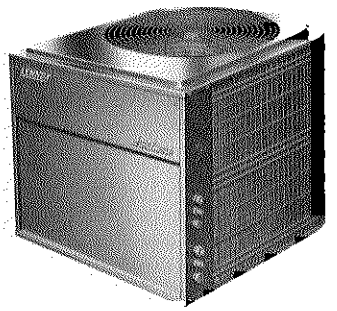
LENNOX®

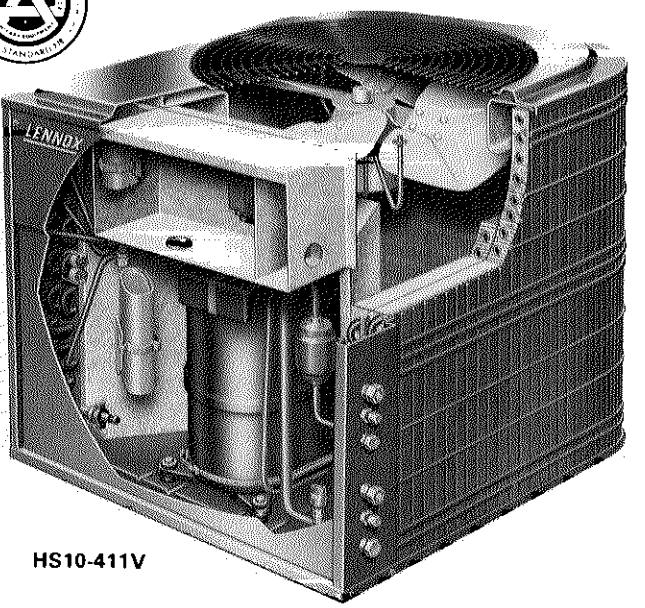
HS10 SERIES CONDENSING UNITS
(2-1/2 – 3 – 3-1/2 – 4 & 5 Nominal Ton)
EXPANSION VALVE AIR CONDITIONING SYSTEM
*25,000 to 59,000 Btuh Cooling Capacity
*ARI Standard 210 Ratings

- Quality Construction
- Low Installation Cost
- Installation Flexibility
- Many Sizes Available
- Factory Assembled
- Durable Long-Life Cabinet
- Complete Service Access
- Large Condenser Coil
- Two Speed Direct Drive Fan
- Reliable and Efficient Compressor
- Refrigerant Lines Available
- Compression Fittings

CERTIFICATION APPLIES ONLY WHEN USED WITH PROPER COMPONENTS AS DESIGNATED BY MANUFACTURER



Cased Unit



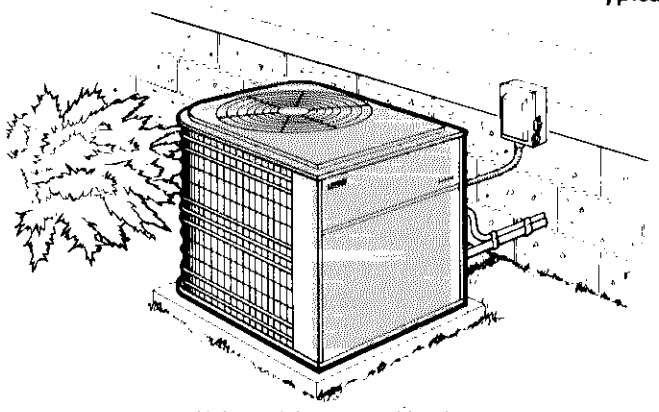
HS10-411V

AN INDEPENDENT LABORATORY TESTING FOR PUBLIC SAFETY

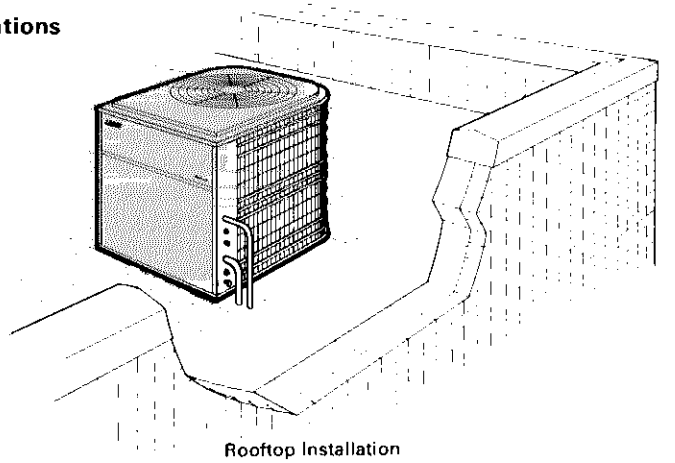
Compact Condensing Unit Design Features Attractive Styling, Efficient Energy Usage And Dependable Operation

