	.92	26.3	7.7	1.69	.61	.77	.94	25.2	7.4	1.90	.62	.79	.95	24.1	7.1	2.14	.63	.81	.98
	1100	520	27.9	8.2	1.51	.64	.83	.99	26.9	7.9	1.69	.65	.84	1.00	25.8	7.6	1.90	.66	.87	1.00	24.6	7.2	2.15	.68	.89	1.00
71°F (22°C)	700	330	28.1	8.2	1.51	.42	.54	.67	27.1	7.9	1.70	.42	.55	.68	26.0	7.6	1.90	.42	.56	.69	24.9	7.3	2.15	.43	.57	.71
	900	425	29.1	8.5	1.52	.43	.59	.74	28.0	8.2	1.70	.44	.60	.75	26.9	7.9	1.91	.44	.61	.77	25.7	7.5	2.15	.45	.62	.79
	1100	520	29.7	8.7	1.53	.45	.63	.81	28.5	8.4	1.71	.46	.64	.82	27.4	8.0	1.91	.46	.65	.84	26.1	7.6	2.15	.46	.67	.86

HP28-024 - CB30M-31 - CB30U-31 HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
600	285	28.9	8.5	2.23	22.5	6.6	1.95	15.7	4.6	1.66	11.3	3.3	1.40	5.5	1.6	1.09
800	380	29.5	8.6	2.08	23.1	6.8	1.80	16.3	4.8	1.51	11.9	3.5	1.25	6.1	1.8	.94
1000	470	29.9	8.8	2.00	23.5	6.9	1.71	16.7	4.9	1.42	12.3	3.6	1.17	6.5	1.9	.85

HP28-024 - CB30M-41 - CB30U-41/46 HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
600	285	29.6	8.7	1.96	22.9	6.7	1.78	15.9	4.7	1.59	11.3	3.3	1.41	5.6	1.6	1.06
800	380	30.1	8.8	1.85	23.4	6.9	1.67	16.4	4.8	1.48	11.8	3.5	1.30	6.1	1.8	.95
1000	470	30.6	9.0	1.79	23.9	7.0	1.61	16.9	5.0	1.42	12.3	3.6	1.23	6.6	1.9	.89

HP28-024 - CB30M-31 - CB30U-51 HEATING PERFORMANCE at 800 cfm (380 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.08	29.5	8.6
60	16	2.02	28.0	8.2
55	13	1.95	26.5	7.8
50	10	1.88	25.1	7.4
47	8	1.84	24.2	7.1
45	7	1.80	23.1	6.8
40	4	1.71	20.2	5.9
35	2	1.61	17.4	5.1
30	-1	1.56	16.8	4.9
25	-4	1.51	16.3	4.8
20	-7	1.46	15.7	4.6
17	-8	1.43	15.4	4.5
15	-9	1.40	14.8	4.3
10	-12	1.33	13.3	3.9
5	-15	1.25	11.9	3.5
0	-18	1.17	10.4	3.0
-5	-21	1.09	9.0	2.6
-10	-23	1.01	7.5	2.2
-15	-26	.94	6.1	1.8
-20	-29	.86	4.6	1.3

HP28-024 - CB30M-41 - CB30U-41/46 HEATING PERFORMANCE at 800 cfm (380 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	1.85	30.1	8.8
60	16	1.81	28.6	8.4
55	13	1.77	27.1	7.9
50	10	1.72	25.5	7.5
47	8	1.70	24.6	7.2
45	7	1.67	23.4	6.9
40	4	1.60	20.5	6.0
35	2	1.53	17.6	5.2
30	-1	1.51	17.0	5.0
25	-4	1.48	16.4	4.8
20	-7	1.46	15.8	4.6
17	-8	1.44	15.4	4.5
15	-9	1.43	14.8	4.3
10	-12	1.38	13.3	3.9
5	-15	1.30	11.8	3.5
0	-18	1.21	10.4	3.0
-5	-21	1.12	8.9	2.6
-10	-23	1.04	7.5	2.2
-15	-26	.95	6.1	1.8
-20	-29	.87	4.6	1.3

RATINGS

NOTE - Cooling capacities are gross and do not include indoor coil blower motor heat deduction. Heating capacities include defrost cycles in the temperature range where they occur.
NOTE HEATING PERFORMANCE outdoor temperature 70% relative humidity. Indoor temperature 70°F (21°).
NOTE - For Temperatures and Capacities not shown in tables, see bulletin — Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HP28-024 — CB31MV-41 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	900	425	25.2	7.4	1.51	.78	.95	1.00	24.3	7.1	1.70	.79	.96	1.00	23.4	6.9	1.91	.81	.98	1.00	22.4	6.6	2.16	.83	1.00	1.00
	1000	470	26.0	7.6	1.51	.81	.98	1.00	25.1	7.4	1.70	.83	1.00	1.00	24.2	7.1	1.91	.85	1.00	1.00	23.3	6.8	2.16	.87	1.00	1.00
	1125	530	26.6	7.8	1.52	.85	1.00	1.00	25.8	7.6	1.70	.87	1.00	1.00	24.9	7.3	1.91	.89	1.00	1.00	23.9	7.0	2.16	.92	1.00	1.00
67°F (19°C)	900	425	26.7	7.8	1.52	.60	.76	.91	25.7	7.5	1.70	.61	.78	.93	24.7	7.2	1.91	.62	.79	.96	23.6	6.9	2.16	.63	.81	.97
	1000	470	27.3	8.0	1.52	.62	.79	.96	26.3	7.7	1.71	.63	.81	.97	25.3	7.4	1.92	.64	.82	.99	24.1	7.1	2.16	.65	.85	1.00
	1125	530	27.7	8.1	1.53	.64	.83	.99	26.7	7.8	1.71	.65	.85	1.00	25.6	7.5	1.92	.67	.87	1.00	24.5	7.2	2.17	.68	.89	1.00
71°F (22°C)	900	425	28.4	8.3	1.53	.43	.59	.74	27.4	8.0	1.72	.44	.59	.75	26.3	7.7	1.92	.44	.60	.77	25.1	7.4	2.17	.45	.62	.79
	1000	470	29.1	8.5	1.54	.44	.61	.77	28.0	8.2	1.72	.45	.62	.79	26.9	7.9	1.93	.45	.63	.80	25.7	7.5	2.17	.46	.64	.83
	1125	530	29.4	8.6	1.54	.45	.63	.81	28.3	8.3	1.72	.46	.64	.83	27.2	8.0	1.93	.46	.66	.85	25.9	7.6	2.17	.47	.67	.87

HP28-024 - C33-38A/B - C33-44C COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	600	285	24.3	7.1	1.51	.69	.81	.94	23.4	6.9	1.69	.70	.83	.95	22.5	6.6	1.91	.71	.84	.97	21.6	6.3	2.16	.72	.86	.99
	800	380	25.6	7.5	1.51	.74	.90	1.00	24.7	7.2	1.70	.76	.92	1.00	23.7	6.9	1.91	.77	.93	1.00	22.7	6.7	2.16	.79	.95	1.00
	1000	470	26.6	7.8	1.52	.81	.97	1.00	25.6	7.5	1.70	.82	.99	1.00	24.7	7.2	1.92	.84	1.00	1.00	23.8	7.0	2.16	.86	1.00	1.00
67°F (19°C)	600	285	26.0	7.6	1.52	.54	.66	.78	25.1	7.4	1.70	.55	.67	.79	24.1	7.1	1.91	.56	.68	.81	23.1	6.8	2.16	.56	.69	.82
	800	380	27.2	8.0	1.52	.58	.72	.87	26.2	7.7	1.71	.58	.73	.88	25.2	7.4	1.92	.59	.75	.90	24.1	7.1	2.17	.60	.77	.93
	1000	470	28.0	8.2	1.53	.61	.78	.95	27.0	7.9	1.71	.62	.80	.96	25.9	7.6	1.92	.63	.82	.98	24.7	7.2	2.17	.64	.84	1.00
71°F (22°C)	600	285	27.8	8.1	1.52	.42	.53	.63	26.8	7.9	1.71	.42	.53	.64	25.8	7.6	1.92	.42	.54	.65	24.7	7.2	2.17	.42	.54	.66
	800	380	29.0	8.5	1.53	.42	.56	.70	28.0	8.2	1.72	.43	.57	.71	26.9	7.9	1.93	.43	.58	.72	25.7	7.5	2.18	.43	.59	.74
	1000	470	29.8	8.7	1.54	.44	.60	.76	28.7	8.4	1.72	.44	.61	.78	27.6	8.1	1.93	.45	.62	.80	26.3	7.7	2.18	.45	.63	.82

HP28-024 - CB31MV-41 HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
900	425	29.4	8.6	1.88	22.7	6.7	1.70	15.7	4.6	1.51	11.2	3.3	1.32	5.6	1.6	.98
1000	470	29.7	8.7	1.85	23.0	6.7	1.67	16.0	4.7	1.49	11.5	3.4	1.30	5.9	1.7	.95
1125	530	30.0	8.8	1.80	23.3	6.8	1.62	16.3	4.8	1.44	11.8	3.5	1.25	6.2	1.8	.90

HP28-024 - C33-38A/B - C33-44C HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
600	285	29.5	8.6	2.00	22.8	6.7	1.82	15.8	4.6	1.64	11.2	3.3	1.46	5.3	1.6	1.11
800	380	30.3	8.9	1.83	23.6	6.9	1.66	16.6	4.9	1.47	12.0	3.5	1.29	6.1	1.8	.95
1000	470	30.9	9.1	1.74	24.2	7.1	1.57	17.2	5.0	1.38	12.6	3.7	1.20	6.7	2.0	.86

HP28-024 - CB31MV-41 HEATING PERFORMANCE at 1000 cfm (470 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	1.85	29.7	8.7
60	16	1.81	28.2	8.3
55	13	1.77	26.7	7.8
50	10	1.72	25.1	7.4
47	8	1.70	24.2	7.1
45	7	1.67	23.0	6.7
40	4	1.61	20.1	5.9
35	2	1.54	17.2	5.0
30	-1	1.51	16.6	4.9
25	-4	1.49	16.0	4.7
20	-7	1.46	15.4	4.5
17	-8	1.44	15.0	4.4
15	-9	1.43	14.4	4.2
10	-12	1.39	12.9	3.8
5	-15	1.30	11.5	3.4
0	-18	1.21	10.1	3.0
-5	-21	1.13	8.7	2.5
-10	-23	1.04	7.3	2.1
-15	-26	.95	5.9	1.7
-20	-29	.87	4.5	1.3

HP28-024 - C33-38A/B - C33-44C HEATING PERFORMANCE at 800 cfm (380 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	1.83	30.3	8.9
60	16	1.79	28.8	8.4
55	13	1.75	27.3	8.0
50	10	1.71	25.7	7.5
47	8	1.68	24.8	7.3
45	7	1.66	23.6	6.9
40	4	1.59	20.7	6.1
35	2	1.52	17.7	5.2
30	-1	1.50	17.1	5.0
25	-4	1.47	16.6	4.9
20	-7	1.45	16.0	4.7
17	-8	1.43	15.6	4.6
15	-9	1.42	15.0	4.4
10	-12	1.38	13.5	4.0
5	-15	1.29	12.0	3.5
0	-18	1.20	10.5	3.1
-5	-21	1.12	9.1	2.7
-10	-23	1.03	7.6	2.2
-15	-26	.95	6.1	1.8
-20	-29	.86	4.7	1.4

RATINGS

NOTE - Cooling capacities are gross and do not include indoor coil blower motor heat deduction. Heating capacities include defrost cycles in the temperature range where they occur.
NOTE HEATING PERFORMANCE outdoor temperature 70% relative humidity. Indoor temperature 70°F (21°).
NOTE - For Temperatures and Capacities not shown in tables, see bulletin — Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HP28-024 - C33-48B/C COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	600	285	24.4	7.2	1.51	.69	.82	.94	23.6	6.9	1.69	.69	.83	.95	22.7	6.7	1.91	.70	.84	.97	21.7	6.4	2.16	.71	.86	.99
	800	380	25.7	7.5	1.51	.75	.90	1.00	24.8	7.3	1.70	.76	.92	1.00	23.9	7.0	1.91	.77	.93	1.00	22.8	6.7	2.17	.79	.96	1.00
	1000	470	26.7	7.8	1.52	.81	.98	1.00	25.8	7.6	1.70	.82	.99	1.00	24.9	7.3	1.92	.84	1.00	1.00	23.9	7.0	2.17	.86	1.00	1.00
67°F (19°C)	600	285	26.2	7.7	1.52	.54	.66	.78	25.2	7.4	1.70	.55	.67	.79	24.3	7.1	1.91	.56	.68	.81	23.2	6.8	2.16	.56	.69	.82
	800	380	27.4	8.0	1.52	.58	.72	.87	26.4	7.7	1.71	.58	.73	.88	25.4	7.4	1.92	.59	.75	.90	24.2	7.1	2.17	.60	.77	.92
	1000	470	28.2	8.3	1.53	.61	.79	.95	27.2	8.0	1.71	.62	.80	.96	26.1	7.6	1.92	.63	.82	.98	24.9	7.3	2.17	.65	.84	1.00
71°F (22°C)	600	285	28.0	8.2	1.53	.42	.52	.63	27.0	7.9	1.71	.42	.53	.64	26.0	7.6	1.92	.42	.53	.65	24.9	7.3	2.17	.42	.54	.67
	800	380	29.2	8.6	1.53	.43	.56	.70	28.2	8.3	1.72	.43	.57	.71	27.1	7.9	1.93	.43	.58	.72	25.9	7.6	2.18	.43	.59	.74
	1000	470	30.0	8.8	1.54	.44	.60	.76	28.9	8.5	1.72	.44	.61	.78	27.8	8.1	1.93	.45	.62	.79	26.5	7.8	2.18	.45	.64	.82

HP28-024 - C33-50/60C COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	600	285	24.6	7.2	1.51	.69	.81	.94	23.7	6.9	1.69	.70	.83	.96	22.8	6.7	1.91	.71	.84	.97	21.8	6.4	2.16	.71	.86	.99
	800	380	25.9	7.6	1.52	.75	.90	1.00	25.0	7.3	1.70	.76	.92	1.00	24.0	7.0	1.91	.77	.94	1.00	23.0	6.7	2.17	.79	.95	1.00
	1000	470	26.9	7.9	1.52	.81	.98	1.00	26.0	7.6	1.71	.82	.99	1.00	25.0	7.3	1.92	.84	1.00	1.00	24.1	7.1	2.17	.87	1.00	1.00
67°F (19°C)	600	285	26.3	7.7	1.52	.54	.66	.78	25.4	7.4	1.70	.55	.67	.79	24.4	7.2	1.91	.55	.68	.81	23.4	6.9	2.16	.56	.69	.82
	800	380	27.6	8.1	1.52	.58	.72	.86	26.6	7.8	1.71	.58	.73	.88	25.5	7.5	1.92	.59	.75	.91	24.4	7.2	2.17	.60	.77	.93
	1000	470	28.4	8.3	1.53	.61	.79	.95	27.4	8.0	1.71	.63	.80	.97	26.2	7.7	1.92	.63	.82	.98	25.1	7.4	2.17	.65	.84	1.00
71°F (22°C)	600	285	28.2	8.3	1.53	.42	.52	.63	27.2	8.0	1.71	.42	.53	.64	26.2	7.7	1.92	.42	.53	.65	25.0	7.3	2.17	.42	.54	.66
	800	380	29.5	8.6	1.54	.42	.56	.70	28.4	8.3	1.72	.43	.57	.71	27.3	8.0	1.93	.43	.58	.72	26.1	7.6	2.18	.43	.59	.74
	1000	470	30.3	8.9	1.54	.44	.60	.76	29.1	8.5	1.73	.44	.61	.78	28.0	8.2	1.93	.45	.62	.80	26.7	7.8	2.18	.45	.64	.82

HP28-024 - C33-48B/C HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
600	285	29.6	8.7	2.00	22.9	6.7	1.82	15.9	4.7	1.63	11.3	3.3	1.44	5.4	1.6	1.10
800	380	30.3	8.9	1.86	23.6	6.9	1.68	16.6	4.9	1.49	12.0	3.5	1.30	6.1	1.8	.96
1000	470	30.9	9.1	1.76	24.2	7.1	1.58	17.2	5.0	1.39	12.6	3.7	1.20	6.7	2.0	.86

