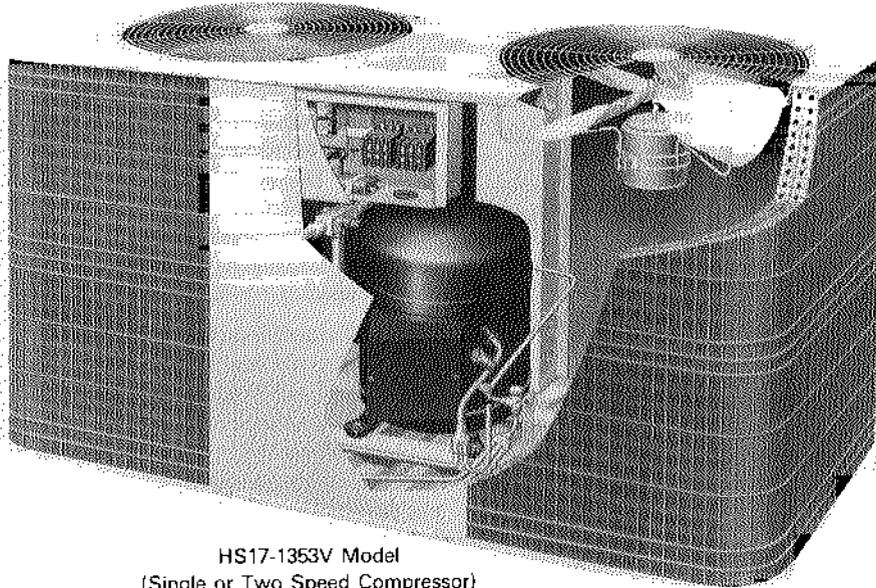




**HS17 SERIES
CONDENSING UNITS**
64,000 to 246,000 Btuh Cooling Capacity
ARI Standard Ratings

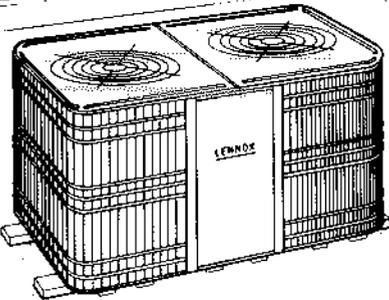
ENGINEERING DATA
COOLING UNITS
CONDENSING UNITS
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April 1988
Supersedes April 1987



HS17-1353V Model
(Single or Two Speed Compressor)



Typical Applications



Rooftop Installation



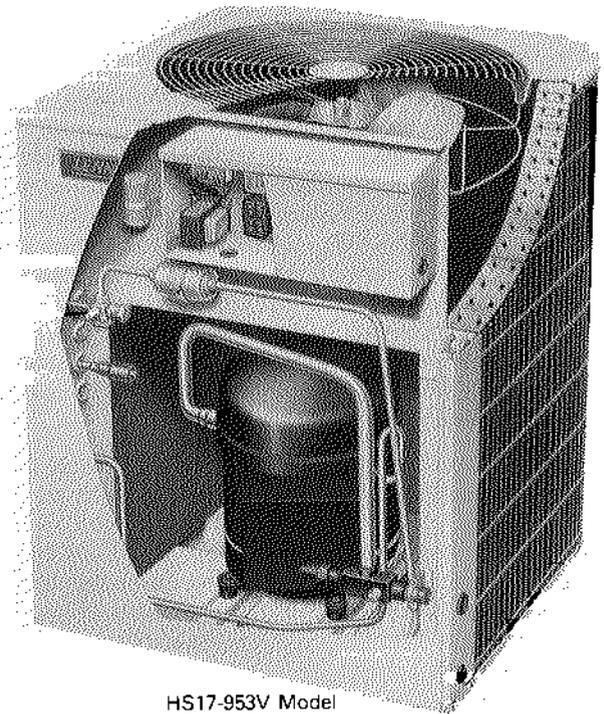
CERTIFICATION APPLIES ONLY
WHEN USED WITH PROPER
COMPONENTS AS LISTED
WITH ARI



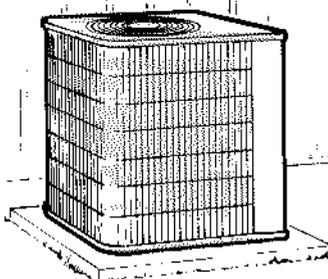
CERTIFICATION APPLIES ONLY
WHEN THE COMPLETE
SYSTEM IS LISTED
WITH ARI



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



HS17-953V Model
(Single or Two Speed Compressor)



Unit on a slab at grade level.

FEATURES

Application — The HS17 series air cooled condensing units are designed for application with a remotely located blower coil unit or a furnace add-on evaporator coil. HS17-953V and HS17-1353V models are available with a choice of either a single speed or two speed compressor. Compact, low height cabinet design will allow concealed installation on a slab at grade level or behind a parapet wall on a rooftop. Upward discharge of air reduces sound level, protects walkways and prevents lawn damage. A variety of matching blower-powered or furnace add-on evaporator units provides installation flexibility and application versatility. See ARI Ratings table. For multiple coil matches to condensing units, see RTM1 Zonemaster bulletin indexed in this section, Page 53. For evaporator unit data see bulletins indexed in tab section Coils-Blower Coil Units. Condensing units are shipped factory assembled, piped and wired. In addition, units are test operated at the factory to ensure on the job start-up. Installer has only to connect refrigerant lines, charge system and make electrical connections.

Durable Steel 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 outdoor enamel. The attractive enamel finish gives the cabinet long lasting protection from the weather. Drainage holes are furnished in base section for moisture removal. Heavy duty steel base channels raise the unit off of the mounting surface away from damaging moisture. Large removable panel provides service access.

Accessible Control Box — Large size and conveniently located in the unit cabinet for easy access. All controls are pre-wired at the factory.

HS17-813V Single Speed Compressor (Optional HS17-953V and HS17-1353V)

Reliable single speed compressor is hermetically sealed and provides trouble free operation and long service life. Built in protection devices assure protection from excessive current and temperature. Equipped with internal motor protection, vertical crankshaft, ringed valves and pistons, tuned discharge muffler, efficient oil pump and positive gas venting of lube system. Crankcase heater assures proper compressor lubrication. The entire running gear assembly is internally suspended. In addition, the compressor is installed in the unit on resilient rubber mounts assuring quiet and vibration free operation.

HS17-1853V and HS17-2753V Two Speed Compressor (Optional HS17-953V and HS17-1353V)

Rugged two speed compressor is hermetically sealed with built-in protection from excessive current and temperatures. During part load conditions the compressor operates in the low speed mode. Equipped with solid-state motor protection, vertical crankshaft, ringed valves and pistons, tuned discharge muffler, two stage oil pump and positive venting of lube system. Crankcase heater assures proper compressor lubrication. The entire running gear assembly is internally suspended. In addition, the compressor is installed in the unit on resilient rubber mounts assuring low sound and vibration free operation.

Refrigerant Lines and Service Valves — Suction and liquid lines require sweat connections and are made inside the unit on the HS17-813V, -953V & -1353V and are external to the unit on the HS17-1853V & -2753V models. Non-corrosive suction and liquid line service valves with gauge ports provide access to refrigerant system. A thermometer well is provided for checking refrigerant charge. Refrigerant lines and field wiring inlets are located in one central area of the unit cabinet.

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

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

Loss of Charge Switch — Shuts off unit if suction pressure falls below setting. Provides loss of charge and freeze up protection. Automatic reset.

Condenser Fan(s) — HS17-813V and HS17-953V models employ a single fan and the HS17-1353V, HS17-1853V and HS17-2753V models are equipped with dual fans. Efficient direct drive fan(s) moves large volumes of air uniformly through the entire condenser coil(s) resulting in high refrigerant cooling capacity. Vertical discharge of air minimizes operating sounds and eliminates hot air damage to lawn and shrubs. Fan motor(s) are totally enclosed (except HS17-2753V), inherently protected and equipped with a rain shield. Fan service access is accomplished by removal of fan guard(s). Corrosion resistant PVC (polyvinyl chloride) coated steel wire guard(s) is furnished as standard.

Copper Tube/Enhanced Fin Coil(s) — HS17-813V and HS17-953V models are equipped with a single "U" shaped coil and the HS17-1353V, HS17-1853V and HS17-2753V models have dual "U" shaped coils. Lennox designed and fabricated coil(s) is constructed of precisely spaced ripple-edge aluminum fins machine fitted to seamless copper tubes. Wrap-around "U" shaped coil configuration provides extra large surface area for 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 tubing for maximum contact area. Flared shoulder tubing connections and silver soldering provide tight, leakproof joints. Long life copper tubing is corrosion-resistant and easy to field service. Coil(s) is thoroughly factory tested under high pressure to insure leakproof construction. Entire coil is accessible for cleaning. A non corrosive PVC coated steel wire coil guard(s) is furnished.

