LENNOX®

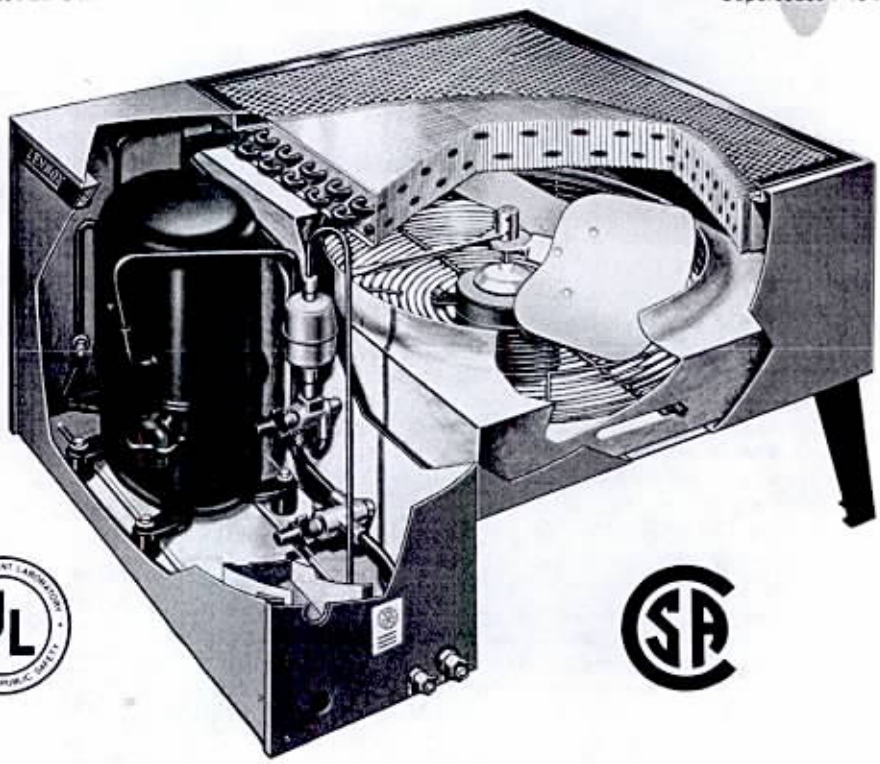
HS8 SERIES CONDENSING UNITS

RFC or EXPANSION VALVE SYSTEM

*18,300 to 61,000 Btuh (5.4 to 17.9 kW) Cooling Capacity

*At ARI Standard 210 Test Conditions.

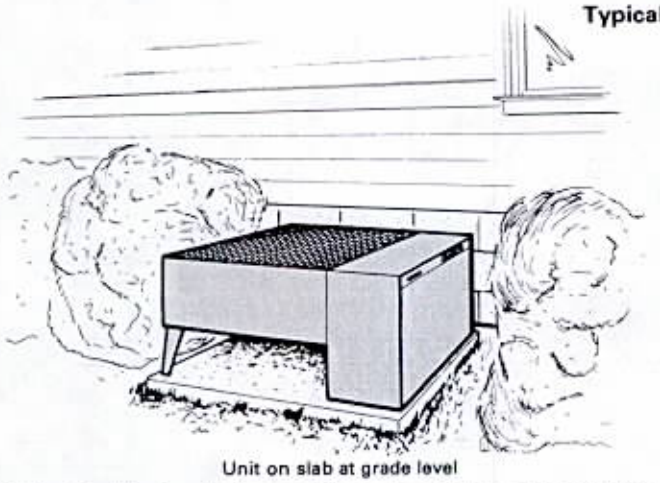
- Low Installation Cost
- Smooth and Quiet Operation
- Installation Flexibility
- Many Sizes Available
- Factory Assembled
- Quality Construction
- Compact Design
- Complete Service Access
- Efficient Direct Drive Fan
- Power Supply Choice



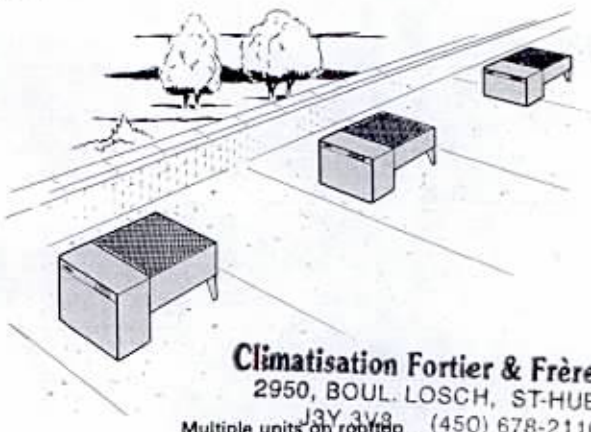
Low Silhouette Condensing Units Feature Dependability, Efficiency and Economy

Attractive styling, maximum efficiency, extremely quiet operation and ease of service have been stressed in the design of the HS8 line of Lennox condensing units. These compact and versatile condensing units can be installed (singly or in multiples) in residential, apartment building and commercial establishment applications. Unit is applicable to expansion valve or RFC system applications. The low height and upward discharge of air permits an easily concealed installation on a slab at grade level or out of sight on a roof top. A wide range of cooling capacities is possible with the large selection of up-flo, down-flo and horizontal evaporator units available. The rugged galvanized steel cabinet has a tough and durable baked-on outdoor enamel finish insuring maximum protection under the severest weather conditions. Compressor and controls are in a separate compartment completely isolating them from the weather and also keeping the sound level at a minimum. Direct drive fan moves large air volumes through the condenser coil quietly and with low power consumption. Straight through and upward air movement results in both lower operating cost and minimum air noise. Rugged condenser coil grille guard and heavy gauge steel fan guard provide maximum protection for air moving compartment. Units are shipped completely factory assembled, piped and wired ready to operate. In addition each unit is test operated at the factory insuring proper operation. Installer has only to set condensing unit in desired location, connect refrigerant lines and make electrical supply connections to complete the installation.

Typical Applications



Unit on slab at grade level



Multiple units on rooftop

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

FEATURES

Thoroughly Tested — Condensing units have been thoroughly tested with matching evaporator units in the Lennox environmental test room and accurately rated according to ARI Standard 210 conditions. In addition units have been sound tested in the Lennox reverberant sound test room and rated according to ARI Standard 270 conditions. Condensing units and components within are bonded for grounding to meet safety standards for servicing required by U.L. and CEC. Units are also U.L. Listed and listed CSA as Certified.

Durable Steel Cabinet — Heavy gauge galvanized steel cabinet has an electrostatic finishcoat which is baked on to provide a high quality outdoor enamel. The attractive finish gives the cabinet long lasting protection from all types of weather. Rugged discharge air grille has minimum resistance to air flow and provides quiet discharge of air. Grille also serves as heavy duty guard for the condensor coil.

Compressor and Controls Compartment — Separate compressor and controls compartment protects them from weather conditions and keeps sound transmission at a minimum. Large removable access panel provides complete service access. In addition entire cabinet wrapper sheet may be removed from compartment for total service access if required. Slots for refrigerant lines in wrapper sheet permit removal without disconnecting the lines. Extruded channels in base of compartment allows air movement beneath entire unit.

Dependable Compressor — The quietest and most reliable available. Resiliently mounted and, in addition, the entire running gear assembly is spring mounted within the sealed housing. 1-1/2 (5.5 kW) through 3 ton (11 kW) compressors have internal overload protection and internal automatic resetting high pressure relief. 4 (14 kW) and 5 ton (18 kW) compressors have external high pressure control, external overload protection and crankcase heaters. A low ambient compressor cutout is furnished and factory installed.

Quiet Condenser Air Movement — The condenser air moving compartment contains only the necessary components for air moving. This permits straight-through and upward discharge of air resulting in minimum restriction and extremely quiet operation. Direct drive fan is equipped with a totally enclosed and moisture proof motor. Heavy gauge galvanized steel fan guard is furnished as standard. Fan, motor and guard are attached together in one complete assembly and resiliently mounted in the unit. Slot mounting allows quick, easy removal and replacement of the entire fan assembly for service.

Large Condenser Coil — Lennox designed and fabricated coil is constructed of ripple-edged aluminum fins machine fitted to copper tubes for maximum strength and contact area. Long life copper tubing is corrosion-resistant and easy to field service. Each joint is silver soldered resulting in leakproof construction. Coil is thoroughly tested under pressure to insure leakproof construction. Horizontal coil mounting permits self cleaning from rain and also provides quick and easy access for cleaning by other means when required. Removal of fan assembly and air grille allows complete access to both sides of coil.

Expansion Valve System Refrigerant Lines and Service Valves — Suction and liquid lines are equipped with flare fittings. Refrigerant lines extend outside of cabinet for ease of connection. The following field modifications are required for use in expansion valve systems: remove liquid line restrictor from HS8-211FF, HS8-261FF, HS8-311FF, HS8-413FF, HS8-511FF, HS8-513FF, HS8-651FF and HS8-653FF. Add start control kits to the HS8-211FF, HS8-261FF, HS8-311FF and HS8-411FF. Start control kits are optional equipment and must be ordered extra. Specify complete unit model number when ordering. Start controls are furnished as standard with HS8-511FF and HS8-651FF models. Mounting holes are provided in the control box for field installation of start controls. The following are furnished and factory installed on all models; suction service valve, discharge service valve and hi-capacity drier.

Refrigerant Flow Control (RFC) Models — Lennox RFC (Refrigerant Flow Control) is a very accurate means of metering refrigerant in a system. Refrigerant metering control is accomplished by the exact sizing (bore and length) of liquid line, it must never be shortened. The whole principle of the Lennox RFC system involves the matching evaporator coil and the proper length and bore of the liquid line. This system is far superior to any ordinary small bore capillary tube system. The Lennox RFC system equalizes pressures almost instantly after the compressor stops. It therefore starts unloaded eliminating the need of any extra controls. The precise amount of refrigerant charge is added to the system at the factory resulting in trouble free operation. See selector table for unit availability.

