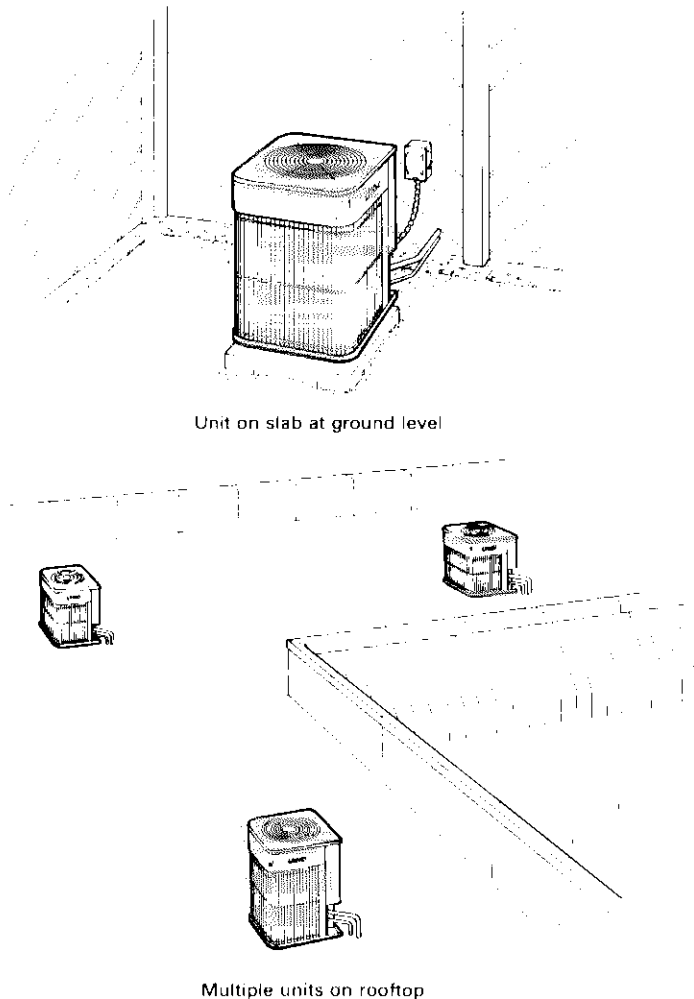




**HS18 SERIES RFCII™ SYSTEM  
CONDENSING UNITS  
(1 thru 5 Nominal Tons)  
\*12,000 to 59,000 Btuh Cooling Capacity**  
\*DOE and ARI 210/240 Standard Ratings

ENGINEERING DATA  
**COOLING UNITS**  
CONDENSING UNITS  
Page 29  
August 1990  
Supersedes April 1988

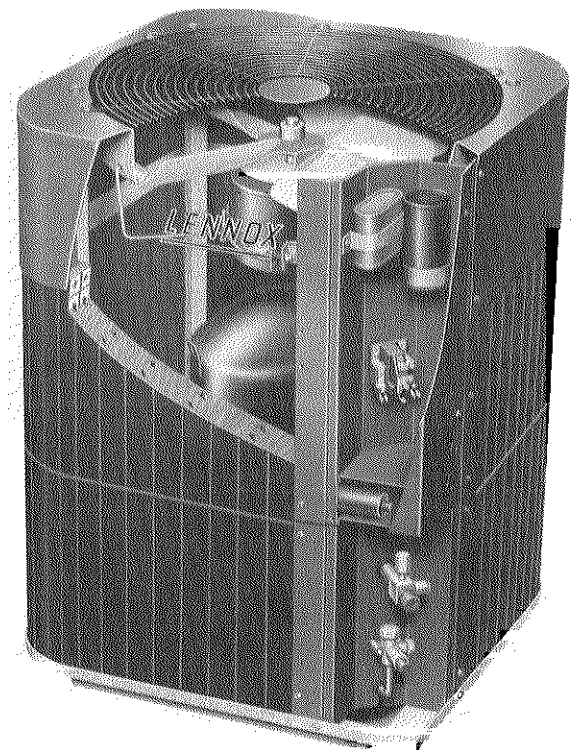
**Typical Applications**



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



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



**RFCII System HS18 Condensing Units Feature Energy-Saving Performance  
With Solid Lennox Design and Quality Construction**

RFCII series HS18 model condensing units are matched with nominal size evaporator units for high efficiency installations with minimum cost. Entire system including refrigerant lines and condensing unit mounting base are available. A selection of matching up-flo, down-flo and horizontal evaporator units provide a wide range of cooling capacities to meet the requirements of all types of applications. Evaporator units additive to Lennox furnaces are available for all season installations. Also available are evaporator units equipped with their own blowers for separate cooling applications. For complete data see individual evaporator unit bulletins indexed in sections Coils-Blower Coil Units.

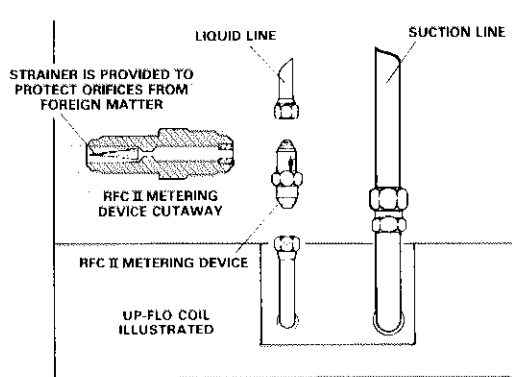
Weather resistant condensing unit cabinet is constructed of galvanized steel with a baked-on outdoor enamel paint finish for maximum protection from rust and corrosion. Extra large four sided wrap-around coil provides maximum cooling efficiency.

Additionally, cooling efficiency is increased by the use of durable copper tubing and ripple-edged aluminum 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, PVC coated steel wire fan and coil guards are furnished. Compressor is protected from excessive current and temperatures. Service valves and refrigerant line connections are externally located. Available as options to be ordered are; thermostat, timed-off control, crankcase heater, mounting base and refrigerant line sets.

All 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 desired location, connect refrigerant lines and make electrical connections to complete a low cost installation.

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

## FEATURES



**Refrigerant Flow Control II** — Lennox RFCII (Refrigerant Flow Control) is a very accurate means of metering refrigerant in a system. Refrigerant metering control is accomplished by the exact sizing of a RFCII refrigerant metering device. The whole principle of the Lennox RFC system involves the matching evaporator coil, and the proper bore sizing of the orifices (primary and secondary) within the metering device. The metering device is equipped with flare fitting connections and field installs at the liquid line connection on the evaporator unit. The liquid line connects directly to the metering device. The RFCII metering device is furnished and is included with the condensing unit. The Lennox RFCII system equalizes pressures almost instantly after the compressor stops. It therefore starts unloaded eliminating the need of any extra controls.

**Approvals** — Condensing units have been tested in the Lennox Research Laboratory test room and rated according to U.S. Department of Energy (DOE) test procedures and in accordance with ARI Standard 210/240-89. In addition, units have been sound rated in the Lennox 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 U.L. and N.E.C. Units are U.L. Listed.

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

**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.

**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 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 PVC (polyvinyl chloride) coated steel wire fan guard is furnished as standard.

**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. Suction cooled and overload protected. 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.

**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 PVC coated steel coil guard is furnished as standard.

**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 the HS18-460, HS18-510 and HS18-650 models. Refrigerant line connections, service valves and field wiring inlets are all conveniently located in one central area of the cabinet. See dimension drawing for location.

**Thermostat (Optional)** — Thermostat is not furnished with the unit and must be ordered extra. See Accessories Section and Lennox Price Book.

**Crankcase Heater (Optional)** — Available for HS18-211 through HS18-410 models. Crankcase heaters (P-8-8852) are not furnished and must be ordered extra. Heaters prevent migration of liquid refrigerant into the compressor and ensure proper compressor lubrication. HS18-141, HS18-460, HS18-510 and HS18-650 model compressors are equipped with crankcase heaters and are furnished as standard with the unit.

**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.

**Refrigerant Line Kits (Optional)** — Lines are available in several lengths and must be ordered extra. See Refrigerant Line Kit table. The refrigerant lines (suction and liquid) are shipped refrigeration clean. Lines are cleaned, dried and pressurized at the factory and sealed. Suction line is fully insulated. Lines are furnished with a flare fitting (evaporator unit connection) on one end and less any fitting (stubbed) on the opposite end for connection to the condensing unit.

**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. HS18-141-211-261-311-410-460 models use the MB1-22 base (99C78) 22-1/4" x 22-1/4" x 3" shipping weight 10 lbs. HS18-510-650 models use the MB1-32 base (83C83) 32" x 34" x 3" shipping weight 15 lbs.