The HS10 series condensing units can be installed (singly or in multiples) in residential, apartment, motel and commercial applications. These units are applicable to expansion valve systems only. The low height and upward discharge of air makes it easy to conceal the unit among shrubs on a slab at ground level or out of sight on a roof. Ease of service, extremely quiet operation and maximum Btu's of cooling per watt of power input have been carefully researched and utilized in this line of highly dependable condensing units. A large selection of matching Lennox evaporator units provide a wide range of cooling capacities to meet the requirements of all types of residential and commercial applications. To determine the capacity of a given system select the appropriate refrigerant evaporating temperature balance point between the condensing unit and evaporator unit. Use the condensing unit capacity curves included in this bulletin and the evaporator performance curves furnished with the matching expansion valve evaporator unit bulletin indexed in section Coils-Blower Coil Units. The rugged galvanized steel cabinet has a durable outdoor enamel finish for maximum protection from the weather. Compressor and controls are located in a separate compartment completely isolating them from the weather and also keeping the sound level at a minimum. On-off cycling of compressor crankcase heater reduces energy consumption. Large direct drive fan draws large air volumes through the entire condenser coil quietly and with low power consumption. Vertical discharge of air results in minimum air noise and protects lawns and shrubs from hot air wilt. Two speed fan motor allows operation at low speed for extra quietness while providing the extra air needed when temperatures soar. Wrap-around "U" configuration of condenser coil provides extra large surface area for maximum cooling capacity. Rugged non-corrosive steel wire condenser air discharge grille, condenser coil guard and a deluxe heating-cooling thermostat are furnished. Units are shipped completely factory assembled, piped and wired. In addition, each unit is test operated at the factory insuring proper operation. Installer has only to set condensing unit in desired location, connect refrigerant lines and make necessary field wiring connections to complete the installation.

Typical Applications



Unit on slab at ground level



Rooftop Installation

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

FEATURES

Durable Steel Cabinet — Heavy gauge galvanized steel cabinet is subject to a five station zinc phosphate metal wash process. This preparation process results in a perfect bonding surface for the finish coat of baked-on enamel. The attractive enamel finish gives the cabinet long lasting protection from the weather. Drainage holes are furnished in base section for moisture removal. Base section is equipped with six resilient circular rubber mounts to eliminate vibration and raise the unit off of the mounting surface away from damaging moisture. Non-corrosive PVC (poly vinyl chloride) coated steel wire condenser coil guard is furnished.

Compressor and Controls Compartment — Separate compressor and controls compartment protects all components from weather conditions and keeps sound transmission at a minimum. Large removable access panel provides complete service access and is lined with thick fiberglass insulation.

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

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, overload protected and equipped with internal pressure relief. A crankcase heater is furnished as standard equipment and ensures proper compressor lubrication at all times. Crankcase heater is thermostatically controlled and temperature actuated to operate only when required, reducing energy usage and prolonging heater service life. 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.

Quiet Condenser Air Movement — The condenser air moving compartment contains only the necessary components for air moving. This permits straight-through the coil and vertical discharge of air resulting in minimum restriction and extremely quiet operation. Direct drive fan is equipped with a two speed thermostatically controlled motor. Low speed fan operation provides extra quiet operating sound level. A non-adjustable thermostat, sensing the condensing temperature, will automatically switch the fan to low speed at approximately 75° ambient temperature. Thermostat switches fan to high speed at approximately 90°F ambient temperature when larger air volumes are required. Motor has permanently lubricated ball bearings and is totally enclosed for maximum protection from weather, dust and corrosion. A rain shield on the motor provides additional protection from moisture. Fan service access is accomplished by removal of fan guard. Corrosion resistant PVC coated steel wire fan guard is furnished as standard.

Large Condenser Coil — Lennox designed and fabricated coil is constructed of precisely spaced ripple-edged aluminum fins fitted to copper tubes in a wrap-around "U" shaped configuration providing extra large surface area for maximum strength and contact area. Each joint is silver soldered resulting in leakproof construction. Coil is thoroughly tested under pressure to insure leakproof construction. Entire coil is easily accessible for cleaning.