RFC System Sealed Lines With Flare Fittings — The RFC refrigerant lines (suction and liquid) are shipped refrigeration clean. Lines are cleaned, dried and pressurized at the factory and sealed by means of a rubber plug. Plug fits tight enough to hold high pressures in the lines. These plugs should not be removed until connections are ready to made. Thus each RFC system is assured of perfectly clean and dry lines at all times. Suction line is available in different lengths. See table for selection.

Accessible Control Box — Large size and conveniently located in the compressor and controls compartment for easy access. Pre-wired at the factory. Holes are provided in cabinet for wiring entry. See dimension drawing for location.

Blower Relay Furnished — A blower relay is furnished as standard equipment with the condensing unit. Relay mounts in furnace or blower-coil activating operation during the cooling cycle.

Thermostat (Not Furnished) — Heating-cooling thermostat is optional equipment and must be ordered extra.

Two Speed Condenser Fan Kit (Optional) (HS8-211FF thru 411FF) — Factory installed two speed kit provides low fan motor speed for extra quiet operating sound level. Non-adjustable two speed fan thermostat senses the condensing temperature and will automatically switch the fan to low speed at approximately 75°F (24°C) ambient temperature. Thermostat switches fan to high speed at approximately 90°F (32°C) ambient temperature when larger air volumes are required. Kit number HS8-21/26 is required for HS8-211FF & 261FF models and HS8-31/41 for HS8-311FF & 411FF.

SPECIFICATIONS

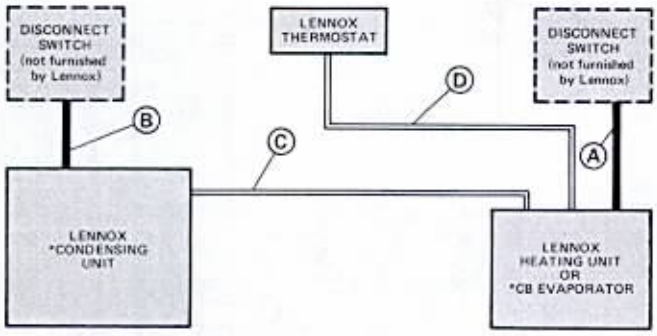
Model No.		HS8-211FF	HS8-261FF	HS8-311FF	HS8-411FF HS8-413FF	HS8-511FF HS8-513FF	HS8-651FF HS8-653FF
Condenser Coil	Net face area — sq. ft. (m^2)	2.92 (0.27)	3.65 (0.34)	4.34 (0.40)	4.34 (0.40)	6.25 (0.58)	6.25 (0.58)
	Tube diam. — in. (mm) & No. of rows	3/8 (10) — 2	3/8 (10) — 2	3/8 (10) — 2	3/8 (10) — 3	3/8 (10) — 3	3/8 (10) — 3
	Fins per inch (m)	15 (591)	15 (591)	15 (591)	15 (591)	15 (591)	18 (709)
Condenser Fan	Diameter — in. (mm) & No. of blades	20 (508) — 3	20 (508) — 3	20 (508) — 4	20 (508) — 4	24 (610) — 4	24 (610) — 4
	Motor horsepower (W)	1/6 (124)	1/6 (124)	1/4 (186)	1/4 (186)	1/3 (248)	1/3 (248)
	Air volume — cfm (L/s) factory setting	1750 (825)	1950 (920)	2300 (1085)	2190 (1035)	2920 (1380)	3140 (1480)
	Rev/min. factory setting	890	900	930	920	820	820
	Motor watts factory setting	235	225	345	340	430	535
Shipping weight — lbs. (kg) 1 package		192 (87)	204 (92)	218 (99)	233 (106)	340 (154)	355 (160)
Refrigerant (R-22) charge furnished — oz. (kg)		38 (1.08)	50 (1.42)	60 (1.70)	70 (1.98)	100 (2.83)	116 (3.29)
Liquid line connection — o.d. in. (mm) — flare		3/8 (10)	3/8 (10)	1/2 (13)	1/2 (13)	1/2 (13)	1/2 (13)
Suction line connection — o.d. in. (mm) — flare		5/8 (16)	5/8 (16)	3/4 (19)	3/4 (19)	3/4 (19)	3/4 (19)

SELECTOR

Condensing Unit Model No. and ★ (SRN)	*ARI Standard 210 Ratings					▲Expansion Valve Kit	Lennox Evaporator Unit		
	††EER Btuh/ Watt	Cooling Capacity Btuh	(kW)	Total Unit Watts	Dehumid-ifying Capacity		Up-Flo	Down-Flo	Horizontal
HS8-211FF (18)	6.4	18,300	5.4	2850	30%	♦ LB-25778CA	C5-220FF	----	----
	6.4	18,300	5.4	2860	30%	♦ LB-25778CA	**CB11-21FF	----	**CB11-21FF
	6.5	19,000	5.6	2920	29%	♦ LB-25778CA	----	CR2-26FF	CH2-26FF
	6.6	20,000	5.9	3050	26%	TC-24120	**CV10-420	----	----
	6.4	19,300	5.7	3000	27%	♦ LB-25778CA	**CB11-26FF	----	**CB11-26FF
	6.6	19,800	5.8	3020	27%	LB-25778CE	C5-330FF	----	----
HS8-261FF (19)	6.3	24,000	7.0	3830	31%	♦ LB-25778CE	C5-330FF	----	----
	6.3	24,000	7.0	3830	31%	♦ LB-25778CA	----	CR2-26FF	CH2-26FF
	6.4	24,600	7.2	3830	30%	TC-24120	**CV10-420	----	----
	6.4	24,400	7.1	3830	29%	♦ LB-25778CA	**CB11-26FF	----	**CB11-26FF
	6.4	24,800	7.3	3900	28%	LB-25778CB	**CB11-41FF	----	**CB11-41FF
	6.4	25,000	7.3	3900	25%	LB-25778CE	C5-495FF	----	----
	6.4	25,000	7.3	3900	25%	LB-25778CB	----	CR4-41FF	CH3-41FF
	6.4	25,000	7.3	3900	25%	LB-25778CA	C5-495WFF	----	----
HS8-311FF (19)	6.8	28,400	8.3	4200	30%	♦ LB-25778CB	**CB11-41FF	----	**CB11-41FF
	6.9	29,000	8.5	4200	29%	TC-24130	**CV10-525	----	----
	6.9	29,000	8.5	4200	29%	♦ LB-25778CB	----	CR1-41FF	CH3-41FF
	6.9	29,000	8.5	4200	29%	♦ LB-25778CE	C5-495FF	----	----
	6.9	29,000	8.5	4200	29%	♦ LB-25778CB	C5-495WFF	----	----
	7.1	30,400	8.9	4300	27%	LB-25778CF	C5-620FF C5-620WFF	----	----
HS8-411FF HS8-413FF (19)	6.7	35,000	10.3	5260	29%	♦ LB-25778CB	----	CR4-41FF	CH3-41FF
	6.7	35,800	10.5	5380	30%	♦ LB-25778CE	C5-495FF	----	----
	6.7	35,800	10.5	5350	30%	♦ LB-25778CB	C5-495WFF	----	----
	6.7	36,000	10.5	5340	31%	♦ LB-25778CB	**CB11-41FF	----	**CB11-41FF
	6.7	36,200	10.6	5400	30%	TC-24130	**CV10-525	----	----
	6.8	37,600	11.0	5500	26%	----	**CVP10-630	----	----
	6.8	37,200	10.9	5500	26%	LB-25778CC	----	CR4-51FF	CH3-51FF
	6.8	37,200	10.9	5500	26%	LB-25778CF	C5-620FF C5-620WFF	----	----
	6.9	39,000	11.4	5660	26%	LB-25778CC	**CB10-51	**CB10-51	**CB10-51
HS8-511FF HS8-513FF (19)	6.6	46,000	13.5	6960	28%	♦ LB-25778CC	C5-620FF C5-620WFF	----	----
	6.7	47,500	13.9	7120	28%	♦ LB-25778CC	----	----	CH3-51FF
	6.8	48,000	14.1	7100	28%	♦ LB-25778CC	----	CR4-51FF	----
	6.8	49,000	14.4	7220	24%	Factory Installed	**CVP10-840V	----	----
	6.8	49,000	14.4	7200	26%	LB-25778CF	C5-805FF	----	----
	6.9	50,000	14.7	7220	26%	LB-25778CD	----	----	CH10-1000FF
	6.9	51,500	15.1	7480	25%	♦ LB-25778CC	**CB10-51	**CB10-51	**CB10-51
HS8-651FF HS8-653FF (19)	6.5	54,000	15.8	8360	28%	LB-25778CD	C5-620FF C5-620WFF	----	----
	6.6	56,500	16.6	8620	25%	Factory Installed	**CVP10-840V	----	----
	6.4	54,500	16.0	8460	26%	LB-25778CD	C5-805FF	----	----
	6.6	58,000	17.0	8780	24%	LB-25778CD	C5-920FF	----	----
	6.6	58,000	17.0	8780	27%	LB-25778CD	----	CR4-65FF	CH10-1000FF
	6.6	59,000	17.3	9000	24%	♦ LB-25778CD	**CB10-65	**CB10-65	**CB10-65
	6.7	61,000	17.9	9060	24%	Factory Installed	**CVP10-1120V	----	----

††Energy Efficiency Ratio in accordance with ARI Standard 210.
★Sound Rating Number in accordance with ARI Standard 270.
*Rated in accordance with ARI Standard 210; 450 cfm (212 L/s) (maximum) evaporator air volume per ton of cooling, 95F (35C) outdoor air temperature, 80°F (27°C) db/67°F (19.4°C) wb entering evaporator air with 25 ft. (7.6m) of connecting refrigerant lines.
▲Kit is optional and must be ordered extra for field installation.
♦ Also available in RFC systems.
**Denotes blower powered evaporator.

FIELD WIRING



A — Two wire power (not furnished) — 16 ga.

B — Two or Three wire power (not furnished) — See Electrical Data.

C — Two wire low voltage (not furnished) — 18 ga. minimum.

D — Four wire low voltage (not furnished) — 18 ga. minimum.
All wiring must conform to CEC and local electrical codes.