HP28-024 - C33-50/60C HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
600	285	29.5	8.6	2.00	22.8	6.7	1.81	15.8	4.6	1.62	11.2	3.3	1.43	5.3	1.6	1.10
800	380	30.3	8.9	1.83	23.6	6.9	1.64	16.6	4.9	1.45	12.0	3.5	1.26	6.1	1.8	.93
1000	470	30.9	9.1	1.74	24.2	7.1	1.55	17.2	5.0	1.36	12.6	3.7	1.17	6.7	2.0	.84

HP28-024 - C33-48B/C HEATING PERFORMANCE at 800 cfm (380 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	1.86	30.3	8.9
60	16	1.82	28.8	8.4
55	13	1.78	27.3	8.0
50	10	1.73	25.7	7.5
47	8	1.71	24.8	7.3
45	7	1.68	23.6	6.9
40	4	1.61	20.7	6.1
35	2	1.54	17.7	5.2
30	-1	1.52	17.1	5.0
25	-4	1.49	16.6	4.9
20	-7	1.47	16.0	4.7
17	-8	1.45	15.6	4.6
15	-9	1.43	15.0	4.4
10	-12	1.39	13.5	4.0
5	-15	1.30	12.0	3.5
0	-18	1.22	10.5	3.1
-5	-21	1.13	9.1	2.7
-10	-23	1.04	7.6	2.2
-15	-26	.96	6.1	1.8
-20	-29	.87	4.7	1.4

HP28-024 - C33-50/60C HEATING PERFORMANCE at 800 cfm (380 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	1.83	30.3	8.9
60	16	1.79	28.8	8.4
55	13	1.74	27.3	8.0
50	10	1.70	25.7	7.5
47	8	1.67	24.8	7.3
45	7	1.64	23.6	6.9
40	4	1.57	20.7	6.1
35	2	1.50	17.7	5.2
30	-1	1.48	17.1	5.0
25	-4	1.45	16.6	4.9
20	-7	1.42	16.0	4.7
17	-8	1.40	15.6	4.6
15	-9	1.39	15.0	4.4
10	-12	1.34	13.5	4.0
5	-15	1.26	12.0	3.5
0	-18	1.18	10.5	3.1
-5	-21	1.09	9.1	2.7
-10	-23	1.01	7.6	2.2
-15	-26	.93	6.1	1.8
-20	-29	.84	4.7	1.4

RATINGS

NOTE - Cooling capacities are gross and do not include indoor coil blower motor heat deduction. Heating capacities include defrost cycles in the temperature range where they occur.
NOTE HEATING PERFORMANCE outdoor temperature 70% relative humidity. Indoor temperature 70°F (21°).
NOTE - For Temperatures and Capacities not shown in tables, see bulletin — Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HP28-024 - CH33-44/48B-F COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	600	285	24.2	7.1	1.50	.69	.81	.94	23.4	6.9	1.68	.70	.83	.96	22.5	6.6	1.89	.71	.84	.97	21.5	6.3	2.14	.72	.86	.99
	800	380	25.6	7.5	1.50	.74	.90	1.00	24.6	7.2	1.69	.76	.92	1.00	23.7	6.9	1.90	.77	.94	1.00	22.6	6.6	2.15	.79	.96	1.00
	1000	470	26.6	7.8	1.51	.81	.98	1.00	25.6	7.5	1.69	.82	.99	1.00	24.7	7.2	1.90	.84	1.00	1.00	23.8	7.0	2.15	.86	1.00	1.00
67°F (19°C)	600	285	26.0	7.6	1.50	.54	.66	.78	25.1	7.4	1.69	.55	.67	.79	24.1	7.1	1.90	.55	.68	.81	23.1	6.8	2.15	.56	.69	.82
	800	380	27.2	8.0	1.51	.58	.72	.87	26.2	7.7	1.70	.58	.73	.88	25.2	7.4	1.91	.59	.75	.90	24.1	7.1	2.15	.60	.76	.93
	1000	470	28.1	8.2	1.52	.61	.78	.95	27.0	7.9	1.70	.62	.80	.97	25.9	7.6	1.91	.63	.82	.98	24.7	7.2	2.16	.65	.84	1.00
71°F (22°C)	600	285	27.8	8.1	1.51	.42	.53	.63	26.8	7.9	1.70	.42	.53	.64	25.8	7.6	1.91	.42	.54	.65	24.7	7.2	2.15	.42	.54	.66
	800	380	29.1	8.5	1.53	.42	.56	.69	28.0	8.2	1.71	.43	.57	.71	26.9	7.9	1.92	.43	.58	.72	25.7	7.5	2.16	.43	.59	.74
	1000	470	29.9	8.8	1.53	.44	.60	.76	28.8	8.4	1.71	.44	.61	.78	27.6	8.1	1.92	.45	.62	.80	26.3	7.7	2.17	.45	.64	.82

HP28-024 - CH33-48C-F COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	600	285	24.4	7.2	1.50	.69	.81	.94	23.5	6.9	1.68	.69	.83	.96	22.6	6.6	1.89	.70	.84	.97	21.6	6.3	2.14	.72	.86	.99
	800	380	25.7	7.5	1.50	.74	.90	1.00	24.7	7.2	1.69	.76	.92	1.00	23.8	7.0	1.90	.77	.94	1.00	22.8	6.7	2.15	.79	.96	1.00
	1000	470	26.7	7.8	1.51	.81	.98	1.00	25.8	7.6	1.69	.82	.99	1.00	24.8	7.3	1.90	.84	1.00	1.00	23.9	7.0	2.15	.86	1.00	1.00
67°F (19°C)	600	285	26.1	7.6	1.50	.54	.66	.78	25.2	7.4	1.69	.55	.67	.79	24.2	7.1	1.90	.55	.68	.81	23.2	6.8	2.15	.56	.69	.82
	800	380	27.4	8.0	1.51	.58	.72	.87	26.4	7.7	1.70	.58	.73	.89	25.3	7.4	1.91	.59	.75	.91	24.2	7.1	2.15	.60	.76	.93
	1000	470	28.2	8.3	1.52	.61	.79	.95	27.1	7.9	1.70	.62	.80	.97	26.0	7.6	1.91	.63	.82	.98	24.9	7.3	2.16	.64	.84	1.00
71°F (22°C)	600	285	27.9	8.2	1.52	.42	.52	.63	26.9	7.9	1.70	.42	.53	.64	25.9	7.6	1.91	.42	.54	.65	24.8	7.3	2.15	.42	.54	.66
	800	380	29.2	8.6	1.53	.43	.56	.70	28.1	8.2	1.71	.43	.57	.71	27.0	7.9	1.92	.43	.58	.72	25.8	7.6	2.16	.44	.59	.74
	1000	470	30.0	8.8	1.53	.44	.60	.76	28.9	8.5	1.71	.44	.61	.78	27.7	8.1	1.92	.45	.62	.80	26.5	7.8	2.17	.45	.64	.82

HP28-024 - CH33-44/48B-F - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
600	285	30.6	9.0	1.81	23.5	6.9	1.68	16.0	4.7	1.54	11.2	3.3	1.38	5.4	1.6	1.06
800	380	31.3	9.2	1.65	24.2	7.1	1.51	16.7	4.9	1.37	11.9	3.5	1.22	6.1	1.8	.89
1000	470	31.9	9.3	1.56	24.8	7.3	1.42	17.3	5.1	1.28	12.5	3.7	1.13	6.7	2.0	.80

HP28-024 - CH33-48C-F HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
600	285	30.8	9.0	1.80	23.6	6.9	1.66	15.9	4.7	1.52	11.0	3.2	1.37	5.3	1.6	1.05
800	380	31.6	9.3	1.63	24.4	7.2	1.50	16.7	4.9	1.36	11.8	3.5	1.21	6.1	1.8	.88
1000	470	32.1	9.4	1.55	24.9	7.3	1.41	17.2	5.0	1.27	12.3	3.6	1.12	6.6	1.9	.80

HP28-024 - CH33-44/48B-F HEATING PERFORMANCE at 800 cfm (380 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	1.65	31.3	9.2
60	16	1.62	29.6	8.7
55	13	1.59	28.0	8.2
50	10	1.55	26.4	7.7
47	8	1.54	25.4	7.4
45	7	1.51	24.2	7.1
40	4	1.46	21.1	6.2
35	2	1.40	18.0	5.3
30	-1	1.39	17.4	5.1
25	-4	1.37	16.7	4.9
20	-7	1.35	16.0	4.7
17	-8	1.35	15.6	4.6
15	-9	1.33	14.9	4.4
10	-12	1.30	13.3	3.9
5	-15	1.22	11.9	3.5
0	-18	1.14	10.4	3.0
-5	-21	1.06	9.0	2.6
-10	-23	.97	7.6	2.2
-15	-26	.89	6.1	1.8
-20	-29	.81	4.7	1.4

HP28-024 - CH33-48C-F HEATING PERFORMANCE at 800 cfm (380 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	1.63	31.6	9.3
60	16	1.60	29.9	8.8
55	13	1.57	28.3	8.3
50	10	1.54	26.6	7.8
47	8	1.52	25.6	7.5
45	7	1.50	24.4	7.2
40	4	1.44	21.3	6.2
35	2	1.39	18.1	5.3
30	-1	1.37	17.4	5.1
25	-4	1.36	16.7	4.9
20	-7	1.34	16.0	4.7
17	-8	1.33	15.6	4.6
15	-9	1.32	14.9	4.4
10	-12	1.29	13.3	3.9
5	-15	1.21	11.8	3.5
0	-18	1.12	10.4	3.0
-5	-21	1.04	9.0	2.6
-10	-23	.96	7.5	2.2
-15	-26	.88	6.1	1.8
-20	-29	.80	4.7	1.4

RATINGS

NOTE - Cooling capacities are gross and do not include indoor coil blower motor heat deduction. Heating capacities include defrost cycles in the temperature range where they occur.
NOTE HEATING PERFORMANCE outdoor temperature 70% relative humidity. Indoor temperature 70°F (21°).
NOTE - For Temperatures and Capacities not shown in tables, see bulletin — Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HP28-030 - CB30M-31 - CB30U-31 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	800	380	28.3	8.3	1.88	.71	.84	.96	27.3	8.0	2.12	.72	.86	.97	26.2	7.7	2.38	.73	.87	.99	25.1	7.4	2.68	.74	.89	1.00
	1000	470	29.5	8.6	1.88	.76	.91	1.00	28.4	8.3	2.13	.78	.92	1.00	27.2	8.0	2.39	.79	.94	1.00	26.1	7.6	2.69	.81	.96	1.00
	1200	565	30.4	8.9	1.88	.81	.96	1.00	29.3	8.6	2.13	.83	.98	1.00	28.1	8.2	2.40	.84	1.00	1.00	27.1	7.9	2.69	.86	1.00	1.00
67°F (19°C)	800	380	30.3	8.9	1.88	.56	.68	.81	29.1	8.5	2.13	.57	.69	.82	28.0	8.2	2.40	.57	.71	.84	26.8	7.9	2.69	.58	.72	.86
	1000	470	31.4	9.2	1.88	.59	.73	.88	30.1	8.8	2.14	.59	.75	.89	28.9	8.5	2.41	.60	.76	.91	27.6	8.1	2.70	.61	.78	.93
	1200	565	32.2	9.4	1.89	.62	.78	.94	30.8	9.0	2.14	.63	.80	.95	29.5	8.6	2.41	.64	.82	.97	28.2	8.3	2.70	.65	.84	.99
71°F (22°C)	800	380	32.5	9.5	1.89	.42	.54	.66	31.1	9.1	2.15	.42	.55	.67	29.9	8.8	2.41	.43	.56	.68	28.7	8.4	2.70	.43	.56	.69
	1000	470	33.6	9.8	1.89	.43	.57	.71	32.2	9.4	2.15	.43	.58	.72	30.8	9.0	2.42	.44	.59	.74	29.5	8.6	2.71	.44	.60	.76
	1200	565	34.3	10.1	1.89	.44	.60	.76	32.9	9.6	2.15	.45	.61	.78	31.4	9.2	2.42	.45	.63	.80	30.0	8.8	2.72	.46	.64	.82

HP28-030 - CB30M-41 - CB30U-41/46 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	800	380	28.4	8.3	1.88	.71	.84	.96	27.3	8.0	2.12	.72	.86	.98	26.3	7.7	2.39	.73	.87	.99	25.2	7.4	2.69	.75	.89	1.00
	1000	470	29.6	8.7	1.88	.76	.91	1.00	28.4	8.3	2.13	.77	.93	1.00	27.3	8.0	2.40	.79	.95	1.00	26.2	7.7	2.69	.80	.96	1.00
	1200	565	30.6	9.0	1.88	.81	.96	1.00	29.4	8.6	2.14	.83	.98	1.00	28.2	8.3	2.40	.84	1.00	1.00	27.1	7.9	2.70	.86	1.00	1.00
67°F (19°C)	800	380	30.4	8.9	1.88	.56	.68	.81	29.2	8.6	2.13	.57	.70	.82	28.0	8.2	2.40	.57	.71	.84	26.9	7.9	2.70	.58	.72	.86
	1000	470	31.5	9.2	1.89	.59	.73	.87	30.2	8.9	2.14	.60	.75	.89	28.9	8.5	2.41	.61	.76	.91	27.7	8.1	2.70	.61	.78	.94
	1200	565	32.3	9.5	1.89	.62	.78	.94	31.0	9.1	2.14	.63	.80	.96	29.6	8.7	2.41	.64	.82	.97	28.3	8.3	2.71	.65	.84	.99
71°F (22°C)	800	380	32.6	9.6	1.89	.42	.54	.66	31.3	9.2	2.15	.42	.55	.67	30.0	8.8	2.41	.43	.55	.68	28.7	8.4	2.71	.43	.56	.69
	1000	470	33.8	9.9	1.88	.43	.57	.71	32.3	9.5	2.15	.44	.58	.72	30.9	9.1	2.42	.44	.59	.74	29.6	8.7	2.71	.44	.60	.76
	1200	565	34.6	10.1	1.89	.44	.60	.76	33.0	9.7	2.15	.45	.62	.78	31.6	9.3	2.43	.45	.63	.80	30.1	8.8	2.72	.46	.64	.82

HP28-030 - CB30M-31 - CB30U-31 HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
800	380	35.6	10.4	2.32	28.9	8.5	2.12	22.3	6.5	1.88	15.3	4.5	1.78	7.5	2.2	1.34
1000	470	36.0	10.6	2.18	29.3	8.6	1.98	22.7	6.7	1.74	15.7	4.6	1.64	7.9	2.3	1.20
1200	565	36.5	10.7	2.08	29.8	8.7	1.88	23.2	6.8	1.65	16.2	4.7	1.55	8.4	2.5	1.10

HP28-030 - CB30M-41 - CB30U-41/46 HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
800	380	35.5	10.4	2.28	28.8	8.4	2.08	22.2	6.5	1.85	15.2	4.5	1.75	7.4	2.2	1.32
1000	470	36.0	10.6	2.14	29.3	8.6	1.94	22.7	6.7	1.70	15.7	4.6	1.60	7.9	2.3	1.17
1200	565	36.5	10.7	2.05	29.8	8.7	1.85	23.2	6.8	1.61	16.2	4.7	1.51	8.4	2.5	1.08

HP28-030 - CB30M-31 - CB30U-31 HEATING PERFORMANCE at 1000 cfm (470 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.18	36.0	10.6
60	16	2.14	34.3	10.1
55	13	2.10	32.7	9.6
50	10	2.06	31.0	9.1
47	8	2.04	30.0	8.8
45	7	1.98	29.3	8.6
40	4	1.82	27.7	8.1
35	2	1.66	26.0	7.6
30	-1	1.70	24.3	7.1
25	-4	1.74	22.7	6.7
20	-7	1.78	21.0	6.2
17	-8	1.81	20.0	5.9
15	-9	1.79	19.3	5.7
10	-12	1.75	17.7	5.2
5	-15	1.64	15.7	4.6
0	-18	1.53	13.8	4.0
-5	-21	1.42	11.8	3.5
-10	-23	1.31	9.9	2.9
-15	-26	1.20	7.9	2.3
-20	-29	1.09	6.0	1.8