Refrigerant Line Connections, Electrical Inlets and Service Valves — Suction and liquid line connections are located outside of the cabinet and are made with compression fittings. The suction lines require sweat connections on the HS10-511V and HS10-651V models. Brass service valves prevents corrosion and provides access to refrigerant system. Suction and liquid line service valves and gauge ports are accessible outside of the cabinet on all models with the exception of the HS10-511V and HS10-651V. The suction service valve is located inside the compressor compartment on these models. Refrigerant line connections, service valves and field wiring inlets are all conveniently located in one central area at the service access end of the unit. See dimension drawing for locations.

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.

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

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

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

Solid-State Timed-Off Control — Furnished and factory installed. 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 if off for 5 minutes.

Refrigerant Line Kits — Lines are available in several lengths and must be ordered extra. See Refrigerant Line Kit table for selection and ordering data. The refrigerant lines (suction and liquid) are shipped refrigeration clean. Lines are cleaned, dried and pressurized at the factory and sealed by means of a rubber plug. Plug fits tight enough to hold high pressure in the lines. These plugs should not be removed until connections are ready to be made. Thus the system is assured of completely clean and dry lines for the installation. 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. Compression fittings (nut & ferrule) are furnished with the mating half of the fittings on the condensing unit and are easily removed and adapted to the line set tubing for a leakproof connection. See installation instructions for complete details.

Low Ambient Kit (Optional) — Condensing units will operate satisfactorily down to 35°F outdoor air temperature without any additional controls. For cases where operation of the unit is required below 35°F a Low Ambient Control Kit (BM-3434) can be added in the field, enabling it to operate properly down to 0°F.

Expansion Valve Kits — Must be ordered extra and field installed on evaporator unit. See evaporator unit bulletin for ordering data.

PTC Start Kit (Optional) — Available as optional equipment for field installation in the HS10. Consists of a solid-state PTC (Positive Temperature Coefficient) ceramic thermistor and mounting bracket for quick and simple installation. Thermistor provides extra starting torque to solve most compressor hard starting problems. Switches itself out of the circuit after start-up. For HS10-311V use kit number P-8-10741. All other models use kit number LB-29901CA.

Approvals — Condensing units have been thoroughly tested with matching evaporator units in the Lennox Research Laboratory environmental test room and accurately rated according to ARI Standard 210 conditions. In addition, units have been sound tested in the Lennox reverberant sound test room and rated according to ARI Standard 270. Units coming within the scope of this standard (135,000 Btuh or less) carry the ARI Certification Seal and are Certified under the ARI Certification Program. 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 also U.L. Listed and C.S.A. Approved.

SPECIFICATIONS

Model No.			HS10-311V	HS10-411V	HS10-461V	HS10-511V	HS10-651V
Condenser	Net face area (sq. ft.)	Outer coil	11.8	15.1	15.1	15.1	15.1
		Inner coil	7.8	3.6	7.2	7.2	10.9
	Tube diameter (in.) & No. of rows		3/8 — 1.66	3/8 — 1.24	3/8 — 1.48	3/8 — 1.48	3/8 — 1.72
	Fins per inch		20	20	20	20	20
Condenser Fan	Diameter (in.) & No. of blades		20 — 4	20 — 4	20 — 4	20 — 4	20 — 4
	Motor hp		1/4	1/4	1/4	1/4	1/4
	Cfm (factory setting)		2550	3350	3300	3300	3250
	Rpm (factory setting)		860	1020	1040	1040	1060
	Watts (factory setting)		260	310	310	310	310
**Refrigerant — 22 charge furnished			5 lbs. — 10 oz.	6 lbs. — 10 oz.	8 lbs. — 0 oz.	8 lbs. — 0 oz.	9 lbs. — 3 oz.
Liquid line (o.d. in.) connection			3/8 comp.	3/8 comp.	3/8 comp.	3/8 comp.	3/8 comp.
Suction line (o.d. in.) connection			3/4 comp.	3/4 comp.	7/8 comp.	*1-1/8 sweat	*1-1/8 sweat
Shipping weight (lbs.) 1 Package			218	240	252	277	294

*NOTE — Reducer fitting required for line connection (7/8). Fitting is not furnished and must be provided by the installer.
**Refrigerant charge is sufficient for 25 ft. length line set.

