

Lennox HS18 Series Condensing Units Provide Low Cost Installation With Maximum Cooling Efficiencies

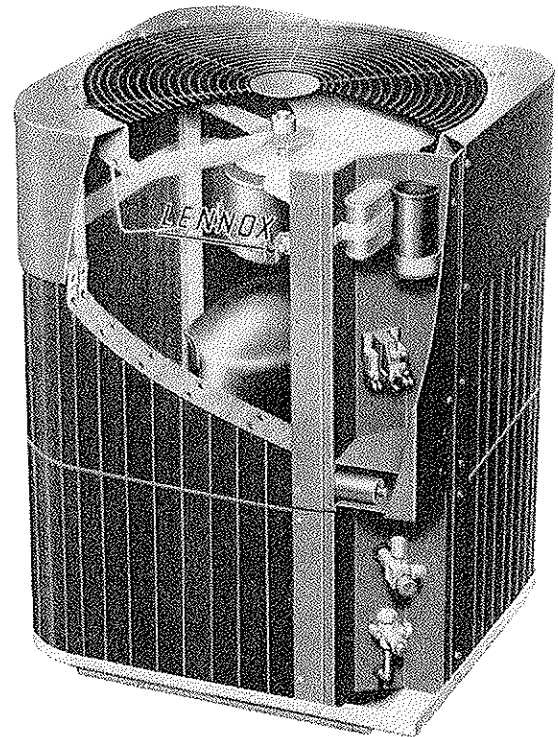
High efficiency, compact size and operational dependability have been featured in the design of the HS18 series of condensing units. Units are applicable to expansion valve systems and are compatible to a variety of matching Lennox fan powered and heater add-on evaporator units. See Selector table. For complete data see evaporator unit bulletins indexed in Coils and Fan-Coils section. Compact design of condensing unit cabinet and vertical discharge of air provides ease of concealment for installation on a slab at ground level or on a roof.

Weather resistant cabinet is constructed of galvanized steel with a baked-on outdoor enamel paint finish for maximum protection from rust and corrosion. Extra large four sided wrap-around coil provides maximum cooling efficiency. Additionally, cooling efficiency is increased by the use of durable copper tubing and ripple-edged aluminum enhanced fins. Powerful direct drive fan with totally enclosed motor draws air thru the entire coil and discharges it up and away from shrubs and lawn. Rugged, polyvinyl chloride (PVC) coated steel wire fan and coil guards are furnished. Standard features include: non-corrosive service valves and gauge ports for suction and liquid lines, high capacity drier, and high pressure switch. Available as options to be ordered extra are; timed-off control, low ambient kit, transformer kit, mounting base and start kits. Thermostat is furnished as standard equipment with the HS18-411V, 413V, 513V and 653V models. Thermostat is not furnished and must be ordered extra with the HS18-141V, 211V, 261V and 311V models.

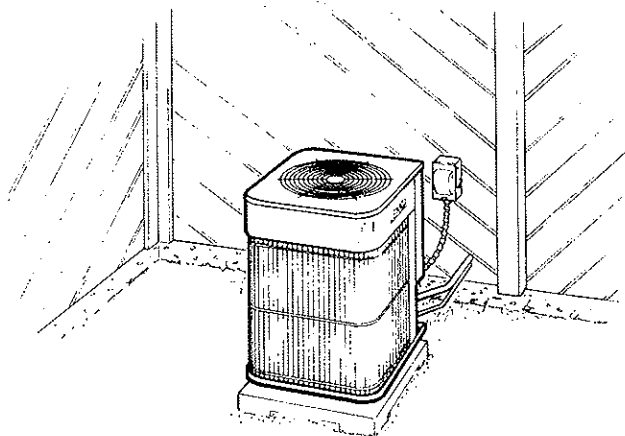
Condensing units are shipped completely factory assembled, piped and wired. In addition, each unit is test operated at the factory to ensure proper operation. The installer has only to set condensing unit in the desired location, connect refrigerant lines and make electrical connections to complete a low cost installation.

Contents

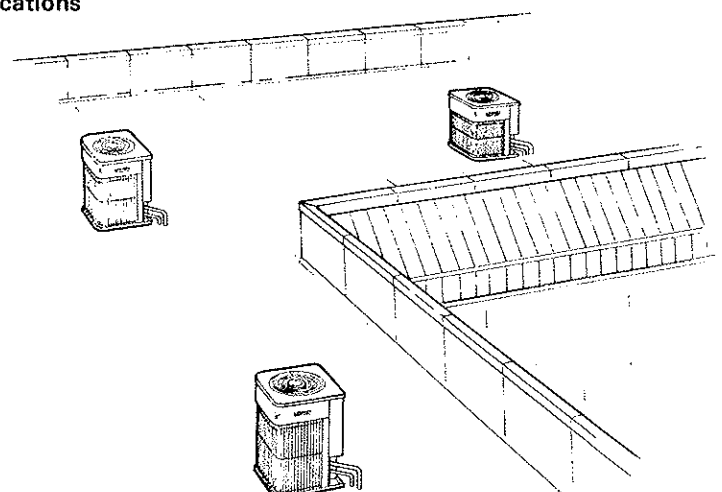
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Typical Applications



Unit on slab at ground level



Multiple Units on Rooftop

FEATURES

Durable Weather Resistant Cabinet — Heavy gauge galvanized steel cabinet is subject to a five station metal wash process. This preparation process results in a perfect bonding surface for the finish coat of baked-on enamel. The outdoor enamel paint finish gives the cabinet long lasting protection from the weather. Drainage holes are furnished in base channels for moisture removal. Heavy duty channels under the base raise the unit off the mounting surface away from damaging moisture.

Accessible Control Box — Conveniently located for easy access. All controls are pre-wired at the factory. Terminal blocks are provided for both low and high voltage field connections.

Dependable and Quiet Compressor — Reliable compressor is hermetically sealed and provides trouble-free operation and long service life. Built-in protection devices assure protection from excessive current and temperatures. The entire running gear is spring mounted within the sealed housing. In addition, the compressor is installed in the unit on resilient rubber mounts assuring quiet and vibration free operation.

Crankcase Heater (Optional) — Available for HS18-211V, 261V, 311V and 411V, 413V models. Crankcase heater (P-8-8852) must be ordered extra for field installation. HS18-141V, HS18-513V and HS18-653V model compressors are equipped with internal crankcase heaters. Heaters prevent migration of liquid refrigerant into the compressor and ensure proper compressor lubrication.

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

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. Extra large four sided wrap around coil configuration provides extra large surface area with low air resistance. Lanced fins provide maximum exposure of fin surface to air stream resulting in excellent heat transfer. In addition, 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 provide tight, leakproof joints. Long life copper tubing is corrosion-resistant and easy to field service. Coil is thoroughly factory tested under high pressure to insure leakproof construction. Entire coil is accessible for cleaning. Non-corrosive polyvinyl chloride (PVC) coated steel coil guard is furnished as standard.

Thermostat — A deluxe wall mounted combination heating-cooling celsius thermostat is furnished as standard equipment with the HS18-411V, 413V, 513V and 653V models. It has a temperature setting dial, system selector switch (Cool-Off-Heat) and fan control switch (Auto-On). The fan switch provides a choice of intermittent or continuous fan operation during either heating or cooling cycle.

Thermostat is not furnished with the HS18-141V, 211V, 261V and 311V models, and must be ordered extra.

High Capacity Drier — Furnished and factory installed. Drier traps any moisture or dirt that could contaminate the refrigerant system.

High Pressure Switch — Furnished on all models. Shuts off unit if abnormal operating conditions cause the discharge pressure to rise above setting. Protects the compressor from excessive condensing pressure. Manual reset.

Refrigerant Line Connections, Electrical Inlets and Service Valves — Suction and liquid line connections are located outside of the cabinet and are made with sweat connections. Brass service valves prevent corrosion and provide access to refrigerant system. One-shot suction valve, liquid line service valve and gauge ports are accessible outside of the cabinet. A filter drier is furnished on all models. Refrigerant line connections, valves and field wiring inlets are all conveniently located in one central area of the cabinet. See dimension drawing.

Timed-Off Control (Optional) — Timed-off control (LB-50709BA) is available as optional equipment for field installation. Prevents compressor short-cycling and also allows time for suction and discharge pressure to equalize, permitting the compressor to start in an unloaded condition. Automatic reset control will shut the compressor off and hold it off for 5 minutes.

Low Ambient Kit (Optional) — Condensing units will operate satisfactorily down to 7°C (45°F) outdoor air temperature without any additional controls. For cases where operation of the unit is required below 7°C (45°F) a Low Ambient Control Kit (LB-57113BC) can be added in the field, enabling it to operate properly down to minus 18°C (0°F).

Mounting Base (Optional) — Rugged mounting base provides permanent foundation for condensing units. High density polyethylene structural material is lightweight, sturdy, sound absorbing and will withstand the rigors of the sun, heat, cold, moisture, oil and refrigerant. Will not mildew or rot. Can be shipped singly or in packages of 6 to a carton. HS18-141V, 211V, 261V, 311V, 411V and 413V models use the MB1-22 base (99C78) shipping weight 5kg (10lbs.). HS18-513V and 653V models use the MB1-32 base (83C83) shipping weight 7kg (15lbs.).

Expansion Valve Kits (Optional) — Must be ordered extra and field installed on evaporator units. See Selector table for kit requirement.

Start Kits (Optional) — Field installed hard start kits are available for single phase model condensing units. Kit includes start capacitor and potential relay and is required for use with evaporator coils having non-equalizing type expansion valves. Kit must be ordered extra for field installation. See Repair Parts Cross Reference List for requirement.

Approvals — Condensing units have been tested with matching evaporator units in the Lennox Research Laboratory environmental test room and rated in accordance with Air-Conditioning and Refrigeration Institute (ARI) Standard 210-81 test conditions. In addition, units have been sound rated in the Lennox reverberant sound test room in accordance with ARI Standard 270-84. Condensing units and components within are bonded for grounding to meet safety standards for servicing required by Underwriter's Laboratories (U.L.) and The International Electrotechnical Commission (IEC).