HP28-030 - CB30M-41 - CB30U-41/46 HEATING PERFORMANCE at 1000 cfm (470 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.14	36.0	10.6
60	16	2.10	34.3	10.1
55	13	2.06	32.7	9.6
50	10	2.02	31.0	9.1
47	8	2.00	30.0	8.8
45	7	1.94	29.3	8.6
40	4	1.78	27.7	8.1
35	2	1.62	26.0	7.6
30	-1	1.66	24.3	7.1
25	-4	1.70	22.7	6.7
20	-7	1.74	21.0	6.2
17	-8	1.77	20.0	5.9
15	-9	1.75	19.3	5.7
10	-12	1.71	17.7	5.2
5	-15	1.60	15.7	4.6
0	-18	1.50	13.8	4.0
-5	-21	1.39	11.8	3.5
-10	-23	1.28	9.9	2.9
-15	-26	1.17	7.9	2.3
-20	-29	1.06	6.0	1.8

RATINGS

NOTE - Cooling capacities are gross and do not include indoor coil blower motor heat deduction. Heating capacities include defrost cycles in the temperature range where they occur.
NOTE HEATING PERFORMANCE outdoor temperature 70% relative humidity. Indoor temperature 70°F (21°).
NOTE - For Temperatures and Capacities not shown in tables, see bulletin — Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HP28-030 - CB31MV-41 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	900	425	29.1	8.5	1.88	.73	.87	.99	27.9	8.2	2.13	.74	.89	1.00	26.8	7.9	2.39	.76	.91	1.00	25.7	7.5	2.69	.78	.93	1.00
	1000	470	29.6	8.7	1.88	.76	.91	1.00	28.4	8.3	2.13	.77	.93	1.00	27.3	8.0	2.40	.79	.95	1.00	26.2	7.7	2.69	.80	.96	1.00
	1125	530	30.2	8.9	1.88	.79	.94	1.00	29.0	8.5	2.13	.80	.96	1.00	27.9	8.2	2.40	.82	.98	1.00	26.8	7.9	2.69	.84	.99	1.00
67°F (19°C)	900	425	31.0	9.1	1.88	.57	.71	.84	29.8	8.7	2.14	.58	.72	.86	28.6	8.4	2.41	.59	.73	.87	27.3	8.0	2.70	.60	.75	.89
	1000	470	31.5	9.2	1.89	.59	.73	.87	30.2	8.9	2.14	.60	.75	.89	28.9	8.5	2.41	.61	.76	.91	27.7	8.1	2.70	.61	.78	.94
	1125	530	32.1	9.4	1.89	.60	.76	.91	30.7	9.0	2.14	.61	.78	.93	29.4	8.6	2.41	.62	.80	.95	28.1	8.2	2.70	.64	.82	.97
71°F (22°C)	900	425	33.3	9.8	1.88	.43	.55	.68	31.9	9.3	2.15	.43	.56	.69	30.5	8.9	2.42	.43	.57	.71	29.2	8.6	2.71	.43	.58	.73
	1000	470	33.8	9.9	1.88	.43	.57	.71	32.3	9.5	2.15	.44	.58	.72	30.9	9.1	2.42	.44	.59	.74	29.6	8.7	2.71	.44	.60	.76
	1125	530	34.3	10.1	1.89	.44	.59	.74	32.8	9.6	2.15	.44	.60	.76	31.4	9.2	2.42	.45	.61	.77	29.9	8.8	2.72	.45	.63	.79

HP28-030 - C33-38A/B - C33-44C - C33-48B/C COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	800	380	29.3	8.6	1.87	.71	.84	.95	28.3	8.3	2.11	.72	.85	.97	27.2	8.0	2.38	.73	.86	.99	26.1	7.6	2.67	.74	.88	1.00
	1000	470	30.6	9.0	1.87	.75	.90	1.00	29.4	8.6	2.12	.77	.92	1.00	28.2	8.3	2.39	.78	.94	1.00	27.1	7.9	2.68	.80	.95	1.00
	1200	565	31.5	9.2	1.88	.80	.96	1.00	30.3	8.9	2.13	.81	.97	1.00	29.2	8.6	2.39	.83	.99	1.00	28.0	8.2	2.68	.85	1.00	1.00
67°F (19°C)	800	380	31.4	9.2	1.88	.56	.68	.80	30.2	8.9	2.13	.56	.69	.82	29.0	8.5	2.39	.57	.70	.83	27.8	8.1	2.68	.58	.72	.85
	1000	470	32.6	9.6	1.88	.58	.73	.87	31.3	9.2	2.13	.59	.74	.89	30.0	8.8	2.40	.60	.76	.90	28.7	8.4	2.69	.61	.77	.92
	1200	565	33.4	9.8	1.88	.61	.78	.93	32.0	9.4	2.14	.62	.79	.94	30.7	9.0	2.40	.63	.81	.96	29.3	8.6	2.69	.64	.83	.98
71°F (22°C)	800	380	33.7	9.9	1.88	.42	.54	.65	32.3	9.5	2.14	.42	.54	.66	31.1	9.1	2.40	.42	.55	.67	29.8	8.7	2.70	.43	.56	.69
	1000	470	34.9	10.2	1.88	.43	.56	.70	33.4	9.8	2.14	.43	.57	.72	32.0	9.4	2.41	.44	.58	.73	30.6	9.0	2.70	.44	.59	.75
	1200	565	35.7	10.5	1.88	.44	.60	.75	34.2	10.0	2.15	.44	.61	.77	32.7	9.6	2.41	.45	.62	.79	31.3	9.2	2.71	.45	.63	.81

HP28-030 - CB31MV-41 HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
900	425	35.4	10.4	2.20	28.7	8.4	2.01	22.1	6.5	1.79	15.2	4.5	1.70	7.6	2.2	1.25
1000	470	35.6	10.4	2.14	28.9	8.5	1.95	22.3	6.5	1.73	15.4	4.5	1.64	7.8	2.3	1.19
1125	530	35.9	10.5	2.08	29.2	8.6	1.89	22.6	6.6	1.67	15.7	4.6	1.58	8.1	2.4	1.13

HP28-030 - C33-38A/B - C33-44C - C33-48B/C HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
800	380	35.4	10.4	2.60	28.3	8.3	2.40	20.9	6.1	2.21	15.4	4.5	1.94	7.5	2.2	1.47
1000	470	35.9	10.5	2.41	28.8	8.4	2.21	21.4	6.3	2.02	15.9	4.7	1.75	8.0	2.3	1.28
1200	565	36.3	10.6	2.31	29.2	8.6	2.11	21.8	6.4	1.91	16.3	4.8	1.64	8.4	2.5	1.17

HP28-030 - CB31MV-41 HEATING PERFORMANCE at 1000 cfm (470 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.14	35.6	10.4
60	16	2.10	33.9	9.9
55	13	2.07	32.3	9.5
50	10	2.03	30.6	9.0
47	8	2.01	29.6	8.7
45	7	1.95	28.9	8.5
40	4	1.80	27.3	8.0
35	2	1.65	25.6	7.5
30	-1	1.69	23.9	7.0
25	-4	1.73	22.3	6.5
20	-7	1.77	20.6	6.0
17	-8	1.80	19.6	5.7
15	-9	1.78	18.9	5.5
10	-12	1.75	17.3	5.1
5	-15	1.64	15.4	4.5
0	-18	1.53	13.5	4.0
-5	-21	1.41	11.6	3.4
-10	-23	1.30	9.7	2.8
-15	-26	1.19	7.8	2.3
-20	-29	1.08	5.9	1.7

HP28-030 - C33-38A/B - C33-44C - C33-48B/C HEATING PERFORMANCE at 1000 cfm (470 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.41	35.9	10.5
60	16	2.36	34.2	10.0
55	13	2.31	32.6	9.6
50	10	2.26	31.0	9.1
47	8	2.23	30.0	8.8
45	7	2.21	28.8	8.4
40	4	2.17	25.9	7.6
35	2	2.12	23.0	6.7
30	-1	2.07	22.2	6.5
25	-4	2.02	21.4	6.3
20	-7	1.97	20.7	6.1
17	-8	1.94	20.2	5.9
15	-9	1.92	19.5	5.7
10	-12	1.87	17.9	5.2
5	-15	1.75	15.9	4.7
0	-18	1.63	14.0	4.1
-5	-21	1.51	12.0	3.5
-10	-23	1.40	10.0	2.9
-15	-26	1.28	8.0	2.3
-20	-29	1.16	6.1	1.8

RATINGS

NOTE - Cooling capacities are gross and do not include indoor coil blower motor heat deduction. Heating capacities include defrost cycles in the temperature range where they occur.
NOTE HEATING PERFORMANCE outdoor temperature 70% relative humidity. Indoor temperature 70°F (21°).
NOTE - For Temperatures and Capacities not shown in tables, see bulletin — Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HP28-030 - C33-50/60C COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	800	380	29.5	8.6	1.86	.71	.83	.96	28.4	8.3	2.10	.72	.85	.97	27.3	8.0	2.37	.73	.86	.99	26.1	7.6	2.66	.74	.89	1.00
	1000	470	30.7	9.0	1.87	.75	.90	1.00	29.5	8.6	2.11	.77	.92	1.00	28.3	8.3	2.38	.78	.94	1.00	27.2	8.0	2.67	.80	.96	1.00
	1200	565	31.7	9.3	1.87	.80	.96	1.00	30.5	8.9	2.12	.82	.97	1.00	29.3	8.6	2.38	.83	.99	1.00	28.1	8.2	2.67	.85	1.00	1.00
67°F (19°C)	800	380	31.6	9.3	1.87	.56	.68	.80	30.4	8.9	2.12	.56	.69	.82	29.2	8.6	2.38	.57	.70	.83	27.9	8.2	2.67	.58	.71	.85
	1000	470	32.8	9.6	1.87	.58	.73	.87	31.4	9.2	2.12	.59	.74	.88	30.1	8.8	2.39	.60	.76	.90	28.8	8.4	2.68	.61	.77	.92
	1200	565	33.7	9.9	1.87	.61	.77	.93	32.2	9.4	2.13	.62	.79	.95	30.9	9.1	2.39	.63	.81	.96	29.5	8.6	2.68	.64	.83	.98
71°F (22°C)	800	380	33.9	9.9	1.87	.42	.54	.65	32.6	9.6	2.12	.42	.54	.66	31.2	9.1	2.39	.43	.55	.67	29.9	8.8	2.68	.43	.56	.69
	1000	470	35.2	10.3	1.87	.43	.57	.70	33.6	9.8	2.13	.43	.57	.72	32.2	9.4	2.40	.44	.58	.73	30.8	9.0	2.69	.44	.59	.75
	1200	565	36.0	10.6	1.87	.44	.60	.75	34.4	10.1	2.13	.44	.61	.77	32.9	9.6	2.41	.45	.62	.78	31.4	9.2	2.70	.46	.63	.81

HP28-030 - CH33-44/48B-F COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	800	380	29.3	8.6	1.88	.71	.84	.96	28.2	8.3	2.13	.72	.85	.97	27.1	7.9	2.39	.72	.86	.99	26.0	7.6	2.69	.74	.88	1.00
	1000	470	30.5	8.9	1.89	.75	.90	1.00	29.3	8.6	2.14	.76	.92	1.00	28.2	8.3	2.40	.78	.94	1.00	27.0	7.9	2.70	.79	.96	1.00
	1200	565	31.5	9.2	1.89	.80	.96	1.00	30.3	8.9	2.14	.82	.97	1.00	29.1	8.5	2.41	.83	.99	1.00	28.0	8.2	2.70	.85	1.00	1.00
67°F (19°C)	800	380	31.4	9.2	1.89	.56	.68	.80	30.2	8.9	2.14	.56	.69	.81	29.0	8.5	2.41	.57	.70	.83	27.8	8.1	2.70	.58	.71	.85
	1000	470	32.6	9.6	1.89	.58	.73	.87	31.2	9.1	2.15	.59	.74	.88	29.9	8.8	2.42	.60	.76	.90	28.6	8.4	2.71	.61	.77	.92
	1200	565	33.5	9.8	1.89	.61	.77	.93	32.0	9.4	2.15	.62	.79	.95	30.7	9.0	2.42	.63	.81	.96	29.3	8.6	2.71	.64	.83	.98
71°F (22°C)	800	380	33.7	9.9	1.89	.42	.54	.65	32.3	9.5	2.15	.42	.54	.66	31.0	9.1	2.42	.43	.55	.67	29.7	8.7	2.71	.43	.56	.69
	1000	470	35.0	10.3	1.89	.43	.57	.70	33.4	9.8	2.16	.43	.57	.72	32.0	9.4	2.43	.44	.58	.73	30.6	9.0	2.72	.44	.59	.75
	1200	565	35.8	10.5	1.89	.44	.59	.75	34.2	10.0	2.16	.44	.61	.77	32.7	9.6	2.43	.45	.62	.79	31.2	9.1	2.73	.46	.63	.81

HP28-030 - C33-50/60C HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
800	380	35.4	10.4	2.60	28.3	8.3	2.40	20.9	6.1	2.21	15.4	4.5	1.94	7.5	2.2	1.47
1000	470	35.9	10.5	2.41	28.8	8.4	2.21	21.4	6.3	2.02	15.9	4.7	1.75	8.0	2.3	1.28
1200	565	36.3	10.6	2.31	29.2	8.6	2.11	21.8	6.4	1.91	16.3	4.8	1.64	8.4	2.5	1.17

HP28-030 - CH33-44/48B-F HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
800	380	35.2	10.3	2.57	28.6	8.4	2.32	22.1	6.5	2.05	15.3	4.5	1.93	7.5	2.2	1.46
1000	470	35.7	10.5	2.39	29.1	8.5	2.14	22.6	6.6	1.87	15.8	4.6	1.75	8.0	2.3	1.28
1200	565	36.2	10.6	2.28	29.6	8.7	2.04	23.1	6.8	1.76	16.3	4.8	1.64	8.5	2.5	1.17

HP28-030 - C33-50/60C HEATING PERFORMANCE at 1000 cfm (470 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.41	35.9	10.5
60	16	2.36	34.2	10.0
55	13	2.31	32.6	9.6
50	10	2.26	31.0	9.1
47	8	2.23	30.0	8.8
45	7	2.21	28.8	8.4
40	4	2.17	25.9	7.6
35	2	2.12	23.0	6.7
30	-1	2.07	22.2	6.5
25	-4	2.02	21.4	6.3
20	-7	1.97	20.7	6.1
17	-8	1.94	20.2	5.9
15	-9	1.92	19.5	5.7
10	-12	1.87	17.9	5.2
5	-15	1.75	15.9	4.7
0	-18	1.63	14.0	4.1
-5	-21	1.51	12.0	3.5
-10	-23	1.40	10.0	2.9
-15	-26	1.28	8.0	2.3
-20	-29	1.16	6.1	1.8

HP28-030 - CH33-44/48B-F HEATING PERFORMANCE at 1000 cfm (470 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.39	35.7	10.5
60	16	2.34	34.0	10.0
55	13	2.29	32.4	9.5
50	10	2.24	30.8	9.0
47	8	2.22	29.8	8.7
45	7	2.14	29.1	8.5
40	4	1.97	27.5	8.1
35	2	1.79	25.9	7.6
30	-1	1.83	24.2	7.1
25	-4	1.87	22.6	6.6
20	-7	1.91	21.0	6.2
17	-8	1.93	20.0	5.9
15	-9	1.91	19.3	5.7
10	-12	1.87	17.7	5.2
5	-15	1.75	15.8	4.6
0	-18	1.63	13.8	4.0
-5	-21	1.51	11.9	3.5
-10	-23	1.40	9.9	2.9
-15	-26	1.28	8.0	2.3
-20	-29	1.16	6.0	1.8