SELECTOR

Condensing Unit Model No. and ★ ARI Standard 270 SRN	*ARI Standard 210 Ratings				Lennox Evaporator Unit		
	Btuh Cooling Capacity	Total Unit Watts	EER (Btuh/ Watts)	Dehumidifying Capacity	Up-Flo	Down-Flo	Horizontal
HS10-311V Cooling (19) Reduced Ambient (18)	25,000	3050	8.2	27%	**CBH8-31FF	----	**CBH8-31FF
	26,500	3150	8.4	26%	**CB11-41FF	----	**CB11-41FF
	27,000	3150	8.6	29%	----	CR4-41FF	CH3-41FF
		3100	8.7	23%	C5-495FF	----	----
	28,000	3150	8.9	29%	**CB10-41	**CB10-41	**CB10-41
	29,000	3150	9.2	24%	C5-620FF	----	----
HS10-411V Cooling (19) Reduced Ambient (18)	32,000	4050	7.9	32%	**CB11-41FF	----	**CB11-41FF
	33,000	3800	8.7	29%	----	CR4-41FF	CH3-41FF
	33,500	3900	8.6	26%	C5-495FF	----	----
	34,000	3900	8.7	28%	----	----	CH3-51FF
		3850	8.8	24%	C5-620FF	----	----
	34,500	4000	8.6	27%	----	CR4-51FF	----
	35,000	3900	9.0	29%	**CB10-41	**CB10-41	**CB10-41
	36,000	4100	8.8	28%	**CB10-51	**CB10-51	**CB10-51
HS10-461V Cooling (18) Reduced Ambient (18)	37,500	4500	8.3	33%	----	CR4-41FF	CH3-41FF
		4550	8.2	32%	**CB10-41	**CB10-41	**CB10-41
	38,000	4550	8.4	33%	----	----	CH3-51FF
	39,000	4650	8.4	25%	C5-620FF	----	----
	40,000	4650	8.6	30%	----	CR4-51FF	----
		4750	8.4	31%	**CB10-51	**CB10-51	**CB10-51
		4600	8.7	23%	C5-805V	----	----
HS10-511V Cooling (18) Reduced Ambient (17)	50,000	6200	8.1	27%	C5-620FF	----	----
	51,000	6100	8.4	30%	----	----	CH3-51FF
	52,000	6200	8.4	28%	----	CR4-51FF	----
	53,000	6200	8.5	29%	----	----	CH3-65FF, LSH2-500FF
		6300	8.4	25%	C5-805V	----	----
	54,000	6400	8.4	27%	**CB10-51	**CB10-51	**CB10-51
HS10-651V Cooling (18) Reduced Ambient (18)	54,000	7200	7.5	29%	C5-620FF	----	----
	55,000	7300	7.5	30%	----	----	CH3-51FF
	56,000	7500	7.5	27%	C5-805V	----	----
	58,000	7800	7.4	24%	C5-920V	----	----
	††58,000	7600	7.6	29%	----	CR4-65FF	CH3-65FF LSH2-500FF
	††59,000	7800	7.6	28%	**CB10-65	**CB10-65	**CB10-65

*Rated in accordance with ARI Standard 210; 450 cfm evaporator air volume per ton of cooling, 95F outdoor air temperature, 80 db/67 wb entering evaporator air with 25' of connecting refrigerant lines.
**Denotes blower powered evaporator.
★Rated in accordance with ARI Standard 270.
††Derate 1,000 Btuh and 100 watts for 208 volt operation.

REFRIGERANT LINE KITS

Condensing Unit Model No.	Line Set Model No.	Length of Suction & Liquid Lines (ft.)	Liquid Line (o.d. in.)	Suction Line (o.d. in.)
HS10-311V HS10-411V	L10-41-20	20	3/8	3/4
	L10-41-30	30		
	L10-41-40	40		
	L10-41-50	50		
HS10-461V HS10-511V HS10-651V	L10-65-30	30	3/8	7/8
	L10-65-40	40		
	L10-65-50	50		

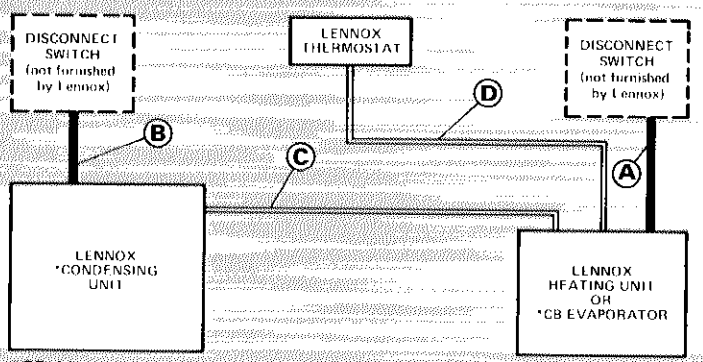
NOTE — Specify correct line kit model number when ordering.