SPECIFICATIONS

Model Number			HS18-141V	HS18-211V	HS18-261V	HS18-311V	HS18-411V HS18-413V	HS18-513V	HS18-653V
Condenser Coil	Net face area -- m ² (sq. ft.)	Outer Coil	0.78 (8.4)	0.78 (8.4)	0.78 (8.4)	0.86 (9.2)	0.86 (9.2)	1.69 (18.2)	1.69 (18.2)
		Inner Coil	----	----	----	----	0.32 (3.4)	----	0.59 (6.4)
	Tube diameter outside diameter -- in.		3/8	3/8	3/8	3/8	3/8	3/8	3/8
	Number of rows		1	1	1	1	1.4	1	1.4
	Fins/m (Fins/inch)		630 (16)	630 (16)	630 (16)	787 (20)	709 (18)	787 (20)	787 (20)
Condenser Fan	Diameter -- mm (in.) -- Number of blades		457 (18)-4	457 (18)-4	457 (18)-4	457 (18)-4	457 (18)-4	559 (22)-4	559 (22)-4
	Motor output -- W (hp)		149 (1/5)	149 (1/5)	149 (1/5)	149 (1/5)	149 (1/5)	249 (1/3)	249 (1/3)
	Air Volume -- L/s (cfm)		1025 (2170)	1025 (2170)	1025 (2170)	980 (2080)	980 (2080)	1530 (3250)	1500 (3170)
	Rev/min		900	900	900	900	900	900	900
	Motor input -- W		200	200	200	200	200	400	400
*Refrigerant 22 charge furnished -- kg (oz.)			0.99 (35)	1.84 (47)	1.19 (42)	1.50 (53)	1.93 (68)	3.23 (114)	3.94 (139)
Liquid line connection -- outside diameter -- in. -- sweat			3/8	3/8	3/8	3/8	3/8	3/8	3/8
Suction line connection--outside diameter--in. --sweat			5/8	5/8	5/8	3/4	3/4	7/8	1-1/8
Shipping weight -- kg (lbs.) -- 1 package			51 (113)	64 (141)	63 (138)	66 (146)	76 (168)	98 (215)	111 (245)

*Refrigerant charge is sufficient for 6.0m (20 feet) of connecting refrigerant lines.

SELECTOR

Condensing Unit Model Number ★ARI Standard 270 SRN-Bels	*At ARI Standard 210 Conditions					Lennox Evaporator Unit			•Expansion Valve Kit
	Total Cooling Capacity		Total Power Input kW	Coefficient of Performance (Output/Input)	Energy Efficiency Ratio (Btuh/Watt)	Up-Flo	Down-Flo	Horizontal	
	kW	Btuh							
HS18-141V (8.0)	3.5	11 900	1.45	2.4	8.2	C16-18FF	----	----	LB-25778CH
	3.7	12 700	1.48	2.5	8.6	C16-21FF	CR16-21FF	CH16-21FF	
HS18-211V (7.8)	5.0	16 900	2.18	2.3	7.8	C16-18FF	----	----	LB-25778CG
	5.4	18 300	2.20	2.5	8.3	C16-21FF	CR16-21FF	CH16-21FF	
	5.5	18 900	2.30	2.4	8.2	**CB18-26	----	**CBS18-26	
HS18-261V (8.0)	5.7	19 600	2.25	2.5	8.7	C16-31FF	CR16-31FF	CH16-31FF	LB-25778CG
	6.1	20 700	2.59	2.4	8.0	C16-21FF	CR16-21FF	CH16-21FF	
	6.5	22 200	2.71	2.5	8.2	**CB18-26	----	**CBS18-26	
	6.8	23 200	2.61	2.6	8.9	C16-31FF	CR16-31FF	CH16-31FF	
HS18-311V (8.0)	6.9	23 500	2.64	2.6	8.9	C16-41FF	CR16-41FF	CH16-41FF	LB-25778CE
	7.6	25 800	3.19	2.4	8.1	**CB18-26	----	**CBS18-26	
	8.3	28 400	3.23	2.6	8.8	C16-31FF	CR16-31FF	CH16-31FF	
	8.5	29 000	3.32	2.6	8.7	C16-41FF	CR16-41FF	CH16-41FF	
HS18-411V HS18-413V (8.0)	**CB18-41	----	**CBS18-41	LB-25778CF					
	10.0	34 200	3.93		2.5	8.7	C16-31FF	CR16-31FF	CH16-31FF
	10.3	35 200	4.10		2.5	8.6	C16-41FF	CR16-41FF	CH16-41FF
	10.4	35 600	3.99		2.6	8.9	C16-46FF	----	----
	10.5	36 100	4.00		2.7	9.0	C16-51FF	CR16-51FF	CH16-51FF
HS18-513V (8.0)	10.6	36 200	4.16	2.5	8.7	**CB18-51	----	**CBS18-51	LB-25778CC
	12.3	42 100	4.81	2.6	8.8	C16-46FF	----	----	
	12.5	42 600	4.88	2.6	8.7	C16-51FF	CR16-51FF	----	
	12.6	43 100	5.15	2.4	8.4	**CB18-51	----	**CBS18-51	
	12.7	43 300	4.90	2.6	8.8	C16-65	CR16-65	CH16-51FF	
	12.9	44 000	5.26	2.5	8.4	**CB18-65	----	**CBS18-65	
HS18-653V (8.0)	13.1	44 800	4.96	2.6	9.0	----	----	CH16-65V	†Factory Installed
	14.9	50 900	5.88	2.5	8.7	C16-51FF	CR16-51FF	----	LB-25778CD
	15.2	51 800	6.04	2.5	8.6	C16-65	CR16-65	CH16-51FF	
	15.4	52 600	5.97	2.6	8.8	**CB18-65	----	**CBS18-65	
15.7	53 500	6.14	2.6	8.7	----	----	CH16-65V	†Factory Installed	

★ Sound rating number rated in accordance with Air-Conditioning and Refrigeration Institute (ARI) Standard 270.

*Rated at Air-Conditioning and Refrigeration Institute (ARI) standard 210 conditions; 35°C (95°F) outdoor air temperature, 27°C (80°F) dry bulb and 19.4°C (67°F) wet bulb entering evaporator air with 6.0m (20 feet) of connecting refrigerant lines.

**Denotes blower powered evaporator.

•Kit is optional and must be ordered extra for field installation.

†Furnished as standard with coil.

COOLING RATINGS — 50 Hz

NOTE — To determine sensible capacity, leaving wet bulb and dry bulb temperature not shown in the tables, see Miscellaneous Engineering Data Accessories Section.

HS18-141V WITH C16-18FF EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)						35°C (95°F)						41°C (105°F)						46°C (115°F)					
			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)		
						Dry Bulb						Dry Bulb						Dry Bulb						Dry Bulb		
L/s	cfm	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	
17.2°C (63°F)	155	325	3.3	11 400	0.98	.70	.80	1.00	3.2	10 800	1.06	.72	.83	1.00	3.0	10 100	1.14	.74	.86	1.00	2.8	9600	1.21	.76	.89	1.00
	190	400	3.5	11 900	1.00	.75	.87	1.00	3.3	11 100	1.08	.77	1.00	1.00	3.1	10 600	1.15	.80	1.00	1.00	3.0	10 100	1.23	.83	1.00	1.00
	225	475	3.6	12 300	1.01	.80	1.00	1.00	3.4	11 700	1.09	.83	1.00	1.00	3.3	11 100	1.17	.86	1.00	1.00	3.1	10 500	1.24	.89	1.00	1.00
19.4°C (67°F)	155	325	3.6	12 200	1.01	.55	.65	.75	3.4	11 500	1.09	.56	.66	.77	3.2	10 800	1.16	.57	.68	.79	3.0	10 200	1.23	.58	.70	.82
	190	400	3.7	12 600	1.02	.58	.70	.81	3.5	11 900	1.10	.59	.72	.83	3.3	11 200	1.17	.61	.74	.89	3.1	10 600	1.24	.62	.76	.91
	225	475	3.8	12 900	1.03	.61	.75	.87	3.5	12 100	1.11	.63	.77	1.00	3.3	11 400	1.18	.65	.80	1.00	3.2	10 800	1.25	.67	.83	1.00
21.7°C (71°F)	155	325	3.8	13 100	1.04	.41	.50	.60	3.6	12 400	1.12	.41	.52	.62	3.4	11 700	1.19	.42	.53	.63	3.2	11 000	1.26	.43	.54	.65
	190	400	4.0	13 500	1.05	.42	.54	.65	3.7	12 700	1.13	.43	.55	.67	3.5	12 000	1.20	.44	.56	.69	3.3	11 300	1.27	.45	.58	.71
	225	475	4.0	13 700	1.06	.44	.57	.69	3.8	12 900	1.13	.45	.58	.72	3.6	12 200	1.20	.46	.60	.74	3.4	11 500	1.27	.47	.62	.77

HS18-141V WITH C16-21FF, CR16-21FF OR CH16-21FF EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)						35°C (95°F)						41°C (105°F)						46°C (115°F)					
			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)		
						Dry Bulb						Dry Bulb						Dry Bulb						Dry Bulb		
L/s	cfm	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	
17.2°C (63°F)	155	325	3.5	12 100	1.00	.69	.80	.89	3.3	11 400	1.08	.71	.82	1.00	3.1	10 700	1.16	.73	.85	1.00	3.0	10 100	1.23	.76	.88	1.00
	190	400	3.7	12 600	1.02	.74	.86	1.00	3.5	12 000	1.10	.77	.89	1.00	3.3	11 300	1.17	.79	1.00	1.00	3.1	10 700	1.24	.82	1.00	1.00
	225	475	3.8	13 100	1.04	.80	1.00	1.00	3.6	12 400	1.11	.83	1.00	1.00	3.5	11 800	1.19	.85	1.00	1.00	3.3	11 200	1.26	.89	1.00	1.00
19.4°C (67°F)	155	325	3.8	13 000	1.03	.54	.64	.74	3.6	12 300	1.11	.55	.66	.76	3.4	11 500	1.18	.57	.68	.79	3.2	10 900	1.25	.58	.70	.81
	190	400	3.9	13 400	1.05	.57	.69	.80	3.7	12 700	1.12	.59	.71	.83	3.5	11 900	1.19	.60	.74	.86	3.3	11 200	1.26	.62	.76	.89
	225	475	4.0	13 800	1.07	.60	.74	.86	3.8	13 000	1.13	.63	.76	.89	3.6	12 300	1.20	.64	.79	1.00	3.4	11 600	1.27	.66	.82	1.00
21.7°C (71°F)	155	325	4.1	14 000	1.06	.41	.50	.59	3.9	13 200	1.14	.41	.51	.61	3.6	12 400	1.21	.42	.52	.63	3.4	11 700	1.27	.42	.53	.64
	190	400	4.2	14 400	1.07	.42	.53	.64	4.0	13 600	1.15	.43	.55	.66	3.8	12 800	1.22	.44	.56	.68	3.5	12 100	1.28	.44	.57	.70
	225	475	4.3	14 700	1.08	.44	.56	.69	4.0	13 800	1.15	.45	.58	.71	3.8	13 000	1.22	.46	.60	.74	3.6	12 300	1.29	.46	.61	.76