RATINGS

NOTE - Cooling capacities are gross and do not include indoor coil blower motor heat deduction. Heating capacities include defrost cycles in the temperature range where they occur.
NOTE HEATING PERFORMANCE outdoor temperature 70% relative humidity. Indoor temperature 70°F (21°).
NOTE - For Temperatures and Capacities not shown in tables, see bulletin — Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HP28-030 - CH33-48C-F COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	800	380	29.5	8.6	1.88	.71	.83	.95	28.3	8.3	2.13	.72	.85	.97	27.2	8.0	2.39	.73	.87	.99	26.1	7.6	2.69	.74	.89	1.00
	1000	470	30.7	9.0	1.89	.75	.90	1.00	29.5	8.6	2.14	.77	.92	1.00	28.3	8.3	2.40	.78	.94	1.00	27.1	7.9	2.70	.80	.96	1.00
	1200	565	31.7	9.3	1.89	.80	.96	1.00	30.4	8.9	2.14	.81	.98	1.00	29.3	8.6	2.41	.83	.99	1.00	28.1	8.2	2.70	.85	1.00	1.00
67°F (19°C)	800	380	31.6	9.3	1.89	.56	.68	.80	30.3	8.9	2.14	.56	.69	.82	29.1	8.5	2.41	.57	.70	.83	27.9	8.2	2.70	.58	.71	.85
	1000	470	32.8	9.6	1.89	.58	.73	.87	31.4	9.2	2.15	.59	.74	.88	30.1	8.8	2.42	.60	.75	.90	28.8	8.4	2.71	.61	.77	.92
	1200	565	33.6	9.8	1.89	.61	.78	.93	32.2	9.4	2.15	.62	.79	.94	30.8	9.0	2.42	.63	.81	.96	29.4	8.6	2.71	.64	.83	.98
71°F (22°C)	800	380	33.9	9.9	1.89	.42	.54	.65	32.5	9.5	2.15	.42	.54	.66	31.2	9.1	2.42	.43	.55	.67	29.9	8.8	2.71	.43	.56	.69
	1000	470	35.1	10.3	1.89	.43	.57	.70	33.6	9.8	2.16	.43	.57	.71	32.2	9.4	2.43	.44	.58	.73	30.8	9.0	2.72	.44	.59	.75
	1200	565	36.0	10.6	1.89	.44	.59	.75	34.4	10.1	2.16	.44	.61	.77	32.9	9.6	2.43	.45	.62	.79	31.4	9.2	2.73	.46	.63	.81

HP28-036 - CB30M-41 - CB30U-41/46 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1000	470	33.8	9.9	2.32	.66	.82	.96	32.7	9.6	2.61	.67	.83	.98	31.4	9.2	2.95	.68	.85	.99	30.1	8.8	3.34	.70	.87	1.00
	1200	565	34.9	10.2	2.33	.70	.88	1.00	33.7	9.9	2.62	.72	.90	1.00	32.4	9.5	2.96	.73	.92	1.00	31.1	9.1	3.35	.75	.95	1.00
	1400	660	35.8	10.5	2.34	.75	.94	1.00	34.6	10.1	2.63	.77	.96	1.00	33.3	9.8	2.97	.78	.98	1.00	32.0	9.4	3.35	.81	1.00	1.00
67°F (19°C)	1000	470	36.1	10.6	2.34	.52	.64	.77	34.8	10.2	2.63	.52	.65	.79	33.5	9.8	2.97	.53	.66	.81	32.1	9.4	3.35	.54	.67	.83
	1200	565	37.1	10.9	2.34	.54	.67	.84	35.7	10.5	2.64	.55	.69	.86	34.3	10.1	2.98	.55	.71	.88	32.8	9.6	3.37	.56	.73	.91
	1400	660	37.8	11.1	2.35	.56	.72	.90	36.4	10.7	2.65	.57	.74	.93	35.0	10.3	2.98	.58	.76	.95	33.5	9.8	3.37	.59	.78	.97
71°F (22°C)	1000	470	38.6	11.3	2.36	.39	.50	.61	37.2	10.9	2.65	.39	.51	.62	35.8	10.5	2.98	.39	.51	.63	34.3	10.1	3.38	.40	.52	.65
	1200	565	39.6	11.6	2.36	.40	.52	.65	38.1	11.2	2.66	.40	.53	.67	36.7	10.8	2.99	.40	.54	.68	35.0	10.3	3.39	.41	.55	.70
	1400	660	40.3	11.8	2.37	.41	.55	.69	38.8	11.4	2.66	.41	.56	.71	37.2	10.9	3.00	.41	.57	.73	35.6	10.4	3.39	.42	.58	.75

HP28-030 - CH33-48C-F HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
800	380	35.2	10.3	2.60	28.6	8.4	2.35	22.1	6.5	2.06	15.3	4.5	1.93	7.5	2.2	1.46
1000	470	35.7	10.5	2.41	29.1	8.5	2.16	22.6	6.6	1.87	15.8	4.6	1.75	8.0	2.3	1.28
1200	565	36.1	10.6	2.30	29.5	8.6	2.05	23.0	6.7	1.76	16.2	4.7	1.64	8.4	2.5	1.17

HP28-036 - CB30M-41 - CB30U-41/46 HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1000	470	43.2	12.7	2.62	34.0	10.0	2.41	24.8	7.3	2.18	16.2	4.7	1.97	8.0	2.3	1.47
1200	565	43.8	12.8	2.49	34.6	10.1	2.28	25.4	7.4	2.06	16.8	4.9	1.84	8.6	2.5	1.34
1400	660	44.2	13.0	2.41	35.0	10.3	2.20	25.8	7.6	1.97	17.2	5.0	1.76	9.0	2.6	1.26

HP28-030 - CH33-48C-F HEATING PERFORMANCE at 1000 cfm (470 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.41	35.7	10.5
60	16	2.36	34.0	10.0
55	13	2.31	32.4	9.5
50	10	2.26	30.8	9.0
47	8	2.23	29.8	8.7
45	7	2.16	29.1	8.5
40	4	1.98	27.5	8.1
35	2	1.80	25.9	7.6
30	-1	1.83	24.2	7.1
25	-4	1.87	22.6	6.6
20	-7	1.91	21.0	6.2
17	-8	1.93	20.0	5.9
15	-9	1.91	19.3	5.7
10	-12	1.86	17.7	5.2
5	-15	1.75	15.8	4.6
0	-18	1.63	13.8	4.0
-5	-21	1.51	11.9	3.5
-10	-23	1.39	9.9	2.9
-15	-26	1.28	8.0	2.3
-20	-29	1.16	6.0	1.8

HP28-036 - CB30M-41 - CB30U-41/46 HEATING PERFORMANCE at 1200 cfm (565 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.49	43.8	12.8
60	16	2.44	41.5	12.2
55	13	2.40	39.2	11.5
50	10	2.35	37.0	10.8
47	8	2.32	35.6	10.4
45	7	2.28	34.6	10.1
40	4	2.19	32.1	9.4
35	2	2.09	29.6	8.7
30	-1	2.08	27.5	8.1
25	-4	2.06	25.4	7.4
20	-7	2.04	23.3	6.8
17	-8	2.03	22.0	6.4
15	-9	2.01	21.1	6.2
10	-12	1.96	18.8	5.5
5	-15	1.84	16.8	4.9
0	-18	1.72	14.8	4.3
-5	-21	1.59	12.7	3.7
-10	-23	1.47	10.7	3.1
-15	-26	1.34	8.6	2.5
-20	-29	1.22	6.6	1.9

RATINGS

NOTE - Cooling capacities are gross and do not include indoor coil blower motor heat deduction. Heating capacities include defrost cycles in the temperature range where they occur.
NOTE HEATING PERFORMANCE outdoor temperature 70% relative humidity. Indoor temperature 70°F (21°).
NOTE - For Temperatures and Capacities not shown in tables, see bulletin — Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HP28-036 - CB30M-46 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1000	470	33.8	9.9	2.32	.66	.82	.96	32.7	9.6	2.61	.67	.83	.98	31.4	9.2	2.95	.68	.85	.99	30.1	8.8	3.34	.70	.87	1.00
	1200	565	34.9	10.2	2.33	.70	.88	1.00	33.7	9.9	2.62	.72	.90	1.00	32.4	9.5	2.96	.73	.92	1.00	31.1	9.1	3.35	.75	.95	1.00
	1400	660	35.8	10.5	2.34	.75	.94	1.00	34.6	10.1	2.63	.77	.96	1.00	33.3	9.8	2.97	.78	.98	1.00	32.0	9.4	3.35	.81	1.00	1.00
67°F (19°C)	1000	470	36.1	10.6	2.34	.52	.64	.77	34.8	10.2	2.63	.52	.65	.79	33.5	9.8	2.97	.53	.66	.81	32.1	9.4	3.35	.54	.67	.83
	1200	565	37.1	10.9	2.34	.54	.67	.84	35.7	10.5	2.64	.55	.69	.86	34.3	10.1	2.98	.55	.71	.88	32.8	9.6	3.37	.56	.73	.91
	1400	660	37.8	11.1	2.35	.56	.72	.90	36.4	10.7	2.65	.57	.74	.93	35.0	10.3	2.98	.58	.76	.95	33.5	9.8	3.37	.59	.78	.97
71°F (22°C)	1000	470	38.6	11.3	2.36	.39	.50	.61	37.2	10.9	2.65	.39	.51	.62	35.8	10.5	2.98	.39	.51	.63	34.3	10.1	3.38	.40	.52	.65
	1200	565	39.6	11.6	2.36	.40	.52	.65	38.1	11.2	2.66	.40	.53	.67	36.7	10.8	2.99	.40	.54	.68	35.0	10.3	3.39	.41	.55	.70
	1400	660	40.3	11.8	2.37	.41	.55	.69	38.8	11.4	2.66	.41	.56	.71	37.2	10.9	3.00	.41	.57	.73	35.6	10.4	3.39	.42	.58	.75

HP28-036 - CB31MV-41 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1000	470	33.8	9.9	2.32	.66	.81	.96	32.7	9.6	2.61	.67	.83	.98	31.4	9.2	2.95	.68	.85	.99	30.1	8.8	3.34	.69	.87	1.00
	1225	580	35.1	10.3	2.33	.70	.89	1.00	33.8	9.9	2.62	.72	.91	1.00	32.5	9.5	2.96	.74	.93	1.00	31.2	9.1	3.35	.76	.95	1.00
	1400	660	35.8	10.5	2.34	.75	.94	1.00	34.6	10.1	2.63	.77	.96	1.00	33.3	9.8	2.97	.78	.98	1.00	32.0	9.4	3.35	.81	1.00	1.00
67°F (19°C)	1000	470	36.1	10.6	2.34	.52	.64	.77	34.8	10.2	2.63	.52	.65	.79	33.5	9.8	2.97	.53	.66	.81	32.1	9.4	3.35	.54	.67	.83
	1225	580	37.2	10.9	2.35	.54	.68	.85	35.8	10.5	2.64	.55	.69	.87	34.4	10.1	2.98	.56	.71	.89	32.9	9.6	3.37	.57	.73	.92
	1400	660	37.8	11.1	2.35	.56	.72	.90	36.4	10.7	2.65	.57	.74	.93	35.0	10.3	2.98	.58	.76	.95	33.5	9.8	3.37	.59	.78	.97
71°F (22°C)	1000	470	38.6	11.3	2.36	.39	.50	.61	37.2	10.9	2.65	.39	.51	.62	35.8	10.5	2.98	.39	.51	.63	34.3	10.1	3.38	.40	.52	.65
	1225	580	39.7	11.6	2.36	.40	.53	.66	38.2	11.2	2.66	.40	.54	.67	36.7	10.8	2.99	.41	.55	.68	35.1	10.3	3.39	.41	.56	.70
	1400	660	40.3	11.8	2.37	.41	.55	.69	38.8	11.4	2.66	.41	.56	.71	37.2	10.9	3.00	.41	.57	.73	35.6	10.4	3.39	.42	.58	.75

HP28-036 - CB30M-46 HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1000	470	43.2	12.7	2.60	34.0	10.0	2.40	24.8	7.3	2.19	16.2	4.7	1.98	8.0	2.3	1.48
1200	565	43.8	12.8	2.48	34.6	10.1	2.28	25.4	7.4	2.07	16.8	4.9	1.85	8.6	2.5	1.35
1400	660	44.2	13.0	2.39	35.0	10.3	2.19	25.8	7.6	1.98	17.2	5.0	1.77	9.0	2.6	1.27

HP28-036 - CB31MV-41 HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1000	470	43.0	12.6	2.59	33.7	9.9	2.40	24.3	7.1	2.20	15.7	4.6	1.99	7.8	2.3	1.49
1225	580	43.7	12.8	2.45	34.4	10.1	2.26	25.0	7.3	2.06	16.4	4.8	1.85	8.5	2.5	1.35
1400	660	44.3	13.0	2.38	35.0	10.3	2.19	25.6	7.5	1.99	17.0	5.0	1.78	9.1	2.7	1.28

HP28-036 - CB30M-46 HEATING PERFORMANCE at 1200 cfm (565 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.48	43.8	12.8
60	16	2.43	41.5	12.2
55	13	2.39	39.2	11.5
50	10	2.34	37.0	10.8
47	8	2.31	35.6	10.4
45	7	2.28	34.6	10.1
40	4	2.19	32.1	9.4
35	2	2.10	29.6	8.7
30	-1	2.08	27.5	8.1
25	-4	2.07	25.4	7.4
20	-7	2.05	23.3	6.8
17	-8	2.04	22.0	6.4
15	-9	2.02	21.1	6.2
10	-12	1.98	18.8	5.5
5	-15	1.85	16.8	4.9
0	-18	1.73	14.8	4.3
-5	-21	1.60	12.7	3.7
-10	-23	1.48	10.7	3.1
-15	-26	1.35	8.6	2.5
-20	-29	1.23	6.6	1.9

HP28-036 - CB31MV-41 HEATING PERFORMANCE at 1225 cfm (580 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.45	43.7	12.8
60	16	2.41	41.4	12.1
55	13	2.36	39.1	11.5
50	10	2.32	36.8	10.8
47	8	2.29	35.4	10.4
45	7	2.26	34.4	10.1
40	4	2.17	31.8	9.3
35	2	2.09	29.3	8.6
30	-1	2.07	27.1	7.9
25	-4	2.06	25.0	7.3
20	-7	2.04	22.9	6.7
17	-8	2.04	21.6	6.3
15	-9	2.02	20.7	6.1
10	-12	1.98	18.4	5.4
5	-15	1.85	16.4	4.8
0	-18	1.72	14.4	4.2
-5	-21	1.60	12.4	3.6
-10	-23	1.47	10.4	3.0
-15	-26	1.35	8.5	2.5
-20	-29	1.22	6.5	1.9

RATINGS

NOTE - Cooling capacities are gross and do not include indoor coil blower motor heat deduction. Heating capacities include defrost cycles in the temperature range where they occur.
NOTE HEATING PERFORMANCE outdoor temperature 70% relative humidity. Indoor temperature 70°F (21°).
NOTE - For Temperatures and Capacities not shown in tables, see bulletin — Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HP28-036 - CB30M-51 - CB30U-51 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1000	470	35.1	10.3	2.33	.66	.81	.96	33.8	9.9	2.63	.67	.83	.98	32.5	9.5	2.96	.68	.85	1.00	31.1	9.1	3.35	.69	.87	1.00
	1200	565	36.3	10.6	2.34	.70	.88	1.00	35.0	10.3	2.64	.71	.90	1.00	33.5	9.8	2.97	.73	.93	1.00	32.1	9.4	3.36	.75	.95	1.00
	1400	660	37.3	10.9	2.35	.75	.94	1.00	35.9	10.5	2.64	.77	.97	1.00	34.5	10.1	2.98	.79	.99	1.00	33.2	9.7	3.37	.81	1.00	1.00
67°F (19°C)	1000	470	37.5	11.0	2.35	.52	.63	.77	36.2	10.6	2.64	.52	.64	.79	34.7	10.2	2.98	.53	.65	.81	33.2	9.7	3.37	.53	.67	.83
	1200	565	38.7	11.3	2.36	.54	.67	.84	37.2	10.9	2.65	.55	.68	.86	35.7	10.5	2.99	.55	.70	.88	34.1	10.0	3.38	.56	.72	.91
	1400	660	39.5	11.6	2.36	.56	.72	.91	38.0	11.1	2.66	.57	.74	.93	36.4	10.7	2.99	.58	.76	.95	34.8	10.2	3.38	.59	.78	.98
71°F (22°C)	1000	470	40.2	11.8	2.37	.39	.50	.61	38.7	11.3	2.66	.39	.51	.62	37.2	10.9	3.00	.39	.51	.63	35.6	10.4	3.39	.39	.52	.64
	1200	565	41.3	12.1	2.37	.40	.52	.65	39.8	11.7	2.67	.40	.53	.66	38.1	11.2	3.01	.40	.54	.68	36.5	10.7	3.40	.41	.55	.69
	1400	660	42.1	12.3	2.38	.41	.55	.69	40.5	11.9	2.68	.41	.56	.71	38.8	11.4	3.02	.41	.57	.73	37.1	10.9	3.41	.42	.58	.75