## ARI RATINGS

Condensing Unit Model No. ★ ARI Standard 270 SRN (bels)	*ARI Standard 210/240 Ratings				Lennox Evaporator Unit		
	SEER (Btuh/ Watt)	EER (Btuh/ Watt)	Cooling Capacity (Btuh)	Total Unit Watts	Up-Flo	Down-Flo	Horizontal
HS18-141 (7.6)	8.50	----	12,000	1500	C16-18FF	----	----
	8.90	----	12,800	1525	C16-21FF	CR16-21FF	CH16-21FF
	9.05	----	13,100	1540	**CB18-21	----	**CBS18-21
HS18-211 (8.0)	8.05	----	17,000	2125	C16-18FF	----	----
	8.65	----	18,500	2175	C16-21FF	CR16-21FF	CH16-21FF
	9.20	----	19,300	2145	**CB18-21	----	**CBS18-21
HS18-261 (8.0)	8.50	----	22,400	2710	C16-21FF	CR16-21FF	CH16-21FF
	8.90	----	22,800	2690	**CB18-21	----	**CBS18-21
HS18-311 (8.0)	8.80	----	29,200	3475	C16-28FF, C16-28WFF, C16-31FF, C16-31WFF	CR16-31FF	CH16-31FF
	9.25	----	30,400	3470	**CB18-31	----	**CBS18-31
HS18-411 HS18-413 (7.8)	8.40	8.05	32,200	4001	----	CR16-31FF	----
	8.55	8.15	33,000	4040	----	----	CH16-31FF,
	8.35	8.10	33,200	4096	C16-28FF, C16-28WFF, C16-31FF, C16-31WFF	----	----
	8.50	8.25	34,200	4145	**CB18-31	----	**CBS18-31
HS18-461 HS18-463 (8.4)	8.50	8.30	40,000	4819	----	CR16-41FF	----
	8.60	8.40	40,000	4762	C16-41FF, C16-41WFF	----	----
	8.70	8.45	40,500	4793	----	----	CH16-41FF
	8.45	8.25	40,800	4916	**CB18-41	----	**CBS18-41
HS18-511 HS18-513 (7.8)	8.85	8.50	46,500	5506	C16-46FF, C16-46WFF	----	----
	8.80	8.20	47,000	5717	**CB18-51	----	**CBS18-51
	9.20	8.65	47,500	5485	----	----	CH16-51FF
	8.85	8.40	47,500	5653	----	CR16-51FF	----
HS18-651 HS18-653 (8.2)	8.75	8.40	55,500	6610	----	----	CH16-51FF
	8.50	8.10	56,500	6975	----	CR16-51FF	----
	8.60	8.30	57,500	6930	C16-51FF	----	----
	8.40	8.05	59,000	7330	**CB18-65	----	**CBS18-65

★ Sound Rating Number in accordance with ARI Standard 270.

\*Rated in accordance with ARI Standard 210/240 and DOE; 95°F outdoor air temperature, 80°F db/67°F wb entering evaporator air with 25 ft. of connecting refrigerant lines.

\*\*Denotes blower powered evaporator.

## SPECIFICATIONS

Model No.			HS18-141	HS18-211	HS18-261	HS18-311	HS18-411 HS18-413	HS18-461 HS18-463	HS18-511 HS18-513	HS18-651 HS18-653
Condenser Coil	Net face	Outer coil	8.4	8.4	8.4	9.2	9.2	9.2	18.2	18.2
	area (sq. ft.)	Inner coil	----	----	----	----	3.4	6.0	----	6.4
	No. of rows		1	1	1	1	1.4	1.7	1	1.4
	Tube diameter (in.)		3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8
	Fins per inch		16	16	16	20	18	20	20	20
Condenser Fan	Diameter (in.)		18	18	18	18	18	18	22	22
	No. of blades		4	4	4	4	4	4	4	4
	Motor hp		1/6	1/6	1/6	1/6	1/6	1/6	1/3	1/3
	Cfm		1900	2600	2600	2500	2500	2400	3900	3800
	Rpm		1140	1060	1060	1050	1050	1050	1075	1060
	Watts		135	250	250	260	260	265	400	420
*Refrigerant — 22 charge furnished			2 lbs. 15 oz.	4 lbs. 0 oz.	4 lbs. 4 oz.	4 lbs. 1 oz.	5 lbs. 0 oz.	5 lbs. 13 oz.	8 lbs. 2 oz.	9 lbs. 7 oz.
Liquid line (o.d. in.) conn. (sweat)			3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8
Suction line (o.d. in.) conn. (sweat)			5/8	5/8	5/8	3/4	3/4	7/8	7/8	1-1/8
Shipping weight (lbs.) — 1 package			113	141	138	145	167	187	215	245

\*Refrigerant charge sufficient for 10 ft. length of refrigerant lines.

## ELECTRICAL DATA

Model No.		HS18-141	HS18-211	HS18-261	HS18-311	HS18-411	HS18-413	
Line voltage data		208/230v	208/230v	208/230v	208/230v	208/230v	†208/230v	†460v
		60hz — 1ph	60hz — 1ph	60hz — 1ph	60hz — 1ph	60hz — 1ph	60hz — 3ph	60hz — 3ph
Compressor	Rated load amps	5.8	9.2	11.0	14.8	16.8	10.5	5.1
	Power factor	.94	.98	.98	.97	.98	.88	.88
	Locked rotor amps	31.0	48.0	59.0	70.0	87.0	70.0	33.0
Condenser Coil Fan Motor	Full load amps	1.2	1.2	1.2	1.2	1.2	1.2	.8
	Locked rotor amps	2.2	2.2	2.2	2.2	2.2	2.2	1.3
Recommended max. fuse or circuit breaker size (amps)		15	20	20	30	40	25	15
*Minimum circuit ampacity		8.5	12.7	15.0	19.7	23.2	15.6	7.6

\*Refer to National Electrical Code manual to determine wire, fuse and disconnect size requirements.

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

†Extremes of operating range are plus and minus 10% of line voltage.

## ELECTRICAL DATA

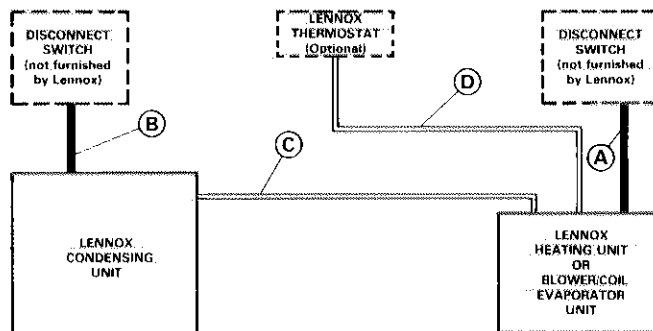
Model No.		HS18-461	HS18-463	HS18-511	HS18-513		HS18-651	HS18-653	
Line voltage data		208/230v	†208/230v	208/230v	†208/230v	†460v	208/230v	†208/230v	†460v
		60hz — 1ph	60hz — 3ph	60hz — 1ph	60hz — 3ph	60hz — 3ph	60hz — 1ph	60hz — 3ph	60hz — 3ph
Compressor	Rated load amps	20.3	13.3	23.7	14.7	7.0	30.8	19.3	8.7
	Power factor	.98	.88	.98	.88	.88	.94	.88	.88
	Locked rotor amps	107.0	74.0	116.0	92.0	46.0	142.0	130.0	65.0
Condenser Coil Fan Motor	Full load amps	1.2	1.2	2.0	2.0	1.1	2.0	2.0	1.1
	Locked rotor amps	2.2	2.2	4.5	4.5	2.3	4.5	4.5	2.3
Rec. max. fuse or circuit breaker size (amps)		45	30	50	35	15	60	45	20
*Minimum circuit ampacity		26.6	18.0	31.8	20.5	10.1	40.5	26.2	12.0

\*Refer to National Electrical Code manual to determine wire, fuse and disconnect size requirements.

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

†Extremes of operating range are plus and minus 10% of line voltage.

## FIELD WIRING



A — Two wire power (not furnished)

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 NEC and local electrical codes.

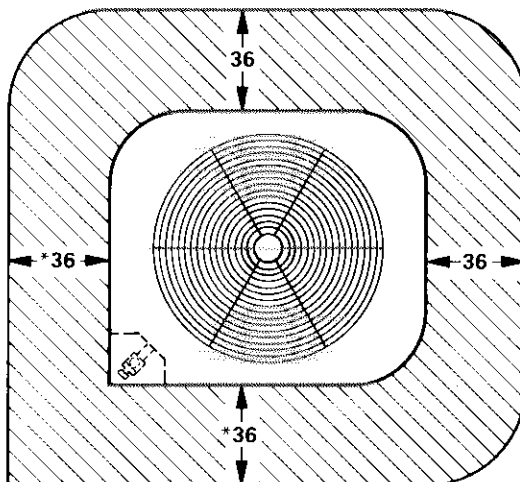
## REFRIGERANT LINE KITS

Condensing Unit Model No.	Line Set Model No.	Length of Suct. & Liq. Lines (ft.)	Liquid Line (o.d. in.)	Suction Line (o.d. in.)
HS18-141	L10-26-20	20	3/8	5/8
HS18-211	L10-26-25	25	3/8	5/8
HS18-261	L10-26-35	35	3/8	5/8
	L10-26-50	50	3/8	5/8
HS18-311	L10-41-20	20	3/8	3/4
HS18-410	L10-41-30	30		
	L10-41-40	40		
	L10-41-50	50	3/8	7/8
HS18-460	L10-65-30	30		
HS18-510	L10-65-40	40		
	L10-65-50	50	3/8	1-1/8
HS18-650	*Not Available	---		

NOTE Specify correct line kit model number when ordering.