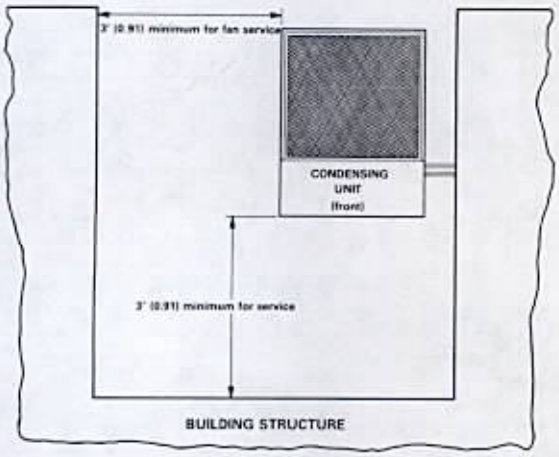
*Control transformer is not furnished with CB blower-coil units or condensing units. 20VA (minimum rating) transformer is required.

ELECTRICAL DATA

Model No.		HS8-211FF	HS8-261FF	HS8-311FF	HS8-411FF	HS8-413FF	HS8-511FF	HS8-513FF		HS8-651FF	HS8-653FF	
Line voltage data		208-230v 60hz/1ph	208-230v 60hz/1ph	208-230v 60hz/1ph	208-230v 60hz/1ph	208-240v 60hz/3ph	208-230v 60hz/1ph	208-240v 60hz/3ph	550-600v 60hz/3ph	208-230v 60hz/1ph	208-240v 60hz/3ph	550-600v 60hz/3ph
Comp.	Rated load amps	13.3	16.0	18.1	21.7	13.1	26.2	15.5	6.0	30.5	18.0	7.0
	Power factor	0.92	0.92	0.92	0.92	0.85	0.92	0.85	0.85	0.92	0.85	0.85
	Locked rotor amps	56	71	76	103	72	132	103	30	165	126	39
Condenser fan motor	Full load amps	0.8	0.8	2.8	2.8	2.8	2.3	2.3	2.3	2.7	2.7	2.7
	Locked rotor amps	1.6	1.6	6.7	6.7	6.7	4.2	4.2	4.2	4.9	4.9	4.9
Rec. Max. fuse size (amps)		30	35	40	60	30	80	60	20	90	70	25
*Minimum circuit ampacity		19.6	22.9	26.6	30.7	20.3	35.3	22.4	11.4	41.0	25.4	13.0

*Refer to Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.
NOTE — Extremes of line voltage operating range are plus 10% minus 5% for 208-230v, plus 10%, minus 10% for other voltages.

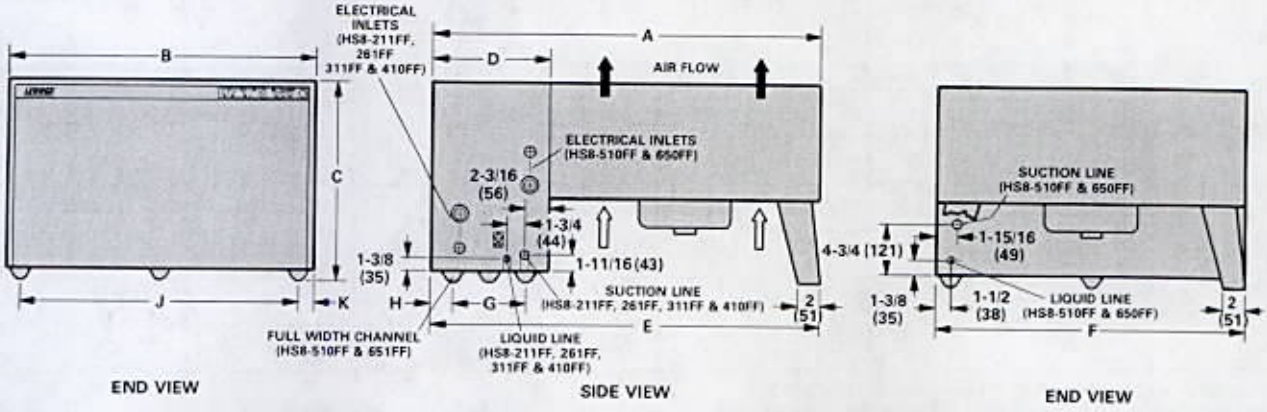
INSTALLATION CLEARANCES



RFC SYSTEM REFRIGERANT LINE SETS

Condensing Unit Model No.	Line Set Model No.	Length of Suction Line (ft.)	Length of Liquid Line (ft.)
RFC HS8-211FF HS8-261FF	L2-26-18FF	18	35
	L2-26-25FF	25	35
	L2-26-30FF	30	35
	L2-26-35FF	35	35
	L2-26-40FF	40	50
	L2-26-45FF	45	50
	L2-26-50FF	50	50
RFC HS8-311FF HS8-410FF	L6-41-20FF	20	50
	L6-41-30FF	30	50
	L6-41-40FF	40	50
	L6-41-50FF	50	50
RFC HS8-510FF HS8-650FF	L8-65-20FF	20	50
	L8-65-30FF	30	50
	L8-65-40FF	40	50
	L8-65-50FF	50	50

DIMENSIONS — inches (mm)



Model No.	A		B		C		D		E		F		G		H		J		K	
	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)
HS8-211-261	35-11/16	(906)	28	(71)	18	(457)	10-5/8	(270)	35-11/16	(906)	28	(71)	6	(152)	2-1/16	(52)	24-1/2	(622)	1-3/4	(44)
HS8-311-410	39-11/16	(1008)	28	(71)	18	(457)	10-5/8	(270)	39-11/16	(1008)	28	(71)	6	(152)	2-1/16	(52)	24-1/2	(622)	1-3/4	(44)
HS8-510-650	49-3/16	(1249)	33	(84)	25-1/2	(647)	15-1/8	(384)	49-3/16	(1249)	33	(84)	8-1/2	(216)	1-3/4	(44)	27	(686)	3	(76)

RATINGS

HS8-211FF WITH C5-220FF OR CB11-21FF EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil: 85°F (29°C) Total Cooling Capacity		Comp. Motor Watts Input	85°F (29°C) Sensible To Total Ratio (S/T) Dry Bulb			95°F (35°C) Total Cooling Capacity		Comp. Motor Watts Input	95°F (35°C) Sensible To Total Ratio (S/T) Dry Bulb			105°F (41°C) Total Cooling Capacity		Comp. Motor Watts Input	105°F (41°C) Sensible To Total Ratio (S/T) Dry Bulb		
	Liter/s	cfm	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C
63°F (17.2°C)	283	600	5.5	18,700	2130	.70	.81	.89	5.2	17,800	2260	.72	.83	.89	5.0	16,900	2380	.74	.86	.89
	319	675	5.6	19,100	2160	.73	.85	.89	5.3	18,200	2290	.75	.87	.89	5.0	17,200	2400	.77	.89	.89
	354	750	5.7	19,500	2180	.76	.88	.89	5.4	18,400	2310	.78	.89	.89	5.2	17,600	2430	.80	.89	.89
67°F (19.4°C)	283	600	5.8	19,800	2200	.55	.65	.75	5.5	18,800	2330	.56	.67	.77	5.2	17,800	2450	.57	.69	.80
	319	675	5.9	20,100	2220	.57	.68	.79	5.6	19,100	2350	.58	.70	.81	5.3	18,100	2460	.59	.72	.84
	354	750	6.0	20,400	2230	.58	.71	.82	5.7	19,300	2370	.60	.73	.85	5.4	18,300	2480	.61	.75	.88
71°F (21.7°C)	283	600	6.2	21,100	2280	.41	.51	.61	5.9	20,000	2410	.41	.52	.62	5.5	18,900	2530	.42	.53	.64
	319	675	6.3	21,400	2300	.42	.52	.63	5.9	20,300	2430	.42	.54	.65	5.6	19,200	2540	.43	.55	.67
	354	750	6.3	21,600	2310	.43	.54	.66	6.0	20,500	2440	.43	.55	.68	5.7	19,300	2550	.44	.57	.70

NOTE – To determine Sensible Capacity, Leaving Wet Bulb and Dry Bulb temperatures not shown in the tables see Miscellaneous Engineering Data section, Page 11.

HS8-211FF WITH CR2-26FF OR CH2-26FF EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																	
			85°F (29°C)						95°F (35°C)						105°F (41°C)					
			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	Liter/s	cfm	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C
63°F (17.2°C)	283	600	5.6	19,200	2180	.72	.82	.92	5.3	18,200	2300	.73	.84	.94	5.0	17,100	2410	.75	.86	.97
	319	675	5.7	19,500	2200	.74	.84	.95	5.4	18,500	2320	.75	.87	.98	5.1	17,400	2430	.77	.89	.99
	354	750	5.8	19,800	2220	.75	.87	.98	5.5	18,700	2340	.77	.89	.99	5.2	17,600	2450	.79	.92	.99
67°F (19.4°C)	283	600	6.0	20,600	2270	.57	.67	.76	5.7	19,500	2390	.58	.68	.78	5.4	18,400	2500	.59	.70	.80
	319	675	6.1	20,900	2290	.58	.68	.78	5.8	19,800	2410	.59	.70	.80	5.5	18,600	2520	.60	.72	.83
	354	750	6.2	21,200	2300	.59	.70	.81	5.9	20,100	2430	.60	.72	.83	5.5	18,900	2530	.62	.74	.86
71°F (21.7°C)	283	600	6.4	22,000	2350	.44	.53	.62	6.1	20,900	2480	.44	.54	.63	5.8	19,700	2580	.45	.55	.65
	319	675	6.6	22,400	2370	.44	.54	.63	6.2	21,200	2500	.45	.55	.65	5.8	19,900	2600	.45	.56	.67
	354	750	6.6	22,600	2380	.45	.55	.65	6.3	21,400	2510	.45	.56	.66	5.9	20,100	2610	.46	.57	.68