Timed-Off Control — Furnished and factory installed. Prevents compressor short-cycling. Automatic reset control will shut the compressor off and hold it off for 5 minutes.

Low Ambient Control (Optional) — Units will operate satisfactorily down to 50°F outdoor air temperature without any additional controls. For cases where operation of the unit is required at lower ambients, a Low Ambient Control Kit can be added in the field, enabling it to operate properly down to 0°F. HS17-813V and HS17-953V models use Kit (LB-57113BA) and HS17-1353V, HS17-1853V and HS17-2753V models use Kit (LB-57113BB). Kit must be ordered extra.

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

HS17-1353V, HS17-1853V and HS17-2753V Disconnect Mounting Kit (Optional) — Disconnect mounting kit (LB-54822DA) provides a convenient mounting location for field furnished remote disconnect switch. Kit field installs to outside of unit cabinet adjacent to electrical inlets.

Approvals — HS17-813V, HS17-953V and HS17-1353V units have been tested in the Lennox Research Laboratory environmental test room and rated in accordance with ARI Standard 210-81. In addition, units have been sound rated in the Lennox reverberant sound test room and rated in accordance with ARI Standard 270-84. HS17-1853V and HS17-2753V models have been rated in accordance with ARI Standard 365-86. Condensing units and components within are bonded for grounding to meet safety standards for servicing required by U.L., ETL and N.E.C. HS17-813V, HS17-953V and HS17-1353V models are U.L. Listed. HS17-1853V and HS17-2753V are tested and listed by ETL Testing Laboratories Inc.

ARI RATINGS

Condensing Unit Model No. ★ ARI Standard 270 SRN (bels)		*ARI Standard 210 or †365 Ratings					Evaporator Unit			††Expansion Valve Kit
		SEER (Btuh/ Watts)	EER (Btuh/ Watts)	Cooling Capacity (Btuh)	Total Unit Watts	Integrated Part Load Value	Up-Flo	Down-Flo	Horizontal	
HS17-813V (8.6) Single Speed		7.75	7.75	64,000	8241		C16 65	CR16-65	----	LB-25778CD
		7.50	7.50	64,500	8585		**CB18-65	----	**CBS18-65	
		8.05	8.05	67,000	8337	----		----	CH16-65V	☆ Factory Installed
		8.05	8.05	67,000	8296	----	C14 65		----	LB-25778CD
		8.60	8.60	69,000	8029	----		----	**CB15-65	
		8.20	8.20	73,000	8979	----	C17 95/135V	----	----	☆ Factory Installed
		8.70	8.70	74,000	8710	----	**CB17-95V	----	**CBH17-95V	
HS17-953V (9.2)	Single Speed	8.40	8.40	90,000	10,849	----	C17-95/135V		----	☆ Factory Installed
	Two Speed	10.00	8.40							
	Single Speed	8.60	8.60	91,000	10,600	----				
	Two Speed	10.50	8.60							
	Single Speed	8.75	8.75	95,000	10,840	----				
	Two Speed	10.50	8.75							
HS17-1353V (9.0)	Single Speed	8.20	8.20	112,000	13,864	----	C17 95/135V	----		☆ Factory Installed
	Two Speed	9.65	8.20							
	Single Speed	8.50	8.50	120,000	14,200	----				
	Two Speed	10.30	8.50							
†HS17-1853V	Two Speed	10.50	8.80	188,000	21,400	10.3	**CB17-185V	----	**CBH17-185V	☆ Factory Inst.
†HS17-2753V	Two Speed	10.20	8.55	246,000	28,700	10.9	**CB17-275V	----	**CBH17 275V	☆ Factory Inst.

★ Sound Rating Number in accordance with ARI Standard 270.

† Rated in accordance with ARI Standard 210 or †365 and DOE; 95°F outdoor air temperature, 80°F db/67°F wb entering evaporator air (*minimum external duct static pressure) with 25 ft. of connecting refrigerant lines.

** Denotes blower powered evaporator.

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

∴ Furnished as standard with coil.

NOTE - For multiple coil matches to condensing units, see RTM1 Zonemaster bulletin in this section, Page 53.

SPECIFICATIONS

Model No.			HS17-813V	HS17-953V	HS17-1353V
Condenser Coil	Net face area (sq. ft)	Outer coil	21.36	21.36	33.44
		Inner coil	14.12	14.12	20.05
	Tube diameter (in.) & No. of rows		3/8 - 1.7	3/8 - 1.7	3/8 - 1.6
	Fins per inch		18	18	20
Condenser Fan(s)	Diameter (in.) & No. of blades		24 - 4	24 - 4	(2) 24 - 4
	Motor hp		3/4	3/4	(2) 1/4
	Cfm		5800	5800	8000
	Rpm		1050	1050	850
	Watts		760	760	720 (total)
Refrigerant - 22 charge furnished			holding charge	holding charge	holding charge
Liquid line (o.d. in.) connection - sweat			5/8	5/8	5/8
Suction line (o.d. in.) connection - sweat			1-1/8	1-3/8	1-3/8
Shipping weight (lbs.) - 1 Package			330	370	520

Model No.			HS17-1853V	HS17-2753V
Condenser Coil	Net face area (sq. ft)	Outer coil	41.8	46.0
		Inner coil(s)	32.08	44.11
	Tube diameter (in.) & No. of rows		3/8 - 1.8	3/8 - 2
	Fins per inch		20	20
Condenser Fans	Diameter (in.) & No. of blades		(2) 24 - 4	(2) 24 - 4
	Motor hp		(2) 3/4	(2) 1
	Cfm		11,000	12,000
	Rpm		1040	1110
	Watts		1600 (total)	1900 (total)
Refrigerant - 22 charge furnished			holding charge	holding charge
Liquid line (o.d. in.) connection - sweat			7/8	7/8
Suction line (o.d. in.) connection - sweat			1-5/8	1-5/8
Shipping weight (lbs.) - 1 Package			560	660

ELECTRICAL DATA – Single Speed Compressor

Model No.		HS17-813V		HS17-953V		HS17-1353V	
Line voltage data 60 hertz/3 phase		208/230v	460v	208/230v	460v	208/230v	460v
Compressor	Rated load amps	21.5	10.7	27.1	14.2	37.9	19.0
	Locked rotor amps	135.0	68.0	183.0	91.1	207.0	104.0
Condenser Coil Fan Motor (1 phase)	Full load amps	3.5	1.9	3.7	1.9	4.4	2.2
	Locked rotor amps	7.3	3.7	7.3	3.7	9.0	4.0
Unit power factor		.89	.89	.90	.90	.87	.87
Recommended maximum fuse or HACR type circuit breaker size (amps)		50	25	60	30	60	40
*Minimum circuit ampacity		30.4	15.3	37.6	19.7	51.7	25.9

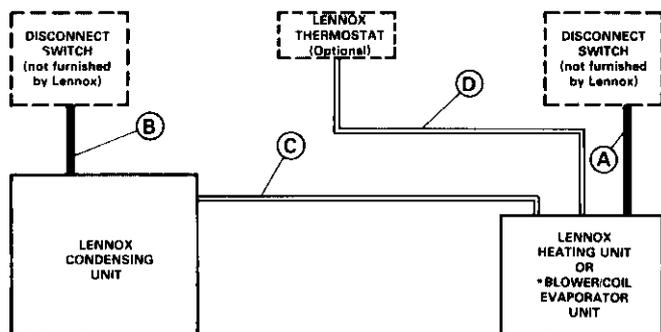
*Refer to National Electrical Code manual to determine wire, fuse and disconnect size requirements.
NOTE Extremes of operating range are plus and minus 10% of line voltage.

ELECTRICAL DATA – Two Speed Compressor

Model No.			HS17-953V		HS17-1353V		HS17-1853V		HS17-2753V	
Line voltage data – 60 hertz/3 phase			208/230v	460v	208/230v	460v	208/230v	460v	208/230v	460v
Compressor	Rated load amps	High Speed	26.5	13.3	36.1	18.9	56.4	28.2	79.5	39.7
		Low Speed	13.3	6.7	18.9	9.5	28.2	14.1	39.7	19.9
	Locked rotor amps	High Speed	140.0	70.0	192.0	96.0	248.0	124.0	362.0	181.0
		Low Speed	48.0	24.0	66.0	33.0	89.0	45.0	124.0	62.0
Condenser Coil Fan Motor (1 phase)	Full load amps (total)		3.7	1.9	4.4	2.2	7.4	3.8	10.4	5.6
	Locked rotor amps (total)		7.3	3.7	9.0	4.0	14.6	7.4	18.2	14.0
Unit power factor			.90	.90	.87	.87	.87	.87	.87	.87
Recommended maximum fuse size (amps)			60	30	60	40	125	60	175	90
Maximum HACR type circuit breaker size (amps)			60	30	60	40	125	60	175	90
*Minimum circuit ampacity			36.8	18.5	49.5	25.8	77.9	42.7	109.8	55.2

*Refer to National Electrical Code manual to determine wire, fuse and disconnect size requirements.
NOTE Extremes of operating range are plus and minus 10% of line voltage.
†Not available over 60 amps.