\*Field fabricate.

## INSTALLATION CLEARANCES (inches)

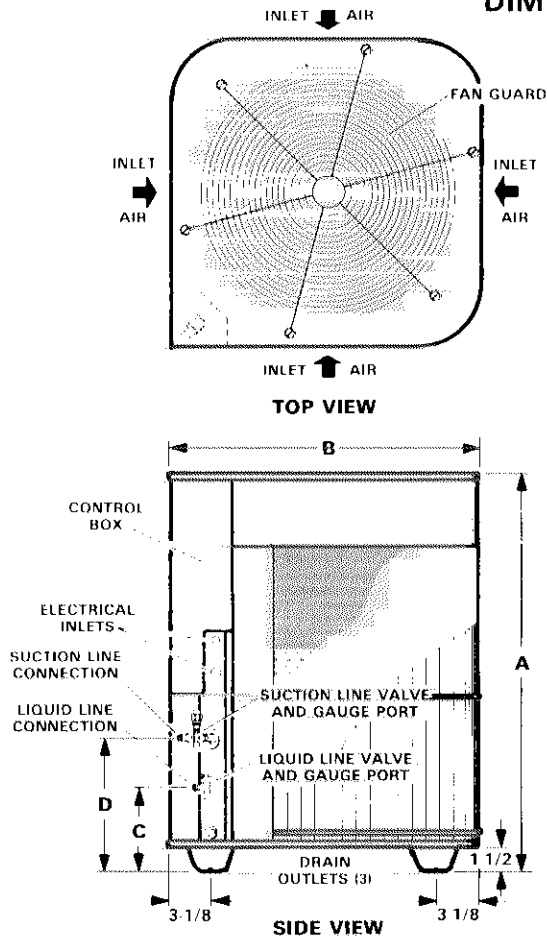


NOTE — 48 inch clearance required on top of unit.

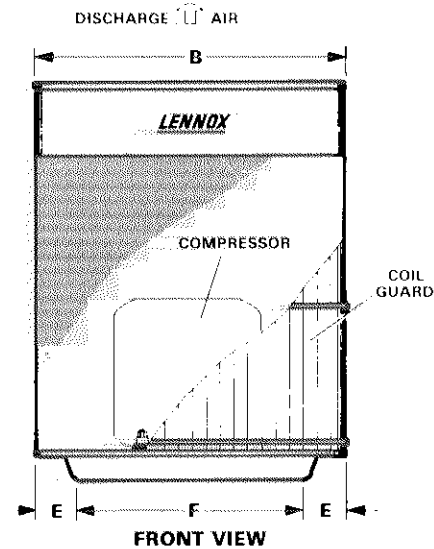
\* NOTE — One side must be 36 inches for service.

Two of the remaining sides may be 12 inches.

## DIMENSIONS (inches)



Model No.	A	B	C	D	E	F
HS18-141	26-3/4	22-1/4	3-5/8	6-7/8	3-5/8	15
HS18-211 HS18-261						
HS18-311	28-3/4	22-1/4	6	9-1/2	3-5/8	15
HS18-410 HS18-460						
HS18-510 HS18-650	33-9/16	28-13/16	4-13/16	9-5/16	4-3/4	19-5/16



## RATINGS

NOTE To determine sensible capacity, leaving wet bulb and dry bulb temperatures not shown in the tables, see Miscellaneous Engineering Data, page 9.

### HS18-141 WITH C16-18FF EVAPORATOR UNIT

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Condenser Coil (°F)																							
		85						95						105						115					
		Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)						
				Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)						
				76	80	84			76	80	84			76	80	84			76	80	84	76	80	84	
63	350	11,600	1070	.79	.90	1.00	11,400	1160	.80	.93	1.00	10,800	1240	.83	.96	1.00	10,200	1310	.85	.99	1.00				
	450	12,100	1090	.85	.98	1.00	11,900	1180	.88	1.00	1.00	11,400	1270	.91	1.00	1.00	10,800	1340	.94	1.00	1.00				
	550	12,800	1100	.93	1.00	1.00	12,600	1200	.95	1.00	1.00	12,000	1280	.99	1.00	1.00	11,400	1360	1.00	1.00	1.00				
67	350	12,500	1090	.61	.73	.84	12,200	1190	.62	.74	.86	11,600	1270	.64	.76	.89	10,900	1340	.65	.79	.92				
	450	13,000	1100	.66	.79	.93	12,700	1200	.67	.82	.95	12,000	1280	.69	.84	.99	11,300	1360	.71	.87	1.00				
	550	13,300	1110	.70	.86	1.00	13,000	1210	.72	.89	1.00	12,300	1290	.74	.92	1.00	11,600	1370	.77	.95	1.00				
71	350	13,500	1120	.46	.56	.67	13,200	1220	.46	.57	.69	12,500	1300	.47	.59	.71	11,700	1370	.47	.60	.73				
	450	13,900	1130	.48	.61	.74	13,600	1230	.48	.62	.76	12,800	1310	.49	.64	.78	12,100	1390	.50	.66	.81				
	550	14,200	1130	.50	.65	.80	13,900	1230	.51	.67	.82	13,100	1320	.52	.69	.85	12,300	1390	.53	.71	.89				

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

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

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Condenser Coil (°F)																							
		85						95						105						115					
		Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)						
				Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)						
				76	80	84			76	80	84			76	80	84			76	80	84				
63	350	12,300	1090	.78	.89	1.00	12,000	1180	.79	.92	1.00	11,400	1260	.82	.95	1.00	10,700	1330	.84	.98	1.00				
	450	13,000	1100	.85	.99	1.00	12,700	1200	.87	1.00	1.00	12,100	1290	.90	1.00	1.00	11,500	1360	.93	1.00	1.00				
	550	13,600	1120	.92	1.00	1.00	13,400	1220	.95	1.00	1.00	12,700	1310	.98	1.00	1.00	12,000	1380	1.00	1.00	1.00				
67	350	13,300	1110	.60	.72	.83	13,000	1210	.62	.73	.85	12,200	1290	.63	.75	.88	11,500	1360	.65	.78	.91				
	450	13,800	1120	.65	.79	.92	13,500	1220	.67	.81	.94	12,700	1310	.68	.83	.98	11,900	1380	.71	.87	1.00				
	550	14,200	1130	.70	.85	1.00	13,800	1230	.72	.88	1.00	13,000	1320	.74	.91	1.00	12,200	1390	.77	.95	1.00				
71	350	14,300	1140	.45	.56	.66	14,000	1240	.46	.57	.68	13,200	1320	.47	.58	.70	12,400	1400	.47	.60	.72				
	450	14,800	1150	.47	.60	.73	14,400	1250	.48	.62	.75	13,600	1330	.49	.63	.77	12,700	1410	.50	.65	.80				
	550	15,100	1160	.50	.65	.79	14,800	1260	.51	.66	.82	13,900	1340	.52	.68	.85	13,000	1420	.53	.71	.88				

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

# RATINGS

NOTE - To determine sensible capacity, leaving wet bulb and dry bulb temperatures not shown in the tables, see Miscellaneous Engineering Data, page 9.

## HS18-141 WITH CB18-21 OR CBS18-21 EVAPORATOR UNIT

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Condenser Coil (°F)																			
		85						95				105				115					
		Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)		
				Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)		
				76	80	84			76	80	84			76	80	84			76	80	84
63	350	12,600	1100	.77	.88	.99	12,300	1190	.79	.91	1.00	11,600	1270	.81	.94	1.00	10,900	1340	.83	.97	1.00
	450	13,300	1110	.84	.97	1.00	12,900	1210	.86	1.00	1.00	12,300	1290	.89	1.00	1.00	11,700	1370	.92	1.00	1.00
	550	14,000	1130	.91	1.00	1.00	13,700	1230	.94	1.00	1.00	13,000	1320	.97	1.00	1.00	12,300	1390	1.00	1.00	1.00
67	350	13,700	1120	.60	.71	.82	13,300	1220	.61	.73	.84	12,500	1300	.62	.75	.87	11,700	1370	.64	.77	.90
	450	14,200	1130	.64	.77	.90	13,800	1230	.66	.80	.93	13,000	1320	.68	.82	.97	12,200	1390	.70	.85	1.00
	550	14,600	1140	.69	.84	.99	14,200	1240	.71	.87	1.00	13,400	1330	.73	.90	1.00	12,500	1400	.76	.94	1.00
71	350	14,700	1150	.45	.55	.65	14,400	1250	.46	.56	.67	13,500	1330	.46	.58	.69	12,700	1410	.47	.59	.71
	450	15,200	1160	.47	.59	.72	14,900	1260	.48	.61	.74	14,000	1350	.49	.63	.76	13,100	1420	.50	.64	.79
	550	15,600	1170	.49	.64	.78	15,200	1270	.50	.65	.81	14,300	1350	.51	.67	.84	13,300	1430	.52	.70	.87