HS8-211FF WITH CV10-420V EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																	
			85°F (29°C)						95°F (35°C)						105°F (41°C)					
			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	Liter/s	cfm	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C
63°F (17.2°C)	283	600	6.0	20,400	2300	.71	.81	.91	5.6	19,200	2430	.72	.83	.93	5.3	18,100	2530	.74	.86	.93
	319	675	6.1	20,700	2320	.73	.85	.93	5.7	19,600	2450	.75	.87	.93	5.4	18,400	2560	.78	.90	.93
	354	750	6.2	21,100	2340	.76	.88	.93	5.8	19,900	2470	.78	.91	.93	5.5	18,700	2570	.81	.93	.93
67°F (19.4°C)	283	600	6.4	21,700	2380	.56	.66	.75	6.0	20,500	2510	.57	.67	.78	5.6	19,200	2610	.58	.69	.80
	319	675	6.4	22,000	2400	.57	.68	.79	6.1	20,800	2530	.58	.70	.81	5.7	19,500	2630	.60	.72	.84
	354	750	6.5	22,300	2420	.59	.71	.82	6.2	21,000	2540	.60	.73	.85	5.8	19,700	2640	.62	.75	.88
71°F (21.7°C)	283	600	6.8	23,200	2470	.42	.51	.61	6.4	21,800	2590	.43	.53	.62	6.0	20,500	2690	.43	.54	.64
	319	675	6.9	23,500	2480	.43	.53	.63	6.5	22,100	2610	.43	.54	.65	6.1	20,800	2710	.44	.56	.67
	354	750	6.9	23,700	2500	.44	.55	.66	6.6	22,400	2620	.44	.56	.68	6.2	21,000	2720	.45	.58	.70

HS8-211FF WITH CB11-26FF EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																	
			85°F (29°C)						95°F (35°C)						105°F (41°C)					
			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	Liter/s	cfm	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C
63°F (17.2°C)	283	600	5.8	19,700	2210	.71	.81	.91	5.5	18,600	2330	.72	.84	.94	5.1	17,500	2440	.74	.86	.94
	319	675	5.9	20,100	2230	.73	.85	.94	5.6	19,000	2360	.75	.87	.94	5.2	17,900	2470	.78	.90	.94
	354	750	6.0	20,400	2250	.76	.88	.94	5.7	19,300	2380	.78	.91	.94	5.4	18,300	2480	.80	.93	.94
67°F (19.4°C)	283	600	6.2	21,000	2290	.56	.66	.76	5.8	19,900	2410	.57	.67	.78	5.5	18,700	2520	.58	.69	.80
	319	675	6.2	21,300	2310	.57	.68	.79	5.9	20,200	2430	.59	.70	.81	5.6	19,000	2540	.60	.72	.84
	354	750	6.3	21,600	2330	.59	.71	.82	6.0	20,400	2450	.60	.73	.85	5.6	19,200	2550	.62	.75	.88
71°F (21.7°C)	283	600	6.6	22,400	2370	.42	.52	.61	6.2	21,200	2500	.43	.53	.62	5.8	19,900	2600	.43	.54	.64
	319	675	6.7	22,700	2390	.43	.53	.63	6.3	21,500	2510	.44	.54	.65	5.9	20,200	2620	.44	.56	.67
	354	750	6.7	23,000	2400	.44	.55	.66	6.4	21,700	2530	.44	.56	.67	6.0	20,400	2630	.45	.57	.70

HS8-211FF WITH C5-330FF EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																	
			85°F (29°C)						95°F (35°C)						105°F (41°C)					
			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	Liter/s	cfm	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C
63°F (17.2°C)	283	600	5.9	20,100	2240	.71	.82	.92	5.6	19,000	2370	.73	.84	.95	5.2	17,900	2480	.75	.87	.95
	319	675	6.0	20,400	2270	.74	.85	.95	5.7	19,300	2390	.75	.87	.95	5.3	18,200	2500	.78	.90	.95
	354	750	6.1	20,700	2280	.76	.88	.95	5.7	19,600	2410	.78	.90	.95	5.4	18,500	2520	.80	.94	.95
67°F (19.4°C)	283	600	6.3	21,500	2330	.56	.66	.76	5.9	20,300	2450	.57	.68	.78	5.6	19,100	2560	.58	.70	.81
	319	675	6.4	21,800	2350	.58	.68	.79	6.0	20,600	2470	.59	.70	.81	5.7	19,300	2580	.60	.72	.84
	354	750	6.5	22,100	2360	.59	.70	.82	6.1	20,800	2490	.60	.72	.84	5.7	19,500	2590	.62	.75	.87
71°F (21.7°C)	283	600	6.7	22,900	2410	.43	.52	.61	6.4	21,700	2540	.43	.53	.63	6.0	20,400	2640	.44	.54	.65
	319	675	6.8	23,200	2430	.43	.53	.63	6.4	21,900	2560	.44	.54	.65	6.0	20,600	2660	.44	.56	.67
	354	750	6.9	23,500	2440	.44	.55	.65	6.5	22,200	2570	.45	.56	.67	6.1	20,800	2670	.45	.57	.70

RATINGS

NOTE – To determine Sensible Capacity, Leaving Wet Bulb and Dry Bulb temperatures not shown in the tables see Miscellaneous Engineering Data section, Page 11.

HS8-261FF WITH C5-330FF, CR2-26FF OR CH2-26FF EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																	
			85°F (29°C)						95°F (35°C)						105°F (41°C)					
			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	Liter/s	cfm	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C
63°F (17.2°C)	378	800	7.2	24,400	2920	.70	.80	.90	6.8	23,200	3150	.71	.83	.92	6.4	21,900	3410	.74	.85	.92
	425	900	7.3	24,800	2940	.72	.83	.92	6.9	23,600	3170	.74	.86	.92	6.5	22,200	3430	.76	.89	.92
	472	1000	7.4	25,100	2980	.74	.85	.94	7.0	23,800	3200	.76	.88	.94	6.6	22,400	3440	.78	.91	.95
67°F (19.4°C)	378	800	7.6	26,100	3020	.55	.65	.75	7.2	24,700	3240	.56	.67	.77	6.8	23,200	3490	.57	.68	.79
	425	900	7.8	26,500	3050	.56	.67	.78	7.3	25,000	3260	.57	.69	.80	6.9	23,400	3500	.59	.71	.83
	472	1000	7.9	26,800	3060	.58	.69	.80	7.4	25,200	3270	.59	.71	.83	6.9	23,600	3510	.61	.73	.86
71°F (21.7°C)	378	800	8.1	27,800	3120	.42	.51	.60	7.7	26,200	3330	.42	.52	.62	7.2	24,500	3560	.43	.53	.64
	425	900	8.3	28,200	3140	.42	.52	.62	7.8	26,500	3340	.43	.53	.64	7.3	24,800	3570	.43	.55	.66
	472	1000	8.4	28,500	3150	.43	.53	.64	7.9	26,800	3360	.43	.55	.66	7.3	25,000	3580	.44	.56	.69

HS8-261FF WITH CB11-26FF OR CV10-420V EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																	
			85°F (29°C)						95°F (35°C)						105°F (41°C)					
			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	Liter/s	cfm	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C
63°F (17.2°C)	378	800	7.4	25,300	2910	.74	.85	.96	7.0	24,000	3140	.76	.87	.96	6.6	22,600	3400	.78	.90	.96
	425	900	7.6	25,800	2940	.77	.89	.96	7.2	24,400	3170	.78	.91	.96	6.8	23,100	3420	.81	.94	.96
	472	1000	7.7	26,200	2960	.79	.92	.96	7.3	24,800	3190	.81	.95	.96	6.9	23,400	3440	.84	.96	.96
67°F (19.4°C)	378	800	7.9	26,900	3010	.58	.69	.79	7.5	25,500	3230	.59	.70	.81	7.0	23,900	3470	.60	.71	.84
	425	900	8.0	27,300	3030	.60	.71	.83	7.6	25,800	3250	.61	.73	.85	7.1	24,200	3490	.62	.76	.88
	472	1000	8.1	27,600	3050	.61	.74	.86	7.6	26,100	3260	.63	.76	.89	7.2	24,400	3500	.64	.79	.92
71°F (21.7°C)	378	800	8.4	28,600	3100	.44	.54	.64	7.9	27,000	3310	.44	.55	.65	7.4	25,300	3540	.45	.56	.68
	425	900	8.5	29,000	3120	.44	.55	.66	8.0	27,300	3330	.45	.57	.68	7.5	25,600	3560	.46	.58	.71
	472	1000	8.6	29,300	3140	.45	.57	.69	8.1	27,600	3340	.46	.58	.71	7.6	25,800	3570	.47	.60	.73

HS8-261FF WITH C5-495FF, C5-495WFF, CB11-41FF, CR4-41FF OR CH3-41FF EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																	
			85°F (29°C)						95°F (35°C)						105°F (41°C)					
			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	Liter/s	cfm	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C
63°F (17.2°C)	378	800	7.6	25,900	3010	.78	.89	1.00	7.2	24,400	3220	.80	.92	1.00	6.7	22,900	3460	.82	.96	1.00
	425	900	7.7	26,300	3040	.81	.93	1.00	7.3	24,800	3240	.83	.96	1.00	6.8	23,200	3480	.86	1.00	1.00
	472	1000	7.9	26,800	3060	.84	.97	1.00	7.4	25,100	3260	.86	1.00	1.00	6.9	23,600	3500	.89	1.00	1.00
67°F (19.4°C)	378	800	8.1	27,500	3100	.61	.72	.83	7.6	25,800	3300	.62	.74	.86	7.1	24,100	3520	.64	.77	.90
	425	900	8.2	27,900	3120	.63	.75	.87	7.6	26,100	3320	.64	.77	.90	7.2	24,400	3540	.66	.80	.94
	472	1000	8.3	28,200	3140	.65	.78	.91	7.7	26,400	3330	.66	.81	.94	7.2	24,600	3550	.69	.84	.98
71°F (21.7°C)	378	800	8.6	29,200	3190	.46	.56	.67	8.0	27,400	3380	.46	.58	.69	7.4	25,400	3590	.47	.59	.72
	425	900	8.7	29,600	3210	.47	.58	.70	8.1	27,700	3390	.47	.60	.72	7.5	25,700	3600	.48	.62	.75
	472	1000	8.7	29,800	3220	.47	.60	.73	8.2	27,900	3410	.48	.62	.75	7.6	25,900	3610	.49	.64	.78