HS18-211V WITH C16-18FF EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)						35°C (95°F)						41°C (105°F)						46°C (115°F)					
			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)		
						Dry Bulb						Dry Bulb						Dry Bulb						Dry Bulb		
L/s	cfm	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	
17.2°C (63°F)	235	500	4.8	16 300	1.57	.74	.85	1.00	4.5	15 500	1.69	.75	.87	1.00	4.3	14 700	1.80	.77	.90	1.00	4.1	13 900	1.90	.80	.92	1.00
	285	600	5.0	16 900	1.58	.78	.91	1.00	4.7	16 100	1.71	.80	.93	1.00	4.4	15 100	1.82	.83	1.00	1.00	4.2	14 400	1.93	.85	1.00	1.00
	330	700	5.0	17 200	1.59	.83	1.00	1.00	4.8	16 500	1.72	.85	1.00	1.00	4.6	15 700	1.84	.88	1.00	1.00	4.4	14 900	1.95	.91	1.00	1.00
19.4°C (67°F)	235	500	5.1	17 400	1.60	.58	.68	.79	4.8	16 500	1.72	.59	.70	.81	4.6	15 800	1.84	.60	.72	.83	4.3	14 700	1.94	.61	.74	.86
	285	600	5.2	17 800	1.61	.60	.73	.84	5.0	16 900	1.74	.62	.74	.87	4.7	16 000	1.85	.63	.77	.90	4.4	15 100	1.96	.65	.79	.93
	330	700	5.3	18 200	1.62	.63	.77	.90	5.1	17 300	1.75	.65	.79	.92	4.8	16 300	1.87	.66	.82	1.00	4.5	15 400	1.97	.69	.84	1.00
21.7°C (71°F)	235	500	5.5	18 600	1.64	.43	.53	.63	5.2	17 700	1.76	.44	.54	.65	4.9	16 800	1.88	.44	.55	.66	4.6	15 800	1.99	.45	.57	.68
	285	600	5.6	19 100	1.65	.44	.56	.67	5.3	18 100	1.78	.45	.57	.69	5.0	17 100	1.90	.46	.59	.71	4.7	16 100	2.00	.47	.60	.74
	330	700	5.7	19 400	1.66	.46	.59	.71	5.4	18 400	1.79	.47	.60	.73	5.1	17 400	1.91	.47	.62	.76	4.8	16 300	2.01	.48	.64	.79

HS18-211V WITH C16-21FF, CR16-21FF OR CH16-21FF EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)						35°C (95°F)						41°C (105°F)						46°C (115°F)					
			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)		
						Dry Bulb						Dry Bulb						Dry Bulb						Dry Bulb		
L/s	cfm	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	
17.2°C (63°F)	235	500	5.2	17 600	1.61	.73	.84	.94	4.9	16 700	1.73	.74	.86	1.00	4.6	15 800	1.85	.76	.88	1.00	4.3	14 800	1.95	.79	.91	1.00
	285	600	5.3	18 200	1.62	.77	.89	1.00	5.1	17 300	1.75	.79	.92	1.00	4.7	16 200	1.86	.82	1.00	1.00	4.5	15 400	1.97	.85	1.00	1.00
	330	700	5.5	18 600	1.64	.82	1.00	1.00	5.2	17 800	1.77	.84	1.00	1.00	5.0	16 900	1.89	.87	1.00	1.00	4.7	16 000	2.00	.90	1.00	1.00
19.4°C (67°F)	235	500	5.5	18 800	1.64	.57	.67	.78	5.2	17 800	1.77	.58	.69	.80	4.9	16 800	1.89	.59	.71	.82	4.6	15 800	1.99	.61	.73	.85
	285	600	5.7	19 300	1.66	.60	.72	.83	5.4	18 300	1.78	.61	.74	.86	5.0	17 200	1.90	.63	.76	.89	4.7	16 200	2.00	.64	.78	.92
	330	700	5.8	19 800	1.67	.64	.76	.87	5.5	18 800	1.80	.65	.78	.91	5.2	17 700	1.92	.67	.81	1.00	4.9	16 600	2.03	.68	.84	1.00
21.7°C (71°F)	235	500	5.9	20 200	1.68	.43	.53	.62	5.6	19 100	1.81	.43	.54	.64	5.3	18 000	1.93	.44	.55	.66	5.0	16 900	2.03	.45	.56	.68
	285	600	6.0	20 600	1.69	.44	.55	.67	5.7	19 500	1.82	.45	.57	.68	5.4	18 400	1.94	.46	.58	.70	5.1	17 300	2.05	.46	.60	.73
	330	700	6.2	21 000	1.70	.46	.58	.71	5.8	19 900	1.83	.46	.													

COOLING RATINGS — 50 Hz

NOTE — To determine sensible capacity, leaving wet bulb and dry bulb temperature not shown in the tables, see Miscellaneous Engineering Data Accessories Section.

HS18-211V WITH CB18-26 OR CBS18-26 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)						35°C (95°F)						41°C (105°F)						46°C (115°F)					
			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)		
						Dry Bulb						Dry Bulb						Dry Bulb						Dry Bulb		
L/s	cfm	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	
17.2°C (63°F)	235	500	5.3	18 100	1.65	.71	.82	.92	5.0	17 100	1.77	.73	.84	1.00	4.7	16 100	1.89	.75	.87	1.00	4.4	15 100	1.99	.78	.90	1.00
	285	600	5.5	18 800	1.67	.76	.88	1.00	5.2	17 700	1.80	.78	.91	1.00	4.9	16 700	1.91	.81	.94	1.00	4.6	15 700	2.02	.84	1.00	1.00
	330	700	5.7	19 300	1.68	.81	.94	1.00	5.4	18 300	1.81	.83	1.00	1.00	5.1	17 300	1.94	.86	1.00	1.00	4.8	16 400	2.05	.90	1.00	1.00
19.4°C (67°F)	235	500	5.7	19 400	1.69	.56	.66	.76	5.4	18 400	1.82	.57	.68	.78	5.1	17 300	1.93	.59	.70	.81	4.7	16 200	2.04	.60	.72	.84
	285	600	5.9	20 000	1.71	.59	.71	.82	5.5	18 900	1.83	.60	.73	.84	5.2	17 700	1.95	.62	.75	.88	4.9	16 600	2.05	.64	.78	.91
	330	700	6.0	20 500	1.72	.62	.75	.88	5.7	19 300	1.85	.64	.77	.91	5.3	18 100	1.96	.66	.80	.94	5.0	16 900	2.07	.68	.83	1.00
21.7°C (71°F)	235	500	6.1	20 800	1.73	.43	.52	.61	5.8	19 700	1.86	.43	.53	.63	5.4	18 500	1.98	.44	.54	.65	5.1	17 300	2.08	.44	.56	.67
	285	600	6.3	21 400	1.75	.44	.55	.65	5.9	20 200	1.87	.45	.56	.67	5.6	19 000	1.99	.45	.57	.70	5.2	17 700	2.10	.46	.59	.72
	330	700	6.4	21 800	1.76	.45	.58	.70	6.0	20 600	1.89	.46	.59	.72	5.7	19 300	2.01	.47	.61	.75	5.3	18 000	2.11	.48	.63	.78

HS18-211V WITH C16-31FF, CR16-31FF OR CH16-31FF EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)						35°C (95°F)						41°C (105°F)						46°C (115°F)					
			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)		
						Dry Bulb						Dry Bulb						Dry Bulb						Dry Bulb		
L/s	cfm	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	
17.2°C (63°F)	235	500	5.5	18 800	1.64	.71	.82	.92	5.2	17 800	1.77	.73	.84	1.00	4.9	16 700	1.88	.75	.87	1.00	4.6	15 700	1.98	.78	.90	1.00
	285	600	5.7	19 500	1.66	.76	.88	1.00	5.4	18 400	1.79	.78	.91	1.00	5.1	17 300	1.90	.81	.94	1.00	4.8	16 300	2.01	.83	1.00	1.00
	330	700	5.9	20 000	1.68	.80	.94	1.00	5.5	18 900	1.80	.83	1.00	1.00	5.3	18 000	1.93	.86	1.00	1.00	5.0	17 000	2.04	.89	1.00	1.00
19.4°C (67°F)	235	500	5.9	20 200	1.68	.56	.66	.76	5.6	19 100	1.81	.57	.68	.78	5.2	17 900	1.93	.59	.70	.81	4.9	16 800	2.03	.60	.72	.84
	285	600	6.1	20 800	1.70	.59	.70	.82	5.7	19 600	1.83	.60	.72	.84	5.4	18 400	1.94	.62	.75	.87	5.0	17 200	2.05	.64	.77	.91
	330	700	6.2	21 200	1.71	.62	.75	.87	5.9	20 000	1.84	.63	.77	.90	5.5	18 800	1.96	.65	.80	.94	5.2	17 600	2.06	.67	.83	1.00
21.7°C (71°F)	235	500	6.3	21 600	1.72	.43	.52	.61	5.9	20 000	1.84	.43	.53	.63	5.6	19 200	1.97	.44	.54	.65	5.3	18 000	2.08	.44	.55	.67
	285	600	6.5	22 200	1.74	.44	.55	.65	6.2	21 000	1.87	.44	.56	.67	5.8	19 700	1.99	.45	.57	.69	5.4	18 400	2.09	.46	.59	.72
	330	700	6.6	22 600	1.75	.45	.57	.69	6.3	21 400	1.88	.46	.59	.72	5.9	20 100	2.00	.47	.61	.74	5.5	18 700	2.10	.48	.63	.77

HS18-261V WITH C16-21FF, CR16-21FF OR CH16-21FF EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)						35°C (95°F)						41°C (105°F)						46°C (115°F)					
			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)		
						Dry Bulb						Dry Bulb						Dry Bulb						Dry Bulb		
L/s	cfm	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	
17.2°C (63°F)	305	650	5.8	19 900	1.83	.73	.84	1.00	5.5	18 900	1.96	.74	.86	1.00	5.2	17 900	2.08	.77	.89	1.00	4.9	16 800	2.19	.79	1.00	1.00
	380	800	6.0	20 400	1.86	.78	1.00	1.00	5.8	19 700	1.99	.80	1.00	1.00	5.5	18 700	2.12	.83	1.00	1.00	5.2	17 800	2.23	.86	1.00	1.00
	450	950	6.3	21 400	1.88	.83	1.00	1.00	6.0	20 500	2.02	.86	1.00	1.00	5.7	19 500	2.15	.89	1.00	1.00	5.4	18 500	2.26	1.00	1.00	1.00
19.4°C (67°F)	305	650	6.2	21 200	1.88	.56	.67	.78	5.9	20 100	2.01	.58	.69	.80	5.6	19 000	2.13	.59	.71	.83	5.2	17 900	2.24	.60	.73	.85
	380	800	6.4	21 800	1.90	.60	.73	.85	6.1	20 700	2.03	.61	.75	.87	5.7	19 500	2.15	.63	.77	.90	5.4	18 400	2.26	.65	.80	1.00
	450	950	6.5	22 300	1.91	.63	.78	1.00	6.2	21 100	2.05	.65	.80	1.00	5.8	19 900	2.17	.67	.83	1.00	5.5	18 800	2.28	.69	.86	1.00
21.7°C (71°F)	305	650	6.7	22 800	1.93	.42	.52	.62	6.3	21 600	2.06	.42	.53	.64	6.0	20 400	2.19	.43	.54	.66	5.6	19 200	2.29	.44	.56	.68
	380	800	6.8	23 300	1.94	.44	.55	.67	6.5	22 100	2.08	.44	.57	.69	6.1	20 900	2.20	.45	.58	.72	5.7	19 600	2.31	.46	.60	.74
	450	950	6.9	23 700	1.96	.45	.59	.72	6.6	22 500	2.09	.46	.60	.74	6.2	21 200	2.22	.47	.62	.77	5.8	19 900	2.32	.48	.64	.80