FIELD WIRING



*CB17/CB17 applications without auxiliary electric heat require a separate 20VA (minimum rating) transformer.

- A – Three wire power (not furnished)
- B – Three wire power (not furnished) – See electrical data
- C – Two wire low voltage (not furnished) – 18 ga. minimum
– HS17-813V-953V-1353V (Single Speed)
– Three wire low voltage (not furnished) – 18 ga. minimum
– HS17-953V-1353V-1853V-2753V (Two Speed)
- D – Four wire low voltage (not furnished) – 18 ga. minimum
– HS17-813V-953V-1353V (Single Speed)
– Six wire low voltage (not furnished) – 18 ga. minimum
– HS17-953V-1353V 1853V 2753V (Two Speed)

All wiring must conform to NEC and local electrical codes.

*Applications without auxiliary electric heat require a separate 30VA (minimum rating) transformer.

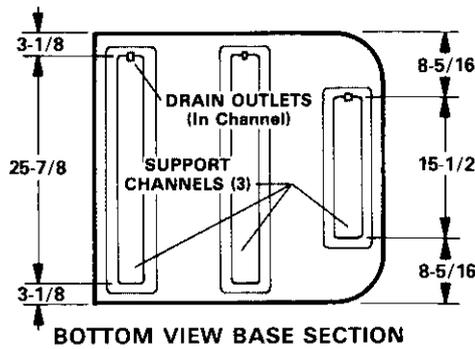
DIMENSIONS (inches)
HS17-813V – HS17-953V

CORNER WEIGHT (lbs.)

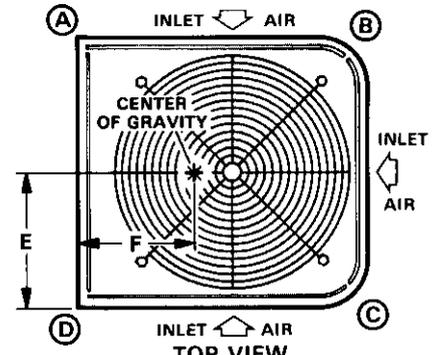
Model No.	A	B	C	D
HS17-813V	51	114	114	51
HS17-953V	84	101	101	84

CENTER OF GRAVITY (in.)

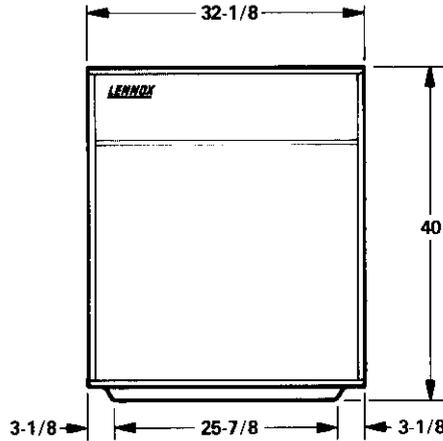
Model No.	E	F
HS17-813V	16	13
HS17-953V	16	16-1/2



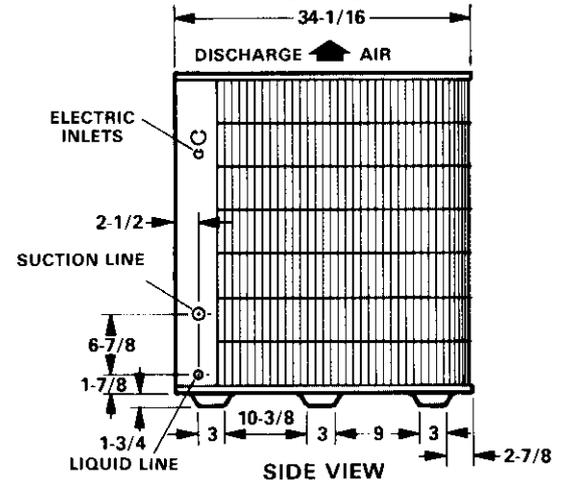
BOTTOM VIEW BASE SECTION



TOP VIEW

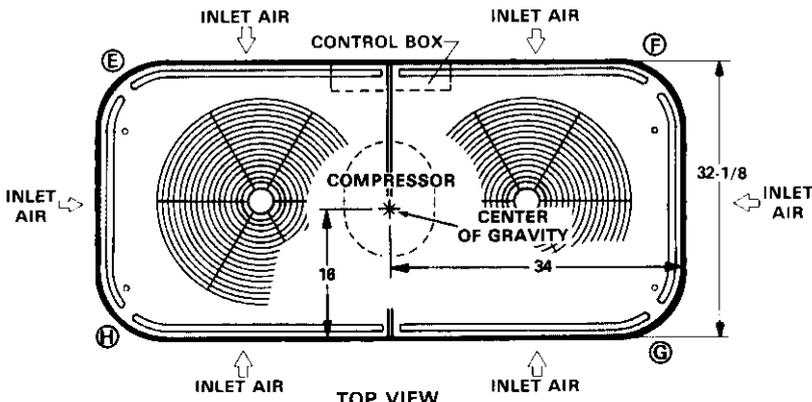


FRONT VIEW

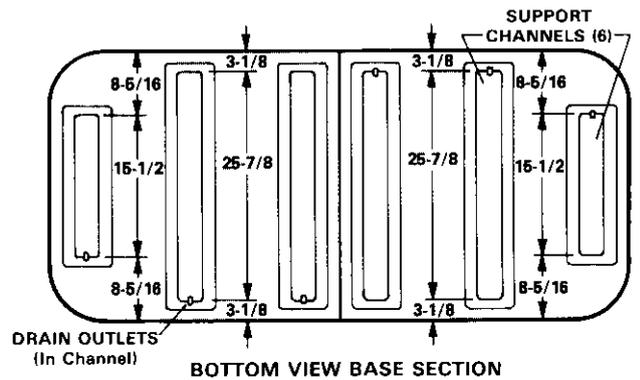


SIDE VIEW

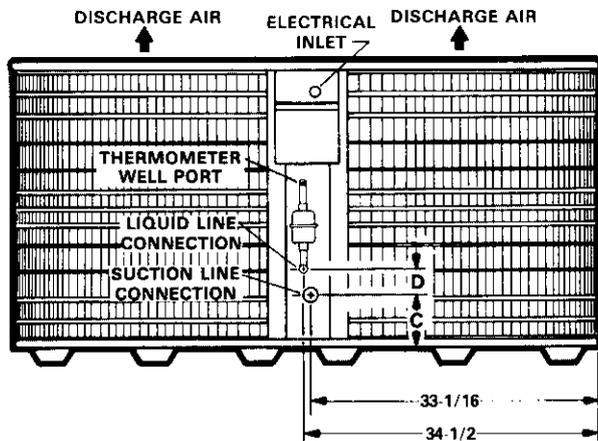
HS17-1353V – HS17-1853V – HS17-2753V



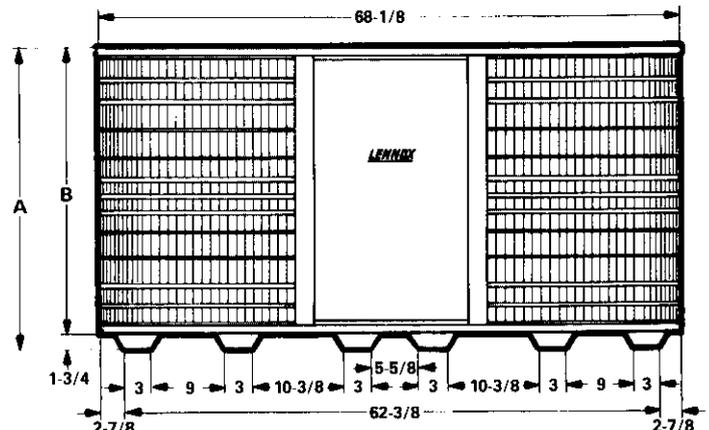
TOP VIEW



BOTTOM VIEW BASE SECTION



BACK VIEW



FRONT VIEW

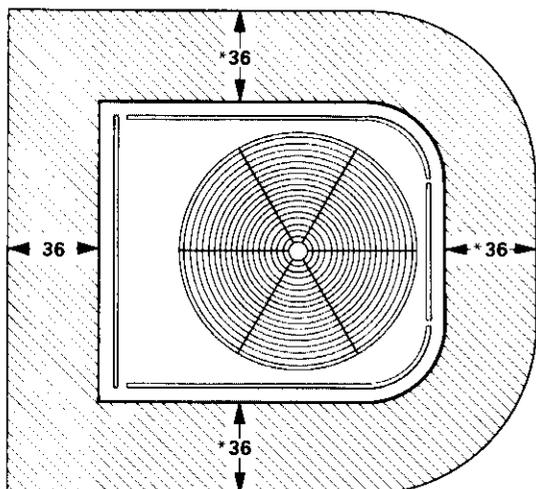
CORNER WEIGHT (lbs.)

