

HP24 SERIES HEAT PUMP OUTDOOR UNITS RFC III™ or EXPANSION VALVE SYSTEMS

10.05 to 11.55 SEER

*12,000 to 62,000 Btuh Cooling Capacity

*11,500 to 60,500 Btuh Heating Capacity

*ARI Standard 210/241 Certified Ratings



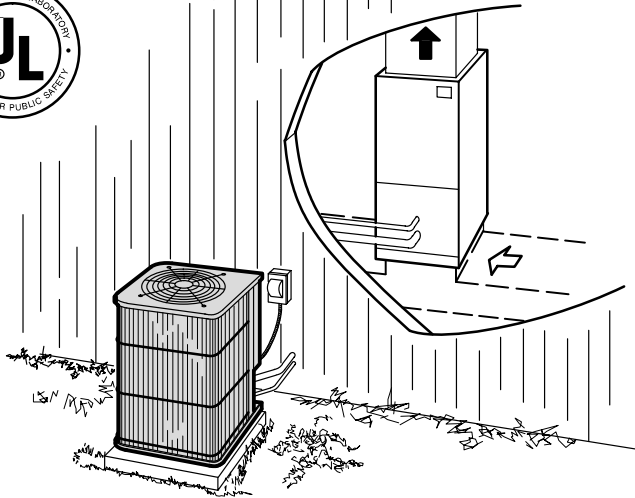
CERTIFICATION APPLIES ONLY
WHEN THE COMPLETE
SYSTEM IS LISTED
WITH ARI



CERTIFICATION APPLIES ONLY
WHEN USED WITH PROPER
COMPONENTS AS LISTED
WITH ARI



Typical Application



FEA-

Application — HP24 series heat pump outdoor units consist of eight models ranging from 1 to 5 tons. Units have SEER's up to 11.55 with a cooling capacity range of 12,000 to 62,000 Btuh and COP of up to 3.54 with heating capacity range of 11,500 to 60,500 Btuh. Units are designed for use with remotely located indoor blower coil units or indoor add-on coils in Fuelmaster+™ applications. Outdoor units may be installed on a slab at grade level or on a rooftop. A variety of matching up-flo, down-flo or horizontal indoor blower coil units, with optional supplemental electric heat provide selective sizing and installation versatility. For Fuelmaster+ controls information, see bulletin indexed in this tab section. For complete data on indoor blower coil units and Fuelmaster+ coils, see tab section, Coils — Blower Coil Units. HP24 units are test operated at the factory to insure proper operation and are shipped ready for installation. Installer has only to locate unit and make refrigerant line and electrical connections to complete the installation.

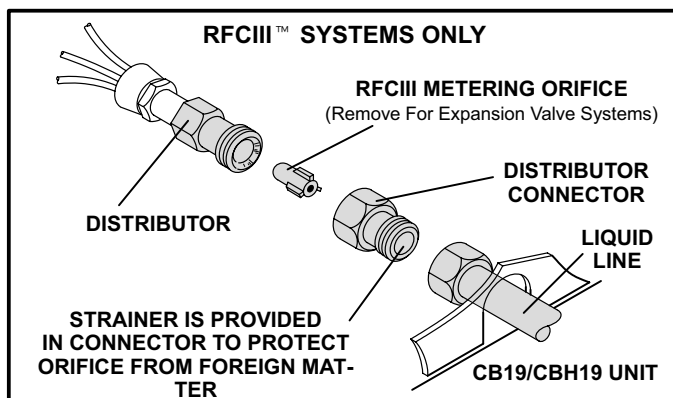
Refrigerant Control Choice — A choice of refrigerant flow controls is available. Use an RFC III™ refrigerant metering orifice for an economical installation restricted to specific indoor blower coil units (CB19/CBH19) or select an optional check and expansion valve kit for a larger selection of indoor units.

Refrigerant Flow Control III — HP24 units are applicable to Lennox RFC III systems when matched with CB19 and CBH19 blower coil units only. RFCIII (Refrigerant Flow Control) is a very accurate means of metering refrigerant in a system. Metering control is accomplished by the exact sizing of the refrigerant metering orifice located in the distributor on the CB19/CBH19 coils. The distributor is equipped with a flare fitting connector for easy connection of the liquid line, see illustration. Design of the bullet shaped orifice allows for reverse flow during the heating cycle. As the refrigerant flows in the reverse direction the orifice moves back to a free flow position, eliminating the need for a check valve and related piping. The entire principle of the RFCIII system involves the matching of the indoor coil and the proper sizing of the metering orifice. The RFCIII system equalizes pressures instantly after the compressor stops, eliminating the need for any extra controls and allowing the compressor to start unloaded.

Approvals — Units have been tested with matching indoor units in the Lennox Research Laboratory environmental test room and rated according to U.S. Department of Energy (DOE) test procedures and in accordance with ARI Standard 210/240-89. Units have been sound rated in the Lennox reverberant sound test room in accordance with ARI Standard 270-84. Units and components within are bonded for grounding to meet safety standards for servicing required by U.L. and N.E.C. Units are also U.L. listed.

Equipment Warranty — Compressor has a limited warranty for five years. All other components have a limited warranty for one year. Refer to the Lennox Equipment Limited Warranty certificate included with the unit for details.

Weather Resistant Cabinet and Base Section — Heavy gauge galvanized steel cabinet and base section are subjected to a five station metal wash process prior to a finish coat application of baked-on outdoor enamel. Attractive enamel finish provides the cabinet and base section with long lasting protection from rust and corrosion. Drainage holes are provided in the base section for moisture removal. High density polyethylene base supports raise the unit off of the mounting surface away from damaging moisture.



NOTE — Specifications, Ratings and Dimensions subject to change without notice.

FEATURES (Continued)

Accessible Control Box — Conveniently located for easy access. All controls are pre-wired at the factory.

Copper Tube/Enhanced Fin Coil — Lennox designed and fabricated coil is constructed of precisely spaced ripple-edged aluminum fins machine fitted to seamless copper tubes. Four-sided wrap-around coil configuration provides extra large surface area with low air resistance. Lanced fins provide maximum exposure of the fin surface to air stream resulting in excellent heat transfer. Fins are equipped with collars that grip the tubing for maximum contact area. Precise circuiting provides uniform refrigerant distribution for high efficiency. Flared shoulder tubing connections and silver soldering result in tight, leakproof joints. Long-life copper tubing is corrosion-resistant and easy to field service. Coil is factory tested under high pressure to insure leakproof construction. Entire coil is accessible for cleaning. Corrosion-resistant PVC (polyvinyl chloride) coated steel wire condenser coil guard is furnished as standard.

Dependable and Quiet Compressor — Compressor is hermetically sealed and provides trouble-free operation and long service life. Built-in protection devices assure protection from excessive current and temperatures. Refrigerant cooled and overload protected. HP24-141 is equipped with a rotary compressor. HP24-211 thru HP24-650 models are furnished with a crankcase heater as standard equipment to ensure proper compressor lubrication at all times. Heater is temperature actuated to operate only when required. The compressor components are spring mounted within the sealed housing. In addition, the compressor is installed in the unit on resilient rubber mounts for quiet and vibration free operation. Muffler, factory installed in discharge line, reduces operating sound levels.

Suction Line Accumulator — Factory installed and piped accumulator is furnished on HP24-141, -460, -510 and -650 models only. Accumulator prevents large amounts of liquid refrigerant from entering the compressor eliminating damage on start-ups and refrigerant cycle changes.

Reversing Valve — Factory installed 4-way reversing valve provides a rapid change in refrigerant flow direction resulting in quick change-over from cooling to heating and vice-versa. Valve operates on pressure differential between outdoor unit and indoor unit.

OPTIONAL ACCESSORIES (Must Be Ordered Extra)

Check and Expansion Valve Kits (Optional) — For maximum seasonal efficiency, use a check and expansion valve matched to indoor unit. Must be ordered extra and field installed on indoor coil unit. See ARI Ratings table for kit selection.

NOTE — When HP24 units are used with CB19/CBH19 indoor blower coil units with a check and expansion valve, CB19/CBH19 units must be field altered by removing the RFCIII refrigerant metering orifice. The orifice is easily removed at the liquid line connection on the indoor unit. See illustration on previous page.

Mounting Base (Optional) — Mounting base provides a permanent foundation for outdoor units. High density polyethylene structural material is lightweight, sturdy, sound absorbing and will withstand the effects of sun, heat, cold, moisture, oil and refrigerant. Will not mildew or decompose. Can be shipped singly or in packages of six to a carton. Use MB1-24 (78H50) 32" x 34" x 3", shipping weight 15 lbs. each.

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

Defrost Control — Solid-state time/temperature defrost control is furnished as standard equipment. Control initiates a defrost cycle every 30, 60 or 90 minutes of compressor "on" time at outdoor temperatures below 35° F (factory setting 60 minutes). Maximum defrost cycle is 14 minutes. Defrost thermostat mounted on the liquid line determines when a defrost cycle is required and when to terminate a cycle.

Start Controls — Factory installed start capacitor and potential relay provides assistance for compressor start under loaded conditions, low voltage or low ambient conditions.

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

Refrigerant Line Connections, Electrical Inlets and Service Valves — Liquid and vapor line connections are located outside the unit cabinet and are made with sweat connections. Fully serviceable brass service valves prevent corrosion and provide easy access to refrigerant system. Liquid and vapor valves can be fully shut off, and the liquid valve can be backseated to manage refrigerant charge while servicing the system. Field installed thermometer well is furnished for installation in the liquid line. Valves and gauge ports are accessible outside the unit cabinet. See dimension drawing. In addition, a high capacity drier with internal check valve and strainer are furnished and factory installed in the liquid line.

Refrigerant Line Kits (Optional) — Lines are available in several lengths. See Refrigerant Line Kit table. Lines (vapor and liquid) are shipped refrigeration clean. Lines are cleaned, dried, pressurized and sealed at the factory. Vapor line is fully insulated. Lines are furnished with a flare fitting (indoor unit connection) at one end and stubbed (no fitting) at the opposite end for connection to outdoor unit. Kits are not available for the HP24-141 and HP24-650 models and lines must be furnished by the installer. Refrigerant line length should not exceed 50 ft. in any installation. If longer lines are needed, contact your Lennox Field Service Consultant.

Thermostat (Optional) — Thermostat is not furnished with the unit and must be ordered extra. See Thermostats bulletin in Accessories Section.

Outdoor Thermostat Kit (Optional) — 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 (31461) and mounting box M-1595 (56A87) must be ordered extra.

ARI RATINGS

Outdoor Unit Model No. ★ARI Std. 270 SRN (bels)	†ARI Standard 210/240 Ratings											Indoor Unit	☆Check and Expansion Valve Kit
	Cool. Cap. (Btuh)	High Temp. Htg. Cap. (Btuh)	Low Temp. Htg. Cap. (Btuh)	Total Unit Cooling Watts	SEER (Btuh/Watt)	EER (Btuh/Watt)	Total Unit High Temp. Htg. Watts	*HSPF	High Temp. Htg. C.O.P.	Total Unit Low Temp. Htg. Watts	Low Temp. Htg. C.O.P.		
HP24-141 (7.6)	12,000	11,600	7,300	1190	11.30	10.10	1177	6.80	2.89	1059	2.02	CB18/CBS18-21	LB-34792BJ (84H87)
	12,000	11,600	7,300	1200	11.05	10.00	1200	6.80	2.82	1085	1.96	C16-21FF/FC CR16-21FF	
	12,100	11,600	7,300	1200	11.10	10.05	1185	6.80	2.86	1075	2.00	CH16-21FF	
	12,700	11,500	7,200	1180	11.55	10.70	1085	6.90	3.10	1000	2.10	CB19/CBH19-21	
	12,700	11,500	7,200	1180	10.55	10.70	1085	6.90	3.10	1000	2.10	CB19/CBH19-21	
HP24-211 (7.6)	17,500	17,800	9,900	1875	10.05	9.30	1800	6.80	2.90	1490	1.94	C16-21FF/FC CR16-21FF	LB-34792BE (25G86)
	17,800	18,000	10,000	1880	10.20	9.45	1770	6.85	2.98	1480	1.98	CH16-21FF	
	18,000	17,800	9,900	1830	10.55	9.80	1722	7.00	3.02	1431	2.02	CB18/CBS18-21	
	18,400	17,800	9,900	1890	10.55	9.70	1795	6.80	2.90	1490	1.94	C16-28FF/FC	
	18,500	18,500	10,000	1890	10.55	9.75	1760	6.80	3.08	1480	1.98	C16-31FF/FC CR16-31FF	
	19,400	18,000	9,900	1800	11.55	10.75	1605	7.20	3.28	1360	2.12	CB19/CBH19-21	
19,400	18,000	9,900	1800	11.05	10.75	1605	7.20	3.28	1360	2.12	CB19/CBH19-21		
HP24-261 (7.6)	23,000	23,000	12,600	2470	10.25	9.30	2290	6.80	2.94	1867	1.98	C16-31FF/FC CR16-31FF	LB-34792BE (25G86)
	23,200	23,400	12,700	2475	10.35	9.35	2265	6.85	3.03	1855	2.00	CH16-31FF	
	23,600	23,400	12,600	2480	10.55	9.50	2260	6.85	3.03	1860	1.98	C16-41FF/FC CR16-41FF	
	23,800	23,400	12,500	2490	10.55	9.55	2252	7.00	3.05	1808	2.02	CB18/CBS18-26	
	24,000	23,500	12,700	2500	10.55	9.60	2220	6.95	3.10	1840	2.02	CH16-41FF	
	24,200	23,200	12,400	2350	11.15	10.30	2076	7.10	3.28	1700	2.12	CB19/CBH19-26	
24,200	23,200	12,400	2350	10.65	10.30	2076	7.10	3.28	1700	2.12	CB19/CBH19-26		
HP24-311 (7.6)	29,000	28,800	15,900	3100	10.05	9.35	2674	7.15	3.14	2090	2.22	CB18/CBS18-31	LB-34792BG (44G34)
	29,200	29,200	16,200	3180	10.05	9.15	2710	7.10	3.16	2155	2.20	C16-41FF/FC CR16-41FF	
	29,800	29,600	16,300	3200	10.05	9.30	2675	7.25	3.24	2145	2.22	CH16-41FF	
	29,800	29,400	16,000	3120	10.30	9.55	2674	7.30	3.22	2096	2.24	CB18/CBS18-41	
	30,000	29,400	16,100	3100	10.55	9.65	2538	7.50	3.40	2020	2.32	CB19/CBH19-31	
	30,000	29,400	16,100	3100	10.05	9.65	2538	7.50	3.40	2020	2.32	CB19/CBH19-31	
HP24-411 HP24-413 (8.0)	35,000	35,200	20,200	3760	10.55	9.30	3230	7.20	3.20	2515	2.34	C16-41FF/FC CR16-41FF	LB-34792BG (44G34)
	36,000	35,600	20,400	3800	10.60	9.45	3175	7.35	3.28	2490	2.40	CH16-41FF	
	36,000	35,600	20,000	3710	10.70	9.70	3183	7.30	3.28	2469	2.36	CB18/CBS18-41	
	36,400	36,000	20,100	3675	11.15	9.90	2970	7.60	3.54	2340	2.50	CB19/CBH19-41	
	36,400	36,000	20,100	3675	11.05	9.90	2970	7.60	3.54	2340	2.50	CB19/CBH19-41	
	36,600	35,600	20,200	3755	11.05	9.75	3095	7.50	3.36	2435	2.42	CB18/CBS18-51	
HP24-461 HP24-463 (8.0)	40,000	41,000	24,200	4420	10.20	9.05	3970	7.25	3.02	3175	2.22	C16-41FF/FC CR16-41FF	LB-34792BG (44G34)
	40,800	40,800	24,100	4360	10.55	9.35	3885	7.40	3.08	3100	2.26	CB18/CBS18-41	
	41,000	41,500	24,500	4455	10.40	9.20	3900	7.30	3.10	3150	2.26	CH16-41FF	
	42,000	42,000	24,800	4490	10.55	9.35	3890	7.60	3.16	3164	2.30	CB18/CBS18-51	
	42,000	41,000	24,300	4320	11.05	9.70	3660	7.65	3.28	2970	2.38	CB19/CBH19-41	
	42,000	41,000	24,300	4320	10.05	9.70	3660	7.65	3.28	2970	2.38	CB19/CBH19-41	
HP24-511 HP24-513 (8.4)	47,000	46,500	27,500	4970	10.05	9.45	4405	7.15	3.09	3405	2.36	C16-51FF/FC CR16-51FF	LB-34792BF (25G87)
	48,000	48,000	27,900	5085	10.05	9.45	4435	7.30	3.17	3491	2.34	CB18/CBS18-51	
	49,000	48,000	28,300	5145	10.15	9.50	4375	7.30	3.22	3465	2.38	CB18/CBS18-65	
	49,000	48,000	27,800	4895	10.65	10.00	4095	7.70	3.44	3230	2.50	CB19/CBH19-51	
	49,000	48,000	27,800	4895	10.20	10.00	4095	7.70	3.44	3230	2.50	CB19/CBH19-51	
	49,500	48,500	28,100	5055	10.55	9.80	4200	7.55	3.38	3335	2.46	CH19-51	
HP24-651 HP24-653 (8.4)	57,000	59,000	35,700	6285	10.05	9.05	5650	7.30	3.06	4380	2.38	C16-65, C16-65FC	LB-34792BH (44G35)
	58,000	59,500	35,600	6110	10.40	9.50	5310	7.75	3.28	4130	2.50	CB18/CBS18-51	
	59,000	60,000	36,500	6460	10.05	9.15	5670	7.60	3.10	4466	2.40	CB18/CBS18-65	
	61,000	60,000	36,300	6425	10.40	9.50	5460	7.60	3.22	4320	2.46	CB19/CBH19-65	
	62,000	60,500	36,300	6455	10.55	9.60	5430	7.65	3.26	4300	2.46	CH19-65	

★Sound Rating Number in accordance with ARI Standard 270. *Heating Seasonal Performance Factor. ☆Kit must be ordered extra for field installation.

†Rated in accordance with ARI Standard 210/240 and DOE with 25 ft. of connecting refrigerant lines;

Cooling Ratings — 95°F outdoor air temperature and 80°F db/67°F wb entering indoor coil air.

High Temperature Heating Ratings — 47°F db/43°F wb outdoor air temperature and 70°F db entering indoor coil air.

Low Temperature Heating Ratings — 17°F db/15°F wb outdoor air temperature and 70°F db entering indoor coil air.

††RFCIII metering orifice furnished with CB19/CBH19 indoor blower coil unit.

SPECIFICATIONS

Model No.		HP24-141	HP24-211	HP24-261	HP24-311	
Outdoor Coil	Net face area (sq. ft.)	Outer coil	12.6	12.6	12.6	14.7
		Inner coil	----	----	----	----
	Tube diameter (in.) & no. of rows		3/8 — 1	3/8 — 1	3/8 — 1	3/8 — 1
	Fins per inch		20	20	20	20
Outdoor Fan	Diameter (in.) & no. of blades		20 — 3	20 — 3	20 — 3	20 — 3
	Motor hp		1/6	1/6	1/6	1/6
	Cfm		2630	2630	2630	2665
	Rpm		840	840	840	850
	Watts		210	210	210	210
*Refrigerant — 22 charge furnished		5 lbs. 4 oz.	5 lbs. 8 oz.	6 lbs. 4 oz.	7 lbs. 6 oz.	
Liquid line (o.d. in.) connection (sweat)		**1/4	***5/16	***5/16	3/8	
Vapor line (o.d. in.) connection (sweat)		1/2	5/8	5/8	3/4	
Shipping weight (lbs.) 1 package		133	161	162	171	

*Refrigerant charge sufficient for 25 ft. length of refrigerant lines.

**With furnished 3/8" x 1/4" reducer adaptor.

***With furnished 3/8" x 5/16" reducer adaptor

SPECIFICATIONS

Model No.		HP24-411 HP24-413	HP24-461 HP24-463	HP24-511 HP24-513	HP24-651 HP24-653	
Outdoor Coil	Net face area (sq. ft.)	Outer coil	14.7	20.0	20.0	20.0
		Inner coil	3.9	----	6.3	19.0
	Tube diameter (in.) & no. of rows		3/8 — 1.3	3/8 — 1	3/8 — 1.3	3/8 — 2
	Fins per inch		20	20	20	20
Outdoor Fan	Diameter (in.) & no. of blades		20 — 3	24 — 4	24 — 4	24 — 4
	Motor hp		1/6	1/4	1/4	1/4
	Cfm		2600	3980	3980	3950
	Rpm		845	840	830	825
	Watts		200	350	340	370
*Refrigerant — 22 charge furnished		7 lbs. 8 oz.	8 lbs. 6 oz.	9 lbs. 9 oz.	13 lbs. 0 oz.	
Liquid line (o.d. in.) connection (sweat)		3/8	3/8	3/8	3/8	
Vapor line (o.d. in.) connection (sweat)		3/4	7/8	7/8	1-1/8	
Shipping weight (lbs.) 1 package		204	224	269	294	

*Refrigerant charge sufficient for 25 ft. length of refrigerant lines.