HS18-261V WITH CB18-26 OR CBS18-26 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)						35°C (95°F)						41°C (105°F)						46°C (115°F)					
			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)		
						Dry Bulb						Dry Bulb						Dry Bulb						Dry Bulb		
L/s	cfm	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	
17.2°C (63°F)	305	650	6.2	21 300	1.90	.71	.82	1.00	5.9	20 100	2.03	.73	.85	1.00	5.6	19 000	2.15	.75	.87	1.00	5.2	17 600	2.26	.78	1.00	1.00
	380	800	6.5	22 200	1.93	.77	.89	1.00	6.1	20 900	2.06	.79	1.00	1.00	5.8	19 900	2.19	.82	1.00	1.00	5.5	18 800	2.30	.85	1.00	1.00
	450	950	6.7	23 000	1.96	.82	1.00	1.00	6.4	21 900	2.10	.85	1.00	1.00	6.1	20 800	2.23	.88	1.00	1.00	5.7	19 600	2.34	1.00	1.00	1.00
19.4°C (67°F)	305	650	6.7	22 800	1.95	.56	.66	.76	6.3	21 500	2.08	.57	.68	.78	5.9	20 300	2.21	.58	.70	.81	5.6	19 000	2.31	.60	.72	.84
	380	800	6.9	23 500	1.97	.59	.71	.83	6.5	22 200	2.11	.61	.73	.86	6.1	20 900	2.23	.62	.76	.89	5.7	19 500	2.33	.64	.79	1.00
	450	950	7.0	24 000	1.99	.63	.77	.90	6.7	22 700	2.12	.64	.79	1.00	6.2	21 300	2.25	.67	.82	1.00	5.9	20 000	2.35	.69	.85	1.00
21.7°C (71°F)	305	650	7.2	24 500	2.00	.42	.51	.61	6.8	23 100	2.14	.42	.52	.63	6.4	21 800	2.26	.43	.54	.65	6.0	20 400	2.37	.43	.55	.67
	380	800	7.4	25 100	2.02	.43	.55	.66	6.9	23 700	2.16	.44	.56	.68	6.5	22 300	2.28	.45	.58	.71	6.1	20 900	2.39	.46	.60	.73
	450	950	7.5	25 600	2.04	.45	.58	.71	7.1	24 200																

COOLING RATINGS — 50 Hz

NOTE — To determine sensible capacity, leaving wet bulb and dry bulb temperature not shown in the tables, see Miscellaneous Engineering Data Accessories Section.

HS18-261V WITH C16-31FF, CR16-31FF OR CH16-31FF EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)						35°C (95°F)						41°C (105°F)						46°C (115°F)					
			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)		
						Dry Bulb						Dry Bulb						Dry Bulb						Dry Bulb		
L/s	cfm	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	
17.2°C (63°F)	305	650	6.5	22 200	1.89	.71	.82	1.00	6.2	21 000	2.02	.73	.84	1.00	5.8	19 800	2.14	.75	.87	1.00	5.5	18 700	2.25	.78	.90	1.00
	380	800	6.8	23 100	1.91	.77	.89	1.00	6.4	21 800	2.05	.79	1.00	1.00	6.1	20 800	2.18	.81	1.00	1.00	5.8	19 700	2.29	.85	1.00	1.00
	450	950	7.0	24 000	1.94	.82	1.00	1.00	6.7	22 800	2.08	.85	1.00	1.00	6.4	21 700	2.21	.88	1.00	1.00	6.0	20 500	2.32	1.00	1.00	1.00
19.4°C (67°F)	305	650	7.0	23 800	1.94	.55	.66	.76	6.6	22 500	2.07	.57	.68	.78	6.2	21 200	2.19	.58	.70	.81	5.8	19 900	2.30	.59	.72	.84
	380	800	7.2	24 600	1.96	.59	.71	.83	6.8	23 200	2.09	.60	.73	.85	6.4	21 800	2.22	.62	.76	.89	6.0	20 400	2.32	.64	.78	1.00
	450	950	7.4	25 100	1.98	.62	.76	.89	6.9	23 700	2.11	.64	.79	1.00	6.5	22 300	2.23	.66	.81	1.00	6.1	20 900	2.34	.68	.85	1.00
21.7°C (71°F)	305	650	7.5	25 600	1.99	.42	.51	.61	7.1	24 200	2.13	.42	.52	.63	6.7	22 800	2.25	.43	.54	.64	6.3	21 400	2.36	.43	.55	.67
	380	800	7.7	26 300	2.01	.43	.55	.66	7.3	24 800	2.15	.44	.56	.68	6.8	23 300	2.27	.45	.57	.70	6.4	21 900	2.38	.45	.59	.73
	450	950	7.9	26 800	2.02	.45	.58	.71	7.4	25 300	2.16	.46	.59	.73	6.9	23 700	2.28	.47	.61	.76	6.5	22 200	2.39	.48	.63	.79

HS18-261V WITH C16-41FF, CR16-41FF OR CH16-41FF EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)						35°C (95°F)						41°C (105°F)						46°C (115°F)					
			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)		
						Dry Bulb						Dry Bulb						Dry Bulb						Dry Bulb		
L/s	cfm	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	
17.2°C (63°F)	305	650	6.5	22 300	1.90	.71	.82	1.00	6.2	21 100	2.04	.73	.84	1.00	5.8	19 900	2.16	.75	.87	1.00	5.5	18 700	2.26	.78	.90	1.00
	380	800	6.8	23 300	1.93	.76	.89	1.00	6.4	22 000	2.07	.79	1.00	1.00	6.1	20 800	2.20	.81	1.00	1.00	5.8	19 700	2.31	.85	1.00	1.00
	450	950	7.1	24 200	1.96	.82	1.00	1.00	6.7	23 000	2.10	.85	1.00	1.00	6.4	21 800	2.23	.88	1.00	1.00	6.0	20 600	2.34	1.00	1.00	1.00
19.4°C (67°F)	305	650	7.0	24 000	1.96	.55	.66	.76	6.7	22 700	2.09	.56	.67	.78	6.2	21 300	2.21	.58	.69	.81	5.9	20 000	2.32	.59	.72	.84
	380	800	7.2	24 700	1.98	.59	.71	.83	6.9	23 500	2.11	.60	.73	.85	6.4	21 900	2.24	.62	.76	.89	6.0	20 500	2.34	.64	.78	1.00
	450	950	7.4	25 300	2.00	.62	.76	.89	7.0	23 900	2.13	.64	.79	1.00	6.6	22 400	2.25	.66	.82	1.00	6.2	21 000	2.36	.68	.85	1.00
21.7°C (71°F)	305	650	7.5	25 700	2.01	.41	.51	.61	7.1	24 300	2.15	.42	.52	.62	6.7	22 900	2.27	.43	.53	.64	6.3	21 400	2.38	.43	.55	.66
	380	800	7.8	26 500	2.03	.43	.54	.66	7.3	25 000	2.17	.44	.56	.68	6.9	23 500	2.29	.45	.57	.70	6.4	21 900	2.40	.45	.59	.73
	450	950	7.9	27 000	2.05	.45	.58	.71	7.4	25 400	2.18	.46	.59	.73	7.0	23 900	2.30	.47	.61	.76	6.5	22 300	2.41	.48	.63	.79

HS18-311V WITH CB18-26 OR CBS18-26 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)						35°C (95°F)						41°C (105°F)						46°C (115°F)					
			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)		
						Dry Bulb						Dry Bulb						Dry Bulb						Dry Bulb		
L/s	cfm	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	
17.2°C (63°F)	400	850	7.3	25 000	2.29	.80	.92	1.00	7.0	23 800	2.44	.82	.95	1.00	6.6	22 600	2.58	.84	.98	1.00	6.2	21 300	2.70	.87	1.00	1.00
	470	1000	7.6	26 800	2.32	.84	.98	1.00	7.2	24 400	2.47	.87	1.00	1.00	6.8	23 300	2.62	.89	1.00	1.00	6.5	22 200	2.75	.92	1.00	1.00
	540	1150	7.7	26 400	2.34	.89	1.00	1.00	7.4	25 200	2.51	.92	1.00	1.00	7.0	24 000	2.66	.94	1.00	1.00	6.7	22 800	2.79	.98	1.00	1.00
19.4°C (67°F)	400	850	7.8	26 600	2.35	.62	.74	.86	7.4	25 300	2.51	.63	.76	.88	7.0	23 900	2.65	.65	.78	.91	6.6	22 600	2.78	.66	.81	.94
	470	1000	8.0	27 200	2.37	.65	.79	.92	7.6	25 800	2.53	.66	.81	.94	7.2	24 400	2.67	.68	.83	.97	6.7	23 000	2.80	.70	.86	1.00
	540	1150	8.1	27 600	2.39	.68	.83	.97	7.7	26 200	2.55	.70	.85	1.00	7.3	24 800	2.69	.71	.88	1.00	6.9	23 400	2.82	.74	.91	1.00
21.7°C (71°F)	400	850	8.4	28 500	2.42	.46	.58	.69	7.9	27 000	2.58	.47	.59	.71	7.5	25 600	2.73	.47	.60	.73	7.1	24 100	2.86	.48	.62	.75
	470	1000	8.5	29 000	2.44	.48	.60	.73	8.1	27 500	2.60	.48	.62	.75	7.6	26 000	2.75	.49	.63	.77	7.2	24 500	2.88	.50	.65	.80
	540	1150	8.6	29 400	2.45	.49	.63	.77	8.2	27 900	2.62	.50	.65	.79	7.7	26 300	2.77	.51	.66	.82	7.3	24 800	2.89	.52	.68	.85

HS18-311V WITH C16-31FF, CR16-31FF OR CH16-31FF EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)						35°C (95°F)						41°C (105°F)						46°C (115°F)					
			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)		
						Dry Bulb						Dry Bulb						Dry Bulb						Dry Bulb		
L/s	cfm	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	
17.2°C (63°F)	400	850	8.1	27 500	2.38	.79	.91	1.00	7.6	26 100	2.54	.81	.94	1.00	7.2	24 700	2.68	.83	.97	1.00	6.8	23 200	2.80	.86	1.00	1.00
	470	1000	8.3	28 300	2.41	.84	.97	1.00	7.8	26 700	2.56	.86	1.00	1.00	7.5	25 500	2.72	.89	1.00	1.00	7.1	24 200	2.85	.92	1.00	1.00
	540	1150	8.5	29 000	2.44	.89	1.00	1.00	8.1	27 700	2.60	.91	1.00	1.00	7.7	26 300	2.76	.94	1.00	1.00	7.3	25 000	2.89	.98	1.00	1.00
19.4°C (67°F)	400	850	8.6	29 300	2.45	.62	.73	.85	8.1	27 800	2.61	.63	.75	.87	7.7	26 200	2.75	.64	.77	.90	7.2	24 700	2.88	.66	.80	.93
	470	1000	8.8	29 900	2.47	.65	.78	.91	8.3	28 400	2.63	.66	.80	.94	7.9	26 800	2.78	.68	.83	.97	7.4	25 200	2.90	.70	.85	1.00
	540	1150	8.9	30 400	2.49	.68	.82	.97	8.4	28 800	2.65	.69	.85	.99	8.0	27 200	2.80	.71	.88	1.00	7.5	25 600	2.93	.74	.91	1.00
21.7°C (71°F)	400	850	9.2	31 300	2.52	.46	.57	.68	8.7	29 700	2.69	.47	.58	.70	8.2	28 100	2.84	.47	.60	.72	7.7	26 400	2.97	.48	.61	.74
	470	1000	9.3	31 900	2.54	.47	.60	.72	8.9	30 200	2.71	.48	.61	.74	8.4	28 600	2.86	.49	.63	.77	7.9	26 800	2.99	.50	.65	.80
	540	1150	9.5	32 400	2.56	.49	.63	.77	9.0	30 700	2.73	.50	.64	.79	8.5	28 900										

COOLING RATINGS – 50 Hz

NOTE — To determine sensible capacity, leaving wet bulb and dry bulb temperature not shown in the tables, see Miscellaneous Engineering Data Accessories Section.