Model No.	A	B	C	D
HS17-1353V	33-3/4	32	5-1/8	3
HS17-1853V	41-3/4	40	3-3/4	7
HS17-2753V	45-3/4	44	3-3/4	6

Model No.	E	F	G	H
HS17-1353V	130	130	130	130
HS17-1853V	140	140	140	140
HS17-2753V	165	165	165	165

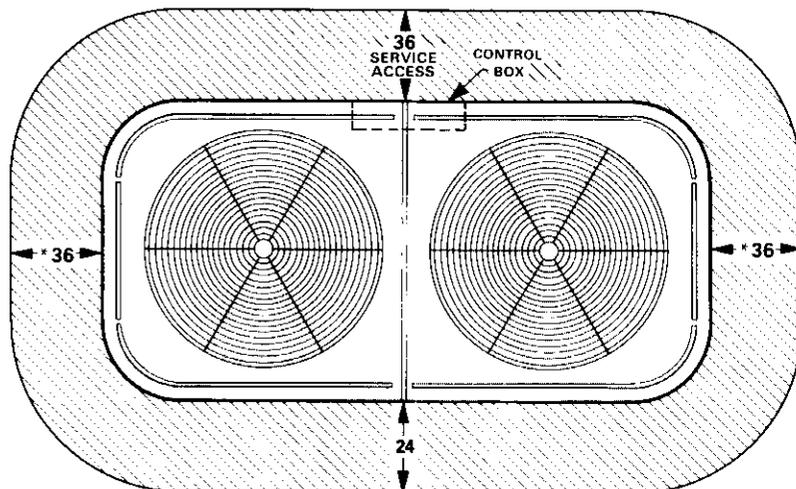
INSTALLATION CLEARANCES (inches)

HS17-813V — HS17-953V



NOTE — 48" clearance required on top of unit.
 *NOTE — One side of coil may be 12 inches.

HS17-1353V — HS17-1853V — HS17-2753V



NOTE — 48" clearance required on top of unit.
 *NOTE — One side of coil may be 12 inches.

GUIDE SPECIFICATIONS

Prepared for the guidance of architects, consulting engineers and mechanical contractors.

General — Furnish and install an air cooled condensing unit. The unit shall be shipped completely factory assembled, piped and wired internally ready for field connections. In addition, manufacturer shall test operate unit at the factory before shipment. The condensing unit shall be a standard product of a firm regularly engaged in the manufacture of heating-cooling equipment. The manufacturer shall have parts and service available throughout the United States.

The installed weight shall not be more than lbs. Entire unit shall have a width of not more than inches, a depth of not more than inches and an overall height of not more than inches.

Cooling Capacity — The total cooling capacity shall be Btuh at °F evaporating temperature and outdoor air temperature of °F. The compressor power input shall not exceed kw at the above conditions.

Compressor — HS17-813V (and optional HS17-953V & -1353V) model shall have single speed compressor. HS17-1853V and -2753V (and optional HS17-953V & -1353V) models shall be equipped with two speed compressor providing staging control to deliver varying cooling load requirements. Compressor shall be resiliently mounted, suction cooled, overload protected, and have internal excessive current and temperature protection. Shall have vertical crankshaft, ringed valves and pistons, tuned discharge muffler, efficient oil pump and crankcase heater.

Refrigerant System — Shall include liquid line service valve, suction line service valve, gauge ports, hi-capacity drier, thermometer well, high pressure switch, loss of charge switch and timed-off control. Control options available shall include thermostat and low ambient control kit.

Condenser Coils(s) — Coil(s) shall be non-ferrous construction with aluminum fins mechanically bonded to durable copper tubes. Coil(s) shall be pressure leak tested. Coil face area shall be not less than sq. ft. Coil(s) shall be protected with steel guard(s).

Casing — Shall be constructed of galvanized steel which has been through a metal wash preparation and have a finish coat of baked-on outdoor enamel. Large access panel shall be provided to allow complete service. The base section shall be provided with moisture removal openings. Openings shall be provided for refrigerant lines and power connection entry.

Air Mover — Shall be direct drive blade type fan(s). Motor(s) shall have inherent protection devices and shall be protected from moisture. Motor(s) shall be hp with not more than watts input. Fan(s) shall be protected with steel guard(s).

Approvals — All wiring shall be in compliance with NEC. Shall be rated in accordance with ARI Standard 210-81 and 365-86. HS17-813V, HS17-953V and HS17-1353V models shall have U.L. listing. HS17-1853V and HS17-2753V models shall have ETL Testing Laboratories listing.

Equipment Warranty — The compressor shall have a limited warranty for five years. All other components shall have a limited warranty for one year. Refer to Lennox Equipment Warranty Certificate furnished with the unit for details.

COOLING RATINGS

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

HS17-813V WITH C16-65 OR CR16-65 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)			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	76	80	84				
63	1800	65,700	6110	.73	.83	.93	62,700	6540	.74	.85	.95	59,600	6930	.76	.87	.98	56,300	7260	.78	.90	1.00
	2100	67,500	6170	.76	.87	.98	64,400	6610	.77	.89	1.00	61,100	7000	.79	.92	1.00	57,800	7350	.82	.95	1.00
	2400	69,100	6230	.79	.91	1.00	65,900	6670	.81	.93	1.00	62,500	7080	.83	.96	1.00	59,100	7420	.85	.99	1.00
67	1800	70,900	6300	.58	.68	.77	67,600	6740	.59	.69	.79	64,100	7150	.60	.70	.81	60,500	7500	.61	.72	.83
	2100	72,500	6360	.60	.70	.81	69,100	6810	.60	.72	.83	65,400	7220	.62	.73	.85	61,700	7570	.63	.76	.88
	2400	73,900	6410	.61	.73	.84	70,300	6860	.62	.75	.87	66,600	7270	.64	.77	.89	62,700	7620	.65	.79	.92
71	1800	76,200	6490	.45	.54	.62	72,600	6950	.45	.54	.64	68,900	7380	.45	.55	.65	65,000	7740	.46	.56	.67
	2100	77,800	6540	.45	.55	.65	74,100	7010	.45	.56	.66	70,200	7440	.46	.57	.68	66,200	7810	.47	.58	.70
	2400	79,200	6590	.46	.57	.68	75,300	7060	.46	.58	.69	71,300	7490	.47	.59	.71	67,200	7860	.48	.60	.73

HS17-813V 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)			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	76	80	84				
63	1800	67,000	6140	.74	.84	.94	63,900	6580	.75	.86	.97	60,600	6970	.77	.89	.99	57,200	7310	.79	.91	1.00
	2100	69,100	6220	.77	.89	1.00	65,800	6660	.79	.91	1.00	62,400	7060	.81	.94	1.00	58,900	7410	.84	.97	1.00
	2400	70,800	6280	.81	.94	1.00	67,500	6730	.83	.96	1.00	64,200	7130	.86	.99	1.00	60,400	7490	.88	1.00	1.00
67	1800	71,800	6310	.59	.68	.78	68,300	6760	.59	.70	.80	64,700	7170	.60	.71	.82	61,000	7520	.62	.73	.85
	2100	73,600	6380	.61	.72	.83	70,000	6830	.62	.74	.85	66,200	7240	.63	.75	.88	62,400	7590	.65	.78	.91
	2400	75,000	6430	.63	.75	.87	71,300	6890	.64	.77	.90	67,400	7300	.66	.80	.93	63,400	7650	.68	.82	.96
71	1800	76,900	6500	.45	.54	.63	73,100	6960	.45	.55	.65	69,300	7380	.45	.56	.66	65,300	7750	.46	.57	.68
	2100	78,600	6560	.46	.56	.67	74,700	7030	.46	.57	.68	70,700	7450	.47	.58	.70	66,500	7810	.47	.60	.72
	2400	80,000	6600	.47	.58	.70	75,900	7070	.47	.60	.72	71,800	7500	.48	.61	.74	67,500	7860	.49	.63	.76

HS17-813V WITH CP16-65V/E16Q5 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	76	80	84				
63	1800	66,700	6130	.73	.84	.94	63,600	6560	.75	.85	.96	60,300	6950	.76	.88	.98	56,900	7290	.78	.90	1.00
	2100	68,600	6200	.76	.88	.99	65,400	6640	.78	.90	1.00	61,900	7040	.80	.93	1.00	58,400	7380	.82	.96	1.00
	2400	70,400	6270	.80	.92	1.00	67,000	6710	.82	.95	1.00	63,600	7110	.84	.98	1.00	59,700	7450	.87	1.00	1.00
67	1800	71,800	6320	.58	.68	.78	68,300	6760	.59	.69	.79	64,700	7170	.60	.71	.81	61,000	7520	.61	.72	.84
	2100	73,500	6380	.60	.71	.82	69,900	6830	.61	.72	.84	66,100	7240	.62	.74	.86	62,200	7590	.64	.76	.89
	2400	75,000	6430	.62	.74	.86	71,200	6890	.63	.76	.88	67,300	7300	.65	.78	.91	63,400	7650	.66	.81	.94
71	1800	77,100	6500	.45	.54	.63	73,300	6970	.45	.54	.64	69,500	7390	.45	.55	.65	65,400	7760	.46	.56	.67
	2100	78,800	6560	.45	.55	.66	74,900	7030	.46	.56	.67	70,900	7460	.46	.58	.69	66,600	7820	.47	.59	.71
	2400	80,300	6610	.46	.57	.69	76,200	7080	.47	.59	.70	72,000	7510	.47	.60	.72	67,700	7870	.48	.62	.75