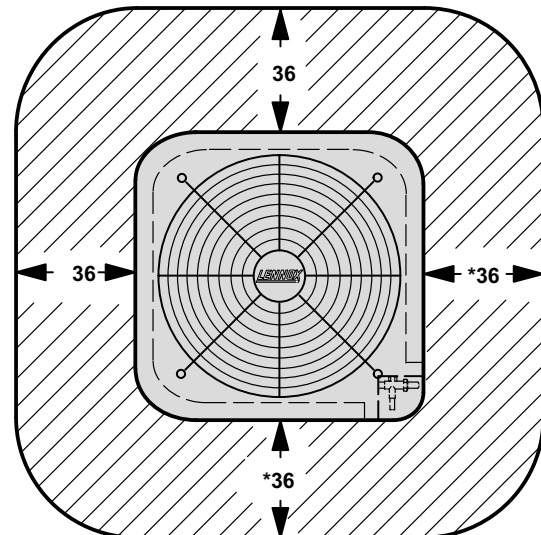
REFRIGERANT LINE KITS

Outdoor Unit Model No.	Line Set Model No.	Length of lines (ft.)	Liquid Line (o.d. in.)	Vapor Line (o.d. in.)
**HP24-141	*Not available	----	**1/4	1/2
**HP24-211 **HP24-261	L10-21-20	20	**5/16	5/8
	L10-21-25	25	**5/16	5/8
	L10-21-35	35	**5/16	5/8
	L10-21-50	50	**5/16	5/8
HP24-311 HP24-410	L10-41-20	20	3/8	3/4
	L10-41-30	30	3/8	3/4
	L10-41-40	40	3/8	3/4
	L10-41-50	50	3/8	3/4
HP24-460 HP24-510	L10-65-30	30	3/8	7/8
	L10-65-40	40	3/8	7/8
	L10-65-50	50	3/8	7/8
HP24-650	*Not available	----	3/8	1-1/8

*Field fabricate.

**HP24-141, HP24-211 & HP24-261 units will accept 3/8" liquid lines. Adaptors furnished with outdoor units will allow use with 1/4" liquid line (HP24-141) and 5/16" liquid line (HP24-211 & 261).

INSTALLATION CLEARANCES (inches)



NOTE—48 inch clearance required on top of unit.

*NOTE—One side must be 36 inches for service. Two of the remaining three sides may be 12 inches.

ELECTRICAL DATA

Model No.		HP24-141	HP24-211	HP24-261	HP24-311	HP24-411	HP24-413	
Line voltage data		208/230v 60hz-1ph	208/230v 60hz-1ph	208/230v 60hz-1ph	208/230v 60hz-1ph	208/230v 60hz-1ph	208/230v 60hz-3ph	460v 60hz-3ph
Compressor	Rated load amps	5.0	8.1	10.9	12.2	16.3	11.6	5.1
	Power factor	.97	.99	.95	.97	.99	.88	.88
	Locked rotor amps	26.3	49.0	61.0	71.0	86.7	65.1	32.8
Outdoor Coil Fan Motor	Full load amps	1.1	1.1	1.1	1.1	1.1	1.1	0.6
	Locked rotor amps	1.7	1.7	1.7	1.7	1.7	1.7	0.9
Rec. max. fuse or circuit breaker size (amps)		15	15	25	25	35	25	15
*Minimum circuit ampacity		7.4	11.3	14.8	16.4	21.5	15.6	7.0

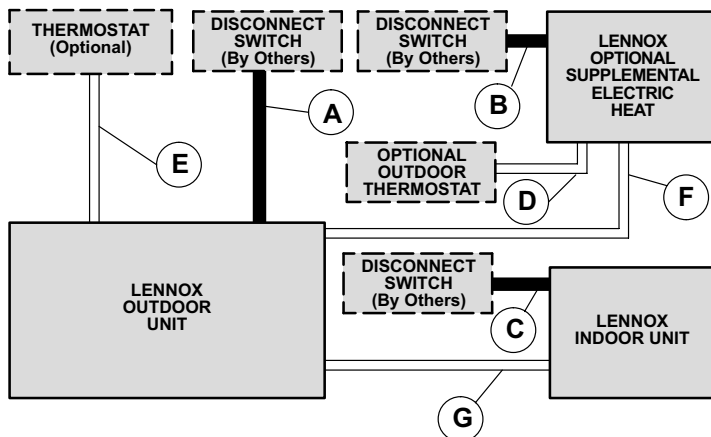
*Refer to National Electrical Code manual to determine wire, fuse and disconnect size requirements.
NOTE — Extremes of operating range are plus 10% and minus 5% of line voltage.

ELECTRICAL DATA

Model No.		HP24-461	HP24-463		HP24-511	HP24-513		HP24-651	HP24-653	
Line voltage data — 60 hz		208/230v 1ph	208/230v 3ph	460v 3ph	208/230v 1ph	208/230v 3ph	460v 3ph	208/230v 1ph	208/230v 3ph	460v 3ph
Compressor	Rated load amps	18.6	12.7	5.8	24.4	16.1	8.4	30.8	17.4	9.7
	Power factor	.94	.82	.82	.98	.78	.78	.98	.78	.78
	Locked rotor amps	102.0	91.0	42.0	135.0	137.0	68.0	147.0	150.0	73.0
Outdoor Coil Fan Motor	Full load amps	1.7	1.7	1.1	1.7	1.7	1.1	1.7	1.7	1.1
	Locked rotor amps	3.1	3.1	2.2	3.1	3.1	2.2	3.1	3.1	2.2
Rec. max. fuse or circuit breaker size (amps)		40	30	15	50	35	20	60	40	20
*Minimum circuit ampacity		25.0	17.6	8.4	32.2	21.9	11.6	40.2	23.5	13.3

*Refer to National 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

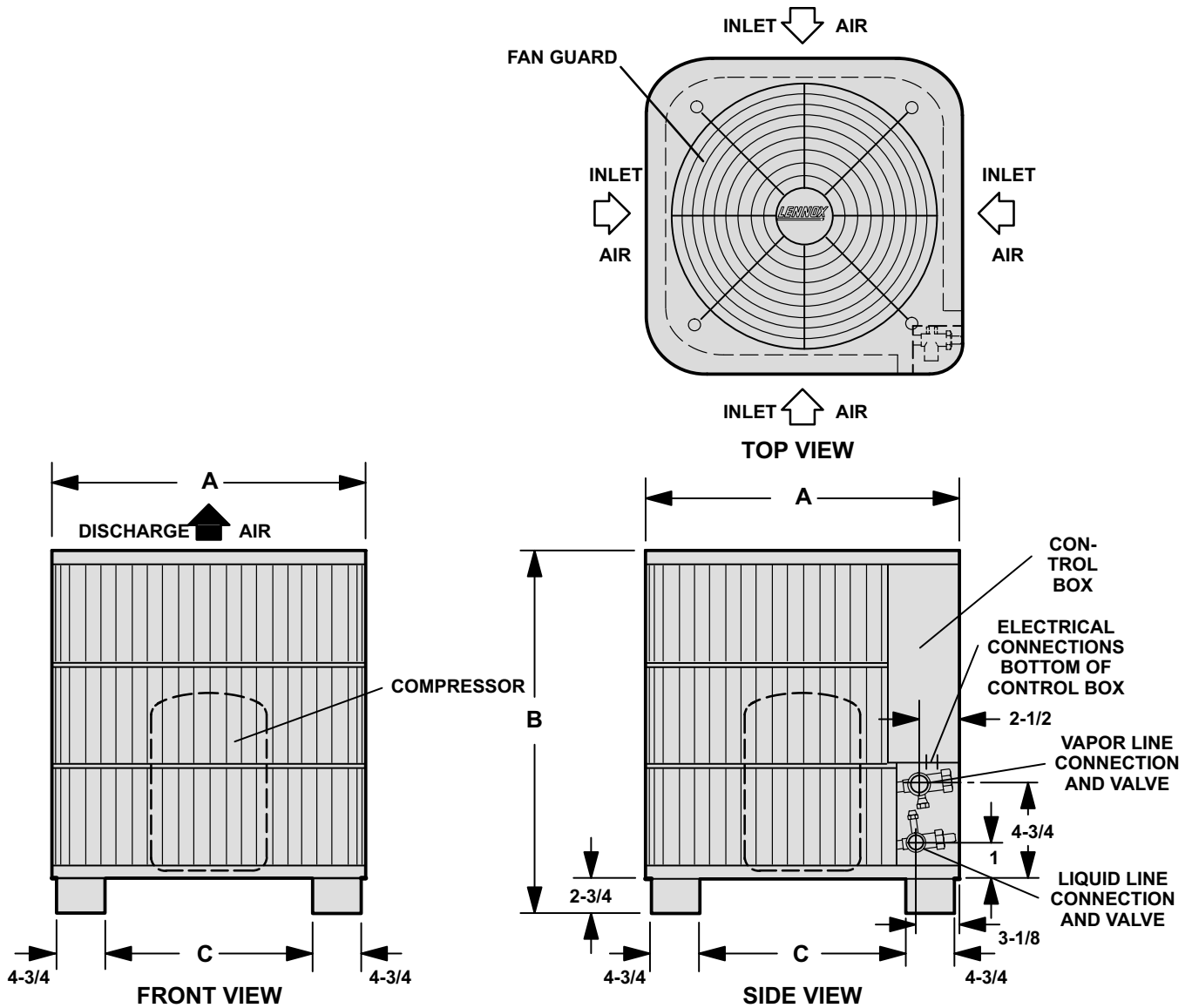


- A — Two or Three Wire Power (see Electrical Data)
- B — Two or Three Wire Power (size to heater capacity)
- C — Two Wire Power (size to indoor coil blower motor)
- D — Two Wire Low Voltage — 18 ga. minimum
- E — Eight Wire Low Voltage — 18 ga. minimum — with Electric Heat
— Ten Wire Low Voltage with 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 and local electrical codes.

DIMENSIONS (inches)



Model No.	A	B	C
HP24-141, HP24-211, HP24-261	26-3/8	26-3/4	16-7/8
HP24-311, HP24-411-413	26-3/8	30-3/4	16-7/8
HP24-461-463, HP24-511-513, HP24-651-653	31-5/16	34-3/4	21-3/16

COOLING AND HEATING RATINGS

NOTE — To determine Sensible Capacity, Leaving Wet and Dry Bulb temperatures not shown in the tables, see Miscellaneous Engineering Data section, page 9.

HP24-141 COOLING CAPACITY WITH CB18-21 OR CBS18-21 INDOOR COIL UNIT

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Outdoor Coil (°F)																							
		85						95						105						115					
		Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)						
				Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)						
			75	80	85				75	80	85				75	80	85				75	80	85		
63	400	12,600	730	.75	.90	1.00	12,100	810	.76	.92	1.00	11,600	900	.77	.94	1.00	11,100	990	.79	.96	1.00				
	450	12,900	740	.78	.94	1.00	12,400	820	.79	.96	1.00	11,900	910	.80	.97	1.00	11,400	990	.82	.99	1.00				
	500	13,200	740	.80	.97	1.00	12,700	820	.82	.99	1.00	12,200	910	.83	1.00	1.00	11,700	1000	.85	1.00	1.00				
67	400	13,200	740	.59	.74	.88	12,700	830	.59	.75	.89	12,200	910	.60	.76	.91	11,700	1000	.61	.78	.93				
	450	13,600	750	.60	.76	.91	13,000	830	.61	.78	.93	12,500	920	.62	.79	.95	11,900	1010	.63	.81	.97				
	500	13,900	750	.62	.79	.95	13,300	840	.63	.80	.97	12,700	920	.64	.82	.99	12,200	1010	.65	.84	1.00				
71	400	13,800	750	.44	.58	.74	13,300	840	.44	.59	.75	12,800	920	.44	.60	.76	12,200	1020	.45	.61	.77				
	450	14,200	760	.44	.60	.76	13,700	840	.45	.61	.77	13,100	930	.45	.62	.79	12,500	1020	.45	.63	.80				
	500	14,500	760	.45	.62	.79	14,000	850	.45	.63	.80	13,400	940	.46	.64	.81	12,800	1030	.46	.65	.83				

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

HP24-141 COOLING CAPACITY WITH C16-21FF/FC OR CR16-21FF INDOOR COIL UNIT

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Outdoor Coil (°F)																							
		85						95						105						115					
		Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)						
				Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)						
			75	80	85				75	80	85				75	80	85				75	80	85		
63	450	12,900	740	.79	.95	1.00	12,400	820	.80	.97	1.00	11,900	910	.81	.99	1.00	11,400	1000	.83	1.00	1.00				
	500	13,200	740	.81	.98	1.00	12,700	830	.83	1.00	1.00	12,200	910	.84	1.00	1.00	11,700	1000	.86	1.00	1.00				
67	450	13,500	750	.61	.77	.93	13,000	830	.62	.79	.94	12,500	920	.63	.81	.96	11,900	1010	.64	.83	.98				
	500	13,800	750	.63	.80	.96	13,200	840	.64	.82	.98	12,700	920	.65	.84	1.00	12,100	1010	.66	.86	1.00				
71	450	14,100	760	.45	.61	.77	13,600	840	.45	.62	.79	13,000	930	.46	.63	.80	12,500	1020	.46	.64	.81				
	500	14,400	760	.46	.63	.80	13,800	850	.46	.64	.81	13,300	940	.46	.65	.83	12,700	1030	.47	.66	.84				

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

HP24-141 HEATING CAPACITY WITH CB18-21 OR CBS18-21 INDOOR COIL UNIT

Indoor Coil Air Volume (cfm) 70°F db	Air Temperature Entering Outdoor Coil (°F)									
	65		45		25		5		-15	
	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)
400	14,000	900	11,100	815	8100	730	5500	615	2800	465
450	14,200	880	11,200	795	8200	705	5600	590	2900	445
500	14,300	860	11,400	775	8400	690	5800	575	3000	425

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

HP24-141 HEATING CAPACITY WITH C16-21FF/FC OR CR16-21FF INDOOR COIL UNIT

Indoor Coil Air Volume (cfm) 70°F db	Air Temperature Entering Outdoor Coil (°F)									
	65		45		25		5		-15	
	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)
450	14,200	880	11,300	795	8300	710	5700	595	2900	450
500	14,400	865	11,400	780	8400	695	5800	580	3000	430

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

HP24-141 HEATING PERFORMANCE at 450 cfm Indoor Coil Air Volume (CB18-21 or CBS18-21)

*Outdoor Temperature (°F)	Compressor Motor Watts Input	Total Output (Btuh)
65	880	14,200
60	855	13,500
55	835	12,700
50	815	12,000
47	805	11,600
45	795	11,200
40	765	10,300
35	740	9400
30	725	8800
25	705	8200
20	690	7700
17	680	7300
15	665	7000
10	630	6300
5	590	5600
0	555	5000
-5	520	4300
-10	480	3600
-15	445	2900
-20	410	2200

*Outdoor temperature at 70% relative humidity. Indoor temperature at 70°F.

HP24-141 HEATING PERFORMANCE at 450 cfm Indoor Coil Air Volume (C16-21FF/FC or CR16-21FF)

*Outdoor Temperature (°F)	Compressor Motor Watts Input	Total Output (Btuh)
65	880	14,200
60	860	13,500
55	840	12,800
50	820	12,100
47	810	11,600
45	795	11,300
40	770	10,300
35	745	9400
30	725	8800
25	710	8300
20	695	7700
17	685	7300
15	670	7100
10	635	6400
5	595	5700
0	560	5000
-5	520	4300
-10	485	3600
-15	450	2900
-20	410	2200

*Outdoor temperature at 70% relative humidity. Indoor temperature at 70°F.

COOLING AND HEATING RATINGS

NOTE — To determine Sensible Capacity, Leaving Wet and Dry Bulb temperatures not shown in the tables, see Miscellaneous Engineering Data section, page 9.

HP24-141 COOLING CAPACITY WITH CH16-21FF INDOOR COIL UNIT

En-ter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Outdoor Coil (°F)																							
		85						95						105						115					
		Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)						
				75	80	85			75	80	85			75	80	85			75	80	85				
63	450	13,000	740	.77	.93	1.00	12,400	820	.78	.95	1.00	11,900	910	.80	.97	1.00	11,300	990	.81	.99	1.00				
	500	13,200	740	.80	.96	1.00	12,700	820	.81	.98	1.00	12,100	910	.83	1.00	1.00	11,600	1000	.84	1.00	1.00				
67	450	13,700	750	.60	.76	.91	13,100	830	.61	.77	.92	12,600	920	.62	.79	.94	12,000	1010	.62	.81	.96				
	500	14,000	750	.62	.78	.94	13,400	840	.62	.80	.96	12,800	930	.63	.82	.98	12,200	1020	.64	.84	1.00				
71	450	14,500	760	.44	.59	.75	13,900	850	.44	.60	.76	13,300	940	.45	.61	.78	12,700	1030	.45	.62	.79				
	500	14,800	770	.45	.61	.78	14,200	850	.45	.62	.79	13,600	940	.45	.63	.80	13,000	1030	.46	.64	.82				

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

HP24-141 HEATING CAPACITY WITH CH16-21FF INDOOR COIL UNIT

Indoor Coil Air Volume (cfm) 70°F db	Air Temperature Entering Outdoor Coil (°F)									
	65		45		25		5		-15	
	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)
450	14,300	870	11,300	785	8300	700	5700	590	2900	440
500	14,400	850	11,500	770	8400	685	5800	570	3100	425

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

HP24-141 HEATING PERFORMANCE at 450 cfm Indoor Coil Air Volume (CH16-21FF)

*Outdoor Temperature (°F)	Compressor Motor Watts Input	Total Output (Btuh)
65	870	14,300
60	850	13,500
55	830	12,800
50	810	12,100
47	795	11,700
45	785	11,300
40	760	10,400
35	735	9500
30	715	8900
25	700	8300
20	685	7700
17	675	7400
15	660	7100
10	625	6400
5	590	5700
0	550	5000
-5	515	4300
-10	480	3600
-15	440	2900
-20	405	2200

*Outdoor temperature at 70% relative humidity. Indoor temperature at 70°F.

COOLING AND HEATING RATINGS

NOTE — To determine Sensible Capacity, Leaving Wet and Dry Bulb temperatures not shown in the tables, see Miscellaneous Engineering Data section, page 9.