ELECTRICAL DATA

Model No.		HS10-311V	HS10-411V	HS10-461V	HS10-511V	HS10-651V
Line voltage data		208/230v 60hz — 1ph	230v 60hz — 1ph	230v 60hz — 1ph	208/230v 60hz — 1ph	208/230v 60hz — 1ph
Compressor	Rated load amps	13.3	14.7	17.1	27.3	31.0
	Power factor	.96	.96	.96	.95	.93
	Locked rotor amps	61.0	75.0	88.0	132.0	165.0
Condenser fan motor	Full load amps	2.1	2.1	1.4	1.4	1.4
	Locked rotor amps	4.5	4.5	2.4	2.4	2.4
*Minimum circuit ampacity		18.8	20.5	22.8	35.5	40.2

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

FIELD WIRING



*CB blower-coil evaporator unit applications require a separate 20 VA (minimum rating) transformer.

A — Two wire power (not furnished)

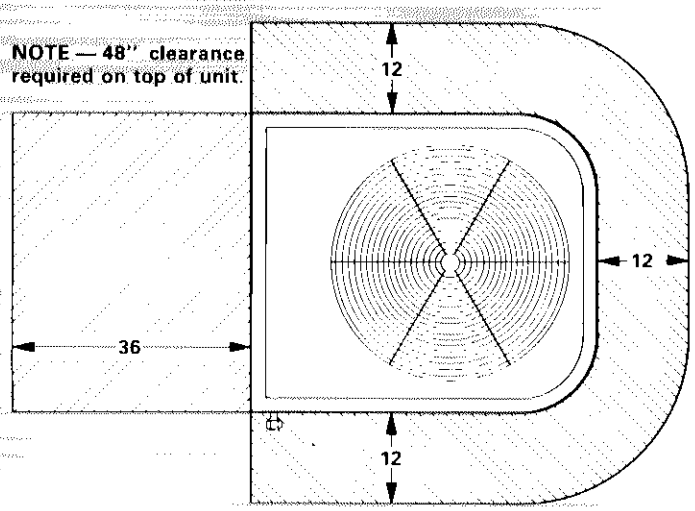
B — Two wire power (not furnished) — See electrical data

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.

INSTALLATION CLEARANCES (inches)