HS17-813V WITH CH16-65V 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	76	80	84				
63	1800	69,200	6240	.73	.83	.93	66,000	6680	.74	.85	.95	62,500	7070	.76	.87	.98	59,000	7420	.78	.90	1.00
	2100	71,400	6320	.76	.88	.98	67,900	6760	.78	.90	1.00	64,400	7170	.80	.92	1.00	60,700	7510	.82	.95	1.00
	2400	73,200	6380	.80	.92	1.00	69,600	6830	.81	.94	1.00	66,000	7240	.84	.97	1.00	62,000	7580	.86	1.00	1.00
67	1800	74,400	6420	.58	.68	.77	70,900	6880	.59	.69	.79	67,000	7290	.60	.70	.81	63,200	7650	.61	.72	.83
	2100	76,400	6490	.60	.71	.81	72,600	6950	.61	.72	.83	68,700	7370	.62	.74	.86	64,600	7720	.64	.76	.89
	2400	77,900	6550	.62	.74	.85	74,000	7010	.63	.76	.88	69,900	7430	.65	.78	.91	65,700	7780	.66	.80	.94
71	1800	79,800	6610	.45	.54	.63	75,900	7090	.45	.54	.64	71,900	7520	.45	.55	.65	67,800	7880	.46	.56	.67
	2100	81,700	6680	.45	.55	.65	77,700	7150	.46	.56	.67	73,500	7590	.46	.57	.69	69,200	7950	.47	.59	.71
	2400	83,200	6730	.46	.57	.68	79,000	7200	.47	.58	.70	74,700	7640	.47	.60	.72	70,200	8010	.48	.61	.75

COOLING RATINGS

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

HS17-813V WITH C14-65 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)			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	1800	70,800	6290	.73	.84	.94	67,400	6740	.75	.86	.96	63,800	7140	.77	.88	.99	60,200	7480	.79	.91	1.00
	2100	72,900	6370	.77	.88	.99	69,300	6820	.79	.91	1.00	65,600	7230	.81	.93	1.00	61,900	7580	.83	.96	1.00
	2400	74,600	6430	.80	.93	1.00	71,000	6890	.82	.96	1.00	67,300	7300	.85	.99	1.00	63,400	7660	.88	1.00	1.00
67	1800	75,900	6480	.58	.68	.78	72,200	6940	.59	.69	.79	68,400	7350	.60	.71	.82	64,300	7710	.61	.73	.84
	2100	77,800	6540	.60	.71	.82	73,900	7010	.61	.73	.84	69,900	7430	.63	.75	.87	65,700	7780	.64	.77	.90
	2400	79,300	6590	.62	.75	.87	75,300	7060	.64	.77	.89	71,100	7480	.65	.79	.92	66,900	7840	.67	.81	.95
71	1800	81,500	6670	.45	.54	.63	77,400	7140	.45	.55	.64	73,300	7580	.45	.55	.66	68,900	7950	.46	.57	.68
	2100	83,300	6730	.45	.56	.66	79,100	7210	.46	.57	.68	74,700	7640	.46	.58	.69	70,200	8010	.47	.59	.72
	2400	84,700	6780	.46	.58	.69	80,400	7260	.47	.59	.71	75,900	7690	.48	.60	.73	71,200	8060	.48	.62	.76

HS17-813V WITH CB15-65 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)			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	1800	68,700	6220	.73	.83	.93	65,400	6650	.74	.85	.95	62,000	7050	.76	.87	.98	58,500	7390	.78	.90	1.00
	2100	70,600	6290	.76	.87	.98	67,200	6730	.78	.89	1.00	63,700	7130	.79	.92	1.00	60,100	7480	.82	.95	1.00
	2400	72,000	6350	.78	.91	1.00	68,600	6800	.80	.93	1.00	65,000	7200	.82	.96	1.00	61,300	7560	.85	.99	1.00
67	1800	73,900	6410	.58	.67	.77	70,400	6860	.59	.69	.79	66,700	7280	.60	.70	.81	62,800	7630	.61	.72	.83
	2100	75,800	6470	.60	.70	.81	72,000	6930	.61	.72	.83	68,100	7340	.62	.74	.85	64,100	7700	.63	.76	.88
	2400	77,100	6520	.61	.73	.85	73,300	6980	.63	.75	.87	69,300	7400	.64	.77	.90	65,100	7750	.66	.79	.93
71	1800	79,400	6600	.45	.53	.62	75,600	7070	.45	.54	.64	71,600	7500	.45	.55	.65	67,400	7870	.46	.56	.67
	2100	81,300	6660	.45	.55	.65	77,200	7140	.46	.56	.67	73,000	7570	.46	.57	.68	68,700	7940	.47	.58	.70
	2400	82,600	6710	.46	.57	.68	78,400	7180	.46	.58	.69	74,200	7620	.47	.59	.71	69,700	7990	.48	.61	.74

HS17-813V WITH C17-95/135V 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	2000	73,300	6410	.75	.86	.96	69,700	6860	.76	.88	.99	65,800	7270	.78	.90	1.00	61,900	7620	.81	.93	1.00
	2500	76,200	6520	.80	.93	1.00	72,400	6970	.82	.95	1.00	68,500	7390	.85	.99	1.00	64,400	7750	.88	1.00	1.00
	3000	78,300	6630	.86	1.00	1.00	74,900	7080	.88	1.00	1.00	71,100	7510	.91	1.00	1.00	67,400	7680	.95	1.00	1.00
67	2000	78,800	6600	.59	.69	.79	74,700	7070	.60	.71	.81	70,600	7490	.61	.72	.84	66,300	7840	.62	.75	.87
	2500	81,400	6690	.62	.74	.86	77,100	7160	.64	.76	.89	72,700	7580	.65	.79	.92	68,200	7940	.67	.81	.95
	3000	83,100	6750	.66	.79	.93	78,700	7220	.67	.82	.96	74,200	7650	.69	.84	.99	69,600	8010	.71	.88	1.00
71	2000	84,500	6800	.45	.54	.64	80,100	7280	.45	.55	.66	75,600	7710	.46	.56	.67	71,100	8090	.46	.58	.69
	2500	87,000	6880	.46	.58	.69	82,500	7360	.47	.59	.71	77,700	7800	.48	.60	.73	72,800	8170	.48	.62	.76
	3000	88,700	6940	.48	.61	.74	83,900	7420	.49	.62	.76	79,100	7860	.49	.64	.79	74,000	8230	.51	.66	.82

HS17-813V WITH CB17-95V OR CBH17-95V 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	2000	73,400	6390	.75	.86	.97	69,800	6840	.77	.88	.99	66,000	7240	.79	.91	1.00	62,100	7590	.81	.94	1.00
	2500	76,300	6490	.81	.93	1.00	72,500	6950	.83	.96	1.00	68,700	7360	.85	.99	1.00	64,700	7730	.88	1.00	1.00
	3000	78,400	6570	.86	1.00	1.00	75,000	7050	.89	1.00	1.00	71,300	7490	.92	1.00	1.00	67,600	7880	.95	1.00	1.00
67	2000	78,700	6570	.59	.70	.80	74,800	7040	.60	.71	.82	70,600	7460	.61	.73	.84	66,400	7810	.63	.75	.87
	2500	81,300	6660	.63	.75	.87	77,100	7130	.64	.77	.89	72,700	7550	.65	.79	.92	68,300	7910	.67	.82	.96
	3000	83,100	6720	.66	.80	.94	78,700	7190	.68	.83	.97	74,200	7620	.70	.85	1.00	69,700	7980	.72	.88	1.00
71	2000	84,400	6760	.45	.55	.64	80,100	7250	.45	.56	.66	75,600	7680	.46	.57	.68	71,100	8050	.46	.58	.70
	2500	86,900	6850	.46	.58	.70	82,300	7330	.47	.59	.71	77,700	7770	.48	.61	.74	72,900	8140	.49	.62	.76
	3000	88,600	6900	.48	.61	.75	83,800	7390	.49	.63	.77	79,000	7820	.50	.65	.79	74,000	8190	.51	.67	.82