HP24-141 COOLING CAPACITY WITH CB19-21 OR CBH19-21 INDOOR COIL UNIT

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Outdoor Coil (°F)																							
		85						95						105						115					
		Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)						
				Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)						
			75	80	85				75	80	85				75	80	85				75	80	85		
63	400	13,200	740	.76	.91	1.00	12,700	820	.77	.93	1.00	12,100	910	.78	.96	1.00	11,600	1000	.80	.98	1.00				
	450	13,500	750	.79	.96	1.00	13,000	830	.80	.98	1.00	12,500	920	.81	.99	1.00	11,900	1010	.83	1.00	1.00				
	500	13,900	750	.81	.99	1.00	13,300	840	.83	1.00	1.00	12,800	930	.84	1.00	1.00	12,300	1020	.86	1.00	1.00				
67	400	13,900	750	.60	.74	.89	13,400	840	.60	.76	.90	12,800	930	.61	.77	.92	12,200	1010	.62	.79	.94				
	450	14,300	760	.61	.77	.93	13,700	840	.62	.79	.94	13,100	930	.63	.81	.96	12,500	1020	.64	.83	.98				
	500	14,500	760	.63	.80	.96	13,900	850	.64	.82	.98	13,300	940	.65	.84	1.00	12,700	1030	.66	.87	1.00				
71	400	14,700	770	.44	.58	.74	14,100	850	.45	.59	.75	13,500	940	.45	.60	.77	12,900	1030	.45	.61	.78				
	450	15,000	770	.45	.60	.77	14,400	860	.45	.61	.78	13,800	950	.46	.62	.79	13,200	1040	.46	.64	.81				
	500	15,300	780	.46	.62	.80	14,700	860	.46	.63	.81	14,100	950	.46	.65	.82	13,400	1040	.47	.66	.84				

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

RFCIII HP24-141 COOLING CAPACITY WITH CB19-21 OR CBH19-21 INDOOR COIL UNIT

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Outdoor Coil (°F)																							
		85						95						105						115					
		Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)						
				Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)						
			75	80	85				75	80	85				75	80	85				75	80	85		
63	400	12,400	720	.76	.91	1.00	12,700	820	.77	.93	1.00	12,100	910	.78	.96	1.00	11,600	1000	.80	.98	1.00				
	450	12,700	730	.79	.96	1.00	13,000	830	.80	.98	1.00	12,500	920	.81	.99	1.00	11,900	1010	.83	1.00	1.00				
	500	13,100	730	.81	.99	1.00	13,300	840	.83	1.00	1.00	12,800	930	.84	1.00	1.00	12,300	1020	.86	1.00	1.00				
67	400	13,100	730	.60	.74	.89	13,400	840	.60	.76	.90	12,800	930	.61	.77	.92	12,200	1010	.62	.79	.94				
	450	13,500	740	.61	.77	.93	13,700	840	.62	.79	.94	13,100	930	.63	.81	.96	12,500	1020	.64	.83	.98				
	500	13,700	740	.63	.80	.96	13,900	850	.64	.82	.98	13,300	940	.65	.84	1.00	12,700	1030	.66	.87	1.00				
71	400	13,900	750	.44	.58	.74	14,100	850	.45	.59	.75	13,500	940	.45	.60	.77	12,900	1030	.45	.61	.78				
	450	14,200	750	.45	.60	.77	14,400	860	.45	.61	.78	13,800	950	.46	.62	.79	13,200	1040	.46	.64	.81				
	500	14,500	760	.46	.62	.80	14,700	860	.46	.63	.81	14,100	950	.46	.65	.82	13,400	1040	.47	.66	.84				

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

HP24-141 HEATING CAPACITY WITH CB19-21 OR CBH19-21 INDOOR COIL UNIT

Indoor Coil Air Volume (cfm) 70°F db	Air Temperature Entering Outdoor Coil (°F)									
	65		45		25		5		-15	
	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)
400	14,000	825	11,000	755	8000	685	5400	585	2700	445
450	14,100	800	11,100	735	8100	665	5600	560	2800	420
500	14,300	785	11,300	715	8300	645	5700	545	3000	405

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

HP24-141 HEATING PERFORMANCE at 450 cfm Indoor Coil Air Volume (CB19-21 or CBH19-21)

*Outdoor Temperature (°F)	Compressor Motor Watts Input	Total Output (Btuh)
65	800	14,100
60	785	13,400
55	770	12,700
50	750	11,900
47	745	11,500
45	735	11,100
40	710	10,200
35	690	9300
30	675	8700
25	665	8100
20	650	7500
17	645	7200
15	630	6900
10	595	6200
5	560	5600
0	525	4900
-5	490	4200
-10	455	3500
-15	420	2800
-20	385	2200

*Outdoor temperature at 70% relative humidity. Indoor temperature at 70°F.

COOLING AND HEATING RATINGS

NOTE — To determine Sensible Capacity, Leaving Wet and Dry Bulb temperatures not shown in the tables, see Miscellaneous Engineering Data section, page 9.

HP24-211 COOLING CAPACITY WITH C16-21FF/FC OR CR16-21FF INDOOR COIL UNIT

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Outdoor Coil (°F)																			
		85			95			105			115										
		Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)							
				75	80	85			75	80	85			75	80	85	75	80	85		
63	650	18,700	1310	.78	.94	1.00	17,800	1430	.79	.96	1.00	17,000	1550	.81	.98	1.00	16,100	1670	.83	1.00	1.00
	725	19,100	1320	.81	.97	1.00	18,300	1440	.82	.99	1.00	17,300	1560	.84	1.00	1.00	16,500	1680	.86	1.00	1.00
67	650	19,700	1330	.61	.76	.91	18,800	1450	.61	.78	.93	17,800	1570	.62	.80	.95	16,900	1700	.64	.83	.98
	725	20,100	1330	.62	.79	.95	19,200	1460	.63	.81	.97	18,200	1580	.64	.83	1.00	17,200	1710	.66	.86	1.00
71	650	20,600	1340	.45	.60	.76	19,700	1470	.45	.61	.78	18,700	1600	.45	.63	.79	17,700	1730	.46	.64	.81
	725	21,100	1340	.45	.62	.79	20,100	1480	.46	.63	.80	19,100	1610	.46	.64	.82	18,100	1740	.47	.66	.84

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

HP24-211 COOLING CAPACITY WITH CH16-21FF INDOOR COIL UNIT

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Outdoor Coil (°F)																			
		85			95			105			115										
		Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)							
				75	80	85			75	80	85			75	80	85	75	80	85		
63	650	18,800	1310	.76	.92	1.00	17,900	1430	.78	.94	1.00	17,000	1550	.80	.97	1.00	16,000	1660	.82	.99	1.00
	725	19,200	1320	.79	.95	1.00	18,300	1440	.81	.97	1.00	17,400	1560	.83	.99	1.00	16,500	1680	.85	1.00	1.00
67	650	20,000	1330	.59	.75	.89	19,000	1450	.60	.76	.91	18,100	1580	.61	.78	.94	17,100	1700	.62	.81	.96
	725	20,400	1340	.61	.77	.93	19,500	1460	.62	.79	.95	18,400	1590	.63	.81	.98	17,400	1720	.64	.84	1.00
71	650	21,200	1340	.44	.59	.74	20,200	1480	.44	.60	.76	19,200	1610	.44	.61	.77	18,200	1750	.45	.62	.79
	725	21,700	1350	.44	.60	.77	20,700	1490	.45	.61	.78	19,600	1620	.45	.63	.80	18,600	1760	.45	.64	.82

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

HP24-211 HEATING CAPACITY WITH C16-21FF/FC OR CR16-21FF INDOOR COIL UNIT

Indoor Coil Air Volume (cfm) 70°F db	Air Temperature Entering Outdoor Coil (°F)									
	65		45		25		5		-15	
	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)
650	22,500	1540	17,200	1335	11,800	1135	7700	910	3900	685
725	22,800	1520	17,400	1315	12,000	1110	7900	890	4100	665

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

HP24-211 HEATING CAPACITY WITH CH16-21FF INDOOR COIL UNIT

Indoor Coil Air Volume (cfm) 70°F db	Air Temperature Entering Outdoor Coil (°F)									
	65		45		25		5		-15	
	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)
650	22,800	1505	17,400	1310	11,900	1120	7800	900	4000	675
725	23,000	1485	17,600	1290	12,100	1095	8000	880	4200	655

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

HP24-211 HEATING PERFORMANCE at 650 cfm Indoor Coil Air Volume (C16-21FF/FC or CR16-21FF)

*Outdoor Temperature (°F)	Compressor Motor Watts Input	Total Output (Btuh)
65	1540	22,500
60	1490	21,200
55	1440	19,900
50	1385	18,600
47	1355	17,800
45	1335	17,200
40	1290	15,600
35	1240	14,100
30	1185	12,900
25	1135	11,800
20	1080	10,600
17	1045	9900
15	1025	9600
10	965	8600
5	910	7700
0	855	6700
-5	795	5800
-10	740	4900
-15	685	3900
-20	630	3000

*Outdoor temperature at 70% relative humidity. Indoor temperature at 70°F.

HP24-211 HEATING PERFORMANCE at 650 cfm Indoor Coil Air Volume (CH16-21FF)

*Outdoor Temperature (°F)	Compressor Motor Watts Input	Total Output (Btuh)
65	1505	22,800
60	1455	21,500
55	1410	20,100
50	1360	18,800
47	1330	18,000
45	1310	17,400
40	1265	15,800
35	1220	14,200
30	1170	13,100
25	1120	11,900
20	1065	10,700
17	1035	10,000
15	1010	9700
10	955	8700
5	900	7800
0	845	6800
-5	790	5900
-10	730	4900
-15	675	4000
-20	620	3000

*Outdoor temperature at 70% relative humidity. Indoor temperature at 70°F.

COOLING AND HEATING RATINGS

NOTE — To determine Sensible Capacity, Leaving Wet and Dry Bulb temperatures not shown in the tables, see Miscellaneous Engineering Data section, page 9.

HP24-211 COOLING CAPACITY WITH CB18-21 OR CBS18-21 INDOOR COIL UNIT

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Outdoor Coil (°F)																							
		85						95						105						115					
		Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)						
				Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)						
			75	80	85				75	80	85				75	80	85				75	80	85		
63	575	18,200	1300	.74	.89	1.00	17,300	1420	.75	.91	1.00	16,500	1530	.77	.94	1.00	15,600	1650	.79	.96	1.00				
	650	18,700	1310	.77	.93	1.00	17,800	1430	.78	.95	1.00	16,900	1550	.80	.97	1.00	16,100	1660	.82	.99	1.00				
	725	19,100	1320	.80	.96	1.00	18,300	1440	.81	.98	1.00	17,400	1560	.83	.99	1.00	16,500	1680	.85	1.00	1.00				
67	575	19,200	1320	.58	.73	.87	18,400	1440	.59	.74	.88	17,500	1560	.60	.76	.90	16,500	1680	.61	.78	.92				
	650	19,800	1330	.60	.75	.90	18,900	1450	.61	.77	.92	17,900	1580	.62	.79	.94	16,900	1700	.63	.81	.97				
	725	20,300	1330	.61	.78	.94	19,300	1460	.62	.80	.96	18,300	1590	.63	.82	.98	17,300	1710	.65	.84	1.00				
71	575	20,200	1330	.43	.58	.73	19,400	1460	.44	.59	.74	18,400	1590	.44	.60	.75	17,400	1720	.44	.61	.77				
	650	20,800	1340	.44	.59	.75	19,900	1470	.44	.60	.76	18,900	1600	.45	.62	.78	17,900	1740	.45	.63	.80				
	725	21,300	1350	.45	.61	.78	20,400	1480	.45	.62	.79	19,400	1610	.45	.63	.81	18,300	1750	.46	.65	.83				

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

HP24-211 COOLING CAPACITY WITH C16-28FF/FC INDOOR COIL UNIT

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Outdoor Coil (°F)																							
		85						95						105						115					
		Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)						
				Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)						
			75	80	85				75	80	85				75	80	85				75	80	85		
63	650	20,000	1330	.76	.92	1.00	19,100	1450	.77	.94	1.00	18,100	1580	.79	.97	1.00	17,200	1710	.81	.99	1.00				
	725	20,500	1340	.79	.95	1.00	19,500	1460	.80	.97	1.00	18,500	1590	.82	.99	1.00	17,600	1720	.84	1.00	1.00				
67	650	21,000	1340	.59	.74	.89	20,100	1480	.60	.76	.91	19,100	1610	.61	.78	.93	18,100	1740	.62	.80	.96				
	725	21,500	1350	.61	.77	.93	20,600	1480	.62	.79	.95	19,500	1620	.63	.81	.97	18,500	1760	.64	.83	1.00				
71	650	22,000	1350	.44	.58	.75	21,000	1490	.44	.59	.76	20,000	1630	.44	.61	.77	19,000	1780	.45	.62	.79				
	725	22,600	1360	.44	.60	.77	21,600	1500	.45	.61	.78	20,500	1640	.45	.63	.80	19,400	1790	.45	.64	.82				

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

HP24-211 HEATING CAPACITY WITH CB18-21 OR CBS18-21 INDOOR COIL UNIT

Indoor Coil Air Volume (cfm) 70°F db	Air Temperature Entering Outdoor Coil (°F)									
	65		45		25		5		-15	
	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)
575	22,300	1540	16,900	1340	11,500	1145	7400	925	3700	700
650	22,600	1520	17,200	1320	11,700	1125	7600	905	3900	680
725	22,800	1500	17,400	1300	12,000	1105	7900	885	4100	660

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

HP24-211 HEATING CAPACITY WITH C16-28FF/FC OR CR16-28FF INDOOR COIL UNIT

Indoor Coil Air Volume (cfm) 70°F db	Air Temperature Entering Outdoor Coil (°F)									
	65		45		25		5		-15	
	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)
650	22,500	1545	17,200	1340	11,800	1135	7700	910	3900	685
725	22,700	1525	17,400	1315	12,000	1115	7900	890	4100	665

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

HP24-211 HEATING PERFORMANCE at 650 cfm Indoor Coil Air Volume (CB18-21 or CBS18-21)

*Outdoor Temperature (°F)	Compressor Motor Watts Input	Total Output (Btuh)
65	1520	22,600
60	1470	21,200
55	1420	19,900
50	1370	18,600
47	1340	17,800
45	1320	17,200
40	1275	15,600
35	1230	14,100
30	1175	12,900
25	1125	11,700
20	1070	10,600
17	1040	9900
15	1015	9500
10	960	8600
5	905	7600
0	850	6700
-5	790	5800
-10	735	4800
-15	680	3900
-20	625	3000

*Outdoor temperature at 70% relative humidity. Indoor temperature at 70°F.

HP24-211 HEATING PERFORMANCE at 650 cfm Indoor Coil Air Volume (C16-28FF/FC or CR16-28FF)

*Outdoor Temperature (°F)	Compressor Motor Watts Input	Total Output (Btuh)
65	1545	22,500
60	1495	21,200
55	1440	19,900
50	1390	18,600
47	1360	17,800
45	1340	17,200
40	1290	15,600
35	1245	14,100
30	1190	12,900
25	1135	11,800
20	1080	10,600
17	1045	9900
15	1025	9600
10	965	8600
5	910	7700
0	855	6700
-5	795	5800
-10	740	4900
-15	685	3900
-20	630	3000

*Outdoor temperature at 70% relative humidity. Indoor temperature at 70°F.

COOLING AND HEATING RATINGS

NOTE — To determine Sensible Capacity, Leaving Wet and Dry Bulb temperatures not shown in the tables, see Miscellaneous Engineering Data section, page 9.

HP24-211 COOLING CAPACITY WITH C16-31FF/FC INDOOR COIL UNIT

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Outdoor Coil (°F)																							
		85						95						105						115					
		Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)						
				75	80	85			75	80	85			75	80	85			75	80	85				
63	650	19,300	1320	.77	.93	1.00	18,400	1440	.78	.95	1.00	17,500	1560	.80	.97	1.00	16,500	1680	.82	.99	1.00				
	725	19,800	1330	.79	.96	1.00	18,900	1450	.81	.98	1.00	17,900	1580	.83	1.00	1.00	17,000	1700	.85	1.00	1.00				
67	650	20,600	1340	.59	.75	.90	19,600	1470	.60	.76	.92	18,600	1590	.61	.78	.94	17,600	1720	.63	.81	.96				
	725	21,000	1340	.61	.77	.93	20,000	1470	.62	.79	.95	19,000	1610	.63	.82	.98	17,900	1740	.65	.84	1.00				
71	650	21,800	1350	.44	.59	.75	20,800	1490	.44	.60	.76	19,800	1630	.44	.61	.77	18,700	1770	.45	.62	.79				
	725	22,300	1360	.44	.60	.77	21,300	1500	.45	.62	.78	20,200	1640	.45	.63	.80	19,100	1780	.46	.65	.82				

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

HP24-211 HEATING CAPACITY WITH C16-31FF/FC INDOOR COIL UNIT

Indoor Coil Air Volume (cfm) 70°F db	Air Temperature Entering Outdoor Coil (°F)									
	65		45		25		5		-15	
	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)
650	22,900	1495	17,400	1305	11,800	1115	7700	900	3900	680
725	23,100	1475	17,600	1285	12,000	1095	7900	880	4100	655

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

HP24-211 HEATING PERFORMANCE at 650 cfm Indoor Coil Air Volume (C16-31FF/FC)

*Outdoor Temperature (°F)	Compressor Motor Watts Input	Total Output (Btuh)
65	1495	22,900
60	1450	21,500
55	1400	20,200
50	1350	18,800
47	1325	18,000
45	1305	17,400
40	1260	15,700
35	1220	14,100
30	1170	12,900
25	1115	11,800
20	1065	10,600
17	1035	9900
15	1015	9600
10	960	8600
5	900	7700
0	845	6700
-5	490	5800
-10	735	4900
-15	680	3900
-20	620	3000

*Outdoor temperature at 70% relative humidity. Indoor temperature at 70°F.

COOLING AND HEATING RATINGS

NOTE — To determine Sensible Capacity, Leaving Wet and Dry Bulb temperatures not shown in the tables, see Miscellaneous Engineering Data section, page 9.

HP24-211 COOLING CAPACITY WITH CB19-21 OR CBH19-21 INDOOR COIL UNIT

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Outdoor Coil (°F)																							
		85						95						105						115					
		Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)						
				Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)						
75	80	85	75	80	85	75	80	85	75	80	85	75	80	85	75	80	85								
63	575	19,400	1320	.75	.91	1.00	18,500	1440	.77	.93	1.00	17,600	1570	.78	.95	1.00	16,600	1690	.80	.98	1.00				
	650	20,000	1330	.78	.94	1.00	19,000	1450	.80	.97	1.00	18,100	1580	.81	.99	1.00	17,100	1710	.83	1.00	1.00				
	725	20,500	1340	.81	.98	1.00	19,600	1460	.82	1.00	1.00	18,600	1600	.84	1.00	1.00	17,700	1730	.86	1.00	1.00				
67	575	20,600	1340	.59	.73	.88	19,700	1470	.60	.75	.90	18,700	1600	.61	.77	.92	17,600	1720	.62	.79	.94				
	650	21,200	1340	.61	.76	.91	20,200	1480	.62	.78	.93	19,100	1610	.63	.80	.96	18,000	1740	.64	.83	.98				
	725	21,600	1350	.62	.79	.95	20,600	1480	.63	.81	.97	19,500	1620	.64	.84	1.00	18,400	1750	.66	.87	1.00				
71	575	21,900	1350	.44	.58	.73	20,900	1490	.44	.59	.75	19,800	1630	.45	.60	.76	18,700	1770	.45	.61	.78				
	650	22,500	1360	.45	.60	.76	21,400	1500	.45	.61	.77	20,300	1640	.45	.62	.79	19,200	1780	.46	.64	.81				
	725	23,000	1360	.45	.62	.79	21,900	1500	.46	.63	.80	20,700	1650	.46	.64	.82	19,600	1800	.47	.66	.84				

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

RFCIII HP24-211 COOLING CAPACITY WITH CB19-21 OR CBH19-21 INDOOR COIL UNIT

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Outdoor Coil (°F)																							
		85						95						105						115					
		Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)						
				Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)						
75	80	85	75	80	85	75	80	85	75	80	85	75	80	85	75	80	85								
63	575	18,400	1310	.75	.91	1.00	18,500	1440	.77	.93	1.00	17,600	1570	.78	.95	1.00	16,600	1690	.80	.98	1.00				
	650	19,000	1320	.78	.94	1.00	19,000	1450	.80	.97	1.00	18,100	1580	.81	.99	1.00	17,100	1710	.83	1.00	1.00				
	725	19,500	1330	.81	.98	1.00	19,600	1460	.82	1.00	1.00	18,600	1600	.84	1.00	1.00	17,700	1730	.86	1.00	1.00				
67	575	19,600	1330	.59	.73	.88	19,700	1470	.60	.75	.90	18,700	1600	.61	.77	.92	17,600	1720	.62	.79	.94				
	650	20,200	1330	.61	.76	.91	20,200	1480	.62	.78	.93	19,100	1610	.63	.80	.96	18,000	1740	.64	.83	.98				
	725	20,600	1340	.62	.79	.95	20,600	1480	.63	.81	.97	19,500	1620	.64	.84	1.00	18,400	1750	.66	.87	1.00				
71	575	20,900	1340	.44	.58	.73	20,900	1490	.44	.59	.75	19,800	1630	.45	.60	.76	18,700	1770	.45	.61	.78				
	650	21,500	1350	.45	.60	.76	21,400	1500	.45	.61	.77	20,300	1640	.45	.62	.79	19,200	1780	.46	.64	.81				
	725	22,000	1350	.45	.62	.79	21,900	1500	.46	.63	.80	20,700	1650	.46	.64	.82	19,600	1800	.47	.66	.84				

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

HP24-211 HEATING CAPACITY WITH CB19-21 OR CBH19-21 INDOOR COIL UNIT

Indoor Coil Air Volume (cfm) 70°F db	Air Temperature Entering Outdoor Coil (°F)									
	65		45		25		5		-15	
	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)
575	22,800	1440	17,200	1275	11,600	1105	7400	905	3700	685
650	23,000	1420	17,400	1250	11,800	1085	7700	880	3900	665
725	23,200	1400	17,700	1230	12,000	1065	7900	860	4100	640

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

HP24-211 HEATING PERFORMANCE at 650 cfm Indoor Coil Air Volume (CB19-21 or CBH19-21)

*Outdoor Temperature (°F)	Compressor Motor Watts Input	Total Output (Btuh)
65	1420	23,000
60	1375	21,600
55	1335	20,300
50	1295	18,900
47	1270	18,100
45	1250	17,400
40	1215	15,800
35	1175	14,200
30	1130	13,000
25	1085	11,800
20	1040	10,600
17	1015	9900
15	990	9500
10	935	8600
5	880	7700
0	825	6700
-5	770	5800
-10	720	4800
-15	665	3900
-20	610	3000

*Outdoor temperature at 70% relative humidity. Indoor temperature at 70°F.