HS18-311V WITH C16-41FF, CR16-41FF, CH16-41FF, CB18-41 OR CBS18-41 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)						35°C (95°F)						41°C (105°F)						46°C (115°F)					
			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T) Dry Bulb		
17.2°C (63°F)	400	850	8.2	28 100	2.41	.79	.91	1.00	7.8	26 700	2.56	.81	.94	1.00	7.4	25 200	2.70	.83	.97	1.00	6.9	23 700	2.83	.86	1.00	1.00
	470	1000	8.5	29 000	2.43	.84	.97	1.00	8.0	27 400	2.59	.86	1.00	1.00	7.6	26 100	2.75	.89	1.00	1.00	7.2	24 700	2.88	.92	1.00	1.00
	540	1150	8.7	29 700	2.46	.88	1.00	1.00	8.3	28 300	2.63	.91	1.00	1.00	7.9	26 900	2.79	.94	1.00	1.00	7.5	25 500	2.92	.98	1.00	1.00
19.4°C (67°F)	400	850	8.8	30 000	2.47	.62	.73	.85	8.3	28 400	2.63	.63	.75	.87	7.9	26 800	2.78	.64	.77	.90	7.4	25 200	2.91	.66	.80	.93
	470	1000	9.0	30 600	2.50	.65	.78	.91	8.5	29 000	2.66	.66	.80	.94	8.0	27 400	2.81	.68	.83	.97	7.5	25 700	2.93	.70	.86	1.00
	540	1150	9.1	31 200	2.52	.68	.82	.97	8.6	29 500	2.68	.69	.85	.99	8.1	27 800	2.83	.71	.88	1.00	7.6	26 100	2.95	.74	.91	1.00
21.7°C (71°F)	400	850	9.4	32 000	2.55	.46	.57	.68	8.9	30 300	2.71	.47	.58	.70	8.4	28 600	2.86	.47	.60	.72	7.9	26 900	2.99	.48	.61	.74
	470	1000	9.6	32 700	2.57	.47	.60	.72	9.1	30 900	2.74	.48	.61	.74	8.5	29 100	2.89	.49	.63	.77	8.0	27 400	3.02	.50	.65	.80
	540	1150	9.7	33 100	2.59	.49	.63	.77	9.2	31 300	2.75	.50	.64	.79	8.6	29 500	2.90	.51	.66	.82	8.1	27 700	3.03	.52	.69	.85

HS18-411V-413V WITH C16-31FF, CR16-31FF OR CH16-31FF EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)						35°C (95°F)						41°C (105°F)						46°C (115°F)					
			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T) Dry Bulb		
17.2°C (63°F)	470	1000	9.7	33 000	2.90	.78	.89	1.00	9.2	31 300	3.11	.80	.92	1.00	8.6	29 400	3.30	.82	.95	1.00	8.1	27 600	3.46	.85	.99	1.00
	570	1200	10.0	34 200	2.94	.83	.96	1.00	9.5	32 400	3.16	.85	.99	1.00	8.9	30 400	3.35	.88	1.00	1.00	8.4	28 700	3.53	.91	1.00	1.00
	660	1400	10.3	35 000	2.98	.87	1.00	1.00	9.8	33 300	3.21	.90	1.00	1.00	9.3	31 600	3.41	.94	1.00	1.00	8.7	29 700	3.59	.97	1.00	1.00
19.4°C (67°F)	470	1000	10.3	35 300	2.99	.61	.72	.83	9.8	33 400	3.21	.62	.74	.86	9.2	31 300	3.40	.63	.76	.88	8.6	29 300	3.56	.65	.79	.92
	570	1200	10.6	36 300	3.03	.64	.77	.89	10.0	34 200	3.25	.65	.79	.92	9.4	32 100	3.44	.67	.82	.96	8.8	29 900	3.60	.69	.85	.99
	660	1400	10.8	37 000	3.05	.67	.81	.95	10.2	34 800	3.28	.69	.84	.98	9.6	32 700	3.47	.71	.87	1.00	8.9	30 500	3.64	.73	.91	1.00
21.7°C (71°F)	470	1000	11.1	37 900	3.09	.46	.56	.67	10.5	35 700	3.32	.46	.57	.68	9.8	33 500	3.52	.47	.59	.71	9.2	31 300	3.69	.48	.60	.73
	570	1200	11.3	38 700	3.12	.47	.59	.71	10.7	36 500	3.35	.48	.61	.73	10.0	34 200	3.56	.49	.62	.76	9.3	31 900	3.73	.50	.64	.79
	660	1400	11.5	39 400	3.15	.48	.62	.76	10.9	37 100	3.38	.49	.64	.78	10.2	34 700	3.58	.50	.66	.81	9.5	32 300	3.75	.52	.68	.85

HS18-411V-413V WITH C16-41FF, CR16-41FF, CH16-41FF, CB18-41 OR CBS18-41 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)						35°C (95°F)						41°C (105°F)						46°C (115°F)					
			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T) Dry Bulb		
17.2°C (63°F)	470	1000	10.0	34 000	2.94	.77	.89	1.00	9.4	32 200	3.15	.79	.92	1.00	8.9	30 200	3.34	.82	.95	1.00	8.3	28 300	3.50	.85	.99	1.00
	570	1200	10.3	35 200	2.98	.82	.95	1.00	9.8	33 300	3.20	.85	.99	1.00	9.1	31 200	3.40	.88	1.00	1.00	8.6	29 400	3.57	.91	1.00	1.00
	660	1400	10.6	36 100	3.02	.87	1.00	1.00	10.1	34 300	3.25	.90	1.00	1.00	9.5	32 400	3.46	.93	1.00	1.00	8.9	30 500	3.64	.97	1.00	1.00
19.4°C (67°F)	470	1000	10.7	36 400	3.03	.61	.72	.83	10.1	34 300	3.25	.62	.74	.85	9.4	32 200	3.45	.63	.76	.88	8.8	30 000	3.61	.65	.79	.92
	570	1200	10.9	37 300	3.07	.64	.76	.89	10.3	35 200	3.29	.65	.79	.92	9.6	32 900	3.49	.67	.82	.95	9.0	30 700	3.65	.69	.85	.99
	660	1400	11.1	38 000	3.10	.67	.81	.95	10.5	36 000	3.32	.69	.84	.98	9.8	33 500	3.52	.71	.87	1.00	9.1	31 200	3.68	.74	.91	1.00
21.7°C (71°F)	470	1000	11.4	38 900	3.13	.46	.56	.67	10.8	36 700	3.36	.46	.57	.68	10.1	34 400	3.56	.47	.59	.71	9.4	32 000	3.73	.48	.60	.73
	570	1200	11.7	39 800	3.17	.47	.59	.71	11.0	37 500	3.40	.48	.61	.73	10.3	35 100	3.60	.49	.62	.76	9.6	32 700	3.77	.50	.64	.79
	660	1400	11.8	40 400	3.19	.48	.62	.76	11.2	38 100	3.42	.49	.64	.78	10.4	35 600	3.63	.50	.66	.81	9.7	33 100	3.79	.52	.68	.85

HS18-411V-413V WITH C16-46FF EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)						35°C (95°F)						41°C (105°F)						46°C (115°F)					
			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T) Dry Bulb		
17.2°C (63°F)	470	1000	10.1	34 500	2.96	.77	.89	1.00	9.6	32 600	3.17	.79	.92	1.00	9.0	30 600	3.36	.82	.95	1.00	8.4	28 600	3.52	.85	.99	1.00
	570	1200	10.5	35 700	3.00	.82	.95	1.00	9.9	33 700	3.22	.85	.99	1.00	9.3	31 600	3.42	.88	1.00	1.00	8.7	29 800	3.60	.91	1.00	1.00
	660	1400	10.7	36 600	3.04	.87	1.00	1.00	10.2	34 700	3.27	.90	1.00	1.00	9.6	32 800	3.48	.93	1.00	1.00	9.1	30 900	3.66	.98	1.00	1.00
19.4°C (67°F)	470	1000	10.8	36 900	3.05	.60	.72	.83	10.2	34 700	3.27	.62	.74	.85	9.5	32 500	3.47	.63	.76	.88	8.9	30 300	3.63	.65	.79	.92
	570	1200	11.1	37 800	3.09	.64	.76	.89	10.4	35 600	3.31	.65	.79	.92	9.8	33 300	3.51	.67	.82	.95	9.1	31 100	3.67	.69	.85	.99
	660	1400	11.3	38 600	3.12	.67	.81	.95	10.6	36 300	3.34	.69	.84	.98	9.9	33 900	3.54	.71	.87	1.00	9.3	31 600	3.71	.74	.91	1.00
21.7°C (71°F)	470	1000	11.5	39 400	3.15	.46	.56	.66	10.9	37 200	3.38	.46	.57	.66	10.2	34 800	3.59	.47	.59	.70	9.5	32 400	3.76	.48	.60	.73
	570	1200	11.8	40 400	3.19	.47	.59	.71	11.1	38 000	3.42	.48	.60	.73	10.4	35 500	3.62	.49	.62	.76	9.7	33 000	3.79	.50	.64	.79
	660	1400	12.0	41 000	3.21	.48	.62	.76	11.3	38 600	3.45	.49	.64	.78	10.6	36 000	3.65	.50	.66	.81	9.8	33 500	3.82	.52	.68	.85

COOLING RATINGS — 50 Hz

NOTE — To determine sensible capacity, leaving wet bulb and dry bulb temperature not shown in the tables, see Miscellaneous Engineering Data Accessories Section.