HS8-311FF WITH CB11-41FF EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																	
			85°F (29°C)						95°F (35°C)						105°F (41°C)					
			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	Liter/s	cfm	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C
63°F (17.2°C)	472	1000	8.7	29,800	3160	.71	.83	.86	8.2	28,100	3340	.73	.85	.86	7.7	26,400	3500	.76	.86	.86
	531	1125	8.9	30,200	3180	.74	.86	.86	8.4	28,700	3380	.77	.86	.86	7.9	27,100	3540	.80	.86	.86
	590	1250	9.1	30,900	3220	.77	.86	.86	8.6	29,300	3420	.80	.86	.86	8.1	27,600	3570	.83	.86	.86
67°F (19.4°C)	472	1000	9.2	31,400	3250	.55	.66	.77	8.6	29,500	3430	.56	.68	.80	8.1	27,600	3570	.58	.71	.83
	531	1125	9.3	31,800	3270	.57	.69	.81	8.8	29,900	3450	.59	.72	.84	8.2	28,000	3590	.61	.74	.86
	590	1250	9.4	32,100	3290	.59	.72	.85	8.9	30,200	3470	.61	.75	.86	8.3	28,300	3610	.63	.78	.86
71°F (21.7°C)	472	1000	9.8	33,300	3360	.41	.51	.62	9.2	31,300	3530	.41	.52	.64	8.6	29,300	3660	.42	.54	.66
	531	1125	9.9	33,700	3380	.42	.53	.65	9.3	31,700	3550	.42	.55	.67	8.6	29,500	3680	.43	.56	.69
	590	1250	10.0	34,000	3390	.42	.55	.68	9.3	31,900	3560	.43	.57	.70	8.7	29,800	3690	.44	.59	.73

RATINGS

NOTE – To determine Sensible Capacity, Leaving Wet Bulb and Dry Bulb temperatures not shown in the tables see Miscellaneous Engineering Data section, Page 11.

HS8-311FF WITH C5-495FF, C5-495WFF, CH3-41FF, CR4-41FF OR CV10-525V EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																	
			85°F (29°C)						95°F (35°C)						105°F (41°C)					
			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	Liter/s	cfm	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C
63°F (17.2°C)	472	1000	8.9	30,200	3170	.71	.83	.87	8.4	28,500	3350	.73	.85	.87	7.8	26,700	3490	.76	.87	.87
	531	1125	9.0	30,800	3190	.74	.86	.87	8.5	29,000	3380	.76	.87	.87	8.0	27,300	3530	.79	.87	.87
	590	1250	9.1	31,200	3230	.77	.87	.87	8.7	29,600	3410	.80	.87	.87	8.2	27,900	3560	.83	.87	.87
67°F (19.4°C)	472	1000	9.4	32,000	3270	.55	.66	.77	8.8	30,100	3440	.57	.68	.80	8.2	28,100	3570	.58	.71	.83
	531	1125	9.5	32,400	3290	.57	.69	.81	8.9	30,400	3460	.59	.71	.84	8.3	28,400	3590	.60	.74	.87
	590	1250	9.6	32,700	3310	.59	.72	.84	9.0	30,700	3470	.61	.74	.87	8.4	28,700	3610	.63	.77	.87
71°F (21.7°C)	472	1000	10.0	34,000	3370	.41	.51	.62	9.3	31,900	3540	.41	.53	.64	8.7	29,800	3670	.42	.54	.66
	531	1125	10.1	34,400	3390	.42	.53	.64	9.5	32,300	3560	.42	.54	.67	8.8	30,100	3680	.43	.56	.69
	590	1250	10.2	34,700	3410	.43	.55	.67	9.6	32,600	3570	.43	.56	.69	8.9	30,300	3700	.44	.58	.72

HS8-311FF WITH C5-620FF OR C5-620WFF EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																	
			85°F (29°C)						95°F (35°C)						105°F (41°C)					
			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	Liter/s	cfm	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C
63°F (17.2°C)	472	1000	9.3	31,700	3250	.78	.91	.95	8.8	29,900	3430	.80	.94	.95	8.2	27,900	3580	.83	.95	.95
	531	1125	9.4	32,000	3280	.81	.95	.95	8.9	30,400	3460	.84	.95	.95	8.4	28,700	3620	.87	.95	.95
	590	1250	9.6	32,800	3320	.85	.95	.95	9.1	31,100	3500	.88	.95	.95	8.6	29,200	3650	.91	.95	.95
67°F (19.4°C)	472	1000	9.8	33,500	3350	.60	.73	.85	9.2	31,500	3520	.62	.75	.88	8.6	29,300	3650	.64	.78	.91
	531	1125	10.0	34,000	3370	.63	.76	.89	9.3	31,800	3540	.64	.79	.92	8.7	29,700	3670	.67	.82	.95
	590	1250	10.1	34,300	3390	.65	.79	.93	9.4	32,200	3560	.67	.82	.95	8.8	30,000	3690	.69	.85	.95
71°F (21.7°C)	472	1000	10.4	35,600	3460	.45	.56	.68	9.8	33,400	3620	.45	.58	.70	9.1	31,100	3750	.46	.59	.73
	531	1125	10.6	36,000	3480	.46	.58	.71	9.9	33,800	3640	.47	.60	.73	9.2	31,400	3760	.48	.62	.76
	590	1250	10.6	36,300	3490	.47	.60	.74	10.0	34,000	3650	.48	.62	.77	9.3	31,700	3770	.49	.64	.80

HS8-411FF-413FF WITH CR4-41FF EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																	
			85°F (29°C)						95°F (35°C)						105°F (41°C)					
			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	Liter/s	cfm	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C
63°F (17.2°C)	649	1200	10.5	35,800	4040	.76	.87	.98	10.0	34,000	4230	.78	.89	1.00	9.4	32,100	4400	.80	.92	1.00
	732	1350	10.7	36,400	4060	.78	.90	1.00	10.1	34,500	4260	.80	.93	1.00	9.6	32,600	4430	.82	.96	1.00
	816	1500	10.8	36,900	4080	.80	.93	1.00	10.2	34,900	4280	.82	.96	1.00	9.7	33,000	4460	.85	.99	1.00
67°F (19.4°C)	649	1200	11.2	38,300	4150	.60	.70	.81	10.6	36,300	4360	.61	.72	.83	10.0	34,200	4550	.62	.74	.86
	732	1350	11.4	38,900	4170	.61	.72	.84	10.8	36,800	4380	.62	.74	.86	10.2	34,700	4580	.64	.76	.89
	816	1500	11.5	39,300	4190	.62	.74	.86	10.9	37,200	4410	.64	.76	.89	10.3	35,000	4600	.65	.79	.92
71°F (21.7°C)	649	1200	12.0	40,900	4260	.45	.55	.65	11.4	38,800	4490	.46	.56	.67	10.7	36,500	4710	.46	.58	.69
	732	1350	12.1	41,400	4280	.46	.57	.67	11.5	39,200	4520	.46	.58	.69	10.8	37,000	4740	.47	.59	.71
	816	1500	12.3	41,800	4300	.47	.58	.69	11.6	39,600	4540	.47	.59	.71	10.9	37,300	4760	.48	.61	.73

HS8-411FF-413FF WITH C5-495FF, C5-495WFF, CB11-41FF OR CH3-41FF EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																	
			85°F (29°C)						95°F (35°C)						105°F (41°C)					
			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	Liter/s	cfm	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C
63°F (17.2°C)	649	1200	10.8	36,700	4130	.70	.81	.91	10.2	34,800	4340	.72	.83	.91	9.6	32,800	4520	.74	.86	.91
	732	1350	11.0	37,400	4160	.73	.84	.91	10.4	35,400	4370	.75	.87	.91	9.8	33,500	4560	.77	.90	.91
	816	1500	11.1	38,000	4190	.76	.88	.91	10.6	36,200	4400	.78	.90	.91	10.0	34,000	4610	.80	.91	.91
67°F (19.4°C)	649	1200	11.5	39,100	4240	.55	.65	.75	10.8	37,000	4460	.56	.67	.78	10.2	34,800	4660	.57	.69	.80
	732	1350	11.6	39,700	4260	.57	.68	.79	11.0	37,500	4490	.58	.70	.81	10.3	35,300	4700	.59	.72	.84
	816	1500	11.8	40,100	4290	.58	.70	.82	11.1	38,000	4520	.60	.72	.85	10.5	35,700	4730	.61	.75	.88
71°F (21.7°C)	649	1200	12.2	41,600	4350	.41	.51	.61	11.5	39,400	4600	.42	.52	.62	10.9	37,100	4820	.42	.53	.64
	732	1350	12.4	42,200	4380	.42	.53	.63	11.7	39,900	4630	.43	.54	.65	11.0	37,600	4860	.43	.55	.67
	816	1500	12.5	42,600	4400	.43	.54	.66	11.8	40,300	4650	.44	.56	.67	11.1	38,000	4880	.44	.57	.70

RATINGS

NOTE – To determine Sensible Capacity, Leaving Wet Bulb and Dry Bulb temperatures not shown in the tables see Miscellaneous Engineering Data section, Page 11.