COOLING AND HEATING RATINGS

NOTE — To determine Sensible Capacity, Leaving Wet and Dry Bulb temperatures not shown in the tables, see Miscellaneous Engineering Data section, page 9.

HP24-261 COOLING CAPACITY WITH C16-31FF/FC OR CR16-31FF INDOOR COIL UNIT

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Outdoor Coil (°F)																			
		85					95					105					115				
		Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)		
				75	80	85			75	80	85			75	80	85			75	80	85
63	875	24,200	1770	.78	.94	1.00	23,100	1920	.79	.96	1.00	21,800	2070	.81	.98	1.00	20,700	2210	.83	1.00	1.00
	975	24,700	1780	.81	.97	1.00	23,600	1930	.82	.99	1.00	22,400	2080	.84	1.00	1.00	21,300	2240	.86	1.00	1.00
67	875	25,800	1800	.60	.76	.91	24,500	1960	.61	.78	.93	23,200	2120	.62	.80	.95	21,900	2270	.64	.83	.98
	975	26,300	1810	.62	.79	.95	25,000	1970	.63	.81	.97	23,700	2130	.64	.83	.99	22,200	2290	.66	.86	1.00
71	875	27,300	1830	.44	.60	.76	26,100	1990	.45	.61	.77	24,700	2170	.45	.62	.79	23,300	2340	.46	.64	.81
	975	27,900	1830	.45	.61	.78	26,600	2010	.45	.63	.80	25,200	2180	.46	.64	.82	23,700	2360	.46	.66	.84

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

HP24-261 COOLING CAPACITY WITH CH16-31FF INDOOR COIL UNIT

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Outdoor Coil (°F)																			
		85					95					105					115				
		Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)		
				75	80	85			75	80	85			75	80	85			75	80	85
63	875	24,500	1770	.78	.94	1.00	23,200	1920	.80	.97	1.00	22,000	2070	.81	.99	1.00	20,800	2220	.83	1.00	1.00
	975	25,000	1780	.81	.97	1.00	23,700	1940	.83	.99	1.00	22,600	2090	.84	1.00	1.00	21,400	2250	.86	1.00	1.00
67	875	26,000	1800	.61	.76	.91	24,800	1960	.61	.78	.93	23,400	2120	.63	.80	.96	22,000	2280	.64	.83	.98
	975	26,600	1810	.62	.79	.95	25,200	1970	.63	.81	.97	23,800	2140	.64	.84	1.00	22,500	2300	.66	.86	1.00
71	875	27,700	1830	.44	.60	.76	26,400	2000	.45	.61	.77	25,000	2180	.45	.62	.79	23,600	2350	.46	.64	.81
	975	28,200	1840	.45	.61	.78	26,900	2020	.45	.63	.80	25,500	2190	.46	.64	.82	24,000	2370	.46	.66	.84

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

HP24-261 HEATING CAPACITY WITH C16-31FF/FC OR CR16-31FF INDOOR COIL UNIT

Indoor Coil Air Volume (cfm) 70°F db	Air Temperature Entering Outdoor Coil (°F)									
	65		45		25		5		-15	
	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)
875	30,800	2015	22,900	1730	14,900	1440	9700	1160	5000	870
975	31,000	1990	23,200	1700	15,200	1410	10,000	1130	5200	840

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

HP24-261 HEATING CAPACITY WITH CH16-31FF INDOOR COIL UNIT

Indoor Coil Air Volume (cfm) 70°F db	Air Temperature Entering Outdoor Coil (°F)									
	65		45		25		5		-15	
	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)
875	31,000	1985	23,100	1705	15,000	1425	9800	1150	5000	865
975	31,300	1960	23,300	1680	15,300	1400	10,100	1120	5300	835

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

HP24-261 HEATING PERFORMANCE at 875 cfm Indoor Coil Air Volume (C16-31FF/FC or CR16-31FF)

*Outdoor Temperature (°F)	Compressor Motor Watts Input	Total Output (Btuh)
65	2015	30,800
60	1945	28,900
55	1875	27,000
50	1800	25,100
47	1760	24,000
45	1730	22,900
40	1655	20,400
35	1580	17,800
30	1510	16,400
25	1440	14,900
20	1370	13,500
17	1330	12,600
15	1300	12,100
10	1230	10,900
5	1160	9700
0	1085	8500
-5	1015	7400
-10	940	6200
-15	870	5000
-20	800	3800

*Outdoor temperature at 70% relative humidity. Indoor temperature at 70°F.

HP24-261 HEATING PERFORMANCE at 875 cfm Indoor Coil Air Volume (CH16-31FF)

*Outdoor Temperature (°F)	Compressor Motor Watts Input	Total Output (Btuh)
65	1985	31,000
60	1915	29,100
55	1850	27,200
50	1780	25,300
47	1735	24,100
45	1705	23,100
40	1635	20,500
35	1560	17,900
30	1495	16,500
25	1425	15,000
20	1360	13,600
17	1320	12,700
15	1290	12,200
10	1220	11,000
5	1150	9800
0	1075	8600
-5	1005	7400
-10	935	6200
-15	865	5000
-20	790	3800

*Outdoor temperature at 70% relative humidity. Indoor temperature at 70°F.

COOLING AND HEATING RATINGS

NOTE — To determine Sensible Capacity, Leaving Wet and Dry Bulb temperatures not shown in the tables, see Miscellaneous Engineering Data section, page 9.

HP24-261 COOLING CAPACITY WITH C16-41FF/FC OR CR16-41FF INDOOR COIL UNIT

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Outdoor Coil (°F)																							
		85						95						105						115					
		Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)						
				75	80	85			75	80	85			75	80	85			75	80	85				
63	875	24,800	1780	.78	.94	1.00	23,600	1930	.80	.97	1.00	22,300	2080	.81	.99	1.00	21,100	2230	.83	1.00	1.00				
	975	25,300	1790	.81	.98	1.00	24,100	1950	.83	.99	1.00	23,000	2100	.84	1.00	1.00	21,800	2270	.86	1.00	1.00				
67	875	26,300	1810	.61	.76	.91	25,000	1970	.62	.78	.93	23,700	2130	.63	.80	.96	22,300	2290	.64	.83	.98				
	975	26,900	1820	.62	.79	.95	25,500	1980	.63	.81	.97	24,200	2150	.65	.84	1.00	22,700	2310	.66	.87	1.00				
71	875	27,900	1840	.45	.60	.76	26,600	2010	.45	.61	.77	25,200	2190	.45	.62	.79	23,800	2360	.46	.64	.81				
	975	28,500	1840	.45	.61	.79	27,100	2020	.46	.63	.80	25,700	2200	.46	.64	.82	24,200	2380	.47	.66	.84				

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

HP24-261 COOLING CAPACITY WITH CB18-26 OR CBS18-26 INDOOR COIL UNIT

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Outdoor Coil (°F)																							
		85						95						105						115					
		Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)						
				75	80	85			75	80	85			75	80	85			75	80	85				
63	775	23,900	1760	.76	.91	1.00	22,800	1910	.77	.93	1.00	21,600	2060	.79	.96	1.00	20,400	2200	.81	.99	1.00				
	875	24,600	1770	.78	.95	1.00	23,400	1930	.80	.97	1.00	22,200	2080	.82	.99	1.00	20,900	2230	.84	1.00	1.00				
	975	25,000	1790	.81	.98	1.00	24,000	1940	.83	1.00	1.00	22,800	2100	.85	1.00	1.00	21,600	2260	.87	1.00	1.00				
67	775	25,500	1790	.59	.74	.88	24,200	1950	.60	.76	.90	23,000	2110	.61	.78	.92	21,600	2260	.62	.80	.95				
	875	26,100	1800	.61	.77	.92	24,800	1970	.62	.79	.94	23,500	2130	.63	.81	.96	22,100	2280	.64	.84	.99				
	975	26,600	1810	.63	.80	.95	25,300	1980	.64	.82	.98	23,900	2140	.65	.84	1.00	22,500	2300	.66	.87	1.00				
71	775	27,000	1820	.44	.58	.74	25,700	1990	.44	.59	.75	24,400	2160	.45	.60	.76	23,000	2330	.45	.62	.78				
	875	27,700	1830	.45	.60	.76	26,400	2000	.45	.61	.78	25,000	2180	.45	.63	.79	23,600	2350	.46	.64	.81				
	975	28,300	1840	.45	.62	.79	26,900	2020	.46	.63	.80	25,500	2190	.46	.65	.82	24,000	2370	.47	.66	.84				

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

HP24-261 HEATING CAPACITY WITH C16-41FF/FC OR CR16-41FF INDOOR COIL UNIT

Indoor Coil Air Volume (cfm) 70°F db	Air Temperature Entering Outdoor Coil (°F)									
	65		45		25		5		-15	
	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)
875	31,100	1980	23,100	1705	15,000	1430	9800	1150	5000	865
975	31,300	1950	23,400	1675	15,300	1400	10,000	1125	5200	840

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

HP24-261 HEATING CAPACITY WITH CB18-26 OR CBS18-26 INDOOR COIL UNIT

Indoor Coil Air Volume (cfm) 70°F db	Air Temperature Entering Outdoor Coil (°F)									
	65		45		25		5		-15	
	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)
775	30,500	2010	22,600	1735	14,500	1455	9300	1180	4600	890
875	30,800	1980	22,900	1705	14,800	1425	9600	1150	4900	865
975	31,100	1955	23,200	1680	15,100	1400	9900	1125	5200	835

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

HP24-261 HEATING PERFORMANCE at 875 cfm Indoor Coil Air Volume (C16-41FF/FC or CR16-41FF)

*Outdoor Temperature (°F)	Compressor Motor Watts Input	Total Output (Btuh)
65	1980	31,100
60	1910	29,100
55	1840	27,200
50	1775	25,300
47	1735	24,200
45	1705	23,100
40	1630	20,500
35	1560	17,900
30	1495	16,500
25	1430	15,000
20	1360	13,500
17	1325	12,700
15	1295	12,200
10	1220	11,000
5	1150	9800
0	1080	8600
-5	1010	7400
-10	935	6200
-15	865	5000
-20	795	3800

*Outdoor temperature at 70% relative humidity. Indoor temperature at 70°F.

HP24-261 HEATING PERFORMANCE at 875 cfm Indoor Coil Air Volume (CB18-26 or CBS18-26)

*Outdoor Temperature (°F)	Compressor Motor Watts Input	Total Output (Btuh)
65	1980	30,800
60	1910	28,900
55	1845	27,000
50	1775	25,100
47	1735	23,900
45	1705	22,900
40	1630	20,300
35	1560	17,700
30	1495	16,300
25	1425	14,800
20	1360	13,400
17	1320	12,500
15	1295	12,000
10	1220	10,800
5	1150	9600
0	1080	8500
-5	1005	7300
-10	935	6100
-15	865	4900
-20	795	3700

*Outdoor temperature at 70% relative humidity. Indoor temperature at 70°F.

COOLING AND HEATING RATINGS

NOTE — To determine Sensible Capacity, Leaving Wet and Dry Bulb temperatures not shown in the tables, see Miscellaneous Engineering Data section, page 9.

HP24-261 COOLING CAPACITY WITH CH16-41FF INDOOR COIL UNIT

En-ter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Outdoor Coil (°F)																							
		85						95						105						115					
		Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)						
				75	80	85			75	80	85			75	80	85			75	80	85				
63	875	25,200	1790	.79	.95	1.00	24,000	1940	.80	.98	1.00	22,800	2100	.82	1.00	1.00	21,500	2260	.84	1.00	1.00				
	975	25,800	1800	.81	.98	1.00	24,600	1960	.83	1.00	1.00	23,400	2120	.85	1.00	1.00	22,200	2290	.87	1.00	1.00				
67	875	26,900	1820	.61	.77	.92	25,500	1980	.62	.79	.94	24,100	2150	.63	.81	.97	22,700	2310	.64	.84	.99				
	975	27,300	1830	.63	.80	.96	25,900	2000	.64	.82	.98	24,500	2160	.65	.85	1.00	23,100	2330	.66	.87	1.00				
71	875	28,600	1850	.45	.60	.76	27,200	2020	.45	.61	.78	25,800	2210	.46	.63	.79	24,300	2380	.46	.64	.81				
	975	29,200	1850	.45	.62	.79	27,800	2040	.46	.63	.80	26,300	2220	.46	.65	.82	24,700	2400	.47	.67	.85				

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

HP24-261 HEATING CAPACITY WITH CH16-41FF INDOOR COIL UNIT

Indoor Coil Air Volume (cfm) 70°F db	Air Temperature Entering Outdoor Coil (°F)									
	65		45		25		5		-15	
	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)
875	31,400	1925	23,400	1665	15,200	1405	9900	1135	5000	855
975	31,700	1895	23,600	1635	15,400	1375	10,100	1110	5300	825

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

HP24-261 HEATING PERFORMANCE at 875 cfm Indoor Coil Air Volume (CH16-41FF)

*Outdoor Temperature (°F)	Compressor Motor Watts Input	Total Output (Btuh)
65	1925	31,400
60	1860	29,500
55	1795	27,500
50	1730	25,600
47	1690	24,400
45	1665	23,400
40	1595	20,800
35	1530	18,100
30	1465	16,600
25	1405	15,200
20	1345	13,700
17	1305	12,800
15	1275	12,300
10	1205	11,100
5	1135	9900
0	1065	8700
-5	995	7500
-10	925	6200
-15	855	5000
-20	785	3800

*Outdoor temperature at 70% relative humidity. Indoor temperature at 70°F.

COOLING AND HEATING RATINGS

NOTE — To determine Sensible Capacity, Leaving Wet and Dry Bulb temperatures not shown in the tables, see Miscellaneous Engineering Data section, page 9.

HP24-261 COOLING CAPACITY WITH CB19-26 OR CBH19-26 INDOOR COIL UNIT

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Outdoor Coil (°F)																							
		85						95						105						115					
		Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)						
				Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)						
75	80	85	75	80	85	75	80	85	75	80	85	75	80	85	75	80	85								
63	775	24,400	1770	.77	.93	1.00	23,200	1920	.78	.95	1.00	22,000	2070	.80	.97	1.00	20,800	2210	.82	1.00	1.00				
	875	25,000	1780	.79	.96	1.00	23,800	1940	.81	.99	1.00	22,600	2090	.83	1.00	1.00	21,500	2250	.85	1.00	1.00				
	975	25,500	1790	.82	.99	1.00	24,400	1950	.84	1.00	1.00	23,300	2120	.86	1.00	1.00	22,100	2280	.88	1.00	1.00				
67	775	25,900	1800	.60	.75	.90	24,600	1960	.61	.77	.91	23,300	2120	.62	.79	.93	21,900	2270	.63	.81	.96				
	875	26,500	1810	.62	.78	.93	25,200	1970	.63	.80	.95	23,800	2140	.64	.83	.98	22,400	2290	.65	.85	1.00				
	975	27,000	1820	.64	.81	.97	25,600	1990	.65	.84	.99	24,300	2150	.66	.86	1.00	22,800	2320	.67	.89	1.00				
71	775	27,400	1830	.45	.59	.75	26,100	2000	.45	.60	.76	24,700	2170	.45	.61	.78	23,300	2340	.46	.63	.79				
	875	28,100	1840	.45	.61	.77	26,700	2010	.46	.62	.79	25,300	2190	.46	.64	.81	23,900	2360	.47	.65	.82				
	975	28,600	1850	.46	.63	.80	27,200	2020	.46	.64	.82	25,800	2200	.47	.66	.84	24,300	2380	.47	.68	.86				

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

RFCIII HP24-261 COOLING CAPACITY WITH CB19-26 OR CBH19-26 INDOOR COIL UNIT

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Outdoor Coil (°F)																							
		85						95						105						115					
		Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)						
				Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)						
75	80	85	75	80	85	75	80	85	75	80	85	75	80	85	75	80	85								
63	775	23,800	1750	.77	.93	1.00	23,200	1920	.78	.95	1.00	22,000	2070	.80	.97	1.00	20,800	2210	.82	1.00	1.00				
	875	24,400	1760	.79	.96	1.00	23,800	1940	.81	.99	1.00	22,600	2090	.83	1.00	1.00	21,500	2250	.85	1.00	1.00				
	975	26,100	1770	.82	.99	1.00	24,400	1950	.84	1.00	1.00	23,300	2120	.86	1.00	1.00	22,100	2280	.88	1.00	1.00				
67	775	25,300	1780	.60	.75	.90	24,600	1960	.61	.77	.91	23,300	2120	.62	.79	.93	21,900	2270	.63	.81	.96				
	875	25,900	1790	.62	.78	.93	25,200	1970	.63	.80	.95	23,800	2140	.64	.83	.98	22,400	2290	.65	.85	1.00				
	975	26,400	1800	.64	.81	.97	25,600	1990	.65	.84	.99	24,300	2150	.66	.86	1.00	22,800	2320	.67	.89	1.00				
71	775	26,800	1810	.45	.59	.75	26,100	2000	.45	.60	.76	24,700	2170	.45	.61	.78	23,300	2340	.46	.63	.79				
	875	27,500	1820	.45	.61	.77	26,700	2010	.46	.62	.79	25,300	2190	.46	.64	.81	23,900	2360	.47	.65	.82				
	975	28,000	1830	.46	.63	.80	27,200	2020	.46	.64	.82	25,800	2200	.47	.66	.84	24,300	2380	.47	.68	.86				

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

HP24-261 HEATING CAPACITY WITH CB19-26 OR CBH19-26 INDOOR COIL UNIT

Indoor Coil Air Volume (cfm) 70°F db	Air Temperature Entering Outdoor Coil (°F)									
	65		45		25		5		-15	
	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)
775	30,600	1945	22,600	1685	14,400	1430	9300	1160	4600	880
875	31,000	1915	23,000	1660	14,800	1400	9600	1135	4900	850
975	31,200	1890	23,200	1630	15,000	1375	9800	1105	5100	825

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

HP24-261 HEATING PERFORMANCE at 875 cfm Indoor Coil Air Volume (CB19-26 or CBH19-26)

*Outdoor Temperature (°F)	Compressor Motor Watts Input	Total Output (Btuh)
65	1915	31,000
60	1850	29,000
55	1790	27,100
50	1725	25,200
47	1685	24,000
45	1660	23,000
40	1590	20,400
35	1525	17,800
30	1460	16,300
25	1400	14,800
20	1340	13,300
17	1300	12,400
15	1275	11,900
10	1205	10,800
5	1135	9600
0	1060	8400
-5	990	7200
-10	920	6100
-15	850	4900
-20	780	3700

*Outdoor temperature at 70% relative humidity. Indoor temperature at 70°F.

COOLING AND HEATING RATINGS

NOTE — To determine Sensible Capacity, Leaving Wet and Dry Bulb temperatures not shown in the tables, see Miscellaneous Engineering Data section, page 9.