HP28-036 - CB31MV-51 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1205	570	35.8	10.5	2.34	.70	.88	1.00	34.5	10.1	2.64	.71	.90	1.00	33.1	9.7	2.97	.73	.93	1.00	31.7	9.3	3.36	.75	.95	1.00
	1425	675	36.9	10.8	2.35	.76	.95	1.00	35.6	10.4	2.64	.77	.97	1.00	34.2	10.0	2.98	.79	.99	1.00	32.9	9.6	3.37	.82	1.00	1.00
67°F (19°C)	1205	570	38.2	11.2	2.36	.54	.67	.84	36.7	10.8	2.65	.55	.69	.86	35.2	10.3	2.99	.55	.70	.89	33.7	9.9	3.38	.56	.72	.91
	1425	675	39.0	11.4	2.36	.56	.73	.91	37.5	11.0	2.66	.57	.75	.94	36.0	10.6	3.00	.58	.77	.96	34.4	10.1	3.39	.59	.79	.98
71°F (22°C)	1205	570	40.8	12.0	2.37	.40	.52	.65	39.2	11.5	2.67	.40	.53	.66	37.7	11.0	3.01	.40	.54	.68	36.0	10.6	3.40	.41	.55	.70
	1425	675	41.6	12.2	2.38	.41	.55	.70	40.0	11.7	2.68	.41	.56	.72	38.4	11.3	3.02	.41	.57	.74	36.7	10.8	3.41	.42	.58	.76

HP28-036 - CB30M-51 - CB30U-51 HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1000	470	43.4	12.7	2.52	34.2	10.0	2.37	25.0	7.3	2.21	16.4	4.8	2.03	8.2	2.4	1.50
1200	565	43.8	12.8	2.39	34.6	10.1	2.24	25.4	7.4	2.08	16.8	4.9	1.90	8.6	2.5	1.37
1400	660	44.2	13.0	2.30	35.0	10.3	2.15	25.8	7.6	1.99	17.2	5.0	1.81	9.0	2.6	1.28

HP28-036 - CB31MV-51 - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1205	570	43.7	12.8	2.45	34.4	10.1	2.26	25.0	7.3	2.06	16.4	4.8	1.85	8.5	2.5	1.35
1425	675	44.3	13.0	2.38	35.0	10.3	2.19	25.6	7.5	1.99	17.0	5.0	1.78	9.1	2.7	1.28

HP28-036 - CB30M-51 - CB30U-51 HEATING PERFORMANCE at 1200 cfm (565 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.39	43.8	12.8
60	16	2.35	41.5	12.2
55	13	2.32	39.2	11.5
50	10	2.29	37.0	10.8
47	8	2.27	35.6	10.4
45	7	2.24	34.6	10.1
40	4	2.17	32.1	9.4
35	2	2.10	29.6	8.7
30	-1	2.09	27.5	8.1
25	-4	2.08	25.4	7.4
20	-7	2.08	23.3	6.8
17	-8	2.07	22.0	6.4
15	-9	2.06	21.1	6.2
10	-12	2.03	18.8	5.5
5	-15	1.90	16.8	4.9
0	-18	1.76	14.8	4.3
-5	-21	1.63	12.7	3.7
-10	-23	1.50	10.7	3.1
-15	-26	1.37	8.6	2.5
-20	-29	1.24	6.6	1.9

HP28-036 - CB31MV-51 - HEATING PERFORMANCE at 1205 cfm (570 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.42	43.4	12.7
60	16	2.38	41.1	12.0
55	13	2.34	38.8	11.4
50	10	2.31	36.6	10.7
47	8	2.28	35.2	10.3
45	7	2.25	34.2	10.0
40	4	2.17	31.7	9.3
35	2	2.09	29.2	8.6
30	-1	2.08	27.1	7.9
25	-4	2.07	25.0	7.3
20	-7	2.06	22.9	6.7
17	-8	2.05	21.6	6.3
15	-9	2.04	20.7	6.1
10	-12	2.00	18.4	5.4
5	-15	1.87	16.4	4.8
0	-18	1.75	14.4	4.2
-5	-21	1.62	12.5	3.7
-10	-23	1.49	10.5	3.1
-15	-26	1.36	8.5	2.5
-20	-29	1.23	6.5	1.9

RATINGS

NOTE - Cooling capacities are gross and do not include indoor coil blower motor heat deduction. Heating capacities include defrost cycles in the temperature range where they occur.
NOTE HEATING PERFORMANCE outdoor temperature 70% relative humidity. Indoor temperature 70°F (21°).
NOTE - For Temperatures and Capacities not shown in tables, see bulletin — Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HP28-036 - C33-50/60C - C33-60D COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1000	470	35.4	10.4	2.33	.65	.81	.96	34.2	10.0	2.63	.66	.82	.97	32.8	9.6	2.96	.67	.84	.99	31.4	9.2	3.35	.69	.87	1.00
	1200	565	36.6	10.7	2.34	.69	.87	1.00	35.3	10.3	2.64	.71	.89	1.00	33.9	9.9	2.97	.73	.91	1.00	32.4	9.5	3.36	.74	.94	1.00
	1400	660	37.5	11.0	2.35	.74	.93	1.00	36.2	10.6	2.64	.76	.95	1.00	34.8	10.2	2.98	.77	.97	1.00	33.4	9.8	3.37	.80	.99	1.00
67°F (19°C)	1000	470	37.9	11.1	2.35	.51	.63	.76	36.5	10.7	2.64	.52	.64	.78	35.1	10.3	2.98	.53	.65	.80	33.6	9.8	3.37	.53	.66	.82
	1200	565	39.0	11.4	2.35	.53	.67	.83	37.5	11.0	2.65	.54	.68	.85	36.0	10.6	2.99	.55	.70	.87	34.5	10.1	3.38	.56	.71	.90
	1400	660	39.8	11.7	2.36	.56	.71	.89	38.3	11.2	2.66	.56	.73	.92	36.8	10.8	2.99	.57	.75	.94	35.1	10.3	3.38	.58	.77	.96
71°F (22°C)	1000	470	40.5	11.9	2.37	.39	.50	.61	39.1	11.5	2.66	.39	.50	.61	37.6	11.0	3.00	.39	.51	.63	36.0	10.6	3.39	.40	.52	.64
	1200	565	41.6	12.2	2.37	.40	.52	.64	40.1	11.8	2.67	.40	.53	.66	38.5	11.3	3.01	.40	.53	.67	36.8	10.8	3.40	.40	.54	.69
	1400	660	42.5	12.5	2.38	.41	.54	.68	40.9	12.0	2.67	.41	.55	.70	39.2	11.5	3.01	.41	.56	.72	37.5	11.0	3.41	.41	.57	.74

HP28-036 - C33-62D COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1000	470	35.4	10.4	2.34	.71	.85	.97	34.2	10.0	2.63	.72	.86	.98	32.8	9.6	2.96	.73	.88	.99	31.5	9.2	3.35	.75	.89	1.00
	1200	565	36.5	10.7	2.34	.75	.90	1.00	35.3	10.3	2.63	.76	.91	1.00	33.9	9.9	2.97	.78	.93	1.00	32.5	9.5	3.36	.80	.95	1.00
	1400	660	37.5	11.0	2.35	.79	.95	1.00	36.2	10.6	2.64	.80	.96	1.00	34.8	10.2	2.98	.82	.98	1.00	33.4	9.8	3.37	.84	.99	1.00
67°F (19°C)	1000	470	37.8	11.1	2.35	.56	.69	.81	36.5	10.7	2.64	.56	.70	.83	35.1	10.3	2.98	.57	.71	.84	33.6	9.8	3.37	.58	.72	.86
	1200	565	38.9	11.4	2.36	.58	.73	.87	37.5	11.0	2.65	.59	.74	.88	36.0	10.6	2.99	.60	.75	.90	34.5	10.1	3.38	.61	.77	.92
	1400	660	39.7	11.6	2.36	.60	.77	.92	38.2	11.2	2.66	.62	.78	.93	36.7	10.8	3.00	.62	.80	.95	35.1	10.3	3.39	.64	.82	.97
71°F (22°C)	1000	470	40.4	11.8	2.37	.43	.54	.66	39.0	11.4	2.66	.43	.55	.67	37.5	11.0	3.00	.43	.55	.68	36.0	10.6	3.39	.43	.56	.69
	1200	565	41.5	12.2	2.37	.43	.57	.70	40.1	11.8	2.67	.44	.57	.71	38.5	11.3	3.01	.44	.58	.73	36.8	10.8	3.40	.44	.59	.74
	1400	660	42.3	12.4	2.38	.44	.59	.74	40.8	12.0	2.68	.44	.60	.76	39.1	11.5	3.02	.45	.61	.77	37.4	11.0	3.41	.45	.62	.79

HP28-036 - C33-50/60C - C33-60D HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1000	470	43.0	12.6	2.83	33.9	9.9	2.58	24.6	7.2	2.33	16.4	4.8	2.05	8.1	2.4	1.54
1200	565	43.6	12.8	2.69	34.5	10.1	2.44	25.2	7.4	2.18	17.0	5.0	1.90	8.7	2.5	1.40
1400	660	44.1	12.9	2.59	35.0	10.3	2.34	25.7	7.5	2.08	17.5	5.1	1.80	9.2	2.7	1.30

HP28-036 - C33-62D HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1000	470	43.2	12.7	2.80	34.1	10.0	2.57	24.8	7.3	2.33	16.6	4.9	2.06	8.2	2.4	1.54
1200	565	43.8	12.8	2.66	34.7	10.2	2.42	25.4	7.4	2.18	17.2	5.0	1.91	8.8	2.6	1.40
1400	660	44.3	13.0	2.56	35.2	10.3	2.33	25.9	7.6	2.09	17.7	5.2	1.82	9.3	2.7	1.30

HP28-036 - C33-50/60C - C33-60D HEATING PERFORMANCE at 1200 cfm (565 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.69	43.6	12.8
60	16	2.63	41.4	12.1
55	13	2.57	39.2	11.5
50	10	2.51	36.9	10.8
47	8	2.47	35.6	10.4
45	7	2.44	34.5	10.1
40	4	2.36	31.8	9.3
35	2	2.27	29.0	8.5
30	-1	2.23	27.1	7.9
25	-4	2.18	25.2	7.4
20	-7	2.14	23.3	6.8
17	-8	2.12	22.2	6.5
15	-9	2.09	21.3	6.2
10	-12	2.03	19.1	5.6
5	-15	1.90	17.0	5.0
0	-18	1.78	14.9	4.4
-5	-21	1.65	12.9	3.8
-10	-23	1.52	10.8	3.2
-15	-26	1.40	8.7	2.5
-20	-29	1.27	6.7	2.0

HP28-036 - C33-62D HEATING PERFORMANCE at 1200 cfm (565 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.66	43.8	12.8
60	16	2.60	41.6	12.2
55	13	2.54	39.4	11.5
50	10	2.49	37.1	10.9
47	8	2.45	35.8	10.5
45	7	2.42	34.7	10.2
40	4	2.34	32.0	9.4
35	2	2.26	29.2	8.6
30	-1	2.22	27.3	8.0
25	-4	2.18	25.4	7.4
20	-7	2.14	23.5	6.9
17	-8	2.12	22.4	6.6
15	-9	2.09	21.5	6.3
10	-12	2.04	19.3	5.7
5	-15	1.91	17.2	5.0
0	-18	1.78	15.1	4.4
-5	-21	1.66	13.0	3.8
-10	-23	1.53	10.9	3.2
-15	-26	1.40	8.8	2.6
-20	-29	1.27	6.7	2.0

RATINGS

NOTE - Cooling capacities are gross and do not include indoor coil blower motor heat deduction. Heating capacities include defrost cycles in the temperature range where they occur.
NOTE HEATING PERFORMANCE outdoor temperature 70% relative humidity. Indoor temperature 70°F (21°).
NOTE - For Temperatures and Capacities not shown in tables, see bulletin — Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HP28-036 - CH33-44/48B-F COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1000	470	35.2	10.3	2.33	.66	.81	.95	34.0	10.0	2.62	.66	.82	.97	32.7	9.6	2.96	.67	.84	.99	31.3	9.2	3.34	.69	.87	1.00
	1200	565	36.3	10.6	2.34	.69	.87	1.00	35.1	10.3	2.63	.71	.89	1.00	33.7	9.9	2.97	.72	.91	1.00	32.3	9.5	3.36	.74	.94	1.00
	1400	660	37.3	10.9	2.34	.74	.93	1.00	36.0	10.6	2.64	.75	.95	1.00	34.6	10.1	2.97	.77	.97	1.00	33.2	9.7	3.36	.80	.99	1.00
67°F (19°C)	1000	470	37.6	11.0	2.35	.52	.63	.77	36.3	10.6	2.64	.52	.64	.78	34.9	10.2	2.98	.53	.65	.80	33.4	9.8	3.36	.53	.66	.82
	1200	565	38.7	11.3	2.35	.53	.67	.83	37.3	10.9	2.65	.54	.68	.85	35.8	10.5	2.99	.55	.70	.87	34.3	10.1	3.38	.56	.71	.90
	1400	660	39.5	11.6	2.36	.56	.71	.89	38.0	11.1	2.65	.56	.73	.92	36.5	10.7	2.99	.57	.75	.94	34.9	10.2	3.38	.58	.77	.96
71°F (22°C)	1000	470	40.2	11.8	2.36	.39	.50	.61	38.8	11.4	2.66	.39	.50	.62	37.3	10.9	2.99	.39	.51	.63	35.8	10.5	3.39	.40	.52	.64
	1200	565	41.3	12.1	2.37	.40	.52	.65	39.8	11.7	2.66	.40	.53	.66	38.2	11.2	3.00	.40	.54	.67	36.6	10.7	3.40	.40	.54	.69
	1400	660	42.1	12.3	2.37	.40	.54	.68	40.6	11.9	2.67	.41	.55	.70	38.9	11.4	3.01	.41	.56	.72	37.2	10.9	3.40	.41	.57	.74

HP28-036 - CH33-48C-F COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1000	470	35.2	10.3	2.35	.66	.81	.95	34.0	10.0	2.64	.66	.82	.97	32.7	9.6	2.98	.67	.84	.99	31.3	9.2	3.36	.69	.87	1.00
	1200	565	36.4	10.7	2.35	.69	.87	1.00	35.1	10.3	2.65	.71	.89	1.00	33.7	9.9	2.99	.73	.91	1.00	32.3	9.5	3.38	.74	.94	1.00
	1400	660	37.3	10.9	2.36	.74	.93	1.00	36.0	10.6	2.65	.76	.95	1.00	34.6	10.1	2.99	.78	.97	1.00	33.3	9.8	3.38	.80	.99	1.00
67°F (19°C)	1000	470	37.6	11.0	2.36	.52	.63	.76	36.3	10.6	2.66	.52	.64	.78	34.9	10.2	2.99	.53	.65	.80	33.4	9.8	3.38	.53	.66	.82
	1200	565	38.7	11.3	2.37	.54	.67	.83	37.3	10.9	2.66	.54	.68	.85	35.8	10.5	3.00	.55	.70	.87	34.3	10.1	3.40	.56	.71	.90
	1400	660	39.5	11.6	2.37	.56	.71	.89	38.1	11.2	2.67	.57	.73	.91	36.5	10.7	3.01	.57	.75	.94	34.9	10.2	3.40	.58	.77	.96
71°F (22°C)	1000	470	40.2	11.8	2.38	.39	.50	.61	38.8	11.4	2.67	.39	.50	.62	37.4	11.0	3.01	.39	.51	.63	35.8	10.5	3.41	.40	.52	.64
	1200	565	41.3	12.1	2.38	.40	.52	.65	39.9	11.7	2.68	.40	.53	.66	38.3	11.2	3.02	.40	.54	.67	36.6	10.7	3.42	.40	.54	.68
	1400	660	42.2	12.4	2.39	.40	.54	.68	40.6	11.9	2.69	.41	.55	.70	39.0	11.4	3.03	.41	.56	.72	37.3	10.9	3.42	.41	.57	.74