HS8-411FF-413FF WITH CV10-525V EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																	
			85°F (29°C)						95°F (35°C)						105°F (41°C)					
			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	Liter/s	cfm	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C
63°F (17.2°C)	566	1200	10.9	37,100	4150	.70	.81	.91	10.3	35,100	4360	.72	.83	.91	9.7	33,100	4540	.74	.86	.91
	637	1350	11.0	37,700	4180	.73	.84	.91	10.5	35,800	4390	.75	.87	.91	9.9	33,800	4590	.77	.90	.91
	708	1500	11.3	38,400	4210	.76	.88	.91	10.7	36,600	4420	.78	.90	.91	10.1	34,300	4630	.80	.91	.91
67°F (19.4°C)	566	1200	11.6	39,500	4260	.55	.65	.76	11.0	37,400	4480	.56	.67	.78	10.3	35,200	4690	.58	.69	.80
	637	1350	11.7	40,000	4280	.57	.68	.79	11.1	37,900	4510	.58	.70	.81	10.4	35,600	4720	.59	.72	.84
	708	1500	11.9	40,500	4300	.58	.70	.82	11.2	38,300	4540	.60	.72	.85	10.6	36,000	4750	.61	.75	.88
71°F (21.7°C)	566	1200	12.3	42,000	4370	.42	.51	.61	11.7	39,800	4620	.42	.52	.62	11.0	37,500	4850	.43	.53	.64
	637	1350	12.5	42,600	4400	.42	.53	.63	11.8	40,300	4650	.43	.54	.65	11.1	37,900	4880	.43	.55	.67
	708	1500	12.6	43,000	4420	.43	.54	.66	11.9	40,700	4670	.44	.56	.68	11.2	38,300	4900	.44	.57	.70

HS8-411FF-413FF WITH CVP10-630V EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																	
			85°F (29°C)						95°F (35°C)						105°F (41°C)					
			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	Liter/s	cfm	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C
63°F (17.2°C)	566	1200	11.3	38,600	4200	.74	.86	.96	10.7	36,500	4410	.76	.88	.96	10.1	34,400	4610	.79	.91	.96
	637	1350	11.5	39,200	4230	.77	.89	.96	10.9	37,200	4450	.79	.92	.96	10.3	35,200	4650	.82	.95	.96
	708	1500	11.7	39,800	4250	.80	.93	.96	11.0	37,400	4470	.82	.96	.96	10.4	35,600	4690	.85	.96	.96
67°F (19.4°C)	566	1200	12.0	41,100	4310	.58	.69	.80	11.4	38,800	4540	.60	.71	.82	10.7	36,500	4750	.61	.73	.85
	637	1350	12.2	41,600	4330	.60	.72	.83	11.5	39,300	4570	.61	.74	.86	10.8	36,900	4780	.63	.76	.89
	708	1500	12.3	42,000	4350	.62	.75	.87	11.6	39,700	4590	.63	.77	.90	10.9	37,300	4810	.65	.79	.93
71°F (21.7°C)	566	1200	12.8	43,700	4430	.44	.54	.64	12.1	41,300	4680	.44	.55	.66	11.4	38,900	4920	.45	.57	.68
	637	1350	13.0	44,200	4450	.45	.56	.67	12.3	41,800	4710	.45	.57	.69	11.5	39,300	4950	.46	.59	.71
	708	1500	13.1	44,600	4470	.45	.57	.69	12.4	42,200	4730	.46	.59	.71	11.6	39,600	4970	.47	.60	.74

HS8-411FF-413FF WITH CR4-51FF EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																	
			85°F (29°C)						95°F (35°C)						105°F (41°C)					
			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	Liter/s	cfm	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C
63°F (17.2°C)	566	1200	11.2	38,300	4200	.73	.84	.94	10.6	36,200	4420	.75	.86	.94	10.0	34,100	4620	.77	.89	.94
	637	1350	11.4	39,000	4230	.75	.87	.94	10.8	36,900	4450	.78	.90	.94	10.2	34,800	4660	.80	.93	.94
	708	1500	11.6	39,600	4250	.78	.91	.94	10.9	37,100	4480	.81	.94	.94	10.3	35,300	4700	.83	.94	.94
67°F (19.4°C)	566	1200	12.0	40,800	4310	.57	.68	.78	11.3	38,500	4550	.58	.69	.80	10.6	36,200	4760	.60	.72	.83
	637	1350	12.1	41,400	4340	.59	.70	.82	11.4	39,000	4580	.60	.72	.84	10.8	36,700	4800	.62	.75	.87
	708	1500	12.3	41,800	4360	.60	.73	.85	11.5	39,400	4600	.62	.75	.88	10.8	37,000	4820	.64	.78	.91
71°F (21.7°C)	566	1200	12.7	43,400	4430	.43	.53	.63	12.0	41,000	4690	.43	.54	.65	11.3	38,500	4930	.44	.55	.66
	637	1350	12.9	43,900	4460	.44	.55	.65	12.2	41,500	4720	.44	.56	.67	11.4	39,000	4960	.45	.57	.69
	708	1500	13.0	44,400	4480	.44	.56	.68	12.3	41,900	4740	.45	.58	.70	11.5	39,300	4980	.46	.59	.72

HS8-411FF-413FF WITH C5-620FF, C5-620WFF OR CH3-51FF EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																	
			85°F (29°C)						95°F (35°C)						105°F (41°C)					
			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	Liter/s	cfm	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C
63°F (17.2°C)	566	1200	11.2	38,100	4190	.74	.85	.95	10.6	36,100	4410	.76	.87	.95	10.0	34,000	4600	.78	.90	.95
	637	1350	11.3	38,700	4220	.76	.89	.95	10.8	36,700	4440	.79	.91	.95	10.1	34,600	4640	.81	.94	.95
	708	1500	11.5	39,400	4250	.79	.92	.95	10.8	36,900	4470	.81	.95	.95	10.3	35,100	4690	.84	.95	.95
67°F (19.4°C)	566	1200	11.9	40,500	4300	.58	.68	.79	11.2	38,300	4540	.59	.70	.81	10.6	36,000	4750	.60	.72	.84
	637	1350	12.0	41,100	4330	.59	.71	.83	11.4	38,800	4560	.61	.73	.85	10.7	36,500	4780	.62	.75	.88
	708	1500	12.2	41,500	4350	.61	.74	.86	11.5	39,200	4590	.63	.76	.89	10.8	36,900	4810	.64	.78	.92
71°F (21.7°C)	566	1200	12.6	43,100	4420	.43	.54	.64	12.0	40,800	4680	.44	.55	.65	11.3	38,400	4910	.45	.56	.67
	637	1350	12.8	43,700	4450	.44	.55	.66	12.1	41,300	4710	.45	.56	.68	11.4	38,800	4940	.45	.58	.70
	708	1500	12.9	44,100	4470	.45	.57	.69	12.2	41,600	4730	.46	.58	.71	11.5	39,100	4960	.46	.60	.73

RATINGS

NOTE – To determine Sensible Capacity, Leaving Wet Bulb and Dry Bulb temperatures not shown in the tables see Miscellaneous Engineering Data section, Page 11.

HS8-411FF-413FF WITH CB10-51 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																
			85°F (29°C)						95°F (35°C)						105°F (41°C)				
			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	Liter/s	cfm	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C
63°F (17.2°C)	566	1200	11.8	40,100	4260	.75	.86	.97	11.1	37,900	4490	.77	.89	.97	10.4	35,600	4690	.79	.92	.97
	637	1350	12.0	40,800	4300	.78	.90	.97	11.3	38,600	4530	.80	.93	.97	10.7	36,500	4740	.83	.96	.97
	708	1500	12.2	41,500	4330	.81	.94	.97	11.5	39,100	4560	.83	.97	.97	10.8	37,000	4790	.86	.97	.97
67°F (19.4°C)	566	1200	12.5	42,600	4380	.59	.70	.80	11.8	40,200	4620	.60	.72	.83	11.1	37,800	4840	.61	.74	.86
	637	1350	12.7	43,300	4410	.61	.73	.84	12.0	40,800	4660	.62	.75	.87	11.2	38,300	4880	.64	.77	.90
	708	1500	12.8	43,800	4430	.63	.75	.88	12.1	41,300	4680	.64	.78	.91	11.3	38,700	4910	.66	.80	.94
71°F (21.7°C)	566	1200	13.3	45,300	4500	.44	.55	.65	12.5	42,700	4770	.45	.56	.66	11.8	40,200	5010	.45	.57	.69
	637	1350	13.5	45,900	4530	.45	.56	.68	12.7	43,300	4800	.46	.58	.70	11.9	40,700	5040	.46	.59	.72
	708	1500	13.6	46,400	4560	.46	.58	.70	12.8	43,800	4830	.47	.60	.73	12.0	41,100	5070	.48	.61	.75

HS8-511FF-513FF WITH C5-620FF OR C5-620WFF EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																
			85°F (29°C)						95°F (35°C)						105°F (41°C)				
			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	Liter/s	cfm	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C
63°F (17.2°C)	755	1600	13.9	47,400	5320	.80	.92	1.00	13.1	44,700	5700	.82	.95	1.00	12.3	41,900	6110	.85	.98	1.00
	849	1800	14.2	48,400	5380	.83	.96	1.00	13.4	45,700	5750	.85	.99	1.00	12.5	42,700	6160	.88	1.00	1.00
	944	2000	14.4	49,300	5420	.86	1.00	1.00	13.6	46,400	5800	.88	1.00	1.00	12.8	43,800	6220	.92	1.00	1.00
67°F (19.4°C)	755	1600	14.9	50,700	5510	.62	.74	.85	14.0	47,800	5870	.63	.76	.88	13.1	44,700	6260	.65	.78	.91
	849	1800	15.1	51,500	5550	.64	.77	.89	14.2	48,500	5910	.65	.79	.92	13.3	45,400	6300	.67	.82	.96
	944	2000	15.3	52,200	5590	.66	.79	.93	14.4	49,100	5940	.67	.82	.96	13.5	46,000	6320	.69	.85	1.00
71°F (21.7°C)	755	1600	15.9	54,400	5700	.46	.57	.68	15.0	51,300	6050	.47	.59	.70	14.1	48,100	6430	.48	.60	.72
	849	1800	16.2	55,200	5730	.47	.59	.71	15.2	52,000	6080	.48	.61	.73	14.3	48,800	6460	.49	.62	.76
	944	2000	16.4	55,800	5760	.48	.61	.74	15.4	52,600	6110	.49	.62	.76	14.4	49,300	6480	.50	.64	.79

HS8-511FF-513FF WITH CH3-51FF EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																
			85°F (29°C)						95°F (35°C)						105°F (41°C)				
			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	Liter/s	cfm	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C
63°F (17.2°C)	755	1600	14.2	48,300	5420	.71	.81	.90	13.3	45,500	5820	.73	.84	.90	12.5	42,700	6230	.75	.87	.90
	849	1800	14.4	49,300	5480	.73	.85	.90	13.6	46,500	5870	.75	.88	.90	12.7	43,500	6280	.78	.90	.90
	944	2000	14.7	50,300	5530	.76	.88	.90	13.9	47,300	5910	.78	.90	.90	13.1	44,700	6340	.81	.90	.90
67°F (19.4°C)	755	1600	15.2	51,800	5620	.55	.65	.76	14.3	48,800	5990	.56	.67	.78	13.4	45,600	6390	.58	.69	.81
	849	1800	15.4	52,600	5670	.57	.68	.79	14.5	49,500	6030	.58	.70	.82	13.6	46,300	6430	.60	.72	.85
	944	2000	15.6	53,300	5700	.58	.70	.82	14.7	50,200	6070	.60	.73	.85	13.8	47,000	6460	.62	.75	.88
71°F (21.7°C)	755	1600	16.3	55,500	5810	.41	.51	.61	15.4	52,400	6170	.42	.52	.62	14.4	49,200	6560	.42	.53	.64
	849	1800	16.5	56,400	5850	.42	.52	.63	15.6	53,100	6210	.42	.54	.65	14.6	49,800	6590	.43	.55	.67
	944	2000	16.7	57,100	5890	.43	.54	.65	15.8	53,800	6240	.43	.55	.67	14.8	50,400	6620	.44	.57	.70