HP24-311 COOLING CAPACITY WITH CB18-31 OR CBS18-31 INDOOR COIL UNIT

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Outdoor Coil (°F)																							
		85						95						105						115					
		Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)						
				Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)						
75	80	85	75	80	85	75	80	85	75	80	85	75	80	85											
63	975	29,600	2340	.75	.90	1.00	28,300	2520	.76	.92	1.00	26,700	2700	.78	.95	1.00	25,100	2860	.80	.98	1.00				
	1075	30,300	2360	.77	.93	1.00	28,800	2540	.79	.95	1.00	27,200	2720	.81	.98	1.00	25,700	2900	.83	1.00	1.00				
	1175	30,900	2370	.79	.95	1.00	29,300	2560	.81	.98	1.00	27,700	2750	.83	1.00	1.00	26,300	2930	.85	1.00	1.00				
67	975	31,600	2390	.59	.73	.87	30,000	2580	.59	.75	.89	28,400	2770	.60	.77	.91	26,700	2960	.62	.79	.94				
	1075	32,200	2410	.60	.75	.90	30,600	2610	.61	.77	.92	28,900	2800	.62	.79	.95	27,200	2980	.63	.82	.97				
	1175	32,700	2420	.61	.77	.93	31,100	2620	.62	.79	.95	29,400	2820	.63	.82	.98	27,500	3010	.65	.84	1.00				
71	975	33,400	2440	.43	.58	.73	31,800	2650	.44	.59	.74	30,100	2850	.44	.60	.76	28,400	3050	.45	.61	.77				
	1075	34,000	2460	.44	.59	.75	32,400	2670	.44	.60	.76	30,700	2880	.45	.62	.78	28,900	3090	.45	.63	.80				
	1175	34,700	2470	.45	.60	.77	32,900	2690	.45	.62	.79	31,200	2900	.45	.63	.80	29,400	3110	.46	.65	.82				

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

HP24-311 COOLING CAPACITY WITH C16-41FF/FC OR CR16-41FF INDOOR COIL UNIT

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Outdoor Coil (°F)																							
		85						95						105						115					
		Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)						
				Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)						
75	80	85	75	80	85	75	80	85	75	80	85	75	80	85											
63	1075	30,400	2360	.78	.94	1.00	28,900	2550	.79	.96	1.00	27,400	2720	.81	.98	1.00	25,900	2900	.83	1.00	1.00				
	1175	31,000	2380	.80	.96	1.00	29,400	2570	.81	.98	1.00	28,000	2750	.83	1.00	1.00	26,400	2940	.85	1.00	1.00				
67	1075	32,300	2410	.60	.76	.91	30,700	2610	.61	.78	.93	29,000	2800	.62	.80	.95	27,300	2990	.64	.82	.98				
	1175	32,900	2430	.62	.78	.94	31,200	2630	.63	.80	.96	29,500	2820	.64	.82	.99	27,700	3010	.65	.85	1.00				
71	1075	34,200	2460	.44	.59	.75	32,600	2670	.45	.61	.77	30,900	2890	.45	.62	.79	29,100	3090	.46	.63	.80				
	1175	34,800	2480	.45	.61	.78	33,100	2690	.45	.62	.79	31,300	2910	.46	.64	.81	29,500	3120	.46	.65	.83				

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

HP24-311 HEATING CAPACITY WITH CB18-31 OR CBS18-31 INDOOR COIL UNIT

Indoor Coil Air Volume (cfm) 70°F db	Air Temperature Entering Outdoor Coil (°F)									
	65		45		25		5		-15	
	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)
975	36,900	2530	27,800	2135	18,600	1745	12,100	1385	6000	1050
1075	37,200	2505	28,100	2110	18,900	1720	12,300	1360	6300	1020
1175	37,500	2480	28,400	2085	19,200	1690	12,700	1335	6600	995

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

HP24-311 HEATING CAPACITY WITH C16-41FF/FC OR CR16-41FF INDOOR COIL UNIT

Indoor Coil Air Volume (cfm) 70°F db	Air Temperature Entering Outdoor Coil (°F)									
	65		45		25		5		-15	
	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)
1075	37,600	2470	28,500	2085	19,200	1705	12,600	1355	6400	1015
1175	38,000	2440	28,800	2060	19,500	1680	12,900	1330	6700	990

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

HP24-311 HEATING PERFORMANCE at 1075 cfm Indoor Coil Air Volume (CB18-31 or CBS18-31)

*Outdoor Temperature (°F)	Compressor Motor Watts Input	Total Output (Btuh)
65	2505	37,200
60	2405	35,000
55	2305	32,700
50	2210	30,500
47	2150	29,200
45	2110	28,100
40	2010	25,300
35	1910	22,500
30	1815	20,700
25	1720	18,900
20	1620	17,100
17	1565	16,000
15	1530	15,400
10	1445	13,800
5	1360	12,300
0	1275	10,800
-5	1190	9300
-10	1105	7800
-15	1020	6300
-20	935	4800

*Outdoor temperature at 70% relative humidity. Indoor temperature at 70°F.

HP24-311 HEATING PERFORMANCE at 1075 cfm Indoor Coil Air Volume (C16-41FF/FC or CR16-41FF)

*Outdoor Temperature (°F)	Compressor Motor Watts Input	Total Output (Btuh)
65	2470	37,600
60	2375	35,400
55	2280	33,200
50	2185	31,000
47	2125	29,600
45	2085	28,500
40	1990	25,700
35	1895	22,900
30	1800	21,000
25	1705	19,200
20	1610	17,400
17	1555	16,200
15	1520	15,600
10	1440	14,100
5	1355	12,600
0	1270	11,000
-5	1185	9500
-10	1100	7900
-15	1015	6400
-20	935	4900

*Outdoor temperature at 70% relative humidity. Indoor temperature at 70°F.

COOLING AND HEATING RATINGS

NOTE — To determine Sensible Capacity, Leaving Wet and Dry Bulb temperatures not shown in the tables, see Miscellaneous Engineering Data section, page 9.

HP24-311 COOLING CAPACITY WITH CH16-41FF INDOOR COIL UNIT

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Outdoor Coil (°F)																							
		85						95						105						115					
		Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)						
				75	80	85			75	80	85			75	80	85			75	80	85				
63	1075	31,100	2380	.78	.94	1.00	29,500	2570	.80	.97	1.00	28,000	2750	.81	.99	1.00	26,400	2940	.83	1.00	1.00				
	1175	31,700	2400	.80	.97	1.00	30,100	2590	.82	.99	1.00	28,600	2780	.84	1.00	1.00	27,100	2980	.86	1.00	1.00				
67	1075	33,100	2430	.61	.76	.91	31,400	2640	.62	.78	.94	29,600	2830	.63	.81	.96	27,800	3020	.64	.83	.99				
	1175	33,500	2450	.62	.79	.94	31,900	2650	.63	.81	.97	30,100	2850	.64	.83	.99	28,300	3050	.66	.86	1.00				
71	1075	35,200	2490	.45	.60	.76	33,500	2700	.45	.61	.77	31,700	2920	.45	.62	.79	29,800	3130	.46	.64	.81				
	1175	35,800	2500	.45	.61	.78	34,000	2720	.45	.62	.80	32,100	2940	.46	.64	.81	30,100	3160	.46	.66	.84				

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

HP24-311 COOLING CAPACITY WITH CB18-41 OR CBS18-41 INDOOR COIL UNIT

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Outdoor Coil (°F)																							
		85						95						105						115					
		Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)						
				75	80	85			75	80	85			75	80	85			75	80	85				
63	975	30,000	2350	.75	.91	1.00	28,600	2530	.77	.93	1.00	27,000	2710	.78	.95	1.00	25,300	2880	.80	.98	1.00				
	1075	30,600	2370	.77	.93	1.00	29,200	2550	.79	.96	1.00	27,500	2730	.81	.98	1.00	26,000	2910	.83	1.00	1.00				
	1175	31,300	2380	.80	.96	1.00	29,600	2570	.81	.98	1.00	28,100	2760	.83	1.00	1.00	26,500	2950	.85	1.00	1.00				
67	975	31,900	2400	.59	.73	.88	30,300	2600	.60	.75	.90	28,700	2790	.61	.77	.92	27,000	2970	.62	.79	.94				
	1075	32,500	2420	.60	.76	.91	30,900	2620	.61	.78	.93	29,200	2810	.62	.80	.95	27,400	3000	.63	.82	.98				
	1175	33,000	2430	.61	.78	.94	31,300	2630	.63	.80	.96	29,600	2830	.64	.82	.99	27,800	3020	.65	.85	1.00				
71	975	33,700	2450	.44	.58	.73	32,100	2660	.44	.59	.75	30,400	2870	.44	.60	.76	28,700	3070	.45	.62	.78				
	1075	34,500	2470	.44	.59	.75	32,700	2680	.45	.61	.77	31,000	2890	.45	.62	.78	29,200	3100	.45	.63	.80				
	1175	35,000	2480	.45	.61	.77	33,300	2700	.45	.62	.79	31,500	2920	.46	.63	.81	29,600	3130	.46	.65	.83				

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

HP24-311 HEATING CAPACITY WITH CH16-41FF INDOOR COIL UNIT

Indoor Coil Air Volume (cfm) 70°F db	Air Temperature Entering Outdoor Coil (°F)									
	65		45		25		5		-15	
	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)
1075	38,000	2420	28,700	2055	19,400	1685	12,700	1340	6500	1010
1175	38,300	2395	29,100	2030	19,700	1660	13,000	1315	6800	985

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

HP24-311 HEATING CAPACITY WITH CB18-41 OR CBS18-41 INDOOR COIL UNIT

Indoor Coil Air Volume (cfm) 70°F db	Air Temperature Entering Outdoor Coil (°F)									
	65		45		25		5		-15	
	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)
975	37,200	2495	28,000	2110	18,700	1730	12,200	1375	6100	1040
1075	37,400	2465	28,300	2085	19,000	1705	12,400	1350	6300	1015
1175	37,800	2440	28,600	2060	19,300	1675	12,700	1325	6700	990

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

HP24-311 HEATING PERFORMANCE at 1075 cfm Indoor Coil Air Volume (CH16-41FF)

*Outdoor Temperature (°F)	Compressor Motor Watts Input	Total Output (Btuh)
65	2420	38,000
60	2330	35,700
55	2240	33,500
50	2145	31,200
47	2090	29,900
45	2055	28,700
40	1960	25,900
35	1870	23,100
30	1780	21,200
25	1685	19,400
20	1595	17,500
17	1545	16,400
15	1510	15,800
10	1425	14,200
5	1340	12,700
0	1260	11,100
-5	1175	9600
-10	1090	8000
-15	1010	6500
-20	925	4900

*Outdoor temperature at 70% relative humidity. Indoor temperature at 70°F.

HP24-311 HEATING PERFORMANCE at 1075 cfm Indoor Coil Air Volume (CB18-41 or CBS18-41)

*Outdoor Temperature (°F)	Compressor Motor Watts Input	Total Output (Btuh)
65	2465	37,400
60	2370	35,200
55	2275	33,000
50	2180	30,800
47	2125	29,400
45	2085	28,300
40	1990	25,500
35	1890	22,700
30	1795	20,900
25	1705	19,000
20	1610	17,200
17	1555	16,100
15	1520	15,500
10	1435	13,900
5	1350	12,400
0	1265	10,900
-5	1185	9400
-10	1100	7900
-15	1015	6300
-20	930	4800

*Outdoor temperature at 70% relative humidity. Indoor temperature at 70°F.

COOLING AND HEATING RATINGS

NOTE — To determine Sensible Capacity, Leaving Wet and Dry Bulb temperatures not shown in the tables, see Miscellaneous Engineering Data section, page 9.

HP24-311 COOLING CAPACITY WITH CB19-31 OR CBH19-31 INDOOR COIL UNIT

En-ter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Outdoor Coil (°F)																							
		85						95						105						115					
		Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)						
				Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)						
75	80	85	75	80	85	75	80	85	75	80	85	75	80	85	75	80	85								
63	975	30,900	2370	.77	.93	1.00	29,400	2560	.79	.95	1.00	27,900	2750	.80	.98	1.00	26,300	2930	.82	1.00	1.00				
	1075	31,600	2390	.79	.96	1.00	30,100	2590	.81	.98	1.00	28,600	2780	.83	1.00	1.00	27,000	2970	.85	1.00	1.00				
	1175	32,200	2410	.82	.98	1.00	30,700	2610	.83	1.00	1.00	29,200	2810	.85	1.00	1.00	27,700	3010	.87	1.00	1.00				
67	975	32,700	2420	.60	.76	.90	31,100	2620	.61	.77	.92	29,400	2820	.62	.80	.94	27,600	3010	.63	.82	.97				
	1075	33,300	2440	.62	.78	.93	31,600	2640	.63	.80	.95	29,900	2840	.64	.83	.98	28,100	3030	.65	.85	1.00				
	1175	33,800	2450	.63	.81	.96	32,100	2660	.64	.83	.99	30,300	2860	.65	.86	1.00	28,500	3060	.67	.88	1.00				
71	975	34,500	2470	.45	.59	.75	32,900	2680	.46	.60	.77	31,100	2900	.46	.62	.78	29,300	3110	.46	.63	.80				
	1075	35,200	2490	.45	.61	.77	33,500	2710	.46	.62	.79	31,700	2920	.46	.64	.81	29,800	3140	.47	.65	.83				
	1175	35,800	2500	.46	.62	.80	34,000	2720	.46	.64	.81	32,200	2950	.47	.65	.83	30,200	3160	.47	.67	.85				

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

RFCIII HP24-311 COOLING CAPACITY WITH CB19-31 OR CBH19-31 INDOOR COIL UNIT

En-ter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Outdoor Coil (°F)																							
		85						95						105						115					
		Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)						
				Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)						
75	80	85	75	80	85	75	80	85	75	80	85	75	80	85	75	80	85								
63	975	30,200	2360	.77	.93	1.00	29,400	2560	.79	.95	1.00	27,900	2750	.80	.98	1.00	26,300	2930	.82	1.00	1.00				
	1075	30,900	2380	.79	.96	1.00	30,100	2590	.81	.98	1.00	28,600	2780	.83	1.00	1.00	27,000	2970	.85	1.00	1.00				
	1175	31,500	2400	.82	.98	1.00	30,700	2610	.83	1.00	1.00	29,200	2810	.85	1.00	1.00	27,700	3010	.87	1.00	1.00				
67	975	32,000	2410	.60	.76	.90	31,100	2620	.61	.77	.92	29,400	2820	.62	.80	.94	27,600	3010	.63	.82	.97				
	1075	32,600	2430	.62	.78	.93	31,600	2640	.63	.80	.95	29,900	2840	.64	.83	.98	28,100	3030	.65	.85	1.00				
	1175	33,100	2440	.63	.81	.96	32,100	2660	.64	.83	.99	30,300	2860	.65	.86	1.00	28,500	3060	.67	.88	1.00				
71	975	33,800	2460	.45	.59	.75	32,900	2680	.45	.60	.77	31,100	2900	.46	.62	.78	29,300	3110	.46	.63	.80				
	1075	34,500	2480	.45	.61	.77	33,500	2710	.46	.62	.79	31,700	2920	.46	.64	.81	29,800	3140	.47	.65	.83				
	1175	35,100	2490	.46	.62	.80	34,000	2720	.46	.64	.81	32,200	2950	.47	.65	.83	30,200	3160	.47	.67	.85				

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

HP24-311 HEATING CAPACITY WITH CB19-31 OR CBH19-31 INDOOR COIL UNIT

Indoor Coil Air Volume (cfm) 70°F db	Air Temperature Entering Outdoor Coil (°F)									
	65		45		25		5		-15	
	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)
975	37,600	2390	28,300	2040	18,900	1690	12,200	1355	6100	1025
1075	37,800	2365	28,600	2015	19,100	1665	12,500	1330	6400	1000
1175	38,100	2340	28,900	1990	19,500	1640	12,800	1305	6700	975

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

HP24-311 HEATING PERFORMANCE at 1075 cfm Indoor Coil Air Volume (CB19-31 or CBH19-31)

*Outdoor Temperature (°F)	Compressor Motor Watts Input	Total Output (Btuh)
65	2365	37,800
60	2275	35,600
55	2190	33,300
50	2105	31,100
47	2050	29,700
45	2015	28,600
40	1925	25,700
35	1840	22,900
30	1750	21,000
25	1665	19,100
20	1580	17,300
17	1530	16,100
15	1495	15,500
10	1410	14,000
5	1330	12,500
0	1245	10,900
-5	1165	9400
-10	1080	7900
-15	1000	6400
-20	915	4800

*Outdoor temperature at 70% relative humidity. Indoor temperature at 70°F.

COOLING AND HEATING RATINGS

NOTE — To determine Sensible Capacity, Leaving Wet and Dry Bulb temperatures not shown in the tables, see Miscellaneous Engineering Data section, page 9.

HP24-411-413 COOLING CAPACITY WITH C16-41FF/FC OR CR16-41FF INDOOR COIL UNIT

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Outdoor Coil (°F)																							
		85						95						105						115					
		Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)						
				Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)						
75	80	85	75	80	85	75	80	85	75	80	85	75	80	85	75	80	85								
63	1300	37,200	2810	.76	.91	1.00	35,300	3040	.77	.93	1.00	33,200	3250	.79	.96	1.00	31,000	3450	.82	.99	1.00				
	1450	38,100	2840	.78	.94	1.00	36,100	3070	.80	.96	1.00	34,000	3290	.82	.99	1.00	31,800	3490	.85	1.00	1.00				
67	1300	39,600	2880	.59	.74	.89	37,500	3120	.60	.76	.91	35,200	3350	.61	.78	.93	32,900	3550	.62	.81	.96				
	1450	40,400	2910	.60	.76	.92	38,200	3150	.62	.78	.95	35,900	3380	.63	.81	.97	33,400	3580	.64	.84	1.00				
71	1300	41,900	2950	.43	.58	.74	39,700	3200	.44	.60	.75	37,300	3440	.44	.61	.77	34,900	3660	.45	.63	.79				
	1450	42,700	2980	.44	.60	.76	40,400	3230	.44	.61	.78	38,000	3470	.45	.63	.80	35,500	3690	.45	.65	.82				

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

HP24-411-413 COOLING CAPACITY WITH CH16-41FF INDOOR COIL UNIT

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Outdoor Coil (°F)																							
		85						95						105						115					
		Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)						
				Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)						
75	80	85	75	80	85	75	80	85	75	80	85	75	80	85	75	80	85								
63	1300	38,400	2840	.76	.92	1.00	36,300	3080	.78	.94	1.00	34,100	3300	.80	.97	1.00	31,800	3500	.82	.99	1.00				
	1450	39,200	2870	.79	.95	1.00	37,100	3110	.81	.97	1.00	34,900	3330	.83	.99	1.00	32,800	3540	.85	1.00	1.00				
67	1300	40,700	2920	.59	.74	.89	38,500	3160	.60	.76	.91	36,200	3390	.61	.79	.94	33,800	3600	.63	.82	.97				
	1450	41,500	2940	.61	.77	.93	39,300	3190	.62	.79	.95	36,900	3420	.63	.82	.98	34,400	3630	.65	.85	1.00				
71	1300	43,200	2990	.44	.59	.74	40,800	3250	.44	.60	.76	38,400	3490	.44	.61	.78	35,800	3710	.45	.63	.80				
	1450	44,000	3020	.44	.60	.77	41,600	3270	.45	.62	.78	39,100	3520	.45	.63	.80	36,400	3740	.46	.65	.83				

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

HP24-411-413 HEATING CAPACITY WITH C16-41FF/FC OR CR16-41FF INDOOR COIL UNIT

Indoor Coil Air Volume (cfm) 70°F db	Air Temperature Entering Outdoor Coil (°F)									
	65		45		25		5		-15	
	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)
1300	45,100	2990	34,200	2500	22,800	2005	15,600	1595	8000	1200
1450	45,700	2950	34,700	2460	23,300	1965	16,200	1555	8500	1160

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

HP24-411-413 HEATING CAPACITY WITH CH16-41FF INDOOR COIL UNIT

Indoor Coil Air Volume (cfm) 70°F db	Air Temperature Entering Outdoor Coil (°F)									
	65		45		25		5		-15	
	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)
1300	45,700	2915	34,600	2450	23,000	1975	15,800	1575	8100	1185
1450	46,200	2875	35,100	2410	23,500	1935	16,300	1535	8600	1145

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

HP24-411-413 HEATING PERFORMANCE at 1300 cfm Indoor Coil Air Volume (C16-41FF/FC or CR16-41FF)

*Outdoor Temperature (°F)	Compressor Motor Watts Input	Total Output (Btuh)
65	2990	45,100
60	2870	42,600
55	2750	40,000
50	2630	37,400
47	2555	35,800
45	2500	34,200
40	2360	30,100
35	2220	26,000
30	2115	24,400
25	2005	22,800
20	1900	21,200
17	1835	20,200
15	1795	19,500
10	1695	17,600
5	1595	15,600
0	1495	13,700
-5	1395	11,800
-10	1300	9900
-15	1200	8000
-20	1100	6100

*Outdoor temperature at 70% relative humidity. Indoor temperature at 70°F.