HP28-036 - CH33-44/48B-F HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1000	470	42.8	12.5	2.75	33.8	9.9	2.53	24.7	7.2	2.29	16.2	4.7	2.06	8.0	2.3	1.54
1200	565	43.4	12.7	2.60	34.4	10.1	2.38	25.3	7.4	2.14	16.8	4.9	1.91	8.6	2.5	1.40
1400	660	43.9	12.9	2.50	34.9	10.2	2.28	25.8	7.6	2.04	17.3	5.1	1.81	9.1	2.7	1.30

HP28-036 - CH33-48C-F HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1000	470	42.7	12.5	2.75	33.8	9.9	2.53	24.8	7.3	2.29	16.4	4.8	2.06	8.1	2.4	1.55
1200	565	43.3	12.7	2.60	34.4	10.1	2.38	25.4	7.4	2.14	17.0	5.0	1.91	8.7	2.5	1.40
1400	660	43.8	12.8	2.51	34.9	10.2	2.29	25.9	7.6	2.05	17.5	5.1	1.82	9.2	2.7	1.30

HP28-036 - CH33-44/48B-F HEATING PERFORMANCE at 1200 cfm (565 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.60	43.4	12.7
60	16	2.55	41.2	12.1
55	13	2.50	39.0	11.4
50	10	2.45	36.7	10.8
47	8	2.42	35.4	10.4
45	7	2.38	34.4	10.1
40	4	2.28	31.9	9.3
35	2	2.18	29.4	8.6
30	-1	2.16	27.4	8.0
25	-4	2.14	25.3	7.4
20	-7	2.13	23.2	6.8
17	-8	2.11	22.0	6.4
15	-9	2.09	21.1	6.2
10	-12	2.04	18.9	5.5
5	-15	1.91	16.8	4.9
0	-18	1.78	14.8	4.3
-5	-21	1.66	12.7	3.7
-10	-23	1.53	10.7	3.1
-15	-26	1.40	8.6	2.5
-20	-29	1.27	6.6	1.9

HP28-036 - CH33-48C-F HEATING PERFORMANCE at 1200 cfm (565 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.60	43.3	12.7
60	16	2.55	41.1	12.0
55	13	2.50	38.9	11.4
50	10	2.45	36.7	10.8
47	8	2.42	35.4	10.4
45	7	2.38	34.4	10.1
40	4	2.28	31.9	9.3
35	2	2.18	29.4	8.6
30	-1	2.16	27.4	8.0
25	-4	2.14	25.4	7.4
20	-7	2.13	23.4	6.9
17	-8	2.11	22.2	6.5
15	-9	2.09	21.3	6.2
10	-12	2.04	19.1	5.6
5	-15	1.91	17.0	5.0
0	-18	1.78	15.0	4.4
-5	-21	1.66	12.9	3.8
-10	-23	1.53	10.8	3.2
-15	-26	1.40	8.7	2.5
-20	-29	1.27	6.7	2.0

RATINGS

NOTE - Cooling capacities are gross and do not include indoor coil blower motor heat deduction. Heating capacities include defrost cycles in the temperature range where they occur.
NOTE HEATING PERFORMANCE outdoor temperature 70% relative humidity. Indoor temperature 70°F (21°).
NOTE - For Temperatures and Capacities not shown in tables, see bulletin — Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HP28-036 - CH33-50/60C-F COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1000	470	35.7	10.5	2.34	.65	.81	.96	34.4	10.1	2.63	.66	.82	.97	33.1	9.7	2.97	.67	.84	.99	31.7	9.3	3.36	.69	.86	1.00
	1200	565	36.9	10.8	2.35	.69	.87	1.00	35.6	10.4	2.64	.71	.89	1.00	34.1	10.0	2.98	.73	.92	1.00	32.7	9.6	3.37	.75	.94	1.00
	1400	660	37.9	11.1	2.35	.74	.93	1.00	36.5	10.7	2.65	.75	.95	1.00	35.1	10.3	2.99	.78	.97	1.00	33.7	9.9	3.37	.80	.99	1.00
67°F (19°C)	1000	470	38.2	11.2	2.35	.51	.63	.76	36.8	10.8	2.65	.52	.64	.78	35.4	10.4	2.99	.52	.65	.80	33.8	9.9	3.38	.53	.66	.82
	1200	565	39.3	11.5	2.36	.54	.67	.83	37.9	11.1	2.66	.54	.68	.85	36.3	10.6	2.99	.55	.70	.87	34.8	10.2	3.38	.56	.72	.90
	1400	660	40.2	11.8	2.37	.56	.71	.90	38.7	11.3	2.66	.56	.73	.92	37.1	10.9	3.00	.57	.75	.94	35.4	10.4	3.39	.58	.77	.96
71°F (22°C)	1000	470	40.9	12.0	2.37	.39	.50	.60	39.4	11.5	2.67	.39	.50	.62	37.9	11.1	3.01	.39	.51	.63	36.2	10.6	3.40	.39	.52	.64
	1200	565	42.0	12.3	2.38	.40	.52	.64	40.5	11.9	2.68	.40	.53	.66	38.9	11.4	3.02	.40	.53	.67	37.2	10.9	3.41	.41	.54	.69
	1400	660	42.9	12.6	2.38	.40	.54	.68	41.3	12.1	2.68	.41	.55	.70	39.6	11.6	3.02	.41	.56	.72	37.8	11.1	3.41	.42	.57	.74

HP28-042 - CB30M-41 - CB30U-41/46 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1050	495	39.9	11.7	2.77	.65	.80	.93	38.5	11.3	3.14	.66	.81	.95	37.1	10.9	3.55	.67	.82	.96	35.5	10.4	4.02	.68	.85	.99
	1250	590	41.2	12.1	2.77	.69	.85	.98	39.8	11.7	3.13	.70	.87	1.00	38.3	11.2	3.55	.71	.89	1.00	36.7	10.8	4.01	.73	.91	1.00
	1450	685	42.3	12.4	2.76	.73	.90	1.00	40.8	12.0	3.13	.74	.92	1.00	39.2	11.5	3.54	.76	.94	1.00	37.6	11.0	4.01	.78	.96	1.00
67°F (19°C)	1050	495	42.7	12.5	2.76	.52	.63	.75	41.2	12.1	3.13	.52	.64	.77	39.6	11.6	3.54	.53	.65	.79	38.0	11.1	4.01	.53	.66	.80
	1250	590	43.9	12.9	2.76	.54	.66	.81	42.4	12.4	3.12	.54	.67	.82	40.7	11.9	3.53	.55	.69	.85	39.0	11.4	4.00	.55	.70	.87
	1450	685	44.9	13.2	2.75	.55	.70	.87	43.2	12.7	3.12	.56	.72	.88	41.6	12.2	3.53	.57	.73	.90	39.8	11.7	4.00	.58	.75	.93
71°F (22°C)	1050	495	45.7	13.4	2.75	.39	.50	.60	44.2	13.0	3.11	.39	.50	.61	42.5	12.5	3.52	.40	.51	.62	40.8	12.0	3.99	.40	.51	.63
	1250	590	47.0	13.8	2.75	.40	.52	.64	45.3	13.3	3.11	.40	.52	.65	43.6	12.8	3.52	.40	.53	.66	41.8	12.3	3.98	.41	.54	.67
	1450	685	47.9	14.0	2.74	.40	.54	.67	46.2	13.5	3.10	.41	.54	.69	44.4	13.0	3.51	.41	.55	.70	42.6	12.5	3.98	.41	.56	.72

HP28-036 - CH33-50/60C-F HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1000	470	43.0	12.6	2.76	34.0	10.0	2.54	24.9	7.3	2.31	16.4	4.8	2.08	8.1	2.4	1.56
1200	565	43.6	12.8	2.62	34.6	10.1	2.40	25.5	7.5	2.17	17.0	5.0	1.94	8.7	2.5	1.42
1400	660	44.1	12.9	2.51	35.1	10.3	2.29	26.0	7.6	2.06	17.5	5.1	1.83	9.2	2.7	1.31

HP28-042 - CB30M-41 - CB30U-41/46 HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1050	495	47.0	13.8	3.34	37.1	10.9	3.03	26.8	7.9	2.71	18.3	5.4	2.39	9.1	2.7	1.80
1250	590	47.6	14.0	3.15	37.7	11.0	2.84	27.4	8.0	2.52	18.9	5.5	2.20	9.7	2.8	1.62
1450	685	48.0	14.1	3.02	38.1	11.2	2.71	27.8	8.1	2.39	19.3	5.7	2.07	10.1	3.0	1.48

HP28-036 - CH33-50/60C-F HEATING PERFORMANCE at 1200 cfm (565 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.62	43.6	12.8
60	16	2.57	41.4	12.1
55	13	2.52	39.2	11.5
50	10	2.47	36.9	10.8
47	8	2.44	35.6	10.4
45	7	2.40	34.6	10.1
40	4	2.30	32.1	9.4
35	2	2.20	29.6	8.7
30	-1	2.18	27.6	8.1
25	-4	2.17	25.5	7.5
20	-7	2.15	23.4	6.9
17	-8	2.14	22.2	6.5
15	-9	2.12	21.3	6.2
10	-12	2.07	19.1	5.6
5	-15	1.94	17.0	5.0
0	-18	1.81	14.9	4.4
-5	-21	1.68	12.9	3.8
-10	-23	1.55	10.8	3.2
-15	-26	1.42	8.7	2.5
-20	-29	1.28	6.7	2.0

HP28-042 - CB30M-41 - CB30U-41/46 HEATING PERFORMANCE at 1250 cfm (590 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.15	47.6	14.0
60	16	3.08	45.2	13.2
55	13	3.01	42.8	12.5
50	10	2.93	40.4	11.8
47	8	2.89	39.0	11.4
45	7	2.84	37.7	11.0
40	4	2.73	34.3	10.1
35	2	2.62	30.9	9.1
30	-1	2.57	29.2	8.6
25	-4	2.52	27.4	8.0
20	-7	2.48	25.7	7.5
17	-8	2.45	24.6	7.2
15	-9	2.42	23.6	6.9
10	-12	2.35	21.2	6.2
5	-15	2.20	18.9	5.5
0	-18	2.06	16.6	4.9
-5	-21	1.91	14.3	4.2
-10	-23	1.76	12.0	3.5
-15	-26	1.62	9.7	2.8
-20	-29	1.47	7.4	2.2

RATINGS

NOTE - Cooling capacities are gross and do not include indoor coil blower motor heat deduction. Heating capacities include defrost cycles in the temperature range where they occur.
NOTE HEATING PERFORMANCE outdoor temperature 70% relative humidity. Indoor temperature 70°F (21°).
NOTE - For Temperatures and Capacities not shown in tables, see bulletin — Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HP28-042 - CB30M-46 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1200	565	40.3	11.8	2.75	.68	.83	.97	38.9	11.4	3.11	.69	.85	.99	37.4	11.0	3.53	.70	.87	1.00	35.9	10.5	3.99	.72	.89	1.00
	1400	660	41.4	12.1	2.75	.71	.89	1.00	40.0	11.7	3.11	.73	.90	1.00	38.4	11.3	3.52	.74	.93	1.00	36.8	10.8	3.98	.76	.95	1.00
	1600	755	42.4	12.4	2.74	.75	.93	1.00	40.9	12.0	3.11	.77	.95	1.00	39.4	11.5	3.52	.79	.97	1.00	37.8	11.1	3.98	.81	.99	1.00
67°F (19°C)	1200	565	43.0	12.6	2.74	.53	.65	.79	41.5	12.2	3.10	.53	.66	.81	39.9	11.7	3.51	.54	.67	.83	38.2	11.2	3.98	.55	.69	.85
	1400	660	44.0	12.9	2.74	.55	.69	.85	42.4	12.4	3.10	.55	.70	.87	40.7	11.9	3.51	.56	.72	.89	39.0	11.4	3.97	.57	.73	.91
	1600	755	44.8	13.1	2.73	.57	.72	.90	43.1	12.6	3.09	.58	.74	.92	41.4	12.1	3.50	.58	.76	.94	39.7	11.6	3.97	.60	.78	.96
71°F (22°C)	1200	565	46.0	13.5	2.73	.40	.51	.63	44.4	13.0	3.09	.40	.52	.64	42.7	12.5	3.50	.40	.53	.65	40.9	12.0	3.96	.40	.53	.66
	1400	660	47.0	13.8	2.73	.40	.53	.66	45.3	13.3	3.08	.41	.54	.68	43.6	12.8	3.49	.41	.55	.69	41.8	12.3	3.95	.41	.56	.70
	1600	755	47.7	14.0	2.73	.41	.56	.70	46.1	13.5	3.08	.41	.56	.71	44.3	13.0	3.49	.42	.57	.73	42.4	12.4	3.95	.42	.58	.75

HP28-042 - CB31MV-41 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1125	530	40.1	11.8	2.77	.67	.81	.95	38.7	11.3	3.14	.67	.83	.97	37.2	10.9	3.55	.69	.85	.98	35.7	10.5	4.02	.70	.87	1.00
	1275	600	41.0	12.0	2.77	.69	.85	.99	39.6	11.6	3.13	.70	.87	1.00	38.1	11.2	3.55	.72	.89	1.00	36.5	10.7	4.01	.74	.92	1.00
	1400	660	41.7	12.2	2.76	.72	.89	1.00	40.2	11.8	3.13	.73	.91	1.00	38.7	11.3	3.54	.75	.93	1.00	37.1	10.9	4.01	.77	.95	1.00
67°F (19°C)	1125	530	42.8	12.5	2.76	.53	.64	.77	41.3	12.1	3.12	.53	.65	.79	39.8	11.7	3.54	.53	.66	.81	38.1	11.2	4.00	.54	.67	.83
	1275	600	43.7	12.8	2.76	.54	.67	.81	42.1	12.3	3.12	.54	.68	.83	40.5	11.9	3.53	.55	.69	.85	38.8	11.4	4.00	.56	.71	.88
	1400	660	44.3	13.0	2.75	.55	.69	.85	42.7	12.5	3.12	.55	.70	.87	41.0	12.0	3.53	.56	.72	.89	39.3	11.5	4.00	.57	.74	.91
71°F (22°C)	1125	530	45.8	13.4	2.75	.40	.51	.62	44.3	13.0	3.11	.40	.51	.63	42.6	12.5	3.52	.40	.52	.63	40.8	12.0	3.99	.40	.53	.65
	1275	600	46.7	13.7	2.75	.40	.52	.64	45.1	13.2	3.11	.40	.53	.65	43.3	12.7	3.52	.40	.53	.67	41.6	12.2	3.98	.41	.54	.68
	1400	660	47.3	13.9	2.75	.40	.53	.66	45.6	13.4	3.10	.41	.54	.67	43.9	12.9	3.51	.41	.55	.69	42.0	12.3	3.98	.41	.56	.71

HP28-042 - CB30M-46 HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1200	565	47.2	13.8	3.26	37.3	10.9	2.95	27.0	7.9	2.63	18.5	5.4	2.30	9.3	2.7	1.73
1400	660	47.6	14.0	3.11	37.7	11.0	2.80	27.4	8.0	2.48	18.9	5.5	2.16	9.7	2.8	1.59
1600	755	48.1	14.1	3.01	38.2	11.2	2.70	27.9	8.2	2.38	19.4	5.7	2.05	10.2	3.0	1.48