COOLING RATINGS

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

HS17-953V WITH C17-95/135V EVAPORATOR UNIT (Low Speed Compressor Operation)

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Condenser Coil (°F)																			
		65					75					85					95				
		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	3000	67,400	3450	.92	1.00	1.00	64,800	3790	.94	1.00	1.00	62,200	4140	.97	1.00	1.00	59,500	4460	1.00	1.00	1.00
	3500	69,600	3490	.98	1.00	1.00	66,800	3840	1.00	1.00	1.00	64,100	4190	1.00	1.00	1.00	61,300	4520	1.00	1.00	1.00
	4000	71,400	3520	1.00	1.00	1.00	68,600	3880	1.00	1.00	1.00	65,800	4230	1.00	1.00	1.00	62,900	4570	1.00	1.00	1.00
67	3000	70,100	3500	.70	.85	1.00	67,000	3840	.71	.88	1.00	63,800	4180	.73	.90	1.00	60,700	4500	.75	.93	1.00
	3500	71,200	3520	.74	.91	1.00	68,000	3860	.75	.94	1.00	64,900	4210	.77	.96	1.00	62,000	4530	.80	.99	1.00
	4000	72,200	3530	.78	.97	1.00	69,300	3880	.80	.99	1.00	65,900	4230	.82	1.00	1.00	63,000	4570	.84	1.00	1.00
71	3000	74,600	3580	.50	.65	.80	71,300	3930	.50	.66	.82	68,000	4280	.51	.68	.84	64,600	4620	.52	.69	.86
	3500	75,500	3600	.52	.68	.85	72,100	3950	.53	.70	.87	68,800	4300	.54	.72	.90	65,400	4640	.55	.74	.93
	4000	76,200	3610	.54	.72	.91	72,800	3970	.55	.74	.93	69,400	4320	.56	.76	.96	66,000	4650	.57	.78	.99

HS17-953V WITH C17-95/135V EVAPORATOR UNIT (Single Speed and High Speed Compressor Operation)

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	3000	93,000	8280	.77	.89	1.00	88,200	8780	.79	.91	1.00	83,500	9220	.81	.94	1.00	78,900	9590	.84	.97	1.00
	3500	95,500	8400	.81	.94	1.00	90,700	8900	.83	.96	1.00	86,200	9350	.85	.99	1.00	81,200	9740	.88	1.00	1.00
	4000	97,800	8500	.85	.99	1.00	92,700	9010	.87	1.00	1.00	88,400	9500	.90	1.00	1.00	84,200	9930	.93	1.00	1.00
67	3000	99,900	8600	.60	.71	.82	94,800	9120	.61	.73	.85	89,800	9570	.63	.75	.87	84,600	9950	.64	.77	.90
	3500	102,100	8700	.63	.75	.87	96,900	9220	.64	.77	.90	91,500	9680	.65	.79	.92	86,300	10,060	.67	.82	.96
	4000	103,800	8780	.65	.79	.92	98,500	9300	.66	.81	.95	93,100	9770	.68	.83	.98	87,800	10,150	.70	.86	1.00
71	3000	107,300	8940	.45	.56	.66	102,100	9480	.46	.57	.68	96,700	9960	.46	.58	.69	91,300	10,360	.47	.59	.71
	3500	109,500	9030	.46	.58	.69	104,000	9570	.47	.59	.71	98,500	10,060	.48	.60	.73	93,000	10,450	.48	.62	.75
	4000	111,200	9110	.48	.60	.73	105,600	9650	.48	.62	.75	10,000	10,130	.49	.63	.77	94,300	10,530	.50	.65	.80

HS17-953V WITH CB17-95V OR CBH17-95V EVAPORATOR UNIT (Low Speed Compressor Operation)

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Condenser Coil (°F)																			
		65					75					85					95				
		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	3000	67,400	3450	.93	1.00	1.00	64,800	3790	.96	1.00	1.00	62,200	4140	.99	1.00	1.00	59,500	4460	1.00	1.00	1.00
	3500	69,700	3490	1.00	1.00	1.00	66,900	3840	1.00	1.00	1.00	64,200	4190	1.00	1.00	1.00	61,400	4520	1.00	1.00	1.00
	4000	71,500	3520	1.00	1.00	1.00	68,600	3880	1.00	1.00	1.00	65,900	4230	1.00	1.00	1.00	62,900	4570	1.00	1.00	1.00
67	3000	69,700	3490	.71	.87	1.00	66,600	3830	.72	.89	1.00	63,500	4170	.74	.92	1.00	60,400	4490	.76	.95	1.00
	3500	70,900	3510	.75	.93	1.00	67,800	3860	.77	.96	1.00	64,700	4200	.79	.99	1.00	61,500	4520	.81	1.00	1.00
	4000	72,000	3530	.80	.99	1.00	68,800	3880	.82	1.00	1.00	66,000	4230	.84	1.00	1.00	63,000	4570	.87	1.00	1.00
71	3000	74,000	3570	.50	.66	.81	70,700	3920	.51	.67	.83	67,500	4270	.52	.69	.86	64,100	4600	.53	.71	.88
	3500	74,900	3590	.53	.70	.87	71,600	3940	.53	.72	.90	68,300	4290	.54	.74	.92	64,900	4620	.56	.76	.95
	4000	75,600	3600	.55	.74	.93	72,300	3960	.56	.76	.96	68,900	4310	.57	.78	.99	65,600	4640	.58	.81	1.00

HS17-953V WITH CB17-95V OR CBH17-95V EVAPORATOR UNIT (Single Speed and High Speed Compressor Operation)

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	3000	92,300	8250	.78	.90	1.00	87,700	8750	.80	.93	1.00	83,100	9190	.83	.96	1.00	78,600	9570	.85	.99	1.00
	3500	95,000	8380	.83	.96	1.00	90,400	8880	.85	.99	1.00	85,500	9330	.87	1.00	1.00	81,400	9750	.90	1.00	1.00
	4000	97,100	8470	.87	1.00	1.00	92,800	9010	.89	1.00	1.00	88,500	9510	.92	1.00	1.00	84,300	9930	.95	1.00	1.00
67	3000	98,800	8550	.61	.73	.84	93,800	9070	.62	.74	.86	88,700	9520	.64	.76	.89	83,800	9900	.65	.79	.92
	3500	101,000	8650	.64	.77	.89	95,900	9170	.65	.79	.92	90,700	9630	.67	.81	.95	85,700	10,010	.68	.84	.98
	4000	102,800	8730	.66	.81	.94	97,500	9260	.68	.83	.97	92,300	9720	.70	.86	1.00	87,100	10,110	.72	.88	1.00
71	3000	106,100	8880	.46	.57	.67	100,900	9420	.46	.58	.69	95,600	9900	.47	.59	.71	90,300	10,300	.47	.60	.73
	3500	108,200	8970	.47	.59	.71	102,800	9520	.48	.60	.73	97,400	10,000	.48	.62	.75	91,900	10,390	.49	.63	.77
	4000	109,800	9050	.48	.62	.75	104,300	9590	.49	.63	.77	98,800	10,070	.49	.65	.79	93,200	10,470	.51	.66	.82

COOLING RATINGS

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

HS17-953V WITH CB17-135V OR CBH17-135V EVAPORATOR UNIT (Low Speed Compressor Operation)

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Condenser Coil (°F)																							
		65						75						85						95					
		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	3000	69,000	3480	.94	1.00	1.00	66,300	3830	.96	1.00	1.00	63,600	4170	.99	1.00	1.00	60,800	4500	1.00	1.00	1.00	1.00	1.00	1.00	
	3500	71,200	3520	1.00	1.00	1.00	68,400	3870	1.00	1.00	1.00	65,600	4220	1.00	1.00	1.00	62,700	4560	1.00	1.00	1.00	1.00	1.00	1.00	
	4000	73,000	3550	1.00	1.00	1.00	70,200	3910	1.00	1.00	1.00	67,300	4260	1.00	1.00	1.00	64,300	4610	1.00	1.00	1.00	1.00	1.00	1.00	
67	3000	71,200	3520	.71	.87	1.00	68,000	3870	.73	.90	1.00	64,900	4210	.74	.92	1.00	61,700	4530	.77	.95	1.00	.95	1.00	1.00	
	3500	72,300	3540	.75	.94	1.00	69,100	3890	.77	.96	1.00	66,100	4230	.79	.99	1.00	62,800	4560	.82	1.00	1.00	1.00	1.00	1.00	
	4000	73,500	3580	.79	1.00	1.00	70,200	3920	.81	1.00	1.00	67,400	4270	.84	1.00	1.00	64,300	4610	.87	1.00	1.00	1.00	1.00	1.00	
71	3000	75,500	3600	.50	.66	.81	72,200	3950	.51	.68	.84	68,800	4310	.52	.69	.86	65,500	4640	.53	.71	.89	.89	1.00	1.00	
	3500	76,500	3610	.53	.70	.88	73,100	3970	.54	.72	.90	69,700	4320	.55	.74	.93	66,200	4660	.56	.76	.96	.96	1.00	1.00	
	4000	77,200	3630	.55	.75	.94	73,800	3990	.56	.77	.96	70,400	4340	.57	.79	.99	66,900	4680	.58	.81	1.00	1.00	1.00	1.00	