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

## HS18-211 WITH C16-18FF EVAPORATOR UNIT

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Condenser Coil (°F)																							
		85						95						105						115					
		Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)						
				Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)						
				76	80	84			76	80	84			76	80	84			76	80	84	76	80	84	
63	550	16,800	1490	.79	.92	1.00	16,500	1610	.81	.94	1.00	15,600	1710	.84	.97	1.00	14,600	1800	.86	1.00	1.00				
	650	17,300	1490	.84	.97	1.00	16,900	1620	.86	1.00	1.00	16,100	1730	.89	1.00	1.00	15,200	1840	.92	1.00	1.00				
	750	17,800	1500	.88	1.00	1.00	17,500	1640	.91	1.00	1.00	16,600	1750	.94	1.00	1.00	15,700	1860	.98	1.00	1.00				
67	550	17,800	1510	.62	.74	.85	17,500	1640	.63	.75	.87	16,500	1750	.64	.78	.90	15,500	1850	.66	.80	.93				
	650	18,200	1520	.65	.78	.91	17,900	1650	.66	.80	.93	16,900	1760	.68	.83	.97	15,800	1870	.70	.86	1.00				
	750	18,600	1520	.68	.82	.96	18,200	1660	.69	.85	.99	17,200	1770	.71	.88	1.00	16,100	1880	.74	.91	1.00				
71	550	19,100	1530	.46	.57	.68	18,700	1680	.47	.58	.70	17,700	1800	.47	.60	.72	16,600	1900	.48	.61	.74				
	650	19,500	1540	.47	.60	.72	19,100	1690	.48	.61	.74	18,000	1810	.49	.63	.77	16,900	1920	.50	.65	.80				
	750	19,800	1550	.49	.63	.77	19,300	1690	.49	.64	.79	18,200	1820	.50	.66	.81	17,100	1930	.52	.68	.85				

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

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

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Condenser Coil (°F)																							
		85						95						105						115					
		Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)						
				Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)						
				76	80	84			76	80	84			76	80	84			76	80	84	76	80	84	
63	550	18,100	1510	.78	.90	1.00	17,800	1650	.80	.93	1.00	16,800	1760	.83	.96	1.00	15,700	1860	.85	.99	1.00				
	650	18,700	1520	.83	.96	1.00	18,300	1660	.85	.99	1.00	17,300	1780	.88	1.00	1.00	16,300	1890	.91	1.00	1.00				
	750	19,200	1530	.87	1.00	1.00	18,900	1680	.90	1.00	1.00	17,900	1800	.93	1.00	1.00	16,900	1920	.97	1.00	1.00				
67	550	19,400	1540	.61	.73	.84	18,900	1680	.62	.74	.86	17,800	1800	.64	.77	.89	16,700	1910	.66	.79	.93				
	650	19,900	1550	.64	.77	.90	19,300	1690	.65	.79	.92	18,200	1820	.67	.82	.96	17,000	1930	.69	.85	.99				
	750	20,200	1550	.67	.81	.95	19,700	1700	.69	.84	.98	18,500	1830	.71	.87	1.00	17,300	1940	.73	.90	1.00				
71	550	20,800	1570	.46	.57	.67	20,200	1720	.46	.58	.69	19,000	1850	.47	.59	.71	17,800	1960	.48	.61	.74				
	650	21,100	1580	.47	.59	.72	20,700	1730	.48	.61	.74	19,400	1860	.49	.62	.76	18,100	1980	.50	.64	.79				
	750	21,500	1580	.48	.62	.76	20,900	1740	.49	.64	.78	19,600	1870	.50	.66	.81	18,300	1990	.51	.68	.84				

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

## HS18-211 WITH CB18-21 OR CBS18-21 EVAPORATOR UNIT

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Condenser Coil (°F)																							
		85						95						105						115					
		Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)						
				Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)						
				76	80	84			76	80	84			76	80	84			76	80	84	76	80	84	
63	550	18,800	1530	.77	.89	1.00	18,300	1670	.79	.91	1.00	17,300	1780	.81	.94	1.00	16,200	1880	.84	.98	1.00				
	650	19,400	1540	.81	.94	1.00	18,900	1680	.84	.97	1.00	17,800	1800	.87	1.00	1.00	16,800	1910	.90	1.00	1.00				
	750	19,800	1550	.86	1.00	1.00	19,400	1700	.88	1.00	1.00	18,400	1820	.92	1.00	1.00	17,300	1940	.95	1.00	1.00				
67	550	20,200	1550	.60	.71	.82	19,600	1700	.62	.73	.85	18,400	1820	.63	.75	.88	17,200	1930	.65	.78	.91				
	650	20,700	1560	.63	.76	.88	20,100	1720	.64	.78	.91	18,800	1840	.66	.80	.94	17,600	1950	.68	.84	.98				
	750	21,000	1570	.66	.80	.93	20,400	1730	.68	.82	.96	19,200	1850	.70	.85	1.00	17,900	1970	.72	.89	1.00				
71	550	21,600	1590	.45	.56	.66	21,000	1740	.46	.57	.68	19,700	1870	.47	.58	.70	18,400	1990	.47	.60	.72				
	650	22,100	1600	.47	.58	.70	21,500	1760	.47	.60	.72	20,100	1890	.48	.61	.75	18,700	2010	.49	.63	.78				
	750	22,400	1600	.48	.61	.74	21,800	1770	.49	.63	.77	20,400	1900	.50	.65	.79	19,000	2020	.51	.67	.83				

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



# RATINGS

NOTE To determine sensible capacity, leaving wet bulb and dry bulb temperatures not shown in the tables, see Miscellaneous Engineering Data, page 9.

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

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Condenser Coil (°F)																							
		85						95						105						115					
		Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)						
				Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)						
				76	80	84			76	80	84			76	80	84			76	80	84	76	80	84	
63	700	22,400	1960	.76	.89	.99	21,300	2070	.77	.92	1.00	20,200	2200	.79	.94	1.00	19,100	2370	.81	.96	1.00				
	800	23,000	1980	.78	.93	1.00	22,000	2090	.80	.95	1.00	20,900	2240	.82	.97	1.00	19,700	2410	.85	.99	1.00				
	900	23,600	2000	.81	.95	1.00	22,500	2120	.83	.97	1.00	21,400	2270	.85	.99	1.00	20,200	2440	.88	1.00	1.00				
67	700	23,600	2000	.60	.73	.86	22,500	2120	.61	.75	.88	21,400	2270	.62	.77	.90	20,200	2440	.63	.79	.93				
	800	24,300	2030	.61	.76	.89	23,200	2150	.62	.77	.92	22,000	2300	.64	.80	.94	20,800	2480	.65	.82	.96				
	900	24,900	2060	.63	.78	.92	23,700	2180	.64	.80	.94	22,500	2330	.66	.82	.97	21,200	2510	.67	.85	.99				
71	700	24,700	2050	.45	.58	.71	23,600	2170	.45	.59	.72	22,500	2330	.46	.60	.74	21,300	2520	.46	.62	.76				
	800	25,500	2080	.46	.60	.73	24,300	2210	.46	.61	.75	23,100	2370	.47	.62	.77	21,800	2560	.47	.64	.79				
	900	26,100	2100	.46	.62	.76	24,900	2240	.47	.63	.78	23,600	2400	.48	.64	.80	22,300	2590	.48	.66	.82				

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

## HS18-261 WITH CB18-21 OR CBS18-21 EVAPORATOR UNIT

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Condenser Coil (°F)																							
		85						95						105						115					
		Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)						
				Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)						
				76	80	84			76	80	84			76	80	84			76	80	84	76	80	84	
63	700	22,400	1960	.75	.88	.99	21,300	2070	.76	.90	1.00	20,200	2200	.78	.93	1.00	19,000	2360	.80	.95	1.00				
	800	23,100	1980	.77	.92	1.00	22,000	2100	.79	.94	1.00	20,800	2240	.81	.96	1.00	19,700	2410	.83	.98	1.00				
	900	23,700	2010	.80	.95	1.00	22,600	2130	.82	.97	1.00	21,400	2270	.84	.99	1.00	20,300	2440	.86	1.00	1.00				
67	700	23,700	2010	.59	.72	.84	22,600	2130	.60	.74	.86	21,500	2270	.61	.75	.89	20,300	2450	.62	.77	.92				
	800	24,500	2040	.61	.75	.88	23,300	2160	.62	.76	.90	22,100	2310	.63	.78	.93	20,800	2490	.64	.81	.95				
	900	25,100	2070	.62	.77	.91	23,900	2190	.63	.79	.94	22,600	2340	.65	.81	.96	21,300	2520	.66	.84	.98				
71	700	25,000	2060	.45	.57	.69	23,800	2180	.45	.58	.71	22,600	2340	.45	.59	.73	21,400	2530	.46	.61	.75				
	800	25,800	2090	.45	.59	.72	24,600	2220	.46	.60	.74	23,300	2380	.46	.61	.76	22,000	2580	.47	.63	.78				
	900	26,500	2120	.46	.61	.75	25,200	2250	.47	.62	.76	23,900	2420	.47	.63	.79	22,600	2610	.48	.65	.81				