HS18-411V-413V WITH C16-51FF, CR16-51FF OR CH16-51FF EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)						35°C (95°F)						41°C (105°F)						46°C (115°F)					
			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)		
						Dry Bulb						Dry Bulb						Dry Bulb						Dry Bulb		
L/s	cfm	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	
17.2°C (63°F)	470	1000	10.3	35 200	2.96	.78	.90	1.00	9.7	33 100	3.18	.80	.93	1.00	9.1	31 000	3.37	.83	.96	1.00	8.4	28 800	3.53	.86	1.00	1.00
	565	1200	10.6	36 300	3.00	.83	.97	1.00	9.9	33 900	3.22	.86	1.00	1.00	9.4	32 100	3.43	.89	1.00	1.00	8.8	30 100	3.62	.93	1.00	1.00
	660	1400	10.9	37 200	3.04	.88	1.00	1.00	10.3	35 200	3.28	.91	1.00	1.00	9.7	33 200	3.50	.95	1.00	1.00	9.1	31 100	3.68	.99	1.00	1.00
19.4°C (67°F)	470	1000	11.0	37 600	3.06	.61	.72	.84	10.3	35 300	3.23	.62	.74	.86	9.7	33 000	3.48	.64	.77	.90	9.0	30 600	3.65	.66	.80	.94
	565	1200	11.3	38 500	3.10	.64	.77	.90	10.6	36 100	3.32	.66	.80	.93	9.9	33 700	3.52	.68	.83	.97	9.2	31 300	3.69	.70	.86	1.00
	660	1400	11.5	39 100	3.12	.67	.82	.96	10.8	36 700	3.35	.69	.85	.99	10.0	34 200	3.55	.72	.88	1.00	9.3	31 700	3.72	.75	.92	1.00
21.7°C (71°F)	470	1000	11.8	40 100	3.17	.46	.56	.67	11.0	37 700	3.40	.46	.58	.69	10.3	35 300	3.61	.47	.59	.71	9.6	32 700	3.78	.48	.61	.74
	565	1200	12.0	41 000	3.20	.47	.59	.72	11.3	38 500	3.43	.48	.61	.74	10.5	35 900	3.64	.49	.63	.77	9.7	33 200	3.81	.50	.65	.80
	660	1400	12.2	41 600	3.22	.49	.63	.76	11.4	39 000	3.46	.50	.64	.79	10.7	36 400	3.67	.51	.67	.82	9.8	33 600	3.84	.52	.69	.86

HS18-411V-413V WITH CB18-51 OR CBS18-51 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)						35°C (95°F)						41°C (105°F)						46°C (115°F)					
			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)		
						Dry Bulb						Dry Bulb						Dry Bulb						Dry Bulb		
L/s	cfm	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	
17.2°C (63°F)	470	1000	10.3	35 300	2.94	.76	.88	1.00	9.7	33 200	3.16	.78	.91	1.00	9.1	31 000	3.44	.81	.94	1.00	8.4	28 600	3.75	.84	1.00	1.00
	565	1200	10.7	36 500	2.98	.81	.94	1.00	10.0	34 100	3.22	.84	1.00	1.00	9.4	32 100	3.52	.87	1.00	1.00	8.8	30 000	3.87	.91	1.00	1.00
	660	1400	11.0	37 500	3.03	.87	1.00	1.00	10.4	35 500	3.29	.90	1.00	1.00	9.8	33 400	3.60	.93	1.00	1.00	9.1	31 100	3.97	.97	1.00	1.00
19.4°C (67°F)	470	1000	11.0	37 700	3.03	.60	.71	.82	10.4	35 400	3.28	.61	.73	.84	9.6	32 900	3.57	.63	.75	.88	8.9	30 400	3.91	.65	.79	.92
	565	1200	11.3	38 700	3.07	.63	.76	.88	10.6	36 200	3.32	.65	.78	.91	9.9	33 700	3.62	.67	.81	.95	9.1	31 100	3.97	.69	.85	1.00
	660	1400	11.5	39 400	3.10	.66	.81	.94	10.8	36 900	3.36	.68	.84	1.00	10.1	34 300	3.66	.71	.87	1.00	9.3	31 600	4.02	.74	.92	1.00
21.7°C (71°F)	470	1000	11.8	40 300	3.14	.45	.55	.66	11.1	37 800	3.40	.45	.56	.68	10.3	35 100	3.72	.46	.58	.70	9.5	32 400	4.09	.47	.60	.73
	565	1200	12.1	41 200	3.17	.46	.58	.70	11.3	38 600	3.44	.47	.60	.73	10.5	35 800	3.77	.48	.62	.76	9.7	33 000	4.15	.49	.64	.79
	660	1400	12.3	41 900	3.20	.48	.61	.75	11.5	39 100	3.48	.49	.63	.78	10.6	36 300	3.80	.50	.66	.81	9.8	33 400	4.18	.52	.69	.86

HS18-513V WITH C16-46FF EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)						35°C (95°F)						41°C (105°F)						46°C (115°F)					
			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)		
						Dry Bulb						Dry Bulb						Dry Bulb						Dry Bulb		
L/s	cfm	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	
17.2°C (63°F)	660	1400	12.1	41 300	3.43	.82	.95	1.00	11.5	39 200	3.71	.84	.98	1.00	10.8	36 700	3.98	.87	1.00	1.00	10.2	34 700	4.23	.90	1.00	1.00
	755	1600	12.3	42 000	3.45	.86	1.00	1.00	11.8	40 100	3.75	.89	1.00	1.00	11.1	38 000	4.04	.92	1.00	1.00	10.5	35 800	4.29	.95	1.00	1.00
	850	1800	12.7	43 300	3.49	.90	1.00	1.00	12.1	41 200	3.80	.93	1.00	1.00	11.4	39 000	4.08	.96	1.00	1.00	10.8	36 700	4.35	1.00	1.00	1.00
19.4°C (67°F)	660	1400	12.9	43 900	3.51	.63	.76	.88	12.1	41 400	3.81	.65	.78	.91	11.4	38 900	4.08	.67	.81	.94	10.6	36 300	4.32	.69	.84	.98
	755	1600	13.1	44 600	3.54	.66	.80	.93	12.3	42 100	3.83	.68	.82	.96	11.6	39 500	4.11	.70	.85	1.00	10.8	36 800	4.35	.72	.89	1.00
	850	1800	13.3	45 300	3.56	.69	.84	.98	12.5	42 700	3.86	.71	.87	1.00	11.7	40 000	4.13	.73	.90	1.00	10.9	37 300	4.38	.76	.94	1.00
21.7°C (71°F)	660	1400	13.7	46 900	3.61	.47	.59	.71	13.0	44 200	3.92	.47	.60	.73	12.2	41 500	4.20	.48	.62	.75	11.3	38 700	4.45	.49	.64	.78
	755	1600	14.0	47 600	3.63	.48	.61	.74	13.1	44 800	3.94	.49	.63	.77	12.3	42 000	4.23	.50	.65	.79	11.5	39 100	4.48	.51	.67	.83
	850	1800	14.1	48 100	3.65	.49	.64	.78	13.3	45 300	3.96	.50	.65	.81	12.4	42 400	4.25	.51	.68	.84	11.6	39 500	4.50	.53	.70	.88

HS18-513V WITH C16-51FF OR CR16-51FF EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)						35°C (95°F)						41°C (105°F)						46°C (115°F)					
			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)		
						Dry Bulb						Dry Bulb						Dry Bulb						Dry Bulb		
L/s	cfm	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	
17.2°C (63°F)	660	1400	12.2	41 700	3.48	.81	.93	1.00	11.5	39 400	3.76	.83	.96	1.00	10.8	36 800	4.02	.86	1.00	1.00	10.2	34 800	4.26	.89	1.00	1.00
	755	1600	12.5	42 600	3.51	.84	.98	1.00	11.8	40 200	3.80	.87	1.00	1.00	11.2	38 100	4.07	.90	1.00	1.00	10.5	35 900	4.32	.94	1.00	1.00
	850	1800	12.7	43 400	3.54	.88	1.00	1.00	12.1	41 300	3.84	.91	1.00	1.00	11.5	39 100	4.12	.94	1.00	1.00	10.8	36 800	4.37	.98	1.00	1.00
19.4°C (67°F)	660	1400	13.0	44 500	3.58	.63	.75	.87	12.3	41 900	3.87	.64	.77	.90	11.5	39 300	4.13	.66	.80	.93	10.8	36 700	4.36	.68	.83	.97
	755	1600	13.2	45 200	3.60	.65	.78	.91	12.5	42 600	3.90	.67	.81	.95	11.7	39 900	4.16	.68	.84	.98	10.9	37 200	4.39	.71	.87	1.00
	850	1800	13.4	45 800	3.62	.67	.82	.96	12.6	43 100	3.92	.69	.84	.99	11.8	40 400	4.18	.71	.88	1.00	11.0	37 600	4.42	.74	.91	1.00
21.7°C (71°F)	660	1400	14.0	47 600	3.69	.46	.58	.69	13.2	44 900	3.99	.47	.59	.71	12.3	42 100	4.26	.48	.61	.74	11.5	39 200	4.50	.49	.63	.77
	755	1600	14.2	48 300	3.71	.47	.60	.73	13.3	45 500	4.01	.48	.62	.75	12.5	42 600	4.29	.49	.64	.78	11.6	39 600	4.53			

COOLING RATINGS — 50 Hz

NOTE — To determine sensible capacity, leaving wet bulb and dry bulb temperature not shown in the tables, see Miscellaneous Engineering Data Accessories Section.

HS18-513V WITH CB18-51 OR CBS18-51 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)						35°C (95°F)						41°C (105°F)						46°C (115°F)					
			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)		
						Dry Bulb						Dry Bulb						Dry Bulb						Dry Bulb		
L/s	cfm	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	
17.2°C (63°F)	660	1400	12.4	42 400	3.54	.82	.95	1.00	11.7	40 000	3.80	.84	.98	1.00	11.0	37 500	4.12	.87	1.00	1.00	10.3	35 200	4.52	.91	1.00	1.00
	755	1600	12.7	43 200	3.57	.86	1.00	1.00	12.0	41 100	3.85	.89	1.00	1.00	11.3	38 700	4.19	.92	1.00	1.00	10.6	36 300	4.60	.96	1.00	1.00
	850	1800	13.0	44 500	3.61	.90	1.00	1.00	12.4	42 200	3.90	.93	1.00	1.00	11.7	39 800	4.25	.97	1.00	1.00	10.9	37 300	4.67	1.00	1.00	1.00
19.4°C (67°F)	660	1400	13.2	45 100	3.62	.63	.76	.88	12.4	42 400	3.90	.65	.78	.91	11.6	39 600	4.24	.67	.81	.95	10.8	36 700	4.63	.69	.85	.99
	755	1600	13.4	45 800	3.65	.66	.80	.93	12.6	43 100	3.93	.68	.83	.97	11.8	40 200	4.27	.70	.86	1.00	10.9	37 300	4.68	.73	.90	1.00
	850	1800	13.6	46 500	3.67	.69	.84	.98	12.8	43 700	3.96	.71	.87	1.00	12.0	40 800	4.30	.73	.91	1.00	11.1	37 800	4.71	.76	.95	1.00
21.7°C (71°F)	660	1400	14.1	48 100	3.72	.47	.59	.71	13.2	45 200	4.02	.47	.60	.73	12.4	42 200	4.38	.48	.62	.75	11.5	39 100	4.81	.49	.64	.79
	755	1600	14.3	48 800	3.74	.48	.61	.74	13.5	45 900	4.05	.49	.63	.77	12.5	42 800	4.41	.50	.65	.80	11.6	39 600	4.84	.51	.68	.84
	850	1800	14.5	49 400	3.76	.49	.64	.78	13.6	46 400	4.07	.50	.66	.81	12.7	43 200	4.44	.52	.68	.84	11.7	39 900	4.87	.53	.71	.89