HS17-953V WITH CB17-135V OR CBH17-135V EVAPORATOR UNIT (Single Speed and High Speed Compressor Operation)

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	3000	95,400	8400	.78	.90	1.00	90,500	8900	.80	.93	1.00	85,700	9340	.82	.96	1.00	81,000	9720	.85	.99	1.00	1.00	1.00	1.00	
	3500	98,000	8520	.82	.96	1.00	93,100	9020	.85	.98	1.00	88,000	9480	.87	1.00	1.00	83,800	9900	.90	1.00	1.00	1.00	1.00	1.00	
	4000	100,100	8610	.87	1.00	1.00	95,700	9160	.89	1.00	1.00	91,200	9660	.92	1.00	1.00	86,800	10,080	.95	1.00	1.00	1.00	1.00	1.00	
67	3000	102,100	8700	.61	.72	.84	96,900	9220	.62	.74	.86	91,600	9690	.64	.76	.89	86,500	10,070	.65	.79	.92	.92	1.00	1.00	
	3500	104,300	8800	.64	.76	.89	98,900	9320	.65	.78	.92	93,500	9790	.67	.81	.94	88,200	10,170	.68	.83	.98	.98	1.00	1.00	
	4000	106,100	8880	.66	.81	.94	100,600	9410	.68	.83	.97	95,100	9880	.70	.85	1.00	89,700	10,270	.72	.88	1.00	1.00	1.00	1.00	
71	3000	109,600	9040	.46	.56	.67	104,200	9580	.46	.57	.69	98,600	10,060	.47	.59	.71	93,100	10,460	.47	.60	.73	.73	1.00	1.00	
	3500	111,700	9130	.47	.59	.71	106,100	9670	.47	.60	.73	100,400	10,160	.48	.62	.75	94,700	10,550	.49	.63	.77	.77	1.00	1.00	
	4000	113,400	9200	.48	.61	.75	107,600	9750	.49	.63	.77	101,800	10,230	.50	.65	.79	96,000	10,630	.51	.66	.82	.82	1.00	1.00	

HS17-1353V WITH C17-95/135V EVAPORATOR UNIT (Low Speed Compressor Operation)

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Condenser Coil (°F)																							
		65						75						85						95					
		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	3500	86,800	4740	.88	1.00	1.00	82,900	5180	.91	1.00	1.00	79,300	5620	.94	1.00	1.00	75,700	6060	.97	1.00	1.00	1.00	1.00	1.00	
	4000	89,400	4800	.93	1.00	1.00	85,300	5240	.96	1.00	1.00	81,600	5690	.99	1.00	1.00	77,800	6140	1.00	1.00	1.00	1.00	1.00	1.00	
	4500	91,500	4850	.98	1.00	1.00	87,300	5300	1.00	1.00	1.00	83,400	5750	1.00	1.00	1.00	79,600	6200	1.00	1.00	1.00	1.00	1.00	1.00	
67	3500	91,000	4840	.68	.82	.97	86,400	5270	.69	.85	.99	82,000	5710	.71	.87	1.00	77,700	6140	.73	.90	1.00	.90	1.00	1.00	
	4000	92,300	4870	.71	.87	1.00	87,600	5310	.73	.90	1.00	83,100	5740	.75	.93	1.00	78,900	6180	.77	.96	1.00	1.00	1.00	1.00	
	4500	93,300	4900	.74	.92	1.00	88,600	5330	.76	.95	1.00	84,200	5770	.78	.98	1.00	79,700	6210	.81	1.00	1.00	1.00	1.00	1.00	
71	3500	96,600	4970	.49	.63	.77	91,700	5420	.50	.64	.79	87,100	5860	.50	.66	.81	82,600	6310	.51	.68	.84	.84	1.00	1.00	
	4000	97,700	5000	.50	.66	.81	92,800	5440	.51	.68	.84	88,100	5890	.52	.69	.86	83,500	6340	.53	.71	.89	.89	1.00	1.00	
	4500	98,500	5020	.52	.69	.86	93,500	5460	.53	.71	.89	88,800	5910	.54	.73	.91	84,100	6360	.55	.75	.95	.95	1.00	1.00	

HS17-1353V WITH C17-95/135V EVAPORATOR COIL (Single Speed and High Speed Compressor Operation)

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	3500	119,200	11,070	.75	.87	.97	113,300	11,840	.77	.89	1.00	107,700	12,590	.79	.91	1.00	102,300	13,320	.81	.94	1.00	1.00	1.00	1.00	
	4000	122,000	11,220	.78	.91	1.00	116,100	12,000	.80	.93	1.00	110,300	12,770	.82	.96	1.00	104,900	13,500	.85	.99	1.00	1.00	1.00	1.00	
	4500	124,500	11,350	.82	.95	1.00	118,600	12,130	.84	.97	1.00	112,100	12,880	.86	1.00	1.00	107,200	13,670	.88	1.00	1.00	1.00	1.00	1.00	
67	3500	127,900	11,530	.59	.70	.80	121,600	12,330	.60	.71	.82	115,500	13,100	.61	.73	.85	109,500	13,830	.63	.75	.87	.87	1.00	1.00	
	4000	130,500	11,670	.61	.73	.84	124,000	12,480	.62	.74	.86	117,600	13,240	.64	.76	.89	111,500	13,970	.65	.79	.92	.92	1.00	1.00	
	4500	132,500	11,770	.63	.76	.88	125,900	12,570	.64	.78	.91	119,400	13,350	.66	.80	.93	113,200	14,070	.67	.82	.96	.96	1.00	1.00	
71	3500	137,000	12,000	.45	.55	.65	130,400	12,820	.45	.56	.66	124,000	13,620	.46	.57	.68	117,600	14,370	.46	.58	.69	.69	1.00	1.00	
	4000	139,500	12,130	.46	.57	.68	132,800	12,950	.46	.58	.69	126,100	13,750	.47	.59	.71	119,500	14,500	.47	.60	.73	.73	1.00	1.00	
	4500	141,500	12,230	.47	.58	.70	134,600	13,050	.47	.60	.72	127,800	13,850	.48	.61	.74	121,100	14,590	.49	.62	.76	.76	1.00	1.00	

COOLING RATINGS

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

HS17-1353V WITH CB17-135V OR CBH17-135V EVAPORATOR UNIT (Low Speed Compressor Operation)

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Condenser Coil (°F)																			
		65			75			85			95										
		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)							
76	80	84	76	80	84	76	80	84	76	80	84										
63	3500	89,000	4790	.90	1.00	1.00	85,000	5240	.93	1.00	1.00	81,300	5680	.96	1.00	1.00	77,600	6130	.99	1.00	1.00
	4000	91,600	4860	.96	1.00	1.00	87,500	5300	.99	1.00	1.00	83,500	5750	1.00	1.00	1.00	79,700	6210	1.00	1.00	1.00
	4500	93,700	4910	1.00	1.00	1.00	89,500	5360	1.00	1.00	1.00	85,400	5810	1.00	1.00	1.00	81,400	6270	1.00	1.00	1.00
67	3500	92,600	4880	.69	.84	.99	87,800	5310	.71	.87	1.00	83,400	5750	.73	.90	1.00	79,100	6180	.75	.93	1.00
	4000	93,900	4910	.73	.90	1.00	89,100	5350	.75	.92	1.00	84,700	5790	.77	.95	1.00	80,300	6230	.79	.99	1.00
	4500	95,000	4940	.76	.95	1.00	90,300	5370	.78	.98	1.00	85,600	5820	.81	1.00	1.00	81,600	6270	.83	1.00	1.00
71	3500	98,000	5000	.50	.64	.79	93,100	5450	.50	.66	.81	88,400	5900	.51	.68	.84	83,700	6340	.52	.69	.86
	4000	99,000	5030	.51	.68	.84	94,000	5480	.52	.70	.87	89,200	5930	.53	.72	.89	84,600	6370	.54	.74	.92
	4500	99,800	5050	.53	.71	.89	94,800	5500	.54	.73	.92	90,000	5950	.55	.75	.95	85,300	6390	.57	.78	.98

HS17-1353V WITH CB17-135V OR CBH17-135V EVAPORATOR UNIT (Single Speed and High Speed Compressor Operation)