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

## HS18-311 WITH C16-28FF, C16-28WFF, C16-31FF, C16-31WFF, CR16-31FF OR CH16-31FF EVAPORATOR UNIT

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Condenser Coil (°F)																			
		85						95				105				115					
		Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)		
				Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)		
				76	80	84			76	80	84			76	80	84			76	80	84
63	900	28,800	2520	.79	.91	1.00	28,300	2760	.81	.94	1.00	26,800	2970	.83	.96	1.00	25,000	3150	.86	.90	1.00
	1050	29,700	2560	.83	.97	1.00	29,200	2800	.86	.99	1.00	27,600	3010	.88	1.00	1.00	26,200	3210	.91	1.00	1.00
	1200	30,400	2580	.88	1.00	1.00	29,900	2840	.90	1.00	1.00	28,500	3060	.93	1.00	1.00	27,000	3250	.96	1.00	1.00
67	900	30,800	2600	.62	.73	.85	30,100	2850	.63	.75	.87	28,500	3060	.64	.77	.90	26,800	3240	.66	.80	.93
	1050	31,400	2620	.64	.77	.90	30,800	2870	.66	.79	.93	29,100	3080	.67	.82	.96	27,300	3270	.69	.85	.99
	1200	32,000	2640	.67	.81	.95	31,300	2890	.69	.84	.98	29,500	3110	.71	.87	1.00	27,700	3300	.73	.90	1.00
71	900	33,000	2680	.46	.57	.68	32,300	2940	.46	.58	.70	30,500	3150	.47	.59	.72	28,700	3350	.48	.61	.74
	1050	33,600	2700	.47	.60	.72	32,800	2960	.48	.61	.74	31,000	3180	.49	.62	.76	29,100	3370	.50	.64	.79
	1200	34,100	2720	.48	.62	.76	33,300	2980	.49	.64	.78	31,400	3200	.50	.65	.81	29,500	3390	.51	.67	.84

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

## HS18-311 WITH CB18-31 OR CBS18-31 EVAPORATOR UNIT

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Condenser Coil (°F)																							
		85						95						105						115					
		Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)						
				Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)						
				76	80	84			76	80	84			76	80	84			76	80	84				
63	900	29,700	2560	.79	.91	1.00	29,000	2800	.81	.93	1.00	27,500	3000	.83	.96	1.00	26,100	3190	.86	.99	1.00				
	1050	30,500	2590	.83	.97	1.00	30,000	2830	.85	.99	1.00	28,300	3050	.88	1.00	1.00	26,900	3250	.91	1.00	1.00				
	1200	31,200	2620	.87	1.00	1.00	30,700	2870	.90	1.00	1.00	29,300	3090	.93	1.00	1.00	27,700	3300	.96	1.00	1.00				
67	900	31,700	2630	.61	.73	.84	31,000	2880	.63	.75	.87	29,200	3090	.64	.77	.90	27,500	3280	.66	.79	.93				
	1050	32,400	2660	.64	.77	.90	31,600	2910	.66	.79	.93	29,800	3120	.67	.82	.96	28,000	3310	.69	.85	.99				
	1200	32,900	2680	.67	.81	.95	32,200	2930	.69	.84	.98	30,300	3150	.71	.87	1.00	28,500	3340	.73	.90	1.00				
71	900	33,900	2720	.46	.57	.68	33,200	2980	.46	.58	.69	31,300	3190	.47	.59	.71	29,400	3390	.48	.61	.74				
	1050	34,600	2740	.47	.59	.72	33,800	3000	.48	.61	.74	31,800	3220	.49	.62	.76	29,900	3420	.50	.64	.79				
	1200	35,100	2760	.48	.62	.76	34,300	3020	.49	.64	.78	32,300	3240	.50	.65	.81	30,200	3440	.51	.68	.84				

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



## RATINGS

*NOTE To determine sensible capacity, leaving wet bulb and dry bulb temperatures not shown in the tables, see Miscellaneous Engineering Data, page 9.*

### HS18-411-413 WITH CR16-31FF EVAPORATOR UNIT

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Condenser Coil (°F)													
		85			95			105			115				
		Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)	Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)	Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)	Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)	Total Cool Cap. (Btuh)	Comp. Motor Watts Input
				Dry Bulb (°F)			Dry Bulb (°F)			Dry Bulb (°F)			Dry Bulb (°F)		
				76 80 84			76 80 84			76 80 84			76 80 84		
63	1000	31,800	3050	.76 .87 .97	31,500	3290	.77 .89 1.00	29,600	3550	.80 .92 1.00	27,600	3860	.83 .96 1.00		
	1250	33,100	3100	.81 .94 1.00	32,800	3350	.83 .97 1.00	30,600	3610	.86 1.00 1.00	28,800	3960	.89 1.00 1.00		
	1500	33,900	3140	.86 1.00 1.00	33,600	3400	.89 1.00 1.00	31,900	3700	.92 1.00 1.00	30,000	4060	.96 1.00 1.00		
67	1000	34,200	3150	.59 .70 .81	33,700	3400	.61 .72 .83	31,600	3680	.62 .74 .86	29,400	4010	.64 .79 .89		
	1250	35,200	3190	.63 .75 .87	34,700	3450	.64 .77 .90	32,500	3740	.66 .80 .93	30,200	4080	.68 .83 .97		
	1500	36,000	3220	.66 .80 .93	35,500	3490	.68 .82 .97	33,200	3780	.70 .86 1.00	30,800	4140	.72 .89 1.00		
71	1000	36,600	3240	.45 .55 .65	36,100	3520	.46 .56 .67	33,800	3830	.46 .57 .69	31,500	4190	.47 .59 .71		
	1250	37,600	3280	.46 .58 .70	37,100	3590	.47 .59 .72	34,700	3890	.48 .61 .74	32,200	4260	.49 .63 .77		
	1500	38,400	3310	.48 .61 .74	37,800	3600	.49 .63 .77	35,300	3930	.50 .65 .80	32,700	4310	.51 .67 .83		

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

### HS18-411-413 WITH CH16-31FF EVAPORATOR UNIT

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Condenser Coil (°F)													
		85			95			105			115				
		Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)	Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)	Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)	Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)	Total Cool Cap. (Btuh)	Comp. Motor Watts Input
				Dry Bulb (°F)			Dry Bulb (°F)			Dry Bulb (°F)			Dry Bulb (°F)		
				76 80 84			76 80 84			76 80 84			76 80 84		
63	1000	32,700	3090	.77 .88 .99	32,300	3330	.79 .91 1.00	30,300	3600	.81 .94 1.00	28,300	3920	.84 .97 1.00		
	1250	34,000	3140	.82 .95 1.00	33,600	3390	.85 .98 1.00	31,500	3670	.88 1.00 1.00	29,600	4030	.91 1.00 1.00		
	1500	35,000	3180	.88 1.00 1.00	34,800	3450	.91 1.00 1.00	32,800	3760	.94 1.00 1.00	30,800	4140	.98 1.00 1.00		
67	1000	34,900	3180	.60 .71 .82	34,500	3440	.61 .73 .84	32,300	3730	.63 .75 .87	30,000	4060	.65 .78 .91		
	1250	35,900	3220	.69 .71 .89	35,300	3490	.65 .79 .92	33,100	3790	.67 .82 .95	30,700	4150	.69 .85 .98		
	1500	36,800	3250	.67 .82 .96	36,200	3520	.69 .85 .99	33,900	3830	.71 .88 1.00	31,400	4190	.94 .92 1.00		
71	1000	37,400	3270	.45 .56 .66	36,900	3560	.46 .57 .67	34,500	3870	.46 .58 .70	32,100	4250	.47 .60 .72		
	1250	38,400	3220	.47 .59 .71	37,800	3610	.48 .60 .73	35,400	3930	.48 .62 .76	32,800	4310	.50 .64 .79		
	1500	39,200	3340	.49 .62 .76	38,500	3640	.49 .64 .79	35,900	3970	.51 .66 .82	33,300	4350	.52 .69 .86		