HS8-511FF-513FF WITH CR4-51FF EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																
			85°F (29°C)						95°F (35°C)						105°F (41°C)				
			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	Liter/s	cfm	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C
63°F (17.2°C)	755	1600	14.4	49,100	5420	.71	.82	.91	13.5	46,200	5790	.73	.85	.91	12.7	43,400	6180	.76	.88	.91
	849	1800	14.7	50,000	5470	.74	.86	.91	13.8	47,200	5830	.76	.88	.91	12.9	44,000	6230	.79	.91	.91
	944	2000	14.9	50,900	5510	.76	.89	.91	14.0	47,800	5880	.79	.91	.91	13.2	45,200	6290	.82	.91	.91
67°F (19.4°C)	755	1600	15.4	52,600	5610	.56	.66	.76	14.5	49,500	5960	.57	.68	.79	13.6	46,300	6340	.58	.70	.82
	849	1800	15.6	53,400	5650	.57	.68	.80	14.7	50,200	6000	.58	.71	.82	13.7	46,900	6370	.60	.73	.85
	944	2000	15.8	54,000	5680	.59	.71	.83	14.9	50,800	6030	.60	.73	.86	13.9	47,500	6400	.62	.76	.89
71°F (21.7°C)	755	1600	16.5	56,400	5790	.42	.51	.61	15.6	53,200	6130	.42	.53	.63	14.6	49,900	6500	.43	.54	.65
	849	1800	16.7	57,100	5820	.42	.53	.63	15.8	53,800	6160	.43	.54	.65	14.8	50,500	6530	.44	.56	.68
	944	2000	16.9	57,800	5850	.43	.54	.66	15.9	54,400	6190	.44	.56	.68	14.9	51,000	6550	.45	.57	.70

RATINGS

NOTE – To determine Sensible Capacity, Leaving Wet Bulb and Dry Bulb temperatures not shown in the tables see Miscellaneous Engineering Data section, Page 11.

HS8-511FF-513FF WITH CVP10-840V EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																
			85°F (29°C)						95°F (35°C)						105°F (41°C)				
			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	Liter/s	cfm	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C
63°F (17.2°C)	755	1600	14.7	50,000	5530	.77	.88	.97	13.8	47,100	5900	.79	.91	.97	13.0	44,200	6290	.82	.95	.97
	849	1800	14.9	51,000	5580	.79	.92	.97	14.1	48,100	5940	.82	.95	.97	13.2	45,000	6340	.85	.97	.97
	944	2000	15.2	51,900	5620	.82	.96	.97	14.3	48,800	5990	.85	.97	.97	13.5	46,100	6400	.88	.97	.97
67°F (19.4°C)	755	1600	15.7	53,500	5710	.60	.71	.82	14.7	50,300	6060	.61	.73	.85	13.8	47,100	6440	.63	.76	.88
	849	1800	15.9	54,300	5750	.61	.74	.86	14.9	51,000	6100	.63	.76	.89	14.0	47,700	6480	.65	.79	.92
	944	2000	16.1	54,900	5780	.63	.76	.89	15.1	51,600	6120	.65	.79	.92	14.2	48,300	6500	.67	.82	.96
71°F (21.7°C)	755	1600	16.8	57,300	5890	.45	.55	.66	15.8	54,000	6230	.45	.56	.68	14.8	50,600	6600	.46	.58	.70
	849	1800	17.0	58,100	5930	.45	.57	.68	16.0	54,700	6260	.46	.58	.71	15.0	51,200	6630	.47	.60	.73
	944	2000	17.2	58,700	5950	.46	.59	.71	16.2	55,300	6290	.47	.60	.73	15.2	51,800	6650	.48	.62	.76

HS8-511FF-513FF WITH C5-805FF EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																
			85°F (29°C)						95°F (35°C)						105°F (41°C)				
			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	Liter/s	cfm	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C
63°F (17.2°C)	755	1600	14.7	50,200	5510	.77	.88	.97	13.9	47,300	5880	.79	.91	.97	13.0	44,300	6280	.82	.95	.97
	849	1800	15.0	51,200	5560	.79	.92	.97	14.1	48,200	5920	.82	.95	.97	13.2	45,100	6320	.85	.97	.97
	944	2000	15.2	52,000	5600	.82	.96	.97	14.3	48,900	5970	.85	.97	.97	13.5	46,200	6380	.88	.97	.97
67°F (19.4°C)	755	1600	15.7	53,700	5690	.60	.71	.82	14.8	50,500	6050	.61	.73	.85	13.3	47,200	6430	.63	.75	.88
	849	1800	15.9	54,400	5730	.61	.74	.86	15.0	51,200	6080	.63	.76	.89	14.0	47,900	6460	.65	.79	.92
	944	2000	16.1	55,100	5760	.63	.76	.89	15.2	51,800	6110	.65	.79	.92	14.2	48,400	6480	.67	.82	.96
71°F (21.7°C)	755	1600	16.9	57,500	5870	.45	.55	.66	15.9	54,200	6220	.45	.56	.68	14.9	50,800	6590	.46	.58	.70
	849	1800	17.1	58,200	5910	.45	.57	.68	16.1	54,900	6250	.46	.58	.70	15.1	51,400	6620	.47	.60	.73
	944	2000	17.3	58,900	5940	.46	.59	.71	16.3	55,500	6270	.47	.60	.73	15.2	51,900	6640	.48	.62	.76

HS8-511FF-513FF WITH CH10-1000FF EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																
			85°F (29°C)						95°F (35°C)						105°F (41°C)				
			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	Liter/s	cfm	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C
63°F (17.2°C)	755	1600	14.9	50,800	5490	.74	.85	.94	14.0	47,900	5860	.76	.88	.94	13.2	44,900	6260	.78	.91	.94
	849	1800	15.2	51,900	5550	.76	.89	.94	14.3	48,900	5910	.79	.92	.94	13.4	45,700	6310	.82	.94	.94
	944	2000	15.5	52,900	5590	.79	.92	.94	14.6	49,700	5960	.82	.94	.94	13.8	47,000	6370	.85	.94	.94
67°F (19.4°C)	755	1600	16.0	54,500	5680	.57	.68	.79	15.0	51,300	6030	.59	.70	.81	14.0	47,900	6420	.60	.73	.84
	849	1800	16.2	55,400	5720	.59	.71	.82	15.3	52,100	6070	.61	.73	.85	14.3	48,700	6450	.62	.76	.89
	944	2000	16.4	56,100	5760	.61	.74	.86	15.5	52,800	6110	.63	.76	.89	14.4	49,300	6480	.64	.79	.93
71°F (21.7°C)	755	1600	17.1	58,400	5860	.43	.53	.63	16.1	55,100	6210	.44	.54	.65	15.1	51,600	6580	.44	.56	.67
	849	1800	17.4	59,300	5900	.44	.55	.66	16.4	55,900	6240	.44	.56	.68	15.3	52,300	6610	.45	.58	.70
	944	2000	17.6	60,000	5930	.45	.57	.68	16.6	56,500	6270	.45	.58	.71	15.5	52,900	6640	.46	.60	.73

HS8-511FF-513FF WITH CB10-51FF EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																
			85°F (29°C)						95°F (35°C)						105°F (41°C)				
			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	Liter/s	cfm	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C
63°F (17.2°C)	755	1600	15.3	52,300	5760	.72	.83	.92	14.4	49,300	6140	.74	.86	.92	13.5	46,100	6560	.77	.89	.92
	849	1800	15.6	53,400	5820	.75	.87	.92	14.7	50,300	6200	.77	.90	.92	13.8	47,000	6610	.80	.92	.92
	944	2000	15.9	54,400	5870	.78	.90	.92	15.0	51,200	6250	.80	.92	.92	14.2	48,300	6670	.83	.92	.92
67°F (19.4°C)	755	1600	16.4	55,900	5950	.56	.67	.77	15.4	52,600	6320	.58	.69	.80	14.4	49,100	6710	.59	.71	.83
	849	1800	16.6	56,800	6000	.58	.70	.81	15.6	53,400	6360	.59	.72	.84	14.6	49,900	6750	.61	.74	.87
	944	2000	16.9	57,500	6030	.60	.72	.84	15.9	54,100	6390	.61	.75	.87	14.8	50,600	6780	.63	.77	.91
71°F (21.7°C)	755	1600	17.5	59,800	6140	.42	.52	.62	16.5	56,400	6490	.43	.53	.64	15.5	52,900	6880	.43	.55	.66
	849	1800	17.8	60,700	6180	.43	.54	.65	16.8	57,200	6530	.44	.55	.67	15.7	53,600	6910	.44	.57	.69
	944	2000	18.0	61,400	6210	.44	.56	.67	16.9	57,800	6550	.44	.57	.69	15.9	54,200	6930	.45	.59	.72

RATINGS

NOTE – To determine Sensible Capacity, Leaving Wet Bulb and Dry Bulb temperatures not shown in the tables see Miscellaneous Engineering Data section, Page 11.