HP24-411-413 HEATING PERFORMANCE at 1300 cfm Indoor Coil Air Volume (CH16-41FF)

*Outdoor Temperature (°F)	Compressor Motor Watts Input	Total Output (Btuh)
65	2915	45,700
60	2800	43,100
55	2685	40,400
50	2570	37,800
47	2500	36,200
45	2450	34,600
40	2315	30,400
35	2180	26,300
30	2080	24,700
25	1975	23,000
20	1875	21,400
17	1810	20,400
15	1770	19,600
10	1675	17,700
5	1575	15,800
0	1480	13,800
-5	1380	11,900
-10	1285	10,000
-15	1185	8100
-20	1085	6100

*Outdoor temperature at 70% relative humidity. Indoor temperature at 70°F.

COOLING AND HEATING RATINGS

NOTE — To determine Sensible Capacity, Leaving Wet and Dry Bulb temperatures not shown in the tables, see Miscellaneous Engineering Data section, page 9.

HP24-411-413 COOLING CAPACITY WITH CB18-41 OR CBS18-41 INDOOR COIL UNIT

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Outdoor Coil (°F)																					
		85			95			105			115												
		Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)				
				Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)				
			75	80	85				75	80	85				75	80	85				75	80	85
63	1150	36,700	2790	.73	.88	1.00	34,700	3020	.74	.90	1.00	32,700	3230	.76	.92	1.00	30,600	3420	.78	.95	1.00		
	1300	37,700	2820	.75	.91	1.00	35,700	3050	.77	.93	1.00	33,600	3270	.79	.96	1.00	31,300	3460	.81	.99	1.00		
	1450	38,600	2850	.78	.94	1.00	36,600	3080	.80	.96	1.00	34,300	3300	.82	.99	1.00	32,100	3500	.84	1.00	1.00		
67	1150	38,900	2860	.57	.71	.85	36,800	3100	.58	.73	.87	34,700	3320	.59	.75	.89	32,400	3520	.60	.77	.92		
	1300	39,900	2890	.59	.74	.88	37,700	3130	.60	.76	.91	35,500	3360	.61	.78	.93	33,200	3560	.62	.80	.96		
	1450	40,700	2920	.60	.76	.92	38,500	3160	.61	.78	.94	36,200	3390	.63	.80	.97	33,800	3600	.64	.84	1.00		
71	1150	41,100	2930	.43	.57	.71	39,000	3180	.43	.58	.72	36,700	3410	.43	.59	.74	34,400	3630	.44	.60	.76		
	1300	42,200	2960	.43	.58	.74	39,900	3210	.44	.59	.75	37,600	3450	.44	.61	.77	35,100	3670	.45	.62	.79		
	1450	43,000	2990	.44	.60	.76	40,700	3240	.44	.61	.78	38,300	3480	.45	.63	.80	35,700	3700	.45	.64	.82		

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

HP24-411-413 COOLING CAPACITY WITH CB18-51 OR CBS18-51 INDOOR COIL UNIT

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Outdoor Coil (°F)																					
		85			95			105			115												
		Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)				
				Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)				
			75	80	85				75	80	85				75	80	85				75	80	85
63	1150	38,100	2830	.74	.89	1.00	36,100	3060	.75	.91	1.00	33,900	3280	.77	.94	1.00	31,600	3480	.79	.97	1.00		
	1300	39,100	2870	.76	.92	1.00	36,900	3100	.78	.95	1.00	34,700	3320	.80	.97	1.00	32,500	3520	.82	1.00	1.00		
	1450	40,100	2890	.79	.95	1.00	37,800	3130	.81	.98	1.00	35,600	3360	.83	1.00	1.00	33,300	3580	.85	1.00	1.00		
67	1150	40,600	2910	.58	.72	.86	38,300	3150	.59	.74	.88	36,000	3380	.60	.76	.90	33,600	3590	.61	.78	.93		
	1300	41,500	2940	.59	.74	.89	39,200	3190	.60	.76	.92	36,800	3420	.62	.79	.94	34,400	3630	.63	.82	.97		
	1450	42,400	2960	.61	.77	.93	40,000	3210	.62	.79	.95	37,600	3450	.63	.82	.98	34,900	3660	.65	.85	1.00		
71	1150	43,000	2980	.43	.57	.72	40,700	3240	.43	.58	.73	38,300	3480	.44	.59	.75	35,700	3700	.44	.61	.77		
	1300	44,000	3010	.44	.59	.74	41,600	3270	.44	.60	.76	39,100	3520	.45	.61	.78	36,400	3740	.45	.63	.80		
	1450	44,900	3040	.44	.60	.77	42,400	3300	.45	.62	.79	39,800	3550	.45	.63	.81	37,000	3770	.46	.65	.83		

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

HP24-411-413 HEATING CAPACITY WITH CB18-41 OR CBS18-41 INDOOR COIL UNIT

Indoor Coil Air Volume (cfm) 70°F db	Air Temperature Entering Outdoor Coil (°F)									
	65		45		25		5		-15	
	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)
1150	44,600	3035	33,600	2545	22,300	2050	15,100	1640	7500	1245
1300	45,000	2985	34,000	2495	22,700	2000	15,500	1590	7900	1195
1450	45,500	2950	34,500	2460	23,200	1960	16,100	1550	8500	1155

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

HP24-411-413 HEATING CAPACITY WITH CB18-51 OR CBS18-51 INDOOR COIL UNIT

Indoor Coil Air Volume (cfm) 70°F db	Air Temperature Entering Outdoor Coil (°F)									
	65		45		25		5		-15	
	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)
1150	45,400	2925	34,100	2475	22,500	2015	15,200	1625	7600	1235
1300	45,800	2875	34,500	2425	22,900	1965	15,600	1575	8000	1185
1450	46,300	2835	35,100	2385	23,400	1925	16,200	1535	8500	1145

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

HP24-411-413 HEATING PERFORMANCE

at 1300 cfm Indoor Coil Air Volume (CB18-41 or CBS18-41)

*Outdoor Temperature (°F)	Compressor Motor Watts Input	Total Output (Btuh)
65	2985	45,000
60	2865	42,400
55	2745	39,800
50	2625	37,200
47	2555	35,600
45	2495	34,000
40	2355	30,000
35	2220	25,900
30	2110	24,300
25	2000	22,700
20	1895	21,100
17	1830	20,100
15	1790	19,300
10	1690	17,400
5	1590	15,500
0	1490	13,600
-5	1395	11,700
-10	1295	9800
-15	1195	7900
-20	1095	6000

*Outdoor temperature at 70% relative humidity. Indoor temperature at 70°F.

HP24-411-413 HEATING PERFORMANCE

at 1300 cfm Indoor Coil Air Volume (CB18-51 or CBS18-51)

*Outdoor Temperature (°F)	Compressor Motor Watts Input	Total Output (Btuh)
65	2875	45,800
60	2765	43,100
55	2655	40,500
50	2540	37,800
47	2475	36,200
45	2425	34,500
40	2295	30,400
35	2165	26,200
30	2065	24,600
25	1965	22,900
20	1870	21,200
17	1810	20,200
15	1770	19,500
10	1675	17,600
5	1575	15,600
0	1475	13,700
-5	1380	11,800
-10	1280	9900
-15	1185	8000
-20	1085	6100

*Outdoor temperature at 70% relative humidity. Indoor temperature at 70°F.

COOLING AND HEATING RATINGS

NOTE — To determine Sensible Capacity, Leaving Wet and Dry Bulb temperatures not shown in the tables, see Miscellaneous Engineering Data section, page 9.

HP24-411-413 COOLING CAPACITY WITH CB19-41 OR CBH19-41 INDOOR COIL UNIT

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Outdoor Coil (°F)																							
		85						95						105						115					
		Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)						
				Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)						
75	80	85	75	80	85	75	80	85	75	80	85	75	80	85											
63	1150	37,700	2820	.75	.90	1.00	35,700	3050	.76	.93	1.00	33,600	3270	.78	.95	1.00	31,600	3470	.80	.98	1.00				
	1300	38,700	2850	.78	.94	1.00	36,700	3090	.79	.96	1.00	34,600	3320	.81	.98	1.00	32,400	3520	.83	1.00	1.00				
	1450	39,700	2880	.80	.96	1.00	37,600	3120	.82	.98	1.00	35,400	3350	.84	1.00	1.00	33,400	3570	.87	1.00	1.00				
67	1150	39,900	2890	.59	.73	.87	37,800	3130	.60	.75	.89	35,500	3360	.61	.77	.92	33,200	3570	.62	.80	.95				
	1300	40,900	2920	.60	.76	.91	38,700	3160	.62	.78	.93	36,300	3390	.63	.81	.96	33,900	3600	.64	.84	.99				
	1450	41,700	2940	.62	.79	.95	39,400	3190	.63	.81	.97	37,000	3420	.65	.84	1.00	34,400	3630	.66	.87	1.00				
71	1150	42,100	2960	.44	.58	.73	39,900	3210	.44	.59	.75	37,600	3450	.45	.60	.76	35,200	3670	.45	.62	.78				
	1300	43,100	2990	.45	.60	.76	40,800	3240	.45	.61	.77	38,400	3490	.45	.63	.79	35,800	3710	.46	.65	.82				
	1450	44,000	3010	.45	.62	.78	41,600	3270	.46	.63	.80	39,000	3520	.46	.65	.82	36,400	3740	.47	.67	.85				

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

RFCIII HP24-411-413 COOLING CAPACITY WITH CB19-41 OR CBH19-41 INDOOR COIL UNIT

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Outdoor Coil (°F)																							
		85						95						105						115					
		Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)						
				Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)						
75	80	85	75	80	85	75	80	85	75	80	85	75	80	85											
63	1150	37,400	2830	.75	.90	1.00	35,700	3050	.76	.93	1.00	33,600	3270	.78	.95	1.00	31,600	3470	.80	.98	1.00				
	1300	38,400	2860	.78	.94	1.00	36,700	3090	.79	.96	1.00	34,600	3320	.81	.98	1.00	32,400	3520	.83	1.00	1.00				
	1450	39,400	2890	.80	.96	1.00	37,600	3120	.82	.98	1.00	35,400	3350	.84	1.00	1.00	33,400	3570	.87	1.00	1.00				
67	1150	39,600	2900	.59	.73	.87	37,800	3130	.60	.75	.89	35,500	3360	.61	.77	.92	33,200	3570	.62	.80	.95				
	1300	40,600	2930	.60	.76	.91	38,700	3160	.62	.78	.93	36,300	3390	.63	.81	.96	33,900	3600	.64	.84	.99				
	1450	41,500	2950	.62	.79	.95	39,400	3190	.63	.81	.97	37,000	3420	.65	.84	1.00	34,400	3630	.66	.87	1.00				
71	1150	41,800	2970	.44	.58	.73	39,900	3210	.44	.59	.75	37,600	3450	.45	.60	.76	35,200	3670	.45	.62	.78				
	1300	42,800	3000	.45	.60	.76	40,800	3240	.45	.61	.77	38,400	3490	.45	.63	.79	35,800	3710	.46	.65	.82				
	1450	43,700	3020	.45	.62	.78	41,600	3270	.46	.63	.80	39,000	3520	.46	.65	.82	36,400	3740	.47	.67	.85				

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

HP24-411-413 HEATING CAPACITY WITH CB19-41 OR CBH19-41 INDOOR COIL UNIT

Indoor Coil Air Volume (cfm) 70°F db	Air Temperature Entering Outdoor Coil (°F)									
	65		45		25		5		-15	
	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)
1150	45,600	2855	34,200	2425	22,400	1990	15,200	1605	7500	1220
1300	46,000	2805	34,600	2375	22,900	1940	15,600	1555	7900	1170
1450	46,600	2765	35,200	2335	23,400	1900	16,100	1515	8500	1130

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

HP24-411-413 HEATING PERFORMANCE at 1300 cfm Indoor Coil Air Volume (CB19-41 or CBH19-41)

*Outdoor Temperature (°F)	Compressor Motor Watts Input	Total Output (Btuh)
65	2805	46,000
60	2700	43,300
55	2595	40,600
50	2490	37,900
47	2425	36,300
45	2375	34,600
40	2250	30,400
35	2130	26,300
30	2035	24,600
25	1940	22,900
20	1845	21,200
17	1790	20,100
15	1750	19,400
10	1655	17,500
5	1555	15,600
0	1460	13,700
-5	1365	11,800
-10	1265	9800
-15	1170	7900
-20	1075	6000

*Outdoor temperature at 70% relative humidity. Indoor temperature at 70°F.

COOLING AND HEATING RATINGS

NOTE — To determine Sensible Capacity, Leaving Wet and Dry Bulb temperatures not shown in the tables, see Miscellaneous Engineering Data section, page 9.

HP24-461-463 COOLING CAPACITY WITH C16-41FF/FC OR CR16-41FF INDOOR COIL

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Outdoor Coil (°F)																							
		85						95						105						115					
		Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)						
				75	80	85			75	80	85			75	80	85			75	80	85				
63	1450	42,400	3230	.75	.90	1.00	40,100	3480	.76	.92	1.00	38,000	3730	.78	.95	1.00	35,700	3950	.80	.97	1.00				
	1600	43,200	3260	.77	.93	1.00	41,000	3520	.79	.95	1.00	38,800	3760	.81	.97	1.00	36,400	3980	.83	.99	1.00				
67	1450	45,100	3310	.58	.73	.87	42,800	3580	.59	.75	.89	40,500	3830	.60	.76	.92	38,000	4070	.61	.79	.94				
	1600	46,000	3340	.59	.75	.90	43,700	3610	.60	.77	.93	41,200	3870	.62	.79	.95	38,700	4100	.63	.81	.98				
71	1450	47,800	3390	.43	.58	.73	45,400	3670	.43	.59	.74	42,900	3940	.43	.60	.76	40,300	4190	.44	.61	.78				
	1600	48,700	3420	.43	.59	.75	46,300	3700	.44	.60	.76	43,700	3970	.44	.61	.78	41,000	4220	.45	.63	.80				

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

HP24-461-463 COOLING CAPACITY WITH CB18-41 OR CBS18-41 INDOOR COIL UNIT

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Outdoor Coil (°F)																							
		85						95						105						115					
		Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)						
				75	80	85			75	80	85			75	80	85			75	80	85				
63	1300	41,700	3210	.72	.87	.99	39,400	3450	.74	.89	1.00	37,200	3690	.75	.91	1.00	35,100	3910	.77	.94	1.00				
	1450	42,500	3240	.75	.90	1.00	40,400	3490	.76	.92	1.00	38,200	3730	.78	.94	1.00	35,900	3950	.80	.97	1.00				
	1600	43,400	3270	.77	.92	1.00	41,300	3520	.79	.94	1.00	39,100	3770	.81	.97	1.00	36,600	3990	.83	.99	1.00				
67	1300	44,200	3290	.57	.71	.84	42,100	3550	.57	.72	.86	39,800	3800	.58	.74	.88	37,400	4030	.59	.76	.91				
	1450	45,300	3320	.58	.73	.87	43,000	3590	.59	.75	.89	40,600	3840	.60	.77	.92	38,200	4070	.61	.79	.94				
	1600	46,200	3350	.59	.75	.90	43,900	3620	.60	.77	.93	41,400	3870	.62	.79	.95	38,800	4110	.63	.81	.98				
71	1300	46,900	3360	.42	.56	.70	44,600	3640	.42	.57	.72	42,200	3910	.43	.58	.73	39,700	4150	.43	.60	.75				
	1450	48,000	3400	.43	.58	.73	45,600	3680	.43	.59	.74	43,100	3950	.43	.60	.76	40,500	4200	.44	.61	.78				
	1600	49,000	3420	.43	.59	.75	46,500	3710	.44	.60	.76	43,900	3980	.44	.61	.78	41,200	4230	.45	.63	.80				

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

HP24-461-463 HEATING CAPACITY WITH C16-41FF/FC OR CR16-41FF INDOOR COIL UNIT

Indoor Coil Air Volume (cfm) 70°F db	Air Temperature Entering Outdoor Coil (°F)									
	65		45		25		5		-15	
	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)
1450	51,300	3570	39,700	3030	27,900	2485	18,800	1985	9600	1495
1600	51,900	3525	40,300	2985	28,500	2440	19,300	1940	10,100	1450

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

HP24-461-463 HEATING CAPACITY WITH CB18-41 OR CBS18-41 INDOOR COIL UNIT

Indoor Coil Air Volume (cfm) 70°F db	Air Temperature Entering Outdoor Coil (°F)									
	65		45		25		5		-15	
	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)
1300	50,600	3600	39,000	3065	27,200	2525	18,100	2030	8900	1540
1450	51,200	3550	39,600	3015	27,700	2475	18,600	1980	9500	1490
600	51,700	3505	40,100	2970	28,300	2435	19,200	1940	10,100	1445

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

HP24-461-463 HEATING PERFORMANCE at 1450 cfm Indoor Coil Air Volume (C16-41FF/FC or CR16-41FF)

*Outdoor Temperature (°F)	Compressor Motor Watts Input	Total Output (Btuh)
65	3570	51,300
60	3435	48,500
55	3300	45,700
50	3165	42,900
47	3085	41,200
45	3030	39,700
40	2885	36,100
35	2740	32,400
30	2610	30,200
25	2485	27,900
20	2360	25,600
17	2285	24,300
15	2235	23,400
10	2110	21,100
5	1985	18,800
0	1865	16,500
-5	1740	14,200
-10	1615	11,900
-15	1495	9600
-20	1370	7300

*Outdoor temperature at 70% relative humidity. Indoor temperature at 70°F.

HP24-461-463 HEATING PERFORMANCE at 1450 cfm Indoor Coil Air Volume (CB18-41 or CBS18-41)

*Outdoor Temperature (°F)	Compressor Motor Watts Input	Total Output (Btuh)
65	3550	51,200
60	3415	48,400
55	3285	45,500
50	3150	42,700
47	3075	41,000
45	3015	39,600
40	2870	35,900
35	2725	32,300
30	2600	30,000
25	2475	27,700
20	2350	25,500
17	2280	24,100
15	2230	23,200
10	2105	20,900
5	1980	18,600
0	1860	16,400
-5	1735	14,100
-10	1615	11,800
-15	1490	9500
-20	1365	7200

*Outdoor temperature at 70% relative humidity. Indoor temperature at 70°F.

COOLING AND HEATING RATINGS

NOTE — To determine Sensible Capacity, Leaving Wet and Dry Bulb temperatures not shown in the tables, see Miscellaneous Engineering Data section, page 9.