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)							
76	80	84	76	80	84	76	80	84	76	80	84										
63	3500	122,400	11,240	.77	.88	.99	116,400	12,020	.78	.90	1.00	110,600	12,790	.80	.93	1.00	105,000	13,520	.82	.96	1.00
	4000	125,400	11,400	.80	.93	1.00	119,300	12,190	.82	.95	1.00	113,500	12,960	.84	.98	1.00	107,400	13,680	.87	1.00	1.00
	4500	127,900	11,600	.83	.98	1.00	121,700	12,390	.86	.99	1.00	115,900	13,150	.88	1.00	1.00	109,000	13,860	.92	1.00	1.00
67	3500	130,900	11,690	.60	.71	.82	124,400	12,490	.61	.73	.84	118,100	13,270	.62	.74	.86	112,100	13,900	.64	.76	.88
	4000	133,400	11,820	.62	.74	.86	126,800	12,620	.63	.76	.89	120,300	13,400	.65	.78	.91	114,100	14,130	.66	.80	.94
	4500	135,500	11,930	.64	.78	.90	128,800	12,730	.66	.80	.93	122,100	13,510	.67	.82	.96	115,800	14,240	.69	.84	.99
71	3500	140,100	12,160	.45	.56	.66	133,300	12,980	.46	.57	.67	126,600	13,780	.46	.58	.69	120,100	14,530	.47	.59	.71
	4000	142,500	12,280	.46	.58	.69	135,500	13,100	.47	.59	.71	128,700	13,900	.47	.60	.73	122,000	14,650	.48	.61	.75
	4500	144,500	12,380	.47	.60	.72	137,400	13,200	.48	.61	.74	130,300	14,000	.49	.62	.76	123,500	14,740	.49	.64	.78

HS17-1853V WITH CB17-185V OR CBH17-185V EVAPORATOR UNIT (Low Speed Compressor Operation)

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Condenser Coil (°F)																			
		65			75			85			95										
		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)							
76	80	84	76	80	84	76	80	84	76	80	84										
63	5000	132,100	6820	.89	1.00	1.00	126,300	7450	.91	1.00	1.00	120,900	8110	.94	1.00	1.00	115,600	8770	.97	1.00	1.00
	6250	138,100	6930	.98	1.00	1.00	132,100	7580	1.00	1.00	1.00	126,300	8250	1.00	1.00	1.00	120,700	8930	1.00	1.00	1.00
	7500	142,700	7020	1.00	1.00	1.00	136,500	7670	1.00	1.00	1.00	130,500	8350	1.00	1.00	1.00	124,600	9040	1.00	1.00	1.00
67	5000	137,800	6930	.68	.83	.97	131,100	7550	.70	.85	1.00	124,600	8210	.71	.88	1.00	118,300	8850	.73	.91	1.00
	6250	140,700	6980	.74	.92	1.00	133,900	7620	.76	.95	1.00	127,500	8270	.78	.98	1.00	120,900	8930	.81	1.00	1.00
	7500	142,400	7020	.80	1.00	1.00	136,700	7670	.83	1.00	1.00	130,700	8360	.85	1.00	1.00	124,900	9040	.88	1.00	1.00
71	5000	145,600	7070	.49	.63	.78	138,700	7720	.50	.65	.80	132,000	8390	.51	.66	.82	125,500	9060	.52	.68	.85
	6250	148,000	7110	.52	.69	.86	140,800	7760	.53	.71	.89	134,000	8440	.54	.73	.91	127,500	9120	.55	.75	.94
	7500	149,800	7140	.55	.75	.94	142,900	7800	.56	.77	.97	135,800	8480	.58	.79	1.00	129,100	9160	.59	.82	1.00

HS17-1853V WITH CB17-185V OR CBH17-185V EVAPORATOR UNIT (High Speed Compressor Operation)

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)							
76	80	84	76	80	84	76	80	84	76	80	84										
63	5000	183,900	16,490	.75	.86	.97	174,800	17,640	.77	.89	1.00	166,000	18,780	.79	.91	1.00	157,600	19,880	.81	.94	1.00
	6250	190,900	16,810	.81	.94	1.00	181,600	17,990	.83	.96	1.00	172,700	19,140	.85	.99	1.00	163,900	20,290	.88	1.00	1.00
	7500	196,400	17,070	.87	1.00	1.00	188,000	18,310	.89	1.00	1.00	179,700	19,560	.92	1.00	1.00	171,700	20,760	.95	1.00	1.00
67	5000	196,800	17,080	.59	.70	.80	187,000	18,270	.60	.71	.82	177,700	19,440	.61	.73	.84	168,500	20,570	.63	.75	.87
	6250	202,700	17,350	.63	.75	.87	192,800	18,550	.64	.77	.90	182,900	19,730	.65	.79	.92	173,500	20,860	.67	.81	.95
	7500	207,500	17,550	.66	.81	.94	197,100	18,760	.68	.83	.97	187,100	19,960	.70	.85	1.00	177,300	21,100	.72	.88	1.00
71	5000	210,400	17,690	.45	.55	.65	200,400	18,920	.45	.56	.66	190,700	20,150	.46	.57	.68	181,000	21,310	.46	.58	.69
	6250	216,300	17,940	.47	.58	.70	205,900	19,190	.47	.59	.72	195,700	20,410	.48	.61	.74	185,500	21,570	.48	.62	.76
	7500	220,700	18,120	.48	.62	.75	210,000	19,370	.49	.63	.77	199,400	20,600	.50	.65	.79	188,900	21,770	.51	.66	.82

COOLING RATINGS

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

HS17-2753V WITH CB17-275V OR CBH17-275V EVAPORATOR UNIT (Low Speed Compressor Operation)

Enter. Wet Bulb (°F)	Total Air Vol. (cfm)	Outdoor Air Temperature Entering Condenser Coil (°F)																			
		65					75					85					95				
		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	7000	174,500	8830	.92	1.00	1.00	168,300	9740	.94	1.00	1.00	161,900	10,680	.97	1.00	1.00	155,400	11,580	.99	1.00	1.00
	8500	181,300	8990	1.00	1.00	1.00	174,800	9910	1.00	1.00	1.00	168,100	10,850	1.00	1.00	1.00	161,200	11,760	1.00	1.00	1.00
	10,000	186,900	9110	1.00	1.00	1.00	180,000	10,040	1.00	1.00	1.00	173,000	10,980	1.00	1.00	1.00	165,800	11,890	1.00	1.00	1.00
67	7000	180,700	8970	.70	.86	1.00	173,200	9870	.71	.88	1.00	165,900	10,790	.73	.90	1.00	158,200	11,670	.75	.93	1.00
	8500	184,100	9050	.76	.94	1.00	176,700	9960	.77	.96	1.00	169,300	10,870	.79	.99	1.00	161,400	11,760	.81	1.00	1.00
	10,000	187,100	9120	.81	1.00	1.00	180,200	10,050	.83	1.00	1.00	173,300	10,990	.85	1.00	1.00	166,100	11,900	.88	1.00	1.00
71	7000	191,200	9210	.50	.65	.80	183,400	10,120	.51	.67	.82	175,600	11,050	.52	.68	.84	167,500	11,940	.52	.70	.87
	8500	193,900	9270	.53	.70	.88	185,900	10,180	.54	.72	.90	177,900	11,110	.55	.74	.93	169,800	12,010	.56	.76	.96
	10,000	196,000	9310	.56	.76	.96	188,000	10,230	.57	.78	.98	179,900	11,160	.58	.80	1.00	171,700	12,060	.59	.82	1.00

HS17-2753V WITH CB17-275V OR CBH17-275V EVAPORATOR UNIT (High Speed Compressor Operation)

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	7000	245,700	21,870	.77	.88	.99	234,100	23,410	.78	.90	1.00	222,300	24,830	.80	.93	1.00	210,700	26,110	.82	.96	1.00
	8500	253,700	22,270	.82	.95	1.00	242,000	23,800	.84	.97	1.00	229,000	25,220	.86	1.00	1.00	218,600	26,590	.89	1.00	1.00
	10,000	260,300	22,600	.87	1.00	1.00	249,600	24,230	.89	1.00	1.00	238,500	25,760	.92	1.00	1.00	227,600	27,120	.95	1.00	1.00
67	7000	262,500	22,690	.60	.71	.82	249,900	24,240	.61	.73	.84	237,200	25,680	.62	.74	.86	224,800	26,950	.64	.76	.89
	8500	269,100	23,010	.63	.76	.88	256,300	24,560	.65	.78	.91	243,100	26,010	.66	.80	.94	230,200	27,270	.68	.82	.97
	10,000	274,600	23,260	.67	.81	.95	261,300	24,820	.68	.83	.98	248,000	26,260	.70	.86	1.00	234,700	27,540	.72	.88	1.00
71	7000	280,500	23,540	.45	.56	.66	267,500	25,120	.46	.57	.67	254,300	26,590	.46	.58	.69	240,900	27,890	.47	.59	.71
	8500	287,000	23,840	.47	.59	.71	273,500	25,420	.47	.60	.72	259,800	26,880	.48	.61	.74	245,900	28,170	.49	.63	.77
	10,000	292,000	24,060	.48	.62	.75	278,100	25,640	.49	.63	.77	264,000	27,100	.50	.65	.80	249,800	28,380	.51	.67	.82