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

### HS18-411-413 WITH C16-28FF, C16-28WFF, C16-31FF OR C16-31WFF EVAPORATOR UNIT

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Condenser Coil (°F)													
		85			95			105			115				
		Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)	Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)	Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)	Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)	Total Cool Cap. (Btuh)	Comp. Motor Watts Input
				Dry Bulb (°F)			Dry Bulb (°F)			Dry Bulb (°F)			Dry Bulb (°F)		
				76 80 84			76 80 84			76 80 84			76 80 84		
63	1000	32,900	3030	.78 .89 1.00	32,200	3300	.78 .90 1.00	30,300	3510	.81 .93 1.00	28,400	3680	.83 .97 1.00		
	1200	34,100	3070	.82 .96 1.00	33,300	3350	.83 .97 1.00	31,200	3560	.86 1.00 1.00	29,400	3750	.89 1.00 1.00		
	1400	34,900	3110	.87 1.00 1.00	34,200	3400	.88 1.00 1.00	32,400	3620	.91 1.00 1.00	30,500	3820	.95 1.00 1.00		
67	1000	35,200	3120	.61 .72 .83	34,400	3410	.61 .73 .84	32,300	3620	.63 .75 .87	30,200	3790	.64 .77 .90		
	1200	36,200	3160	.64 .76 .89	35,200	3450	.64 .77 .90	33,100	3660	.66 .80 .93	30,900	3840	.68 .83 .97		
	1400	36,900	3190	.67 .81 .95	36,000	3490	.67 .81 .95	33,900	3700	.69 .85 .99	31,500	3890	.72 .89 1.00		
71	1000	37,800	3220	.45 .56 .67	36,800	3520	.46 .57 .67	34,600	3740	.46 .58 .69	32,300	3930	.47 .59 .72		
	1200	38,700	3260	.47 .59 .70	37,600	3560	.47 .60 .72	35,300	3780	.48 .61 .74	32,900	3970	.49 .63 .77		
	1400	39,400	3280	.48 .62 .74	38,200	3590	.49 .63 .76	35,800	3810	.50 .64 .79	33,400	4000	.51 .67 .82		

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

### HS18-411-413 WITH CB18-31 OR CBS18-31 EVAPORATOR UNIT

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Condenser Coil (°F)													
		85			95			105			115				
		Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)	Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)	Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)	Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)	Total Cool Cap. (Btuh)	Comp. Motor Watts Input
				Dry Bulb (°F)			Dry Bulb (°F)			Dry Bulb (°F)			Dry Bulb (°F)		
				76 80 84			76 80 84			76 80 84			76 80 84		
63	1000	33,500	3070	.76 .88 .99	32,600	3330	.78 .90 1.00	30,500	3600	.81 .94 1.00	28,400	3930	.84 .97 1.00		
	1200	34,600	3120	.81 .94 1.00	33,700	3380	.84 .97 1.00	31,500	3660	.87 1.00 1.00	29,500	4030	.90 1.00 1.00		
	1400	35,300	3150	.86 1.00 1.00	34,600	3430	.89 1.00 1.00	32,700	3750	.92 1.00 1.00	30,600	4120	.96 1.00 1.00		
67	1000	35,800	3160	.60 .71 .82	34,800	3440	.61 .73 .84	32,500	3740	.63 .75 .87	30,200	4080	.65 .78 .91		
	1200	36,800	3200	.63 .75 .87	35,700	3480	.64 .78 .90	33,300	3790	.66 .80 .94	30,900	4140	.69 .84 .98		
	1400	37,400	3230	.66 .80 .93	36,300	3520	.68 .83 .97	33,900	3830	.70 .86 1.00	31,400	4190	.73 .90 1.00		
71	1000	38,300	3260	.45 .55 .66	37,200	3560	.46 .57 .67	34,800	3890	.46 .58 .70	32,200	4260	.47 .60 .72		
	1200	39,200	3300	.47 .58 .70	38,000	3610	.47 .60 .72	35,500	3930	.48 .62 .75	32,800	4320	.49 .64 .78		
	1400	39,900	3330	.48 .61 .74	38,600	3640	.49 .63 .77	36,000	3970	.50 .65 .80	33,300	4360	.51 .68 .84		

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

## RATINGS

NOTE — To determine sensible capacity, leaving wet bulb and dry bulb temperatures not shown in the tables, see Miscellaneous Engineering Data, page 9.

### HS18-461-463 WITH CH16-41FF EVAPORATOR UNIT

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Condenser Coil (°F)														
		85			95			105			115					
		Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)	Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)	Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)	Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)	Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)
63	1200	39,900	3670	.73 .83 .94	39,000	3960	.74 .86 .96	36,800	4260	.76 .88 .99	34,600	4620	.78 .91 1.00	34,600	4620	.78 .91 1.00
	1500	41,900	3760	.77 .90 .99	41,000	4060	.79 .92 1.00	38,700	4370	.82 .95 1.00	36,200	4750	.85 .98 1.00	36,200	4750	.85 .98 1.00
	1800	43,400	3820	.82 .95 1.00	42,400	4130	.84 .98 1.00	40,000	4460	.88 .99 1.00	37,600	4860	.91 1.00 1.00	37,600	4860	.91 1.00 1.00
67	1200	42,400	3780	.58 .67 .77	41,500	4080	.59 .69 .79	39,300	4410	.60 .70 .81	36,800	4800	.61 .72 .84	36,800	4800	.61 .72 .84
	1500	44,400	3860	.61 .71 .83	43,400	4180	.62 .73 .86	40,900	4520	.63 .75 .89	38,300	4930	.65 .78 .92	38,300	4930	.65 .78 .92
	1800	45,900	3920	.63 .76 .89	44,800	4250	.65 .78 .91	42,200	4600	.66 .81 .94	39,300	5030	.68 .84 .97	39,300	5030	.68 .84 .97
71	1200	44,700	3880	.45 .54 .63	43,900	4200	.45 .55 .64	41,500	4560	.46 .56 .66	39,000	4990	.46 .57 .67	39,000	4990	.46 .57 .67
	1500	46,900	3960	.46 .56 .67	45,900	4310	.47 .58 .68	43,400	4680	.47 .59 .70	40,600	5130	.48 .60 .72	40,600	5130	.48 .60 .72
	1800	48,400	4030	.47 .59 .70	47,400	4390	.48 .60 .72	44,600	4770	.49 .62 .74	41,700	5230	.50 .64 .77	41,700	5230	.50 .64 .77

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

### HS18-461-463 WITH C16-41FF OR C16-41WFF EVAPORATOR UNIT

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Condenser Coil (°F)														
		85			95			105			115					
		Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)	Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)	Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)	Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)	Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)
63	1000	38,100	3570	.70 .80 .89	37,300	3840	.71 .81 .92	35,300	4120	.73 .84 .94	33,100	4470	.75 .86 .97	33,100	4470	.75 .86 .97
	1250	40,200	3660	.74 .85 .95	39,300	3940	.75 .87 .98	37,200	4240	.78 .90 .99	34,800	4600	.80 .93 1.00	34,800	4600	.80 .93 1.00
	1500	41,800	3720	.78 .90 .99	40,900	4020	.80 .93 1.00	38,600	4330	.82 .95 1.00	36,100	4700	.85 .98 1.00	36,100	4700	.85 .98 1.00
67	1000	40,500	3670	.56 .65 .74	39,700	3960	.57 .66 .75	37,600	4270	.58 .67 .77	35,400	4640	.59 .69 .80	35,400	4640	.59 .69 .80
	1250	42,700	3760	.59 .68 .79	41,900	4070	.60 .70 .81	39,500	4390	.61 .72 .83	37,100	4780	.62 .74 .86	37,100	4780	.62 .74 .86
	1500	44,300	3830	.61 .72 .83	43,400	4140	.62 .74 .86	40,900	4480	.63 .76 .89	38,300	4880	.65 .79 .92	38,300	4880	.65 .79 .92
71	1000	42,800	3760	.44 .52 .60	42,000	4080	.44 .53 .61	39,800	4410	.45 .54 .63	37,500	4810	.45 .55 .64	37,500	4810	.45 .55 .64
	1250	45,100	3860	.45 .55 .64	44,200	4190	.46 .55 .65	41,800	4540	.46 .56 .66	39,300	4970	.47 .58 .68	39,300	4970	.47 .58 .68
	1500	46,800	3930	.46 .57 .67	45,800	4270	.47 .58 .68	43,300	4640	.47 .59 .70	40,500	5080	.48 .61 .73	40,500	5080	.48 .61 .73