HP24-461-463 COOLING CAPACITY WITH CH16-41FF INDOOR COIL UNIT

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Outdoor Coil (°F)																							
		85						95						105						115					
		Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)						
				75	80	85			75	80	85			75	80	85			75	80	85				
63	1450	43,300	3260	.76	.91	1.00	41,100	3520	.77	.93	1.00	38,800	3760	.79	.96	1.00	36,400	3990	.81	.98	1.00				
	1600	44,300	3290	.78	.94	1.00	41,900	3550	.80	.96	1.00	39,600	3800	.82	.98	1.00	37,300	4020	.84	1.00	1.00				
67	1450	46,200	3350	.59	.74	.88	43,900	3620	.59	.75	.90	41,400	3870	.61	.77	.93	38,700	4110	.62	.80	.96				
	1600	47,100	3370	.60	.76	.91	44,600	3640	.61	.78	.94	42,100	3900	.62	.80	.96	39,500	4140	.64	.83	.99				
71	1450	49,100	3430	.43	.58	.73	46,600	3710	.43	.59	.75	44,100	3990	.44	.60	.76	41,300	4240	.44	.62	.78				
	1600	50,000	3460	.44	.59	.75	47,500	3740	.44	.60	.77	44,800	4020	.44	.62	.79	42,000	4270	.45	.64	.81				

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

HP24-461-463 COOLING CAPACITY WITH CB18-51 OR CBS18-51 INDOOR COIL UNIT

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Outdoor Coil (°F)																							
		85						95						105						115					
		Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)						
				75	80	85			75	80	85			75	80	85			75	80	85				
63	1300	43,300	3260	.73	.88	1.00	41,100	3520	.74	.90	1.00	38,900	3760	.76	.92	1.00	36,600	3980	.78	.95	1.00				
	1450	44,400	3290	.75	.91	1.00	42,200	3550	.77	.93	1.00	39,700	3800	.79	.96	1.00	37,200	4030	.81	.98	1.00				
	1600	45,400	3320	.78	.93	1.00	43,000	3580	.79	.96	1.00	40,500	3830	.81	.98	1.00	38,200	4070	.84	1.00	1.00				
67	1300	46,300	3350	.57	.71	.85	43,900	3620	.58	.73	.87	41,500	3880	.59	.75	.89	38,900	4110	.60	.77	.91				
	1450	47,400	3380	.58	.73	.88	44,900	3650	.59	.75	.90	42,400	3910	.60	.77	.92	39,600	4150	.62	.80	.95				
	1600	48,300	3410	.60	.76	.91	45,700	3680	.61	.78	.93	43,100	3950	.62	.80	.96	40,200	4190	.64	.83	.99				
71	1300	49,200	3430	.42	.56	.71	46,700	3720	.43	.57	.72	44,200	3990	.43	.58	.74	41,400	4240	.44	.60	.75				
	1450	50,300	3460	.43	.58	.73	47,800	3750	.43	.59	.75	45,100	4030	.44	.60	.76	42,200	4280	.44	.62	.78				
	1600	51,300	3490	.44	.59	.75	48,600	3780	.44	.60	.77	45,800	4060	.44	.62	.79	42,900	4310	.45	.64	.81				

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

HP24-461-463 HEATING CAPACITY WITH CH16-41FF INDOOR COIL UNIT

Indoor Coil Air Volume (cfm) 70°F db	Air Temperature Entering Outdoor Coil (°F)									
	65		45		25		5		-15	
	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)
1450	52,000	3475	40,200	2965	28,200	2450	19,000	1965	9700	1480
1600	52,500	3430	40,800	2920	28,800	2405	19,500	1920	10,200	1435

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

HP24-461-463 HEATING CAPACITY WITH CB18-51 OR CBS18-51 INDOOR COIL UNIT

Indoor Coil Air Volume (cfm) 70°F db	Air Temperature Entering Outdoor Coil (°F)									
	65		45		25		5		-15	
	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)
1300	52,000	3475	40,100	2980	28,000	2480	18,600	2005	9200	1520
1450	52,600	3425	40,700	2930	28,500	2430	19,200	1955	9800	1470
1600	53,100	3380	41,200	2885	29,100	2390	19,700	1910	10,400	1425

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

HP24-461-463 HEATING PERFORMANCE at 1450 cfm Indoor Coil Air Volume (CH16-41FF)

*Outdoor Temperature (°F)	Compressor Motor Watts Input	Total Output (Btuh)
65	3475	52,000
60	3345	49,100
55	3220	46,300
50	3095	43,400
47	3020	41,700
45	2965	40,200
40	2825	36,500
35	2690	32,800
30	2570	30,500
25	2450	28,200
20	2330	25,900
17	2260	24,600
15	2210	23,600
10	2090	21,300
5	1965	19,000
0	1845	16,700
-5	1720	14,300
-10	1600	12,000
-15	1480	9700
-20	1355	7400

*Outdoor temperature at 70% relative humidity. Indoor temperature at 70°F.

HP24-461-463 HEATING PERFORMANCE at 1450 cfm Indoor Coil Air Volume (CB18-51 or CBS18-51)

*Outdoor Temperature (°F)	Compressor Motor Watts Input	Total Output (Btuh)
65	3425	52,600
60	3300	49,700
55	3180	46,800
50	3055	43,900
47	2985	42,200
45	2930	40,700
40	2795	36,900
35	2660	33,200
30	2545	30,900
25	2430	28,500
20	2315	26,200
17	2250	24,800
15	2200	23,900
10	2075	21,500
5	1955	19,200
0	1835	16,800
-5	1715	14,500
-10	1590	12,100
-15	1470	9800
-20	1350	7400

*Outdoor temperature at 70% relative humidity. Indoor temperature at 70°F.

COOLING AND HEATING RATINGS

NOTE — To determine Sensible Capacity, Leaving Wet and Dry Bulb temperatures not shown in the tables, see Miscellaneous Engineering Data section, page 9.

HP24-461-463 COOLING CAPACITY WITH CB19-41 OR CBH19-41 INDOOR COIL UNIT

En-ter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Outdoor Coil (°F)																							
		85						95						105						115					
		Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)						
				Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)						
			75	80	85				75	80	85				75	80	85				75	80	85		
63	1300	42,800	3240	.74	.90	1.00	40,700	3500	.76	.92	1.00	38,500	3740	.77	.94	1.00	36,300	3970	.79	.96	1.00				
	1450	43,900	3280	.77	.93	1.00	41,600	3540	.78	.95	1.00	39,400	3790	.80	.97	1.00	37,200	4020	.82	.99	1.00				
	1600	44,700	3310	.79	.95	1.00	42,600	3570	.81	.97	1.00	40,400	3830	.83	.99	1.00	38,000	4070	.85	1.00	1.00				
67	1300	45,400	3320	.58	.73	.87	43,100	3590	.59	.75	.89	40,800	3850	.60	.77	.91	38,300	4080	.61	.79	.94				
	1450	46,500	3350	.60	.75	.90	44,100	3620	.61	.77	.92	41,600	3880	.62	.80	.95	39,000	4120	.63	.82	.97				
	1600	47,400	3380	.61	.78	.93	44,900	3650	.62	.80	.96	42,300	3910	.64	.82	.98	39,600	4150	.65	.85	1.00				
71	1300	48,000	3400	.43	.57	.73	45,700	3680	.44	.58	.74	43,200	3950	.44	.60	.75	40,600	4200	.45	.61	.77				
	1450	49,100	3430	.44	.59	.75	46,700	3720	.44	.60	.76	44,100	3990	.45	.62	.78	41,400	4240	.45	.63	.80				
	1600	50,000	3460	.45	.61	.77	47,500	3740	.45	.62	.79	44,900	4020	.45	.64	.81	42,000	4270	.46	.65	.83				

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

RFCIII HP24-461-463 COOLING CAPACITY WITH CB19-41 OR CBH19-41 INDOOR COIL UNIT

En-ter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Outdoor Coil (°F)																							
		85						95						105						115					
		Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)						
				Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)						
			75	80	85				75	80	85				75	80	85				75	80	85		
63	1300	41,400	3190	.74	.90	1.00	40,700	3500	.76	.92	1.00	38,500	3740	.77	.94	1.00	36,300	3970	.79	.96	1.00				
	1450	42,500	3230	.77	.93	1.00	41,600	3540	.78	.95	1.00	39,400	3790	.80	.97	1.00	37,200	4020	.82	.99	1.00				
	1600	43,300	3260	.79	.95	1.00	42,600	3570	.81	.97	1.00	40,400	3830	.83	.99	1.00	38,000	4070	.85	1.00	1.00				
67	1300	44,000	3270	.58	.73	.87	43,100	3590	.59	.75	.89	40,800	3850	.60	.77	.91	38,300	4080	.61	.79	.94				
	1450	45,400	3300	.60	.75	.90	44,100	3620	.61	.77	.92	41,600	3880	.62	.80	.95	39,000	4120	.63	.82	.97				
	1600	46,000	3330	.61	.78	.93	44,900	3650	.62	.80	.96	42,300	3910	.64	.82	.98	39,600	4150	.65	.85	1.00				
71	1300	46,600	3350	.43	.57	.73	45,700	3680	.44	.58	.74	43,200	3950	.44	.60	.75	40,600	4200	.45	.61	.77				
	1450	47,700	3380	.44	.59	.75	46,700	3720	.44	.60	.76	44,100	3990	.45	.62	.78	41,400	4240	.45	.63	.80				
	1600	48,600	3410	.45	.61	.77	47,500	3740	.45	.62	.79	44,900	4020	.45	.64	.81	42,000	4270	.46	.65	.83				

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

HP24-461-463 HEATING CAPACITY WITH CB19-41 OR CBH19-41 INDOOR COIL UNIT

Indoor Coil Air Volume (cfm) 70°F db	Air Temperature Entering Outdoor Coil (°F)									
	65		45		25		5		-15	
	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)
1300	51,700	3415	39,700	2940	27,500	2460	18,200	1995	9000	1510
1450	52,300	3365	40,300	2890	28,100	2410	18,800	1945	9600	1460
1600	52,800	3320	40,800	2845	28,600	2365	19,400	1900	10,200	1415

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

HP24-461-463 HEATING PERFORMANCE at 1450 cfm Indoor Coil Air Volume (CB19-41 or CBH19-41)

*Outdoor Temperature (°F)	Compressor Motor Watts Input	Total Output (Btuh)
65	3365	52,300
60	3245	49,300
55	3130	46,400
50	3010	43,500
47	2940	41,800
45	2890	40,300
40	2760	36,500
35	2630	32,800
30	2520	30,400
25	2410	28,100
20	2300	25,700
17	2235	24,300
15	2185	23,400
10	2065	21,100
5	1945	18,800
0	1825	16,500
-5	1705	14,200
-10	1580	11,900
-15	1460	9600
-20	1340	7300

*Outdoor temperature at 70% relative humidity. Indoor temperature at 70°F.

COOLING AND HEATING RATINGS

NOTE — To determine Sensible Capacity, Leaving Wet and Dry Bulb temperatures not shown in the tables, see Miscellaneous Engineering Data section, page 9.

HP24-511-513 COOLING CAPACITY WITH C16-51FF/FC OR CR16-51FF INDOOR COIL UNIT

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Outdoor Coil (°F)																							
		85						95						105						115					
		Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)						
				75	80	85			75	80	85			75	80	85			75	80	85				
63	1650	49,300	3670	.74	.90	1.00	47,100	3950	.76	.91	1.00	45,000	4250	.77	.93	1.00	42,900	4560	.79	.95	1.00				
	1850	50,500	3700	.77	.92	1.00	48,300	3990	.79	.94	1.00	46,100	4290	.80	.96	1.00	43,900	4610	.82	.98	1.00				
67	1650	52,200	3740	.58	.73	.87	49,900	4040	.59	.74	.89	47,600	4350	.60	.76	.91	45,300	4670	.61	.78	.93				
	1850	53,300	3770	.60	.75	.91	50,900	4080	.61	.77	.93	48,500	4390	.61	.79	.95	46,200	4710	.63	.81	.97				
71	1650	54,900	3820	.43	.58	.73	52,600	4130	.43	.59	.74	50,300	4460	.43	.60	.75	47,900	4790	.44	.61	.77				
	1850	56,100	3850	.43	.59	.75	53,700	4170	.44	.60	.77	51,200	4500	.44	.61	.78	48,800	4830	.44	.63	.80				

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

HP24-511-513 COOLING CAPACITY WITH CB18-51 OR CBS18-51 INDOOR COIL UNIT

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Outdoor Coil (°F)																							
		85						95						105						115					
		Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)						
				75	80	85			75	80	85			75	80	85			75	80	85				
63	1450	48,900	3660	.72	.87	.99	46,800	3940	.73	.88	1.00	44,600	4240	.75	.90	1.00	42,500	4530	.76	.92	1.00				
	1650	50,300	3690	.75	.90	1.00	48,000	3980	.76	.92	1.00	45,800	4280	.78	.94	1.00	43,500	4590	.79	.96	1.00				
	1850	51,400	3720	.78	.93	1.00	49,100	4020	.79	.95	1.00	46,700	4330	.81	.97	1.00	44,500	4640	.83	.99	1.00				
67	1450	52,000	3740	.56	.71	.84	49,700	4040	.57	.72	.86	47,500	4350	.58	.73	.87	45,200	4660	.59	.75	.89				
	1650	53,300	3770	.58	.73	.88	51,000	4080	.59	.75	.89	48,600	4390	.60	.76	.91	46,300	4710	.61	.78	.93				
	1850	54,400	3800	.60	.76	.91	52,000	4110	.61	.77	.93	49,600	4430	.62	.79	.95	47,100	4750	.63	.82	.98				
71	1450	55,100	3820	.42	.56	.70	52,700	4140	.42	.57	.71	50,400	4460	.43	.58	.72	48,000	4790	.43	.59	.74				
	1650	56,500	3860	.43	.58	.73	54,100	4180	.43	.59	.74	51,600	4510	.43	.60	.75	49,100	4840	.44	.61	.77				
	1850	57,600	3900	.43	.59	.76	55,100	4220	.44	.60	.77	52,500	4550	.44	.62	.78	49,900	4870	.44	.63	.80				

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

HP24-511-513 HEATING CAPACITY WITH C16-51FF/FC OR CR16-51FF INDOOR COIL UNIT

Indoor Coil Air Volume (cfm) 70°F db	Air Temperature Entering Outdoor Coil (°F)									
	65		45		25		5		-15	
	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)
1650	60,600	4045	46,100	3375	31,100	2700	21,300	2120	10,800	1590
1850	61,400	3995	46,900	3325	31,900	2650	22,000	2070	11,600	1540

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

HP24-511-513 HEATING CAPACITY WITH CB18-51 OR CBS18-51 INDOOR COIL UNIT

Indoor Coil Air Volume (cfm) 70°F db	Air Temperature Entering Outdoor Coil (°F)									
	65		45		25		5		-15	
	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)
1450	60,900	3975	46,200	3350	31,000	2720	21,000	2155	10,400	1635
1650	61,500	3905	46,800	3280	31,600	2650	21,600	2085	11,000	1565
1850	62,300	3860	47,600	3230	32,300	2600	22,300	2035	11,800	1520

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

HP24-511-513 HEATING PERFORMANCE at 1650 cfm Indoor Coil Air Volume (C16-51FF/FC or CR16-51FF)

*Outdoor Temperature (°F)	Compressor Motor Watts Input	Total Output (Btuh)
65	4045	60,600
60	3875	57,200
55	3710	53,700
50	3540	50,300
47	3440	48,200
45	3375	46,100
40	3205	40,800
35	3040	35,600
30	2870	33,300
25	2700	31,100
20	2535	28,800
17	2435	27,500
15	2380	26,500
10	2250	23,900
5	2120	21,300
0	1985	18,700
-5	1855	16,100
-10	1725	13,500
-15	1590	10,800
-20	1460	8,200

*Outdoor temperature at 70% relative humidity. Indoor temperature at 70°F.

HP24-511-513 HEATING PERFORMANCE at 1650 cfm Indoor Coil Air Volume (CB18-51 or CBS18-51)

*Outdoor Temperature (°F)	Compressor Motor Watts Input	Total Output (Btuh)
65	3905	61,500
60	3750	58,000
55	3590	54,500
50	3435	51,000
47	3340	48,900
45	3280	46,800
40	3120	41,500
35	2965	36,100
30	2805	33,800
25	2650	31,600
20	2490	29,300
17	2395	27,900
15	2345	26,900
10	2215	24,200
5	2085	21,600
0	1955	18,900
-5	1825	16,300
-10	1695	13,700
-15	1565	11,000
-20	1440	8,400

*Outdoor temperature at 70% relative humidity. Indoor temperature at 70°F.

COOLING AND HEATING RATINGS

NOTE — To determine Sensible Capacity, Leaving Wet and Dry Bulb temperatures not shown in the tables, see Miscellaneous Engineering Data section, page 9.

HP24-511-513 COOLING CAPACITY WITH CB19-51 OR CBH19-51 INDOOR COIL UNIT

En-ter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Outdoor Coil (°F)																							
		85						95						105						115					
		Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)						
				Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)						
75	80	85	75	80	85	75	80	85	75	80	85	75	80	85											
63	1450	50,200	3690	.74	.88	1.00	48,100	3990	.75	.90	1.00	46,100	4290	.76	.92	1.00	43,800	4600	.77	.94	1.00				
	1650	51,700	3730	.76	.92	1.00	49,500	4030	.78	.94	1.00	47,200	4340	.79	.96	1.00	45,000	4660	.81	.98	1.00				
	1850	52,900	3760	.79	.95	1.00	50,600	4070	.81	.97	1.00	48,300	4390	.82	.99	1.00	46,300	4710	.84	1.00	1.00				
67	1450	53,300	3770	.58	.72	.86	50,900	4080	.58	.73	.87	48,600	4390	.59	.75	.89	46,500	4710	.60	.77	.91				
	1650	54,600	3810	.59	.75	.90	52,100	4120	.60	.77	.91	49,800	4440	.61	.78	.93	47,400	4760	.62	.80	.96				
	1850	55,700	3840	.61	.78	.94	53,200	4160	.62	.79	.96	50,800	4480	.63	.81	.98	48,200	4800	.64	.84	1.00				
71	1450	56,000	3850	.43	.57	.72	53,700	4170	.43	.58	.73	51,300	4500	.43	.59	.74	48,800	4830	.44	.60	.76				
	1650	57,500	3890	.44	.59	.75	55,000	4220	.44	.60	.76	52,500	4540	.44	.61	.77	50,000	4870	.45	.62	.79				
	1850	58,700	3920	.44	.61	.77	56,100	4250	.45	.62	.79	53,600	4580	.45	.63	.80	50,800	4910	.46	.65	.82				

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

RFCIII HP24-511-513 COOLING CAPACITY WITH CB19-51 OR CBH19-51 INDOOR COIL UNIT

En-ter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Outdoor Coil (°F)																							
		85						95						105						115					
		Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)						
				Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)						
75	80	85	75	80	85	75	80	85	75	80	85	75	80	85											
63	1450	49,800	3690	.74	.88	1.00	48,100	3990	.75	.90	1.00	46,100	4290	.76	.92	1.00	43,800	4600	.77	.94	1.00				
	1650	51,300	3730	.76	.92	1.00	49,500	4030	.78	.94	1.00	47,200	4340	.79	.96	1.00	45,000	4660	.81	.98	1.00				
	1850	52,500	3760	.79	.95	1.00	50,600	4070	.81	.97	1.00	48,300	4390	.82	.99	1.00	46,300	4710	.84	1.00	1.00				
67	1450	52,900	3770	.58	.72	.86	50,900	4080	.58	.73	.87	48,600	4390	.59	.75	.89	46,500	4710	.60	.77	.91				
	1650	54,200	3810	.59	.75	.90	52,100	4120	.60	.77	.91	49,800	4440	.61	.78	.93	47,400	4760	.62	.80	.96				
	1850	55,300	3840	.61	.78	.94	53,200	4160	.62	.79	.96	50,800	4480	.63	.81	.98	48,200	4800	.64	.84	1.00				
71	1450	55,600	3850	.43	.57	.72	53,700	4170	.43	.58	.73	51,300	4500	.43	.59	.74	48,800	4830	.44	.60	.76				
	1650	57,100	3890	.44	.59	.75	55,000	4220	.44	.60	.76	52,500	4540	.44	.61	.77	50,000	4870	.45	.62	.79				
	1850	58,300	3920	.44	.61	.77	56,100	4250	.45	.62	.79	53,600	4580	.45	.63	.80	50,800	4910	.46	.65	.82				

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

HP24-511-513 HEATING CAPACITY WITH CB19-51 OR CBH19-51 INDOOR COIL UNIT

Indoor Coil Air Volume (cfm) 70°F db	Air Temperature Entering Outdoor Coil (°F)									
	65		45		25		5		-15	
	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)
1450	61,600	3830	46,600	3250	31,000	2670	20,900	2135	10,400	1620
1650	62,200	3760	47,200	3180	31,600	2600	21,500	2065	11,000	1550
1850	63,000	3710	47,900	3135	32,400	2555	22,300	2015	11,800	1500

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

HP24-511-513 HEATING PERFORMANCE at 1650 cfm Indoor Coil Air Volume (CB19-51 or CBH19-51)

*Outdoor Temperature (°F)	Compressor Motor Watts Input	Total Output (Btuh)
65	3760	62,200
60	3615	58,600
55	3470	55,100
50	3325	51,500
47	3240	49,300
45	3180	47,200
40	3035	41,700
35	2890	36,300
30	2745	33,900
25	2600	31,600
20	2455	29,200
17	2370	27,800
15	2320	26,800
10	2190	24,100
5	2065	21,500
0	1935	18,900
-5	1805	16,200
-10	1680	13,600
-15	1550	11,000
-20	1420	8300

*Outdoor temperature at 70% relative humidity. Indoor temperature at 70°F.

COOLING AND HEATING RATINGS

NOTE — To determine Sensible Capacity, Leaving Wet and Dry Bulb temperatures not shown in the tables, see Miscellaneous Engineering Data section, page 9.