HP28-042 - CB31MV-41 HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1125	530	46.9	13.7	3.28	37.2	10.9	2.92	27.2	8.0	2.55	18.9	5.5	2.23	9.4	2.8	1.64
1275	600	47.4	13.9	3.28	37.7	11.0	2.92	27.7	8.1	2.55	19.4	5.7	2.23	9.9	2.9	1.64
1400	660	47.8	14.0	3.07	38.1	11.2	2.71	28.1	8.2	2.34	19.8	5.8	2.02	10.3	3.0	1.43

HP28-042 - CB30M-46 HEATING PERFORMANCE at 1400 cfm (660 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.11	47.6	14.0
60	16	3.04	45.2	13.2
55	13	2.97	42.8	12.5
50	10	2.89	40.4	11.8
47	8	2.85	39.0	11.4
45	7	2.80	37.7	11.0
40	4	2.69	34.3	10.1
35	2	2.57	30.9	9.1
30	-1	2.53	29.2	8.6
25	-4	2.48	27.4	8.0
20	-7	2.43	25.7	7.5
17	-8	2.41	24.6	7.2
15	-9	2.38	23.6	6.9
10	-12	2.30	21.2	6.2
5	-15	2.16	18.9	5.5
0	-18	2.02	16.6	4.9
-5	-21	1.87	14.3	4.2
-10	-23	1.73	12.0	3.5
-15	-26	1.59	9.7	2.8
-20	-29	1.44	7.4	2.2

HP28-042 - CB31MV-41 HEATING PERFORMANCE at 1275 cfm (600 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.28	47.4	13.9
60	16	3.20	45.1	13.2
55	13	3.12	42.7	12.5
50	10	3.04	40.4	11.8
47	8	2.99	39.0	11.4
45	7	2.92	37.7	11.0
40	4	2.77	34.4	10.1
35	2	2.62	31.1	9.1
30	-1	2.58	29.4	8.6
25	-4	2.55	27.7	8.1
20	-7	2.51	26.0	7.6
17	-8	2.49	25.0	7.3
15	-9	2.46	24.1	7.1
10	-12	2.38	21.7	6.4
5	-15	2.23	19.4	5.7
0	-18	2.08	17.0	5.0
-5	-21	1.94	14.6	4.3
-10	-23	1.79	12.2	3.6
-15	-26	1.64	9.9	2.9
-20	-29	1.50	7.5	2.2

RATINGS

NOTE - Cooling capacities are gross and do not include indoor coil blower motor heat deduction. Heating capacities include defrost cycles in the temperature range where they occur.
NOTE HEATING PERFORMANCE outdoor temperature 70% relative humidity. Indoor temperature 70°F (21°).
NOTE - For Temperatures and Capacities not shown in tables, see bulletin — Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HP28-042 - CB30M-51 - CB30U-51 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1100	520	40.8	12.0	2.82	.66	.80	.94	39.3	11.5	3.19	.67	.82	.96	37.8	11.1	3.61	.68	.84	.98	36.2	10.6	4.09	.69	.86	1.00
	1300	615	42.1	12.3	2.81	.69	.86	1.00	40.6	11.9	3.18	.71	.88	1.00	39.0	11.4	3.61	.72	.90	1.00	37.3	10.9	4.08	.74	.92	1.00
	1500	710	43.2	12.7	2.81	.73	.91	1.00	41.6	12.2	3.18	.75	.93	1.00	40.0	11.7	3.60	.77	.96	1.00	38.4	11.3	4.07	.79	.98	1.00
67°F (19°C)	1100	520	43.7	12.8	2.81	.52	.63	.76	42.2	12.4	3.18	.52	.64	.78	40.5	11.9	3.60	.53	.65	.79	38.8	11.4	4.07	.54	.66	.81
	1300	615	45.0	13.2	2.80	.54	.67	.82	43.3	12.7	3.17	.54	.68	.84	41.6	12.2	3.59	.55	.69	.86	39.8	11.7	4.06	.56	.71	.88
	1500	710	46.0	13.5	2.80	.56	.70	.87	44.3	13.0	3.17	.56	.72	.89	42.5	12.5	3.59	.57	.74	.91	40.6	11.9	4.06	.58	.76	.94
71°F (22°C)	1100	520	46.9	13.7	2.80	.40	.50	.61	45.3	13.3	3.16	.40	.51	.62	43.5	12.7	3.58	.40	.51	.63	41.7	12.2	4.05	.40	.52	.64
	1300	615	48.1	14.1	2.81	.40	.52	.64	46.4	13.6	3.17	.40	.53	.65	44.6	13.1	3.58	.40	.54	.66	42.7	12.5	4.05	.41	.54	.68
	1500	710	49.0	14.4	2.82	.41	.54	.68	47.3	13.9	3.18	.41	.55	.69	45.4	13.3	3.59	.41	.56	.71	43.5	12.7	4.05	.42	.57	.73

HP28-042 - CB31MV-51 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1205	570	40.8	12.0	2.78	.67	.83	.98	39.3	11.5	3.15	.69	.85	.99	37.8	11.1	3.56	.70	.87	1.00	36.1	10.6	4.03	.71	.89	1.00
	1375	650	41.8	12.3	2.77	.70	.88	1.00	40.3	11.8	3.14	.72	.90	1.00	38.7	11.3	3.56	.74	.92	1.00	37.1	10.9	4.03	.75	.94	1.00
	1625	765	43.0	12.6	2.77	.76	.94	1.00	41.5	12.2	3.14	.77	.96	1.00	39.9	11.7	3.55	.79	.98	1.00	38.3	11.2	4.02	.81	1.00	1.00
67°F (19°C)	1205	570	43.6	12.8	2.77	.53	.65	.79	42.1	12.3	3.13	.53	.66	.80	40.4	11.8	3.55	.54	.67	.83	38.7	11.3	4.02	.55	.68	.85
	1375	650	44.6	13.1	2.76	.54	.68	.84	42.9	12.6	3.13	.55	.69	.86	41.2	12.1	3.54	.56	.71	.88	39.4	11.5	4.01	.57	.73	.90
	1625	765	45.6	13.4	2.76	.57	.73	.90	43.9	12.9	3.12	.58	.74	.92	42.1	12.3	3.54	.58	.76	.95	40.3	11.8	4.00	.60	.79	.97
71°F (22°C)	1205	570	46.7	13.7	2.77	.40	.51	.62	45.1	13.2	3.13	.40	.52	.63	43.4	12.7	3.53	.40	.52	.65	41.5	12.2	4.00	.40	.53	.66
	1375	650	47.6	14.0	2.78	.40	.53	.65	45.9	13.5	3.14	.40	.54	.67	44.1	12.9	3.54	.41	.54	.68	42.3	12.4	3.99	.41	.55	.70
	1625	765	48.6	14.2	2.79	.41	.56	.70	46.8	13.7	3.14	.41	.56	.72	45.0	13.2	3.55	.42	.57	.74	43.0	12.6	4.00	.42	.59	.76

HP28-042 - CB30M-51 - CB30U-51 HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1100	520	48.7	14.3	3.36	38.2	11.2	3.05	27.4	8.0	2.73	18.6	5.5	2.41	9.3	2.7	1.82
1300	615	49.1	14.4	3.19	38.6	11.3	2.88	27.8	8.1	2.56	19.0	5.6	2.24	9.7	2.8	1.64
1500	710	49.6	14.5	3.07	39.1	11.5	2.76	28.3	8.3	2.44	19.5	5.7	2.12	10.2	3.0	1.52

HP28-042 - CB31MV-51 HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1205	570	48.5	14.2	3.22	38.1	11.2	2.95	27.4	8.0	2.67	18.7	5.5	2.36	9.3	2.7	1.76
1375	650	49.0	14.4	3.10	38.6	11.3	2.82	27.9	8.2	2.54	19.2	5.6	2.24	9.8	2.9	1.64
1625	765	49.8	14.6	2.97	39.4	11.5	2.69	28.7	8.4	2.41	20.0	5.9	2.11	10.6	3.1	1.51

HP28-042 - CB30M-51 - CB30U-51 HEATING PERFORMANCE at 1300 cfm (615 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.19	49.1	14.4
60	16	3.11	46.6	13.7
55	13	3.04	44.1	12.9
50	10	2.97	41.5	12.2
47	8	2.92	40.0	11.7
45	7	2.88	38.6	11.3
40	4	2.76	35.1	10.3
35	2	2.65	31.5	9.2
30	-1	2.60	29.7	8.7
25	-4	2.56	27.8	8.1
20	-7	2.51	25.9	7.6
17	-8	2.49	24.8	7.3
15	-9	2.46	23.8	7.0
10	-12	2.38	21.3	6.2
5	-15	2.24	19.0	5.6
0	-18	2.09	16.6	4.9
-5	-21	1.94	14.3	4.2
-10	-23	1.79	12.0	3.5
-15	-26	1.64	9.7	2.8
-20	-29	1.49	7.4	2.2

HP28-042 - CB31MV-51 HEATING PERFORMANCE at 1375 cfm (650 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.10	49.0	14.4
60	16	3.03	46.5	13.6
55	13	2.97	44.0	12.9
50	10	2.90	41.5	12.2
47	8	2.86	40.0	11.7
45	7	2.82	38.6	11.3
40	4	2.72	35.1	10.3
35	2	2.62	31.6	9.3
30	-1	2.58	29.8	8.7
25	-4	2.54	27.9	8.2
20	-7	2.50	26.1	7.6
17	-8	2.48	25.0	7.3
15	-9	2.45	24.0	7.0
10	-12	2.39	21.5	6.3
5	-15	2.24	19.2	5.6
0	-18	2.09	16.8	4.9
-5	-21	1.94	14.5	4.2
-10	-23	1.79	12.2	3.6
-15	-26	1.64	9.8	2.9
-20	-29	1.49	7.5	2.2

RATINGS

NOTE - Cooling capacities are gross and do not include indoor coil blower motor heat deduction. Heating capacities include defrost cycles in the temperature range where they occur.
NOTE HEATING PERFORMANCE outdoor temperature 70% relative humidity. Indoor temperature 70°F (21°).
NOTE - For Temperatures and Capacities not shown in tables, see bulletin — Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HP28-042 - C33-50/60C COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1200	565	40.1	11.8	2.75	.67	.82	.96	38.7	11.3	3.11	.68	.84	.98	37.2	10.9	3.52	.69	.86	.99	35.6	10.4	3.98	.71	.88	1.00
	1400	660	41.2	12.1	2.74	.70	.87	1.00	39.7	11.6	3.10	.72	.89	1.00	38.2	11.2	3.51	.73	.92	1.00	36.6	10.7	3.98	.75	.94	1.00
	1600	755	42.1	12.3	2.74	.74	.92	1.00	40.6	11.9	3.10	.76	.94	1.00	39.1	11.5	3.51	.78	.96	1.00	37.5	11.0	3.97	.80	.98	1.00
67°F (19°C)	1200	565	42.9	12.6	2.74	.53	.65	.78	41.3	12.1	3.10	.53	.66	.80	39.8	11.7	3.51	.54	.67	.82	38.1	11.2	3.97	.54	.68	.84
	1400	660	43.9	12.9	2.73	.54	.68	.84	42.3	12.4	3.09	.55	.69	.86	40.6	11.9	3.50	.56	.71	.88	38.9	11.4	3.96	.57	.72	.90
	1600	755	44.7	13.1	2.73	.56	.71	.88	43.0	12.6	3.09	.57	.73	.91	41.3	12.1	3.50	.58	.75	.93	39.6	11.6	3.96	.59	.77	.95
71°F (22°C)	1200	565	45.9	13.5	2.73	.40	.51	.62	44.3	13.0	3.08	.40	.51	.63	42.6	12.5	3.49	.40	.52	.64	40.8	12.0	3.95	.40	.53	.66
	1400	660	46.9	13.7	2.72	.40	.53	.65	45.2	13.2	3.08	.40	.54	.67	43.5	12.7	3.49	.41	.54	.68	41.7	12.2	3.95	.41	.55	.69
	1600	755	47.7	14.0	2.72	.41	.55	.69	46.0	13.5	3.07	.41	.56	.70	44.2	13.0	3.48	.42	.57	.72	42.3	12.4	3.94	.42	.58	.74

HP28-042 - C33-60D COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1200	565	40.9	12.0	2.75	.67	.82	.96	39.4	11.5	3.12	.68	.84	.98	37.9	11.1	3.53	.69	.86	1.00	36.3	10.6	3.99	.71	.88	1.00
	1400	660	42.0	12.3	2.75	.70	.88	1.00	40.5	11.9	3.11	.72	.90	1.00	39.0	11.4	3.52	.73	.91	1.00	37.3	10.9	3.99	.75	.94	1.00
	1600	755	43.0	12.6	2.74	.74	.92	1.00	41.5	12.2	3.11	.76	.94	1.00	39.9	11.7	3.52	.78	.97	1.00	38.3	11.2	3.98	.80	.98	1.00
67°F (19°C)	1200	565	43.8	12.8	2.74	.53	.65	.78	42.2	12.4	3.10	.53	.66	.80	40.6	11.9	3.51	.54	.67	.82	38.8	11.4	3.98	.55	.68	.84
	1400	660	44.8	13.1	2.74	.54	.68	.83	43.2	12.7	3.10	.55	.69	.85	41.5	12.2	3.51	.56	.70	.88	39.7	11.6	3.97	.57	.72	.90
	1600	755	45.7	13.4	2.73	.56	.71	.88	44.0	12.9	3.09	.57	.73	.91	42.2	12.4	3.50	.58	.75	.93	40.4	11.8	3.97	.59	.77	.95
71°F (22°C)	1200	565	46.9	13.7	2.73	.40	.51	.62	45.2	13.2	3.09	.40	.51	.63	43.5	12.7	3.50	.40	.52	.64	41.7	12.2	3.96	.40	.53	.66
	1400	660	47.9	14.0	2.73	.40	.53	.65	46.3	13.6	3.08	.40	.53	.66	44.5	13.0	3.49	.41	.54	.68	42.6	12.5	3.95	.41	.55	.69
	1600	755	48.7	14.3	2.74	.41	.55	.69	47.0	13.8	3.09	.41	.56	.70	45.2	13.2	3.49	.41	.57	.72	43.3	12.7	3.95	.42	.57	.74

HP28-042 - C33-50/60C HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1200	565	46.9	13.7	3.37	37.2	10.9	3.07	27.2	8.0	2.75	18.9	5.5	2.43	9.4	2.8	1.82
1400	660	47.4	13.9	3.21	37.7	11.0	2.91	27.7	8.1	2.59	19.4	5.7	2.27	9.9	2.9	1.66
1600	755	47.9	14.0	3.10	38.2	11.2	2.79	28.2	8.3	2.48	19.9	5.8	2.15	10.4	3.0	1.55

HP28-042 - C33-60D HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1200	565	46.9	13.7	3.31	37.2	10.9	3.03	27.2	8.0	2.75	18.9	5.5	2.45	9.4	2.8	1.84
1400	660	47.4	13.9	3.14	37.7	11.0	2.86	27.7	8.1	2.58	19.4	5.7	2.28	9.9	2.9	1.67
1600	755	47.9	14.0	3.01	38.2	11.2	2.73	28.2	8.3	2.45	19.9	5.8	2.15	10.4	3.0	1.54

HP28-042 - C33-50/60C HEATING PERFORMANCE at 1400 cfm (660 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.21	47.4	13.9
60	16	3.14	45.1	13.2
55	13	3.07	42.7	12.5
50	10	3.00	40.4	11.8
47	8	2.95	39.0	11.4
45	7	2.91	37.7	11.0
40	4	2.79	34.4	10.1
35	2	2.68	31.1	9.1
30	-1	2.63	29.4	8.6
25	-4	2.59	27.7	8.1
20	-7	2.55	26.0	7.6
17	-8	2.52	25.0	7.3
15	-9	2.49	24.1	7.1
10	-12	2.42	21.7	6.4
5	-15	2.27	19.4	5.7
0	-18	2.12	17.0	5.0
-5	-21	1.97	14.6	4.3
-10	-23	1.82	12.2	3.6
-15	-26	1.66	9.9	2.9
-20	-29	1.51	7.5	2.2