HS8-651FF-653FF WITH C5-620FF OR C5-620WFF EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																
			85°F (29°C)						95°F (35°C)						105°F (41°C)				
			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	Liter/s	cfm	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C
63°F (17.2°C)	1093	2000	16.7	56,900	6380	.79	.91	1.00	15.7	53,600	6870	.81	.94	1.00	14.7	50,300	7440	.84	.97	1.00
	1232	2250	17.0	57,900	6470	.82	.95	1.00	16.0	54,700	6950	.84	.98	1.00	14.9	51,000	7540	.87	1.00	1.00
	1371	2500	17.3	58,900	6530	.85	.99	1.00	16.2	55,300	7030	.88	1.00	1.00	15.3	52,100	7660	.91	1.00	1.00
67°F (19.4°C)	1093	2000	17.7	60,300	6660	.62	.73	.85	16.6	56,600	7160	.63	.76	.88	15.5	52,800	7760	.65	.78	.91
	1232	2250	17.9	61,100	6730	.64	.76	.89	16.8	57,300	7230	.65	.79	.92	15.6	53,400	7830	.67	.82	.96
	1371	2500	18.1	61,700	6780	.65	.79	.93	17.0	57,900	7290	.67	.82	.96	15.8	54,000	7890	.69	.85	1.00
71°F (21.7°C)	1093	2000	18.7	63,900	6960	.46	.57	.68	17.6	60,000	7490	.47	.59	.70	16.4	55,800	8130	.48	.60	.73
	1232	2250	19.0	64,700	7020	.47	.59	.71	17.8	60,600	7560	.48	.61	.74	16.5	56,400	8190	.49	.63	.76
	1371	2500	19.1	65,300	7070	.48	.61	.74	17.9	61,100	7610	.49	.63	.77	16.6	56,800	8250	.50	.65	.80

HS8-651FF-653FF WITH CVP10-840V EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																
			85°F (29°C)						95°F (35°C)						105°F (41°C)				
			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	Liter/s	cfm	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C
63°F (17.2°C)	1093	2000	17.5	59,600	6570	.79	.91	.99	16.4	56,000	7060	.81	.94	.99	15.3	52,200	7650	.84	.98	.99
	1232	2250	17.8	60,700	6650	.82	.95	.99	16.7	57,100	7140	.85	.98	.99	15.6	53,100	7760	.88	.99	.99
	1371	2500	17.9	61,100	6710	.85	.99	.99	17.0	57,900	7240	.88	.99	.99	15.9	54,200	7890	.92	.99	.99
67°F (19.4°C)	1093	2000	18.5	63,100	6850	.61	.73	.85	17.3	59,000	7350	.63	.76	.88	16.0	54,700	7960	.65	.79	.92
	1232	2250	18.7	63,900	6910	.63	.76	.89	17.5	59,700	7420	.65	.79	.92	16.2	55,300	8020	.67	.82	.97
	1371	2500	18.9	64,600	6960	.65	.79	.93	17.7	60,300	7480	.67	.82	.97	16.4	55,800	8090	.70	.86	.99
71°F (21.7°C)	1093	2000	19.6	66,800	7140	.46	.57	.68	18.3	62,300	7680	.47	.59	.71	16.9	57,700	8320	.47	.61	.73
	1232	2250	19.8	67,500	7200	.47	.59	.71	18.5	63,000	7740	.48	.61	.74	17.1	58,200	8390	.49	.63	.77
	1371	2500	20.0	68,200	7250	.48	.61	.74	18.6	63,500	7790	.49	.63	.77	17.2	58,700	8440	.50	.65	.81

HS8-651FF-653FF WITH C5-805FF EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																
			85°F (29°C)						95°F (35°C)						105°F (41°C)				
			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	Liter/s	cfm	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C
63°F (17.2°C)	1093	2000	16.8	57,300	6460	.78	.91	.99	15.8	53,900	6950	.81	.94	.99	14.8	50,500	7530	.84	.97	.99
	1232	2250	17.1	58,300	6540	.82	.95	.99	16.1	55,000	7040	.84	.98	.99	15.0	51,300	7630	.87	.99	.99
	1371	2500	17.1	58,500	6610	.85	.99	.99	16.3	55,700	7120	.87	.99	.99	15.4	52,400	7760	.91	.99	.99
67°F (19.4°C)	1093	2000	17.8	60,700	6740	.61	.73	.85	16.7	56,900	7240	.63	.75	.88	15.5	53,000	7850	.65	.78	.91
	1232	2250	18.0	61,500	6800	.63	.76	.89	16.9	57,600	7310	.65	.79	.92	15.7	53,700	7910	.67	.82	.96
	1371	2500	18.2	62,100	6860	.65	.79	.92	17.1	58,200	7370	.67	.82	.96	15.9	54,100	7970	.69	.85	.99
71°F (21.7°C)	1093	2000	18.9	64,400	7040	.46	.57	.68	17.7	60,300	7570	.46	.58	.70	16.4	56,000	8210	.47	.60	.73
	1232	2250	19.1	65,100	7100	.47	.59	.71	17.8	60,900	7640	.47	.60	.73	16.6	56,500	8280	.48	.62	.76
	1371	2500	19.3	65,700	7150	.48	.61	.74	18.0	61,400	7690	.48	.62	.76	16.7	57,000	8330	.50	.65	.80

HS8-651FF-653FF WITH C5-920FF, CR4-65FF OR CH10-1000FF EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																
			85°F (29°C)						95°F (35°C)						105°F (41°C)				
			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	Liter/s	cfm	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C
63°F (17.2°C)	944	2000	17.8	60,900	6680	.75	.86	.95	16.8	57,200	7180	.77	.89	.95	15.7	53,500	7780	.80	.93	.95
	1062	2250	18.2	62,000	6770	.78	.90	.95	17.1	58,300	7270	.80	.93	.95	15.9	54,300	7880	.83	.95	.95
	1180	2500	18.5	63,100	6840	.80	.94	.95	17.3	59,100	7350	.83	.95	.95	16.2	55,400	8010	.87	.95	.95
67°F (19.4°C)	944	2000	18.9	64,600	6980	.58	.70	.81	17.7	60,500	7490	.60	.72	.83	16.4	56,100	8110	.62	.74	.87
	1062	2250	19.2	65,500	7040	.60	.72	.84	17.9	61,200	7560	.62	.75	.87	16.6	56,800	8190	.64	.78	.91
	1180	2500	19.4	66,100	7100	.62	.75	.88	18.1	61,800	7620	.64	.78	.91	16.8	57,300	8240	.66	.81	.95
71°F (21.7°C)	944	2000	20.0	68,400	7280	.44	.54	.65	18.8	64,000	7830	.44	.56	.67	17.4	59,300	8490	.45	.57	.69
	1062	2250	20.3	69,300	7350	.45	.56	.67	18.9	64,600	7900	.45	.58	.70	17.5	59,800	8550	.46	.60	.73
	1180	2500	20.5	69,900	7400	.45	.58	.70	19.1	65,200	7950	.46	.60	.73	17.7	60,300	8610	.47	.62	.76

NOTE – To determine Sensible Capacity, Leaving Wet Bulb and Dry Bulb temperatures not shown in the tables see Miscellaneous Engineering Data section, Page 11.

HS8-651FF-653FF WITH CB10-65 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																
			85°F (29°C)						95°F (35°C)						105°F (41°C)				
			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	Liter/s	cfm	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C
63°F (17.2°C)	944	2000	18.5	63,100	6540	.74	.86	.94	17.3	59,200	7030	.77	.89	.94	16.2	55,200	7610	.80	.93	.94
	1062	2250	18.8	64,200	6630	.77	.90	.94	17.7	60,300	7120	.80	.93	.94	16.4	56,100	7720	.83	.94	.94
	1180	2500	19.2	65,600	6690	.80	.93	.94	17.9	61,100	7210	.83	.94	.94	16.8	57,200	7860	.87	.94	.94
67°F (19.4°C)	944	2000	19.5	66,700	6810	.58	.69	.80	18.3	62,300	7320	.60	.72	.83	16.9	57,800	7920	.62	.74	.87
	1062	2250	19.8	67,500	6880	.60	.72	.84	18.5	63,100	7390	.62	.75	.88	17.1	58,400	7980	.64	.78	.92
	1180	2500	20.0	68,200	6930	.62	.75	.88	18.7	63,700	7440	.64	.78	.92	17.3	58,900	8050	.66	.81	.94
71°F (21.7°C)	944	2000	20.7	70,500	7100	.43	.54	.65	19.3	65,800	7640	.44	.56	.67	17.8	60,900	8270	.45	.57	.70
	1062	2250	20.9	71,300	7160	.44	.56	.68	19.5	66,500	7700	.45	.58	.70	18.0	61,400	8340	.46	.60	.73
	1180	2500	21.1	72,000	7210	.45	.58	.70	19.6	67,000	7750	.46	.60	.73	18.1	61,900	8390	.47	.62	.76

HS8-651FF-653FF WITH CVP10-1120V EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																
			85°F (29°C)						95°F (35°C)						105°F (41°C)				
			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	Liter/s	cfm	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C	kW	Btuh		76°F 24°C	80°F 27°C	84°F 29°C
63°F (17.2°C)	944	2000	18.9	64,400	6870	.73	.85	.91	17.7	60,300	7370	.76	.88	.91	16.4	55,900	7970	.79	.91	.91
	1062	2250	19.2	65,600	6960	.77	.89	.91	17.9	61,200	7480	.79	.91	.91	16.8	57,200	8140	.83	.91	.91
	1180	2500	19.5	66,600	7040	.80	.91	.91	18.3	62,600	7610	.83	.91	.91	17.1	58,400	8280	.87	.91	.91
67°F (19.4°C)	944	2000	19.9	67,900	7140	.57	.68	.80	18.5	63,200	7670	.59	.71	.83	17.1	58,500	8290	.61	.74	.86
	1062	2250	20.1	68,700	7210	.59	.72	.84	18.8	64,000	7740	.61	.74	.87	17.3	59,100	8370	.63	.78	.91
	1180	2500	20.4	69,500	7270	.61	.75	.88	18.9	64,600	7800	.64	.78	.91	17.5	59,700	8430	.66	.82	.91
71°F (21.7°C)	944	2000	21.0	71,700	7450	.42	.53	.64	19.5	66,700	8000	.43	.55	.66	18.0	61,500	8650	.44	.57	.69
	1062	2250	21.2	72,500	7510	.43	.55	.67	19.8	67,400	8060	.44	.57	.70	18.2	62,100	8720	.45	.59	.73
	1180	2500	21.4	73,100	7560	.45	.57	.70	19.9	67,900	8110	.46	.59	.73	18.3	62,600	8770	.47	.62	.77