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

### HS18-461-463 WITH CR16-41FF EVAPORATOR UNIT

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Condenser Coil (°F)														
		85			95			105			115					
		Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)	Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)	Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)	Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)	Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)
63	1200	39,400	3650	.73 .83 .94	38,500	3930	.74 .86 .96	36,300	4230	.76 .88 .99	34,200	4590	.78 .91 1.00	34,200	4590	.78 .91 1.00
	1500	41,300	3730	.77 .90 .99	40,500	4030	.79 .92 1.00	38,200	4340	.82 .95 1.00	35,800	4720	.85 .98 1.00	35,800	4720	.85 .98 1.00
	1800	42,800	3790	.82 .95 1.00	41,800	4100	.84 .98 1.00	39,500	4430	.88 .99 1.00	37,100	4830	.91 1.00 1.00	37,100	4830	.91 1.00 1.00
67	1200	41,800	3750	.58 .67 .77	41,000	4060	.59 .69 .79	38,700	4380	.60 .70 .81	36,300	4770	.61 .72 .84	36,300	4770	.61 .72 .84
	1500	43,800	3830	.61 .71 .83	42,800	4150	.62 .73 .86	40,400	4490	.63 .75 .89	37,800	4900	.65 .78 .92	37,800	4900	.65 .78 .92
	1800	45,300	3890	.63 .76 .89	44,200	4220	.65 .78 .91	41,600	4570	.66 .81 .94	38,800	4990	.68 .84 .97	38,800	4990	.68 .84 .97
71	1200	44,100	3850	.45 .54 .63	43,300	4180	.45 .55 .64	40,900	4530	.46 .56 .66	38,500	4950	.46 .57 .67	38,500	4950	.46 .57 .67
	1500	46,300	3940	.46 .56 .67	45,300	4280	.47 .58 .68	42,800	4650	.47 .59 .70	40,100	5100	.48 .60 .72	40,100	5100	.48 .60 .72
	1800	47,800	4000	.47 .59 .70	46,700	4360	.48 .60 .72	44,100	4740	.49 .62 .74	41,200	5200	.50 .64 .77	41,200	5200	.50 .64 .77

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

### HS18-461-463 WITH CB18-41 OR CBS18-41 EVAPORATOR UNIT

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Condenser Coil (°F)														
		85			95			105			115					
		Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)	Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)	Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)	Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)	Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)
63	1000	38,500	3560	.70 .80 .90	37,600	3850	.71 .82 .92	35,400	4140	.73 .84 .95	33,300	4500	.75 .88 .98	33,300	4500	.75 .88 .98
	1250	40,800	3660	.74 .86 .97	39,800	3960	.76 .89 .99	37,500	4270	.78 .91 1.00	35,000	4660	.82 .95 1.00	35,000	4660	.82 .95 1.00
	1500	42,500	3730	.79 .92 1.00	41,500	4050	.82 .95 1.00	39,000	4380	.85 .98 1.00	36,600	4790	.87 1.00 1.00	36,600	4790	.87 1.00 1.00
67	1000	40,800	3660	.56 .65 .74	39,900	3970	.57 .66 .76	37,700	4290	.58 .68 .78	35,300	4680	.59 .70 .81	35,300	4680	.59 .70 .81
	1250	43,100	3760	.59 .69 .80	42,100	4080	.60 .71 .83	39,700	4430	.61 .73 .85	37,000	4840	.63 .75 .88	37,000	4840	.63 .75 .88
	1500	44,800	3840	.62 .73 .86	43,700	4170	.63 .75 .88	41,300	4530	.64 .79 .91	38,500	4970	.66 .82 .95	38,500	4970	.66 .82 .95
71	1000	43,100	3760	.44 .52 .60	42,200	4090	.44 .53 .62	39,900	4440	.45 .54 .63	37,400	4870	.45 .55 .65	37,400	4870	.45 .55 .65
	1250	45,500	3870	.45 .55 .64	44,500	4220	.46 .56 .66	42,000	4590	.46 .57 .67	39,200	5040	.47 .58 .69	39,200	5040	.47 .58 .69
	1500	47,300	3950	.46 .57 .68	46,100	4310	.47 .58 .70	43,400	4700	.48 .60 .72	40,500	5160	.49 .62 .75	40,500	5160	.49 .62 .75

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

NOTE — To determine sensible capacity, leaving wet bulb and dry bulb temperatures not shown in the tables, see Miscellaneous Engineering Data, page 9.

HS18-511-513 WITH C16-46FF OR C16-46WFF EVAPORATOR UNIT

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Condenser Coil (°F)																							
		85						95						105						115					
		Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)						
				Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)						
				76	80	84			76	80	84			76	80	84			76	80	84				
63	1300	45,500	4060	.75	.87	.97	44,600	4410	.77	.89	1.00	42,000	4700	.79	.92	1.00	39,400	4950	.82	.95	1.00				
	1550	47,100	4110	.80	.92	1.00	46,000	4480	.82	.95	1.00	43,400	4770	.84	.98	1.00	40,600	5030	.87	1.00	1.00				
	1800	48,500	4160	.84	.97	1.00	47,100	4520	.86	1.00	1.00	44,600	4840	.89	1.00	1.00	42,100	5120	.93	1.00	1.00				
67	1300	48,800	4180	.59	.70	.80	47,700	4550	.60	.72	.82	44,900	4850	.62	.74	.85	41,900	5110	.63	.76	.88				
	1550	50,200	4230	.62	.74	.86	48,900	4600	.63	.76	.88	46,000	4910	.65	.78	.91	42,900	5160	.67	.81	.95				
	1800	51,200	4260	.65	.78	.91	49,900	4640	.66	.80	.94	46,800	4950	.68	.83	.97	43,700	5210	.70	.86	1.00				
71	1300	52,400	4310	.45	.55	.65	51,100	4690	.45	.56	.66	48,100	5010	.46	.57	.68	44,900	5280	.47	.59	.70				
	1550	53,700	4350	.46	.57	.69	52,300	4740	.47	.59	.71	49,100	5060	.48	.60	.73	45,800	5330	.48	.62	.75				
	1800	54,700	4390	.47	.60	.72	53,200	4780	.48	.61	.75	49,900	5100	.49	.63	.77	46,500	5370	.50	.65	.80				

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

HS18-511-513 WITH CB18-51 OR CBS18-51 EVAPORATOR UNIT

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Condenser Coil (°F)																							
		85						95						105						115					
		Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)						
				Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)						
				76	80	84			76	80	84			76	80	84			76	80	84				
63	1400	46,400	4170	.77	.88	.99	45,200	4510	.79	.91	1.00	42,400	4880	.81	.94	1.00	39,500	5320	.84	.98	1.00				
	1700	48,100	4230	.82	.95	1.00	46,900	4580	.84	.98	1.00	43,900	4970	.87	1.00	1.00	41,200	5450	.91	1.00	1.00				
	2000	49,400	4270	.87	1.00	1.00	48,400	4660	.90	1.00	1.00	45,700	5070	.93	1.00	1.00	42,800	5570	.98	1.00	1.00				
67	1400	49,700	4280	.60	.71	.82	48,300	4650	.61	.73	.85	45,100	5040	.63	.76	.88	42,000	5500	.65	.78	.91				
	1700	51,100	4330	.63	.76	.89	49,600	4710	.65	.79	.92	46,300	5110	.67	.81	.95	43,000	5590	.69	.85	.99				
	2000	52,100	4360	.67	.81	.95	50,500	4750	.69	.84	.98	47,200	5160	.71	.87	1.00	43,800	5650	.74	.91	1.00				
71	1400	53,200	4400	.45	.56	.66	51,700	4800	.46	.57	.68	48,300	5230	.47	.58	.70	44,900	5730	.47	.60	.73				
	1700	54,500	4450	.47	.59	.71	52,900	4860	.48	.60	.73	49,400	5290	.48	.62	.76	45,800	5800	.50	.64	.79				
	2000	55,500	4480	.48	.62	.75	53,700	4890	.49	.64	.78	50,200	5330	.50	.66	.81	46,400	5850	.52	.68	.85				

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

HS18-511-513 WITH CH16-51FF EVAPORATOR UNIT

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Condenser Coil (°F)																							
		85						95						105						115					
		Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)						
				Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)						
				76	80	84			76	80	84			76	80	84			76	80	84				
63	1300	47,100	4100	.75	.86	.97	46,000	4480	.77	.89	1.00	43,300	4770	.79	.92	1.00	40,500	5020	.82	.95	1.00				
	1550	48,600	4170	.79	.92	1.00	47,400	4540	.82	.95	1.00	44,700	4840	.84	.98	1.00	41,700	5100	.87	1.00	1.00				
	1800	50,000	4210	.84	.97	1.00	48,600	4590	.86	1.00	1.00	46,000	4910	.89	1.00	1.00	43,400	5190	.93	1.00	1.00				
67	1300	50,600	4240	.59	.70	.80	49,300	4620	.60	.71	.82	46,300	4920	.62	.73	.85	43,300	5180	.63	.76	.80				
	1550	51,900	4290	.62	.74	.85	50,500	4670	.63	.76	.88	47,400	4980	.65	.78	.91	44,200	5240	.67	.81	.95				
	1800	53,000	4330	.65	.78	.91	51,500	4710	.66	.80	.94	48,300	5020	.68	.83	.97	45,000	5290	.70	.86	1.00				
71	1300	54,400	4380	.45	.55	.65	52,900	4770	.45	.56	.66	49,700	5090	.46	.57	.68	46,300	5360	.47	.59	.70				
	1550	55,600	4420	.46	.57	.68	54,100	4820	.47	.58	.70	50,700	5140	.47	.60	.73	47,200	5410	.48	.62	.75				
	1800	56,600	4460	.47	.60	.72	55,000	4860	.48	.61	.75	51,600	5180	.49	.63	.77	47,900	5450	.50	.65	.80				