HP28-042 - C33-60D HEATING PERFORMANCE at 1400 cfm (660 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.14	47.4	13.9
60	16	3.08	45.1	13.2
55	13	3.01	42.7	12.5
50	10	2.95	40.4	11.8
47	8	2.91	39.0	11.4
45	7	2.86	37.7	11.0
40	4	2.76	34.4	10.1
35	2	2.65	31.1	9.1
30	-1	2.61	29.4	8.6
25	-4	2.58	27.7	8.1
20	-7	2.54	26.0	7.6
17	-8	2.52	25.0	7.3
15	-9	2.50	24.1	7.1
10	-12	2.43	21.7	6.4
5	-15	2.28	19.4	5.7
0	-18	2.13	17.0	5.0
-5	-21	1.97	14.6	4.3
-10	-23	1.82	12.2	3.6
-15	-26	1.67	9.9	2.9
-20	-29	1.51	7.5	2.2

RATINGS

NOTE - Cooling capacities are gross and do not include indoor coil blower motor heat deduction. Heating capacities include defrost cycles in the temperature range where they occur.
NOTE HEATING PERFORMANCE outdoor temperature 70% relative humidity. Indoor temperature 70°F (21°).
NOTE - For Temperatures and Capacities not shown in tables, see bulletin — Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HP28-042 - C33-62D COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1200	565	41.3	12.1	2.69	.67	.82	.96	39.8	11.7	3.04	.68	.84	.98	38.3	11.2	3.44	.69	.86	1.00	36.7	10.8	3.90	.71	.88	1.00
	1400	660	42.5	12.5	2.68	.70	.88	1.00	41.0	12.0	3.04	.72	.89	1.00	39.3	11.5	3.44	.73	.92	1.00	37.7	11.0	3.89	.75	.94	1.00
	1600	755	43.5	12.7	2.68	.74	.93	1.00	41.9	12.3	3.03	.76	.95	1.00	40.3	11.8	3.43	.78	.97	1.00	38.7	11.3	3.88	.80	.99	1.00
67°F (19°C)	1200	565	44.2	13.0	2.68	.53	.65	.78	42.7	12.5	3.03	.53	.65	.80	41.0	12.0	3.43	.54	.67	.82	39.3	11.5	3.88	.54	.68	.84
	1400	660	45.4	13.3	2.67	.54	.68	.84	43.7	12.8	3.02	.55	.69	.85	42.0	12.3	3.42	.56	.70	.87	40.1	11.8	3.88	.57	.72	.90
	1600	755	46.2	13.5	2.67	.56	.71	.89	44.5	13.0	3.02	.57	.73	.91	42.7	12.5	3.42	.58	.75	.93	40.8	12.0	3.87	.59	.77	.95
71°F (22°C)	1200	565	47.4	13.9	2.67	.40	.51	.62	45.8	13.4	3.01	.40	.51	.63	44.0	12.9	3.41	.40	.52	.64	42.2	12.4	3.86	.40	.53	.65
	1400	660	48.5	14.2	2.68	.40	.53	.65	46.8	13.7	3.02	.40	.53	.66	45.0	13.2	3.41	.41	.54	.68	43.1	12.6	3.86	.41	.55	.69
	1600	755	49.3	14.4	2.69	.41	.55	.69	47.5	13.9	3.03	.41	.56	.70	45.7	13.4	3.42	.41	.57	.72	43.8	12.8	3.86	.42	.57	.74

HP28-042 - CH33-44/48B-F COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1200	565	40.5	11.9	2.75	.67	.82	.96	39.0	11.4	3.11	.68	.84	.98	37.5	11.0	3.52	.69	.86	.99	36.0	10.6	3.99	.71	.88	1.00
	1400	660	41.6	12.2	2.74	.70	.88	1.00	40.1	11.8	3.11	.72	.90	1.00	38.6	11.3	3.52	.73	.92	1.00	37.0	10.8	3.98	.75	.94	1.00
	1600	755	42.5	12.5	2.74	.74	.92	1.00	41.0	12.0	3.10	.76	.95	1.00	39.5	11.6	3.51	.78	.96	1.00	37.9	11.1	3.97	.79	.98	1.00
67°F (19°C)	1200	565	43.3	12.7	2.74	.53	.65	.78	41.8	12.3	3.10	.53	.66	.80	40.2	11.8	3.51	.54	.67	.82	38.5	11.3	3.97	.54	.68	.84
	1400	660	44.3	13.0	2.73	.54	.68	.83	42.7	12.5	3.09	.55	.69	.85	41.0	12.0	3.50	.56	.71	.87	39.3	11.5	3.97	.57	.72	.90
	1600	755	45.1	13.2	2.73	.56	.71	.89	43.5	12.7	3.09	.57	.73	.91	41.7	12.2	3.50	.58	.75	.93	40.0	11.7	3.96	.59	.77	.95
71°F (22°C)	1200	565	46.3	13.6	2.73	.40	.51	.62	44.7	13.1	3.09	.40	.52	.63	43.0	12.6	3.49	.40	.52	.64	41.2	12.1	3.95	.40	.53	.66
	1400	660	47.4	13.9	2.72	.40	.53	.65	45.7	13.4	3.08	.40	.53	.67	43.9	12.9	3.49	.41	.54	.68	42.1	12.3	3.95	.41	.55	.69
	1600	755	48.1	14.1	2.73	.41	.55	.69	46.5	13.6	3.08	.41	.56	.70	44.6	13.1	3.48	.41	.56	.72	42.8	12.5	3.94	.42	.58	.74

HP28-042 - C33-62D HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1200	565	46.9	13.7	3.17	37.2	10.9	2.94	27.2	8.0	2.69	18.9	5.5	2.42	9.4	2.8	1.81
1400	660	47.4	13.9	3.02	37.7	11.0	2.78	27.7	8.1	2.54	19.4	5.7	2.26	9.9	2.9	1.65
1600	755	47.9	14.0	2.91	38.2	11.2	2.67	28.2	8.3	2.43	19.9	5.8	2.15	10.4	3.0	1.54

HP28-042 - CH33-44/48B-F HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil															
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1200	565	46.9	13.7	3.20	37.2	10.9	2.93	27.2	8.0	2.65	18.9	5.5	2.36	9.4	2.8	1.77
1400	660	47.4	13.9	3.05	37.7	11.0	2.78	27.7	8.1	2.50	19.4	5.7	2.20	9.9	2.9	1.61
1600	755	47.9	14.0	2.93	38.2	11.2	2.66	28.2	8.3	2.38	19.9	5.8	2.08	10.4	3.0	1.49

HP28-042 - C33-62D HEATING PERFORMANCE at 1400 cfm (660 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.02	47.4	13.9
60	16	2.96	45.1	13.2
55	13	2.91	42.7	12.5
50	10	2.85	40.4	11.8
47	8	2.82	39.0	11.4
45	7	2.78	37.7	11.0
40	4	2.69	34.4	10.1
35	2	2.59	31.1	9.1
30	-1	2.56	29.4	8.6
25	-4	2.54	27.7	8.1
20	-7	2.51	26.0	7.6
17	-8	2.49	25.0	7.3
15	-9	2.47	24.1	7.1
10	-12	2.42	21.7	6.4
5	-15	2.26	19.4	5.7
0	-18	2.11	17.0	5.0
-5	-21	1.96	14.6	4.3
-10	-23	1.80	12.2	3.6
-15	-26	1.65	9.9	2.9
-20	-29	1.50	7.5	2.2

HP28-042 - CH33-44/48B-F HEATING PERFORMANCE at 1400 cfm (660 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.05	47.4	13.9
60	16	2.99	45.1	13.2
55	13	2.92	42.7	12.5
50	10	2.86	40.4	11.8
47	8	2.82	39.0	11.4
45	7	2.78	37.7	11.0
40	4	2.67	34.4	10.1
35	2	2.57	31.1	9.1
30	-1	2.53	29.4	8.6
25	-4	2.50	27.7	8.1
20	-7	2.46	26.0	7.6
17	-8	2.44	25.0	7.3
15	-9	2.42	24.1	7.1
10	-12	2.35	21.7	6.4
5	-15	2.20	19.4	5.7
0	-18	2.06	17.0	5.0
-5	-21	1.91	14.6	4.3
-10	-23	1.76	12.2	3.6
-15	-26	1.61	9.9	2.9
-20	-29	1.47	7.5	2.2

RATINGS

NOTE - Cooling capacities are gross and do not include indoor coil blower motor heat deduction. Heating capacities include defrost cycles in the temperature range where they occur.
NOTE HEATING PERFORMANCE outdoor temperature 70% relative humidity. Indoor temperature 70°F (21°).
NOTE - For Temperatures and Capacities not shown in tables, see bulletin — Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HP28-042 - CH33-48C-F COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1200	565	40.5	11.9	2.75	.67	.82	.96	39.0	11.4	3.11	.68	.84	.98	37.5	11.0	3.52	.69	.86	.99	36.0	10.6	3.99	.71	.88	1.00
	1400	660	41.6	12.2	2.74	.70	.88	1.00	40.1	11.8	3.11	.72	.90	1.00	38.6	11.3	3.52	.73	.92	1.00	37.0	10.8	3.98	.75	.94	1.00
	1600	755	42.5	12.5	2.74	.74	.92	1.00	41.0	12.0	3.10	.76	.95	1.00	39.5	11.6	3.51	.78	.96	1.00	37.9	11.1	3.97	.79	.98	1.00
67°F (19°C)	1200	565	43.3	12.7	2.74	.53	.65	.78	41.8	12.3	3.10	.53	.66	.80	40.2	11.8	3.51	.54	.67	.82	38.5	11.3	3.97	.54	.68	.84
	1400	660	44.3	13.0	2.73	.54	.68	.83	42.7	12.5	3.09	.55	.69	.85	41.0	12.0	3.50	.56	.71	.87	39.3	11.5	3.97	.57	.72	.90
	1600	755	45.1	13.2	2.73	.56	.71	.89	43.5	12.7	3.09	.57	.73	.91	41.7	12.2	3.50	.58	.75	.93	40.0	11.7	3.96	.59	.77	.95
71°F (22°C)	1200	565	46.3	13.6	2.73	.40	.51	.62	44.7	13.1	3.09	.40	.52	.63	43.0	12.6	3.49	.40	.52	.64	41.2	12.1	3.95	.40	.53	.66
	1400	660	47.4	13.9	2.72	.40	.53	.65	45.7	13.4	3.08	.40	.53	.67	43.9	12.9	3.49	.41	.54	.68	42.1	12.3	3.95	.41	.55	.69
	1600	755	48.1	14.1	2.73	.41	.55	.69	46.5	13.6	3.08	.41	.56	.70	44.6	13.1	3.48	.41	.56	.72	42.8	12.5	3.94	.42	.58	.74

HP28-042 - CH33-50/60C-F COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	L/s	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	1200	565	41.3	12.1	2.74	.67	.82	.97	39.9	11.7	3.10	.68	.84	.98	38.3	11.2	3.51	.69	.86	1.00	36.7	10.8	3.97	.71	.88	1.00
	1400	660	42.5	12.5	2.73	.70	.88	1.00	41.0	12.0	3.09	.72	.89	1.00	39.4	11.5	3.50	.73	.91	1.00	37.7	11.0	3.97	.75	.94	1.00
	1600	755	43.5	12.7	2.73	.74	.93	1.00	41.9	12.3	3.09	.76	.95	1.00	40.3	11.8	3.50	.78	.97	1.00	38.7	11.3	3.96	.80	.99	1.00
67°F (19°C)	1200	565	44.3	13.0	2.73	.52	.64	.78	42.7	12.5	3.09	.53	.65	.80	41.0	12.0	3.50	.54	.67	.82	39.3	11.5	3.96	.54	.68	.84
	1400	660	45.4	13.3	2.72	.54	.68	.84	43.7	12.8	3.08	.55	.69	.85	42.0	12.3	3.49	.56	.70	.87	40.2	11.8	3.95	.57	.72	.90
	1600	755	46.2	13.5	2.72	.56	.71	.89	44.5	13.0	3.08	.57	.73	.91	42.7	12.5	3.49	.58	.75	.93	40.9	12.0	3.95	.59	.77	.95
71°F (22°C)	1200	565	47.4	13.9	2.72	.40	.51	.62	45.8	13.4	3.07	.40	.51	.63	44.0	12.9	3.48	.40	.52	.64	42.2	12.4	3.94	.40	.53	.65
	1400	660	48.5	14.2	2.73	.40	.53	.65	46.8	13.7	3.08	.40	.53	.66	45.0	13.2	3.48	.41	.54	.68	43.1	12.6	3.93	.41	.55	.69
	1600	755	49.3	14.4	2.74	.41	.55	.69	47.5	13.9	3.09	.41	.56	.70	45.7	13.4	3.48	.41	.57	.72	43.8	12.8	3.93	.42	.57	.74

HP28-042 - CH33-48C-F HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1200	565	46.9	13.7	3.33	37.2	10.9	3.06	27.2	8.0	2.78	18.9	5.5	2.49	9.4	2.8	1.90
1400	660	47.4	13.9	3.05	37.7	11.0	2.78	27.7	8.1	2.50	19.4	5.7	2.20	9.9	2.9	1.61
1600	755	47.9	14.0	2.93	38.2	11.2	2.66	28.2	8.3	2.38	19.9	5.8	2.09	10.4	3.0	1.50

HP28-042 - CH33-50/60C-F HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)		Air Temperature Entering Outdoor Coil											
		65°F (18°C)			45°F (7°C)			25°F (-4°C)			5°F (-15°C)			-15°F (-26°C)		
		Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input	Total Heating Capacity		Comp. Motor kW Input
cfm	L/s	kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW		kBtuh	kW	
1200	565	46.9	13.7	3.05	37.2	10.9	2.81	27.2	8.0	2.56	18.9	5.5	2.30	9.4	2.8	1.72
1400	660	47.4	13.9	2.90	37.7	11.0	2.66	27.7	8.1	2.41	19.4	5.7	2.14	9.9	2.9	1.56
1600	755	47.8	14.0	2.78	38.1	11.2	2.54	28.1	8.2	2.29	19.8	5.8	2.02	10.3	3.0	1.44

HP28-042 - CH33-48C-F HEATING PERFORMANCE at 1400 cfm (660 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	3.05	47.4	13.9
60	16	2.99	45.1	13.2
55	13	2.92	42.7	12.5
50	10	2.86	40.4	11.8
47	8	2.82	39.0	11.4
45	7	2.78	37.7	11.0
40	4	2.67	34.4	10.1
35	2	2.57	31.1	9.1
30	-1	2.53	29.4	8.6
25	-4	2.50	27.7	8.1
20	-7	2.46	26.0	7.6
17	-8	2.44	25.0	7.3
15	-9	2.42	24.1	7.1
10	-12	2.35	21.7	6.4
5	-15	2.20	19.4	5.7
0	-18	2.06	17.0	5.0
-5	-21	1.91	14.6	4.3
-10	-23	1.76	12.2	3.6
-15	-26	1.61	9.9	2.9
-20	-29	1.47	7.5	2.2

HP28-042 - CH33-50/60C-F HEATING PERFORMANCE at 1400 cfm (660 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input	Total Output	
°F	°C		kBtuh	kW
65	18	2.90	47.4	13.9
60	16	2.84	45.1	13.2
55	13	2.79	42.7	12.5
50	10	2.73	40.4	11.8
47	8	2.70	39.0	11.4
45	7	2.66	37.7	11.0
40	4	2.56	34.4	10.1
35	2	2.47	31.1	9.1
30	-1	2.44	29.4	8.6
25	-4	2.41	27.7	8.1
20	-7	2.38	26.0	7.6
17	-8	2.36	25.0	7.3
15	-9	2.34	24.1	7.1
10	-12	2.29	21.7	6.4
5	-15	2.14	19.4	5.7
0	-18	2.00	17.0	5.0
-5	-21	1.85	14.6	4.3
-10	-23	1.71	12.2	3.6
-15	-26	1.56	9.9	2.9
-20	-29	1.42	7.5	2.2