HS18-513V WITH C16-65, CR16-65, OR CH16-51FF EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)						35°C (95°F)						41°C (105°F)						46°C (115°F)					
			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)		
						Dry Bulb						Dry Bulb						Dry Bulb						Dry Bulb		
L/s	cfm	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	
17.2°C (63°F)	660	1400	12.4	42 400	3.51	.81	.94	1.00	11.8	40 100	3.79	.83	.97	1.00	11.0	37 500	4.05	.86	1.00	1.00	10.3	35 300	4.29	.89	1.00	1.00
	755	1600	12.7	43 400	3.54	.85	.98	1.00	12.0	40 900	3.83	.87	1.00	1.00	11.3	38 700	4.11	.90	1.00	1.00	10.7	36 500	4.35	.94	1.00	1.00
	850	1800	13.0	44 200	3.57	.88	1.00	1.00	12.3	42 000	3.87	.91	1.00	1.00	11.6	39 700	4.15	.95	1.00	1.00	11.0	37 400	4.40	.99	1.00	1.00
19.4°C (67°F)	660	1400	13.3	45 300	3.60	.63	.75	.87	12.5	42 600	3.90	.64	.77	.90	11.7	39 900	4.16	.66	.80	.93	10.9	37 200	4.39	.68	.83	.97
	755	1600	13.5	46 000	3.63	.65	.79	.92	12.7	43 300	3.92	.67	.81	.95	11.9	40 500	4.19	.69	.84	.99	11.1	37 800	4.42	.71	.87	1.00
	850	1800	13.7	46 600	3.65	.67	.82	.96	12.8	43 800	3.94	.69	.85	.99	12.0	41 000	4.22	.72	.88	1.00	11.2	38 200	4.45	.74	.92	1.00
21.7°C (71°F)	660	1400	14.2	48 400	3.71	.46	.58	.70	13.4	45 600	4.02	.47	.59	.72	12.5	42 700	4.29	.48	.61	.74	11.7	39 800	4.53	.49	.63	.77
	755	1600	14.4	49 100	3.74	.48	.60	.73	13.5	46 200	4.04	.48	.62	.75	12.7	43 300	4.32	.49	.64	.78	11.8	40 200	4.56	.50	.66	.81
	850	1800	14.6	49 700	3.75	.49	.63	.76	13.7	46 800	4.06	.50	.64	.79	12.8	43 700	4.34	.51	.66	.82	11.9	40 600	4.58	.52	.69	.86

HS18-513V WITH CB18-65 OR CBS18-65 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)						35°C (95°F)						41°C (105°F)						46°C (115°F)					
			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)		
						Dry Bulb						Dry Bulb						Dry Bulb						Dry Bulb		
L/s	cfm	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	
17.2°C (63°F)	660	1400	12.7	43 400	3.60	.83	.96	1.00	12.0	41 100	3.87	.85	.99	1.00	11.3	38 400	4.22	.89	1.00	1.00	10.6	36 000	4.63	.93	1.00	1.00
	755	1600	13.0	44 500	3.64	.88	1.00	1.00	12.4	42 200	3.93	.91	1.00	1.00	11.7	39 800	4.29	.94	1.00	1.00	10.9	37 300	4.72	.98	1.00	1.00
	850	1800	13.5	45 900	3.68	.92	1.00	1.00	12.7	43 500	3.99	.95	1.00	1.00	12.0	40 900	4.35	.99	1.00	1.00	11.2	38 200	4.79	1.00	1.00	1.00
19.4°C (67°F)	660	1400	13.5	46 000	3.69	.64	.77	.90	12.7	43 300	3.98	.66	.79	.93	11.8	40 400	4.32	.68	.82	.97	11.0	37 400	4.73	.70	.86	1.00
	755	1600	13.7	46 900	3.71	.67	.81	.95	12.9	44 000	4.01	.69	.84	.99	12.0	41 000	4.36	.71	.88	1.00	11.1	38 000	4.77	.74	.92	1.00
	850	1800	13.9	47 500	3.73	.70	.86	1.00	13.1	44 600	4.03	.72	.89	1.00	12.2	41 600	4.39	.75	.93	1.00	11.3	38 500	4.81	.78	.98	1.00
21.7°C (71°F)	660	1400	14.4	49 100	3.78	.47	.59	.72	13.5	46 100	4.09	.48	.61	.74	12.6	42 900	4.46	.49	.63	.77	11.6	39 700	4.90	.50	.65	.80
	755	1600	14.6	49 800	3.81	.49	.62	.76	13.7	46 700	4.12	.49	.64	.79	12.8	43 400	4.49	.51	.66	.82	11.8	40 200	4.93	.52	.69	.86
	850	1800	14.7	50 300	3.82	.50	.65	.80	13.8	47 200	4.14	.51	.67	.83	12.9	43 900	4.52	.52	.70	.87	11.9	40 600	4.96	.54	.73	.91

HS18-513V WITH CH16-65V EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)						35°C (95°F)						41°C (105°F)						46°C (115°F)					
			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T)		
						Dry Bulb						Dry Bulb						Dry Bulb						Dry Bulb		
L/s	cfm	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	kW	Btuh	kW	24°C 76°F	27°C 80°F	29°C 84°F	
17.2°C (63°F)	660	1400	12.9	44 000	3.55	.81	.94	1.00	12.2	41 500	3.84	.84	.97	1.00	11.4	38 900	4.12	.87	1.00	1.00	10.7	36 600	4.38	.90	1.00	1.00
	755	1600	13.1	44 600	3.58	.85	1.00	1.00	12.5	42 600	3.89	.88	1.00	1.00	11.8	40 300	4.19	.92	1.00	1.00	11.1	37 900	4.45	.96	1.00	1.00
	850	1800	13.6	46 300	3.63	.90	1.00	1.00	12.9	43 900	3.94	.93	1.00	1.00	12.1	41 400	4.24	.97	1.00	1.00	11.4	38 900	4.51	1.00	1.00	1.00
19.4°C (67°F)	660	1400	13.7	46 900	3.65	.63	.75	.88	12.9	44 100	3.95	.64	.78	.91	12.1	41 200	4.23	.66	.81	.94	11.2	38 300	4.48	.69	.84	.98
	755	1600	14.0	47 700	3.67	.66	.80	.93	13.1	44 800	3.98	.68	.82	.96	12.3	41 900	4.27	.70	.85	1.00	11.4	38 900	4.51	.72	.89	1.00
	850	1800	14.2	48 400	3.70	.68	.84	.98	13.3	45 500	4.00	.71	.87	1.00	12.5	42 500	4.29	.73	.90	1.00	11.6	39 500	4.54	.76	.94	1.00
21.7°C (71°F)	660	1400	14.7	50 000	3.75	.47	.58	.70	13.8	47 100	4.07	.47	.60	.72	12.9	44 000	4.36	.48	.62	.75	12.0	40 900	4.62	.49	.64	.78
	755	1600	14.9	50 800	3.78	.48	.61	.74	14.0	47 800	4.09	.49	.63	.77												

COOLING RATINGS — 50 Hz

NOTE — To determine sensible capacity, leaving wet bulb and dry bulb temperature not shown in the tables, see Miscellaneous Engineering Data Accessories Section.

HS18-653V WITH C16-51FF OR CR16-51FF EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																																						
			29°C (85°F)						35°C (95°F)						41°C (105°F)						46°C (115°F)																				
			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T) Dry Bulb																	
																											24°C 76°F	27°C 80°F	29°C 84°F	24°C 76°F	27°C 80°F	29°C 84°F	24°C 76°F	27°C 80°F	29°C 84°F	24°C 76°F	27°C 80°F	29°C 84°F			
L/s	cfm	kW	Btuh	kW	kW	Btuh	kW	Btuh	kW	Btuh	kW	Btuh	kW	Btuh	kW	Btuh	kW	Btuh	kW	Btuh	kW	Btuh	kW	Btuh	kW	Btuh	kW	Btuh	kW	Btuh	kW	Btuh	kW	Btuh							
17°C (63°F)	755	1600	14.5	49 500	4300	.79	.91	1.00	13.8	47 000	4620	.81	.93	1.00	13.0	44 500	4940	.83	.95	1.00	12.3	42 000	5240	.85	.98	1.00															
	850	1800	14.8	50 400	4330	.82	.94	1.00	14.0	47 900	4670	.84	.96	1.00	13.3	45 300	4990	.86	.99	1.00	12.8	42 800	5310	.89	1.00	1.00															
	945	2000	15.0	51 200	4370	.85	.97	1.00	14.3	48 700	4710	.87	.99	1.00	13.5	46 200	5040	.89	1.00	1.00	12.8	43 700	5380	.92	1.00	1.00															
19.4°C (67°F)	755	1600	15.5	52 900	4440	.62	.78	.85	14.7	50 200	4790	.63	.75	.87	13.9	47 400	5130	.64	.77	.89	13.1	44 600	5440	.65	.79	.92															
	850	1800	15.7	53 600	4470	.64	.75	.88	14.9	50 900	4820	.65	.78	.90	14.1	48 000	5170	.65	.80	.93	13.2	45 100	5480	.68	.83	.96															
	945	2000	15.9	54 300	4500	.65	.79	.91	15.1	51 400	4850	.67	.81	.94	14.2	48 500	5200	.69	.83	.96	13.4	45 600	5520	.70	.86	.99															
21.7°C (71°F)	755	1600	16.6	56 600	4600	.46	.57	.68	15.7	53 600	4970	.47	.58	.70	14.8	50 600	5330	.48	.60	.72	14.0	47 600	5670	.48	.61	.74															
	850	1800	16.8	57 300	4630	.47	.59	.71	15.9	54 300	5000	.48	.60	.72	15.0	51 200	5370	.49	.62	.75	14.1	48 100	5710	.49	.63	.77															
	945	2000	17.0	57 900	4650	.48	.61	.73	16.1	54 800	5030	.49	.62	.75	15.2	51 700	5400	.50	.64	.78	14.2	48 500	5750	.51	.66	.80															