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

HS18-511-513 WITH CR16-51FF EVAPORATOR UNIT

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Condenser Coil (°F)																			
		85					95					105					115				
		Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T)		
				Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)					Dry Bulb (°F)		
				76	80	84			76	80	84			76	80	84			76	80	84
63	1400	46,100	4090	.76	.88	.98	45,100	4450	.78	.90	1.00	42,400	4800	.80	.93	1.00	39,600	5220	.83	.97	1.00
	1700	47,700	4140	.81	.91	1.00	46,800	4510	.83	.97	1.00	45,700	4870	.86	1.00	1.00	41,100	5340	.89	1.00	1.00
	2000	49,300	4180	.85	.99	1.00	46,100	4570	.88	1.00	1.00	45,400	4970	.91	1.00	1.00	42,700	5450	.95	1.00	1.00
67	1400	49,500	4200	.60	.71	.81	48,400	4590	.61	.72	.84	45,300	4970	.62	.75	.86	42,200	5410	.64	.79	.90
	1700	50,900	4240	.63	.75	.87	49,600	4640	.64	.77	.90	46,400	5030	.66	.80	.93	43,200	5490	.68	.83	.97
	2000	52,100	4270	.66	.80	.93	50,700	4680	.67	.82	.96	47,500	5080	.69	.85	.99	44,200	5580	.72	.89	1.00
71	1400	53,000	4320	.45	.55	.65	51,800	4730	.46	.56	.67	48,500	5150	.46	.58	.69	45,100	5640	.47	.59	.72
	1700	54,400	4360	.46	.58	.70	53,000	4790	.47	.59	.72	49,600	5210	.48	.61	.74	46,100	5710	.49	.63	.77
	2000	55,300	4390	.48	.61	.74	54,000	4820	.49	.62	.76	50,400	5250	.50	.64	.79	46,700	5760	.51	.67	.83

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

# RATINGS

NOTE — To determine sensible capacity, leaving wet bulb and dry bulb temperatures not shown in the tables, see Miscellaneous Engineering Data, page 9.

## HS18-651-653 WITH CH16-51FF EVAPORATOR UNIT

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Condenser Coil (°F)														
		85			95			105			115					
		Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)	Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)	Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)	Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)			
63	1500	54,000	5140	.75 .85 .96	53,000	5550	.76 .87 .98	50,400	5890	.78 .90 1.00	47,900	6220	.80 .92 1.00			
	1750	55,500	5230	.78 .90 1.00	54,500	5640	.80 .93 1.00	51,800	5990	.82 .95 1.00	49,300	6320	.84 .98 1.00			
	2000	56,800	5310	.82 .95 1.00	55,900	5720	.84 .97 1.00	52,900	6060	.86 1.00 1.00	50,600	6420	.89 1.00 1.00			
67	1500	57,900	5360	.59 .69 .79	56,800	5780	.60 .71 .81	53,900	6130	.61 .72 .83	51,200	6460	.62 .74 .86			
	1750	59,200	5440	.61 .73 .84	58,100	5850	.62 .74 .86	55,200	6210	.63 .76 .88	52,300	6540	.65 .78 .91			
	2000	60,300	5490	.63 .76 .88	59,100	5910	.65 .78 .91	56,100	6270	.66 .80 .94	53,200	6600	.68 .82 .97			
71	1500	61,900	5580	.45 .54 .64	60,900	6010	.45 .55 .65	57,900	6380	.46 .56 .67	55,000	6720	.46 .57 .68			
	1750	63,300	5650	.46 .57 .67	62,200	6090	.46 .58 .69	59,100	6450	.47 .59 .71	56,000	6780	.47 .60 .73			
	2000	64,400	5700	.47 .59 .71	63,100	6140	.47 .60 .72	59,900	6500	.48 .61 .74	56,800	6840	.49 .63 .77			

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

## HS18-651-653 WITH CR16-51FF EVAPORATOR UNIT

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Condenser Coil (°F)														
		85			95			105			115					
		Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)	Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)	Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)	Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)			
63	1600	53,600	5040	.74 .84 .94	52,600	5390	.75 .86 .97	50,100	5690	.77 .88 .99	47,600	5950	.79 .91 1.00			
	2000	55,700	5160	.78 .90 1.00	54,800	5520	.80 .93 1.00	52,100	5820	.82 .95 1.00	49,600	6090	.84 .98 1.00			
	2400	57,400	5260	.83 .96 1.00	56,500	5620	.85 .99 1.00	53,700	5920	.87 1.00 1.00	51,400	6210	.90 1.00 1.00			
67	1600	57,500	5260	.58 .68 .78	56,500	5630	.59 .70 .80	53,800	5930	.60 .71 .82	51,200	6200	.61 .73 .84			
	2000	59,500	5370	.61 .73 .84	58,400	5740	.62 .74 .86	55,500	6040	.63 .76 .89	52,800	6300	.65 .78 .91			
	2400	60,900	5440	.64 .77 .90	59,700	5810	.65 .79 .92	56,800	6110	.67 .81 .95	54,000	6380	.68 .84 .98			
71	1600	61,600	5480	.45 .54 .63	60,700	5860	.45 .55 .64	57,600	6170	.45 .56 .66	55,100	6440	.46 .56 .67			
	2000	63,600	5580	.46 .57 .67	62,500	5970	.46 .58 .69	59,500	6270	.47 .59 .71	56,600	6540	.47 .60 .72			
	2400	64,900	5650	.47 .59 .72	63,800	6030	.48 .61 .73	60,700	6340	.48 .62 .75	57,700	6610	.49 .63 .78			

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

## HS18-651-653 WITH C16-51FF EVAPORATOR UNIT

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Condenser Coil (°F)														
		85			95			105			115					
		Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)	Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)	Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)	Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)			
63	1700	54,400	5170	.77 .88 .99	53,400	5570	.78 .91 1.00	50,800	5920	.80 .93 1.00	48,300	6250	.82 .96 1.00			
	2000	55,700	5240	.80 .93 1.00	54,800	5660	.82 .96 1.00	52,200	6000	.85 .98 1.00	49,400	6330	.87 1.00 1.00			
	2300	57,100	5320	.84 .98 1.00	55,900	5720	.87 1.00 1.00	53,500	6100	.89 1.00 1.00	51,100	6460	.92 1.00 1.00			
67	1700	58,200	5380	.60 .71 .82	57,100	5800	.61 .73 .84	54,200	6150	.62 .74 .86	51,500	6480	.64 .76 .89			
	2000	59,400	5450	.62 .75 .87	58,200	5860	.64 .77 .89	55,300	6220	.65 .79 .92	52,500	6550	.67 .81 .95			
	2300	60,400	5490	.65 .78 .92	59,200	5920	.66 .81 .94	56,200	6280	.68 .83 .97	53,300	6600	.70 .85 1.00			
71	1700	62,200	5600	.45 .56 .66	61,200	6030	.46 .57 .67	58,200	6400	.46 .58 .69	55,200	6730	.47 .59 .71			
	2000	63,400	5660	.46 .58 .69	62,300	6090	.47 .59 .71	59,200	6460	.48 .60 .73	56,100	6790	.48 .62 .75			
	2300	64,500	5710	.48 .60 .73	63,200	6150	.48 .62 .75	60,000	6510	.49 .63 .77	56,900	6840	.50 .65 .79			

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

## HS18-651-653 WITH CB18-65 OR CBS18-65 EVAPORATOR UNIT

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Condenser Coil (°F)														
		85			95			105			115					
		Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)	Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)	Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)	Total Cool Cap. (Btuh)	Comp. Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb (°F)			
63	1700	56,700	5210	.76 .87 .98	55,700	5580	.78 .90 1.00	53,000	5870	.80 .92 1.00	50,300	6130	.82 .95 1.00			
	2000	58,400	5310	.81 .93 1.00	57,500	5680	.83 .96 1.00	54,700	5980	.85 .99 1.00	51,900	6230	.87 1.00 1.00			
	2300	60,000	5380	.85 .99 1.00	58,900	5760	.87 1.00 1.00	56,300	6080	.90 1.00 1.00	53,900	6360	.93 1.00 1.00			
67	1700	60,400	5420	.60 .71 .81	59,400	5790	.61 .72 .83	56,400	6090	.62 .74 .86	53,600	6340	.63 .76 .88			
	2000	61,900	5490	.63 .75 .87	60,800	5870	.64 .77 .89	57,800	6160	.65 .79 .92	54,800	6420	.67 .81 .95			
	2300	63,100	5550	.65 .79 .92	62,000	5930	.67 .81 .95	58,800	6230	.69 .84 .98	55,800	6480	.70 .86 1.00			
71	1700	64,600	5630	.45 .55 .66	63,600	6020	.46 .56 .67	60,500	6320	.46 .57 .69	57,400	6580	.47 .59 .70			
	2000	66,000	5700	.46 .58 .70	64,900	6090	.47 .59 .71	61,700	6380	.48 .60 .73	58,500	6640	.48 .62 .75			
	2300	67,000	5750	.48 .61 .74	65,900	6140	.48 .62 .76	62,600	6440	.49 .64 .78	59,400	6690	.50 .65 .80			

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