HP24-511-513 COOLING CAPACITY WITH CB18-65 OR CBS18-65 INDOOR COIL UNIT

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Outdoor Coil (°F)																							
		85						95						105						115					
		Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)						
				Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)						
75	80	85	75	80	85	75	80	85	75	80	85	75	80	85											
63	1450	50,300	3690	.72	.87	.99	48,100	3980	.73	.88	1.00	45,900	4290	.75	.90	1.00	43,700	4590	.76	.93	1.00				
	1650	51,800	3730	.75	.90	1.00	49,400	4030	.76	.92	1.00	47,300	4330	.78	.94	1.00	44,700	4650	.80	.97	1.00				
	1850	53,100	3760	.78	.93	1.00	50,500	4060	.79	.95	1.00	48,200	4380	.81	.98	1.00	45,900	4690	.83	.99	1.00				
67	1450	53,300	3770	.57	.71	.84	50,900	4080	.57	.72	.86	48,500	4400	.58	.73	.88	46,600	4720	.59	.76	.89				
	1650	54,900	3810	.58	.74	.88	52,500	4130	.59	.76	.90	50,100	4450	.60	.77	.92	47,500	4770	.61	.79	.94				
	1850	56,100	3850	.60	.77	.92	53,500	4170	.61	.78	.94	51,000	4490	.62	.80	.96	48,400	4810	.63	.82	.98				
71	1450	56,500	3860	.42	.56	.70	54,100	4190	.42	.57	.72	51,700	4510	.43	.58	.73	49,200	4840	.43	.59	.74				
	1650	58,000	3910	.43	.58	.73	55,500	4230	.43	.59	.74	52,900	4560	.43	.60	.76	50,300	4890	.44	.61	.77				
	1850	59,100	3940	.43	.59	.76	56,500	4260	.44	.60	.77	53,800	4590	.44	.62	.79	51,100	4920	.45	.63	.80				

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

HP24-511-513 COOLING CAPACITY WITH CH19-51 INDOOR COIL UNIT

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Outdoor Coil (°F)																							
		85						95						105						115					
		Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)						
				Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)						
75	80	85	75	80	85	75	80	85	75	80	85	75	80	85											
63	1650	52,300	3740	.76	.92	1.00	49,900	4050	.78	.94	1.00	47,600	4360	.79	.96	1.00	45,500	4680	.80	.98	1.00				
	1850	53,500	3780	.79	.95	1.00	51,200	4090	.80	.97	1.00	49,000	4410	.82	.99	1.00	46,700	4730	.84	1.00	1.00				
67	1650	55,100	3820	.59	.75	.89	52,600	4140	.60	.76	.91	50,200	4460	.61	.78	.93	47,600	4780	.62	.80	.95				
	1850	56,300	3860	.61	.77	.93	53,800	4170	.62	.79	.95	51,100	4500	.63	.81	.97	48,600	4820	.64	.83	1.00				
71	1650	58,000	3910	.43	.59	.74	55,500	4230	.44	.60	.76	52,900	4560	.44	.61	.77	50,300	4890	.45	.62	.79				
	1850	59,300	3940	.44	.60	.77	56,600	4270	.45	.62	.79	54,000	4600	.45	.63	.80	51,300	4930	.45	.64	.82				

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

HP24-511-513 HEATING CAPACITY WITH CB18-65 OR CBS18-65 INDOOR COIL UNIT

Indoor Coil Air Volume (cfm) 70°F db	Air Temperature Entering Outdoor Coil (°F)									
	65		45		25		5		-15	
	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)
1450	61,700	3915	46,800	3310	31,400	2700	21,300	2145	10,600	1630
1650	62,300	3845	47,400	3240	32,000	2630	21,900	2075	11,200	1560
1850	63,100	3800	48,200	3190	32,800	2580	22,700	2025	12,000	1510

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

HP24-511-513 HEATING CAPACITY WITH CH19-51 INDOOR COIL UNIT

Indoor Coil Air Volume (cfm) 70°F db	Air Temperature Entering Outdoor Coil (°F)									
	65		45		25		5		-15	
	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)
1650	62,600	3760	47,500	3175	31,900	2595	21,800	2055	11,100	1545
1850	63,300	3710	48,300	3125	32,700	2545	22,600	2005	11,900	1495

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

HP24-511-513 HEATING PERFORMANCE at 1650 cfm Indoor Coil Air Volume (CB18-65 or CBS18-65)

*Outdoor Temperature (°F)	Compressor Motor Watts Input	Total Output (Btuh)
65	3845	62,300
60	3695	58,800
55	3540	55,300
50	3390	51,700
47	3300	49,600
45	3240	47,400
40	3085	42,000
35	2935	36,600
30	2780	34,300
25	2630	32,000
20	2475	29,700
17	2385	28,300
15	2335	27,300
10	2205	24,600
5	2075	21,900
0	1945	19,200
-5	1815	16,500
-10	1690	13,900
-15	1560	11,200
-20	1430	8500

*Outdoor temperature at 70% relative humidity. Indoor temperature at 70°F.

HP24-511-513 HEATING PERFORMANCE at 1650 cfm Indoor Coil Air Volume (CH19-51)

*Outdoor Temperature (°F)	Compressor Motor Watts Input	Total Output (Btuh)
65	3760	62,600
60	3615	59,000
55	3470	55,400
50	3325	51,800
47	3235	49,700
45	3175	47,500
40	3030	42,100
35	2885	36,600
30	2740	34,300
25	2595	31,900
20	2450	29,600
17	2365	28,200
15	2310	27,100
10	2185	24,400
5	2055	21,800
0	1930	19,100
-5	1800	16,400
-10	1675	13,800
-15	1545	11,100
-20	1420	8500

*Outdoor temperature at 70% relative humidity. Indoor temperature at 70°F.

COOLING AND HEATING RATINGS

NOTE — To determine Sensible Capacity, Leaving Wet and Dry Bulb temperatures not shown in the tables, see Miscellaneous Engineering Data section, page 9.

HP24-651-653 COOLING CAPACITY WITH C16-65, C16-65FC OR CR16-65 INDOOR COIL UNIT

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Outdoor Coil (°F)																							
		85						95						105						115					
		Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)						
				75	80	85			75	80	85			75	80	85			75	80	85				
63	2150	60,300	4710	.75	.91	1.00	57,700	5080	.77	.92	1.00	55,000	5440	.78	.94	1.00	52,200	5790	.80	.97	1.00				
	2375	61,500	4750	.78	.93	1.00	58,900	5120	.79	.95	1.00	56,100	5480	.81	.97	1.00	53,300	5840	.83	.99	1.00				
67	2150	63,700	4810	.59	.74	.88	60,900	5190	.59	.75	.90	58,000	5560	.60	.77	.92	55,200	5930	.61	.79	.94				
	2375	64,800	4840	.60	.76	.92	61,900	5220	.61	.78	.94	59,000	5600	.62	.79	.96	55,900	5970	.63	.81	.98				
71	2150	67,000	4900	.43	.58	.74	64,100	5300	.43	.59	.75	61,300	5690	.44	.60	.76	58,300	6080	.44	.62	.78				
	2375	68,100	4930	.44	.60	.76	65,300	5330	.44	.61	.77	62,300	5730	.44	.62	.79	59,200	6120	.45	.63	.80				

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

HP24-651-653 COOLING CAPACITY WITH CB19-51 OR CBH19-51 INDOOR COIL UNIT

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Outdoor Coil (°F)																							
		85						95						105						115					
		Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)						
				75	80	85			75	80	85			75	80	85			75	80	85				
63	1925	60,900	4730	.75	.90	1.00	58,300	5100	.76	.92	1.00	55,600	5460	.77	.94	1.00	52,900	5820	.79	.96	1.00				
	2150	62,200	4770	.77	.93	1.00	59,600	5150	.79	.95	1.00	56,700	5520	.80	.97	1.00	54,100	5880	.82	.99	1.00				
	2375	63,400	4800	.80	.96	1.00	60,700	5190	.81	.98	1.00	58,000	5560	.83	.99	1.00	55,300	5930	.85	1.00	1.00				
67	1925	64,200	4830	.59	.73	.87	61,400	5210	.59	.75	.89	58,700	5590	.60	.76	.91	55,700	5950	.61	.78	.93				
	2150	65,500	4860	.60	.76	.91	62,600	5250	.61	.77	.93	59,800	5630	.62	.79	.95	56,800	6000	.63	.81	.97				
	2375	66,700	4890	.62	.78	.94	63,700	5280	.63	.80	.96	60,600	5670	.64	.82	.98	57,700	6050	.65	.84	1.00				
71	1925	67,600	4920	.44	.58	.73	64,700	5320	.44	.59	.74	61,900	5710	.44	.60	.76	58,900	6100	.45	.61	.77				
	2150	68,900	4950	.44	.60	.76	65,900	5360	.44	.61	.77	63,000	5760	.45	.62	.78	60,000	6150	.45	.63	.80				
	2375	70,200	4980	.45	.61	.78	67,100	5390	.45	.63	.79	64,100	5800	.46	.64	.81	60,900	6190	.46	.65	.83				

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

HP24-651-653 HEATING CAPACITY WITH C16-65, C16-65FC OR CR16-65 INDOOR COIL UNIT

Indoor Coil Air Volume (cfm) 70°F db	Air Temperature Entering Outdoor Coil (°F)									
	65		45		25		5		-15	
	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)
2150	73,800	5265	57,500	4420	40,800	3575	27,600	2795	14,100	2100
2375	74,500	5215	58,100	4365	41,400	3520	28,300	2745	14,800	2050

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

HP24-651-653 HEATING CAPACITY WITH CB19-51 OR CBH19-51 INDOOR COIL UNIT

Indoor Coil Air Volume (cfm) 70°F db	Air Temperature Entering Outdoor Coil (°F)									
	65		45		25		5		-15	
	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)
1925	74,000	5105	57,300	4315	40,200	3535	26,900	2795	13,400	2110
2150	74,600	5050	57,900	4265	40,800	3485	27,500	2740	14,000	2060
2375	75,200	5000	58,500	4215	41,500	3430	28,200	2690	14,700	2010

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

HP24-651-653 HEATING PERFORMANCE at 2150 cfm Indoor Coil Air Volume (C16-65, C16-65FC or CR16-65)

*Outdoor Temperature (°F)	Compressor Motor Watts Input	Total Output (Btuh)
65	5265	73,800
60	5050	69,800
55	4840	65,900
50	4625	61,900
47	4495	59,500
45	4420	57,500
40	4220	52,300
35	4025	47,100
30	3800	44,000
25	3575	40,800
20	3350	37,600
17	3215	35,700
15	3145	34,400
10	2970	31,000
5	2795	27,600
0	2625	24,200
-5	2450	20,900
-10	2275	17,500
-15	2100	14,100
-20	1930	10,700

*Outdoor temperature at 70% relative humidity. Indoor temperature at 70°F.

HP24-651-653 HEATING PERFORMANCE at 2150 cfm Indoor Coil Air Volume (CB19-51 or CBH19-51)

*Outdoor Temperature (°F)	Compressor Motor Watts Input	Total Output (Btuh)
65	5050	74,600
60	4855	70,500
55	4655	66,500
50	4455	62,400
47	4340	60,000
45	4265	57,900
40	4085	52,600
35	3900	47,300
30	3695	44,100
25	3485	40,800
20	3275	37,600
17	3150	35,600
15	3080	34,300
10	2910	30,900
5	2740	27,500
0	2570	24,100
-5	2400	20,800
-10	2230	17,400
-15	2060	14,000
-20	1890	10,700

*Outdoor temperature at 70% relative humidity. Indoor temperature at 70°F.

COOLING AND HEATING RATINGS

NOTE — To determine Sensible Capacity, Leaving Wet and Dry Bulb temperatures not shown in the tables, see Miscellaneous Engineering Data section, page 9.

HP24-651-653 COOLING CAPACITY WITH CB18-65 OR CBS18-65 INDOOR COIL UNIT

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Outdoor Coil (°F)																							
		85						95						105						115					
		Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)						
				Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)						
			75	80	85				75	80	85				75	80	85				75	80	85		
63	1925	60,700	4720	.73	.88	1.00	58,100	5090	.74	.90	1.00	55,400	5450	.76	.92	1.00	52,700	5800	.77	.94	1.00				
	2150	62,200	4770	.76	.91	1.00	59,500	5130	.77	.93	1.00	56,500	5500	.79	.95	1.00	53,700	5850	.80	.97	1.00				
	2375	63,400	4800	.78	.94	1.00	60,400	5170	.80	.96	1.00	57,600	5540	.81	.98	1.00	54,700	5900	.83	.99	1.00				
67	1925	64,200	4830	.57	.72	.86	61,500	5210	.58	.73	.87	58,600	5590	.59	.75	.89	55,800	5950	.60	.77	.91				
	2150	65,700	4860	.59	.75	.89	62,900	5250	.60	.76	.91	59,900	5630	.61	.78	.93	56,900	6010	.62	.80	.95				
	2375	66,900	4900	.60	.77	.92	63,900	5290	.61	.78	.94	60,900	5680	.62	.80	.96	57,700	6050	.63	.82	.99				
71	1925	68,000	4930	.43	.57	.72	65,100	5330	.43	.58	.73	62,100	5720	.43	.59	.74	59,000	6110	.44	.60	.75				
	2150	69,500	4960	.43	.58	.74	66,400	5370	.44	.59	.75	63,400	5770	.44	.60	.77	60,300	6160	.44	.62	.78				
	2375	70,500	4990	.44	.60	.76	67,400	5400	.44	.61	.78	64,300	5810	.45	.62	.79	61,000	6200	.45	.63	.81				

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

HP24-651-653 COOLING CAPACITY WITH CB19-65 OR CBH19-65 INDOOR COIL UNIT

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Outdoor Coil (°F)																							
		85						95						105						115					
		Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)						
				Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)						
			75	80	85				75	80	85				75	80	85				75	80	85		
63	1925	64,900	4840	.73	.87	1.00	62,000	5220	.74	.89	1.00	59,100	5600	.75	.92	1.00	56,200	5970	.77	.94	1.00				
	2150	66,500	4880	.75	.90	1.00	63,300	5270	.76	.93	1.00	60,400	5660	.78	.95	1.00	57,300	6030	.80	.97	1.00				
	2375	67,600	4910	.78	.93	1.00	64,700	5310	.79	.96	1.00	61,500	5700	.81	.98	1.00	58,600	6090	.82	1.00	1.00				
67	1925	68,600	4940	.57	.71	.85	65,600	5340	.58	.73	.87	62,500	5730	.58	.74	.88	59,100	6120	.59	.76	.90				
	2150	70,200	4980	.58	.73	.88	67,100	5380	.59	.75	.90	63,800	5790	.60	.77	.92	60,500	6170	.61	.79	.94				
	2375	71,400	5010	.60	.76	.91	68,200	5420	.61	.77	.93	64,700	5830	.62	.79	.96	61,500	6220	.63	.82	.98				
71	1925	71,600	5020	.42	.57	.71	68,600	5440	.43	.57	.72	65,400	5850	.43	.58	.74	62,200	6260	.43	.59	.75				
	2150	73,100	5060	.43	.58	.74	70,000	5480	.43	.59	.75	66,800	5900	.44	.60	.76	63,600	6310	.44	.61	.78				
	2375	74,400	5090	.44	.60	.76	71,100	5520	.44	.61	.77	67,800	5940	.44	.62	.79	64,600	6350	.45	.63	.81				

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

HP24-651-653 HEATING CAPACITY WITH CB18-65 OR CBS18-65 INDOOR COIL UNIT

Indoor Coil Air Volume (cfm) 70°F db	Air Temperature Entering Outdoor Coil (°F)									
	65		45		25		5		-15	
	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)
1925	74,800	5150	58,100	4355	41,100	3560	27,700	2810	13,800	2125
2150	75,400	5100	58,700	4300	41,700	3505	28,300	2755	14,400	2070
2375	76,000	5045	59,400	4250	42,400	3455	28,900	2705	15,100	2020

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

HP24-651-653 HEATING CAPACITY WITH CB19-65 OR CBH19-65 INDOOR COIL UNIT

Indoor Coil Air Volume (cfm) 70°F db	Air Temperature Entering Outdoor Coil (°F)									
	65		45		25		5		-15	
	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)
1925	75,100	5030	58,200	4270	41,000	3515	27,500	2785	13,700	2105
2150	75,700	4975	58,800	4215	41,600	3465	28,100	2735	14,300	2055
2375	76,400	4925	59,500	4165	42,200	3410	28,700	2680	15,000	2000

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

HP24-651-653 HEATING PERFORMANCE

at 2150 cfm Indoor Coil Air Volume (CB18-65 or CBS18-65)

*Outdoor Temperature (°F)	Compressor Motor Watts Input	Total Output (Btuh)
65	5100	75,400
60	4895	71,300
55	4695	67,300
50	4495	63,200
47	4375	60,800
45	4300	58,700
40	4115	53,400
35	3930	48,200
30	3720	45,000
25	3505	41,700
20	3295	38,500
17	3170	36,600
15	3100	35,200
10	2930	31,700
5	2755	28,300
0	2585	24,800
-5	2415	21,400
-10	2245	17,900
-15	2070	14,400
-20	1900	11,000

*Outdoor temperature at 70% relative humidity. Indoor temperature at 70°F.

HP24-651-653 HEATING PERFORMANCE

at 2150 cfm Indoor Coil Air Volume (CB19-65 or CBH19-65)

*Outdoor Temperature (°F)	Compressor Motor Watts Input	Total Output (Btuh)
65	4975	75,700
60	4785	71,600
55	4595	67,500
50	4400	63,400
47	4290	61,000
45	4215	58,800
40	4040	53,500
35	3865	48,100
30	3665	44,900
25	3465	41,600
20	3260	38,300
17	3140	36,300
15	3075	34,900
10	2905	31,500
5	2735	28,100
0	2565	24,600
-5	2395	21,200
-10	2225	17,800
-15	2055	14,300
-20	1885	10,900

*Outdoor temperature at 70% relative humidity. Indoor temperature at 70°F.

COOLING AND HEATING RATINGS

NOTE — To determine Sensible Capacity, Leaving Wet and Dry Bulb temperatures not shown in the tables, see Miscellaneous Engineering Data section, page 9.

HP24-651-653 COOLING CAPACITY WITH CH19-65 INDOOR COIL UNIT

En-ter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Outdoor Coil (°F)																							
		85						95						105						115					
		Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)			Total Cool. Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)						
				75	80	85			75	80	85			75	80	85			75	80	85				
63	2150	66,200	4880	.75	.91	1.00	63,500	5270	.77	.93	1.00	60,500	5660	.78	.95	1.00	57,200	6040	.80	.97	1.00				
	2375	67,700	4920	.78	.94	1.00	64,700	5310	.79	.96	1.00	61,600	5700	.81	.98	1.00	58,600	6090	.83	1.00	1.00				
67	2150	69,900	4980	.58	.74	.89	66,900	5380	.59	.75	.90	63,800	5790	.60	.77	.92	60,300	6180	.61	.79	.95				
	2375	71,000	5010	.60	.76	.92	67,700	5420	.61	.78	.94	64,700	5830	.62	.80	.96	61,400	6230	.63	.83	.98				
71	2150	73,300	5060	.43	.58	.74	70,200	5480	.43	.59	.75	67,000	5900	.43	.60	.76	63,800	6320	.44	.61	.78				
	2375	74,400	5090	.43	.59	.76	71,200	5520	.44	.60	.78	67,900	5940	.44	.62	.79	64,500	6360	.45	.63	.81				

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

HP24-651-653 HEATING CAPACITY WITH CH19-65 INDOOR COIL UNIT

Indoor Coil Air Volume (cfm) 70°F db	Air Temperature Entering Outdoor Coil (°F)									
	65		45		25		5		-15	
	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)	Total Htg. Cap. (Btuh)	Comp. Mtr. Input (W)
2150	75,900	4955	58,900	4205	41,600	3455	28,100	2725	14,300	2050
2375	76,500	4905	59,500	4150	42,200	3405	28,700	2675	15,000	2000

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

HP24-651-653 HEATING PERFORMANCE at 2150 cfm Indoor Coil Air Volume (CH19-65)

*Outdoor Temperature (°F)	Compressor Motor Watts Input	Total Output (Btuh)
65	4955	75,900
60	4765	71,700
55	4575	67,600
50	4385	63,500
47	4275	61,000
45	4205	58,900
40	4030	53,500
35	3855	48,200
30	3655	44,900
25	3455	41,600
20	3255	38,300
17	3135	36,300
15	3065	34,900
10	2895	31,500
5	2725	28,100
0	2560	24,600
-5	2390	21,200
-10	2220	17,800
-15	2050	14,300
-20	1880	10,900

*Outdoor temperature at 70% relative humidity. Indoor temperature at 70°F.