HS18-653V WITH C16-65, CR16-65 OR CH16-51FF EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																																						
			29°C (85°F)						35°C (95°F)						41°C (105°F)						46°C (115°F)																				
			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T) Dry Bulb																	
																											24°C 76°F	27°C 80°F	29°C 84°F	24°C 76°F	27°C 80°F	29°C 84°F	24°C 76°F	27°C 80°F	29°C 84°F	24°C 76°F	27°C 80°F	29°C 84°F			
L/s	cfm	kW	Btuh	kW	kW	Btuh	kW	Btuh	kW	Btuh	kW	Btuh	kW	Btuh	kW	Btuh	kW	Btuh	kW	Btuh	kW	Btuh	kW	Btuh	kW	Btuh	kW	Btuh	kW	Btuh	kW	Btuh	kW	Btuh	kW	Btuh					
17°C (63°F)	755	1600	14.8	50 400	4430	.79	.91	1.00	14.0	47 900	4770	.81	.93	1.00	13.3	45 300	5100	.83	.96	1.00	12.5	42 700	5420	.86	.98	1.00															
	850	1800	15.0	51 300	4470	.82	.94	1.00	14.3	48 800	4820	.84	.97	1.00	13.5	46 100	5180	.87	.99	1.00	12.8	43 600	5480	.89	1.00	1.00															
	945	2000	15.3	52 200	4510	.85	.97	1.00	14.5	49 600	4870	.87	.99	1.00	13.8	47 000	5210	.90	1.00	1.00	13.0	44 500	5560	.93	1.00	1.00															
19.4°C (67°F)	755	1600	15.8	53 800	4580	.62	.73	.85	14.9	51 000	4940	.63	.75	.87	14.1	48 200	5290	.64	.77	.89	13.3	45 300	5620	.66	.80	.92															
	850	1800	16.0	54 600	4620	.64	.76	.88	15.2	51 800	4980	.65	.78	.91	14.3	48 800	5340	.67	.81	.93	13.5	45 900	5670	.68	.83	.96															
	945	2000	16.2	55 300	4650	.66	.79	.91	15.4	52 400	5010	.67	.81	.94	14.4	49 300	5370	.69	.84	.97	13.6	46 400	5700	.71	.87	1.00															
21.7°C (71°F)	755	1600	16.8	57 500	4740	.47	.57	.68	16.0	54 500	5130	.47	.58	.70	15.1	51 400	5510	.48	.60	.72	14.2	48 300	5860	.48	.61	.74															
	850	1800	17.1	58 400	4780	.47	.59	.71	16.2	55 200	5170	.48	.60	.73	15.3	52 100	5550	.49	.62	.75	14.3	48 800	5900	.50	.64	.78															
	945	2000	17.3	58 900	4810	.48	.61	.73	16.4	55 800	5200	.49	.62	.76	15.4	52 500	5580	.50	.64	.78	14.4	49 300	5940	.51	.66	.81															

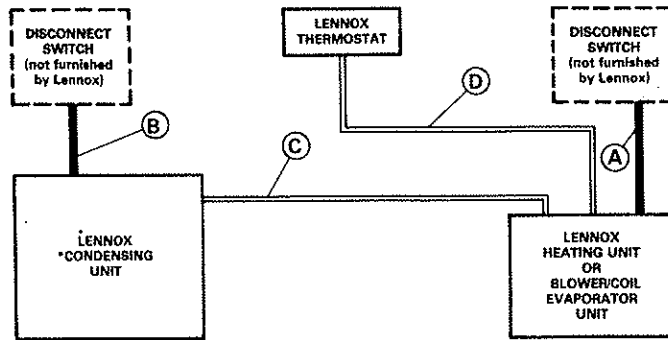
HS18-653V WITH CB18-65 OR CBS18-65 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																																					
			29°C (85°F)						35°C (95°F)						41°C (105°F)						46°C (115°F)																			
			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Input	Sensible To Total Ratio (S/T) Dry Bulb																
																											24°C 76°F	27°C 80°F	29°C 84°F	24°C 76°F	27°C 80°F	29°C 84°F	24°C 76°F	27°C 80°F	29°C 84°F	24°C 76°F	27°C 80°F	29°C 84°F		
L/s	cfm	kW	Btuh	kW	kW	Btuh	kW	Btuh	kW	Btuh	kW	Btuh	kW	Btuh	kW	Btuh	kW	Btuh	kW	Btuh	kW	Btuh	kW	Btuh	kW	Btuh	kW	Btuh	kW	Btuh	kW	Btuh	kW	Btuh	kW	Btuh				
17°C (63°F)	755	1600	15.1	51 500	4370	.79	.91	1.00	14.3	48 800	4710	.81	.93	1.00	13.5	46 100	5050	.83	.96	1.00	12.7	43 500	5360	.86	.98	1.00														
	850	1800	15.4	52 600	4420	.82	.95	1.00	14.6	49 900	4770	.85	.97	1.00	13.8	47 200	5110	.87	.99	1.00	13.1	44 600	5450	.90	1.00	1.00														
	945	2000	15.7	53 600	4460	.86	.98	1.00	14.9	50 900	4830	.88	1.00	1.00	14.2	48 300	5190	.91	1.00	1.00	13.4	45 800	5540	.94	1.00	1.00														
19.4°C (67°F)	755	1600	16.0	54 700	4510	.62	.73	.85	15.2	51 800	4870	.63	.75	.87	14.3	48 800	5220	.64	.77	.90	13.4	45 800	5540	.66	.80	.93														
	850	1800	16.3	55 600	4550	.64	.77	.89	15.4	52 600	4910	.65	.79	.91	14.5	49 500	5270	.67	.81	.94	13.6	46 500	5590	.69	.84	.97														
	945	2000	16.5	56 300	4580	.66	.80	.93	15.6	53 300	4950	.68	.82	.95	14.7	50 200	5310	.70	.85	.98	13.8	47 000	5640	.72	.88	1.00														
21.7°C (71°F)	755	1600	17.1	58 200	4660	.46	.57	.68	16.1	55 100	5050	.47	.58	.70	15.2	51 900	5420	.47	.60	.72	14.2	48 600	5760	.48	.61	.75														
	850	1800	17.3	59 100	4700	.47	.59	.71	16.4	55 800	5090	.48	.61	.73	15.4	52 600	5460	.49	.62	.75	14.4	49 200	5810	.50	.64	.79														
	945	2000	17.5	59 700	4730	.48	.62	.75	16.5	56 400	5120	.49	.63	.77	15.5	53 000	5490	.50	.65	.79	14.6	49 700	5840	.51	.67	.82														

HS18-653V WITH CH16-65V EVAPORATOR UNIT

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

FIELD WIRING



- A — Single Phase
- B — Single Phase, Three Phase with Neutral or Three Phase — See Electrical Data
- C — Two wire 24V
Three wire 24V with optional Transformer Kit (16F34)*
- D — Four wire 24V

NOTE — Field wiring not furnished by Lennox.

All wiring must conform to local electrical codes.

*HS18 Series Condensing Units are designed for use with Lennox 'C' Series Evaporator Coils or CB/CBS18 indoor blower-coil units. If matched with other equipment, a 240/24V, 30VA transformer may be required.

ELECTRICAL DATA HS18-141V, HS18-211V, HS18-261V, HS18-311V

Model Number		HS18-141V	HS18-211V	HS18-261V	HS18-311V
Line voltage and phase (50 Hz)		220/240V 1 phase	220/240V 1 phase	220/240V 1 phase	220/240V 1 phase
Voltage range (minimum — maximum)		198 — 264V	198 — 264V	198 — 264V	198 — 264V
Compressor	Rated load (A)	5.7	9.4	10.2	13.6
	Locked rotor (A)	31	43	52	78
Condenser Fan	Full load (A)	1.2	1.2	1.2	1.2
Motor (1 phase)	Locked rotor (A)	2.8	2.8	2.8	2.8

NOTE — Refer to local electrical codes to determine wire, fuse and disconnect size requirements.

ELECTRICAL DATA HS18-411V-413V, HS18-513V and HS18-653V

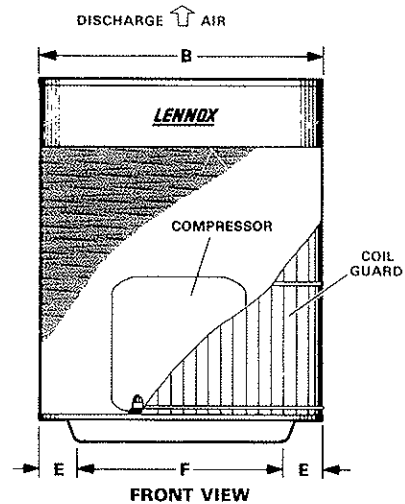
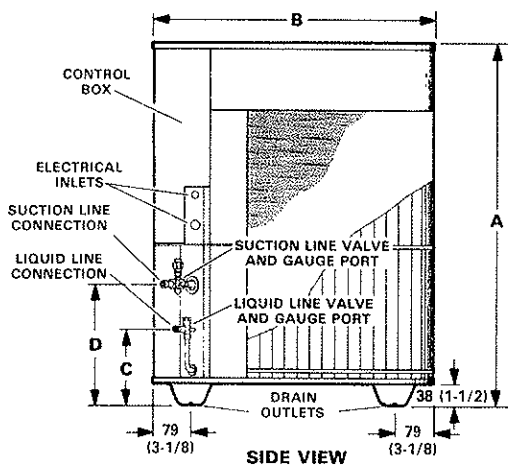
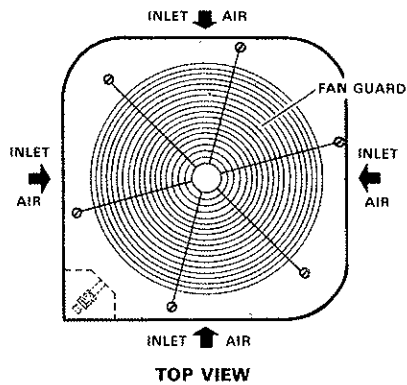
Model Number		HS18-411V	HS18-413V	HS18-513V	HS18-653V
Line voltage and phase (50 Hz)		220/240V 1 phase	380/420V 3 phase with neutral	†380/420V 3 phase	†380/420V 3 phase
Voltage range (minimum — maximum)		198 — 264V	342 — 462V	342 — 462V	342 — 462V
Compressor	Rated load (A)	14.6	5.0	6.6	9.2
	Locked rotor (A)	84.9	37.7	46	65
Condenser Fan	Full load (A)	1.2	*1.2	1.1	1.1
Motor (1 phase)	Locked rotor (A)	2.8	*2.8	2.3	2.3

*Motor is 220/240V and is connected from phase to neutral.

†Neutral required with optional Transformer Kit (16F34).

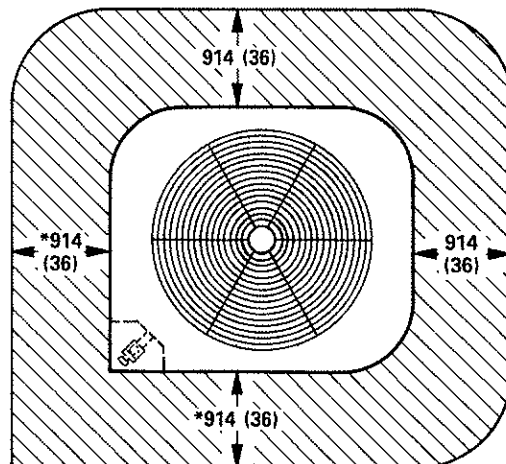
NOTE — Refer to local electrical codes to determine wire, fuse and disconnect size requirements.

DIMENSIONS – mm (inches)



Model Number		A	B	C	D	E	F
HS18-141V,	mm	679	565	92	175	92	381
HS18-211V,	in.	26-3/4	22-1/4	3-5/8	6-7/8	3-5/8	15
HS18-261V,							
HS18-311V,	mm	730	565	152	241	92	381
HS18-411V,	in.	28-3/4	22-1/4	6	9-1/2	3-5/8	15
HS18-413V,							
HS18-513V,	mm	852	732	122	237	121	491
HS18-653V,	in.	33-9/16	28-13/16	4-13/16	9-5/16	4-3/4	19-5/16

INSTALLATION CLEARANCES – mm (inches)



NOTE – 1220mm (48 in.) clearance required on top of unit.
 *NOTE – One side must be 914mm (36 in.) for service.
 Two of the remaining sides may be 305mm (12 in.).