RATINGS

HS10-311V CONDENSING UNIT

Evaporator Unit Model No.	Evaporator Air 80F Dry Bulb		Outdoor Air Temperature Entering Condenser (F)												
	Entering Wet Bulb Degrees (F)	Total Air Volume (cfm)	85			95			105			115		
			Total Cooling Capacity (Btuh)	Sensible To Total Ratio (S/T)	Comp. Motor Watts Input	Total Cooling Capacity (Btuh)	Sensible To Total Ratio (S/T)	Comp. Motor Watts Input	Total Cooling Capacity (Btuh)	Sensible To Total Ratio (S/T)	Comp. Motor Watts Input	Total Cooling Capacity (Btuh)	Sensible To Total Ratio (S/T)	Comp. Motor Watts Input
CR4-41FF CH3-41FF	63	1000	28,800	.82	2190	27,200	.85	2380	25,600	.88	2530	23,900	.91	2720
		1125	29,200	.86	2210	27,500	.89	2400	25,900	.92	2550	24,200	.95	2750
		1250	29,500	.90	2240	27,900	.90	2420	26,200	.95	2580	24,500	.98	2780
	67	1000	30,700	.65	2290	29,000	.68	2460	27,200	.70	2650	25,500	.73	2900
		1125	31,000	.69	2310	29,300	.71	2480	27,500	.74	2670	25,700	.77	2930
		1250	31,300	.72	2330	29,500	.74	2500	27,700	.77	2700	25,900	.81	2950
	71	1000	32,600	.50	2380	30,800	.51	2560	29,000	.53	2760	27,100	.54	3050
		1125	32,900	.52	2400	31,100	.53	2590	29,200	.55	2790	27,300	.57	3080
		1250	33,200	.54	2420	31,300	.55	2610	29,400	.59	2810	27,500	.60	3120
CBH8-31FF	63	1000	27,400	.84	2090	25,900	.87	2250	24,400	.90	2370	22,900	.93	2600
		1125	27,700	.88	2110	26,200	.91	2280	24,700	.94	2400	23,200	.97	2630
		1250	28,000	.92	2130	26,500	.95	2300	25,000	.98	2420	23,400	1.00	2660
	67	1000	29,100	.68	2170	27,500	.70	2370	25,800	.72	2500	24,200	.75	2750
		1125	29,400	.71	2190	27,800	.73	2400	26,100	.76	2530	24,400	.79	2780
		1250	29,600	.74	2210	28,000	.76	2430	26,300	.79	2550	24,600	.82	2810
	71	1000	30,800	.52	2250	29,200	.54	2490	27,500	.55	2610	25,700	.57	2900
		1125	31,100	.54	2280	29,400	.56	2520	27,700	.57	2640	25,900	.59	2930
		1250	31,400	.56	2300	29,700	.58	2540	28,100	.60	2670	26,100	.62	2960
CB10-41	63	1000	30,100	.83	2190	28,300	.86	2410	26,600	.90	2550	24,900	.94	2700
		1125	30,400	.87	2220	28,700	.90	2440	26,900	.94	2570	25,200	.97	2720
		1250	30,700	.91	2240	29,000	.94	2470	27,100	.97	2590	25,500	1.00	2750
	67	1000	31,900	.66	2280	30,200	.68	2510	28,300	.70	2640	26,500	.73	2870
		1125	32,300	.69	2300	30,500	.71	2520	28,700	.74	2660	26,800	.77	2900
		1250	32,600	.70	2320	39,900	.74	2540	28,900	.78	2680	27,000	.81	2920
	71	1000	33,900	.50	2370	32,000	.51	2560	30,100	.53	2750	28,200	.54	3000
		1125	34,300	.52	2390	32,400	.53	2580	30,400	.55	2780	28,400	.57	3050
		1250	34,600	.54	2400	32,700	.55	2600	30,700	.57	2810	28,600	.61	3070
CB11-41FF	63	1000	28,400	.86	2190	26,900	.89	2330	25,400	.92	2490	23,800	.95	2720
		1125	28,800	.90	2210	27,300	.93	2360	25,700	.95	2500	24,100	.98	2740
		1250	29,100	.94	2240	27,600	.96	2390	26,600	.98	2510	24,400	1.00	2770
	67	1000	30,300	.68	2270	28,600	.70	2450	27,000	.73	2610	25,300	.76	2860
		1125	30,600	.71	2290	28,900	.74	2470	27,300	.77	2630	25,500	.80	2870
		1250	30,900	.74	2300	29,200	.77	2490	27,500	.80	2650	25,700	.83	2880
	71	1000	32,100	.52	2360	30,400	.54	2550	28,700	.55	2730	26,900	.57	2990
		1125	32,500	.53	2370	30,700	.55	2570	28,900	.57	2750	27,100	.59	3020
		1250	32,700	.55	2390	31,000	.57	2590	29,200	.59	2770	27,300	.61	3050
CH3-51FF	63	1000	29,500	.83	2190	27,900	.86	2390	26,200	.89	2600	24,500	.92	2850
		1125	29,900	.87	2220	28,200	.90	2410	26,500	.93	2620	24,900	.96	2880
		1250	30,200	.91	2240	28,600	.94	2430	26,900	.96	2650	25,100	.99	2910
	67	1000	31,400	.66	2290	29,700	.69	2480	27,900	.71	2730	26,100	.74	3010
		1125	31,800	.70	2310	30,100	.72	2500	28,200	.75	2750	26,400	.78	3040
		1250	32,000	.73	2330	30,300	.75	2520	28,500	.78	2780	26,600	.82	3070
	71	1000	33,400	.51	2380	31,600	.52	2590	29,700	.54	2840	27,800	.55	3170
		1125	33,700	.53	2400	31,900	.54	2620	30,000	.56	2870	28,000	.58	3200
		1250	34,100	.55	2420	32,200	.56	2640	30,200	59	2890	28,300	.61	3240
C5-620FF	63	1000	29,900	.90	2100	28,200	.92	2360	26,500	.95	2570	24,800	.95	2820
		1125	30,300	.92	2110	28,600	.94	2380	26,900	.97	2590	25,100	1.00	2850
		1250	30,700	.94	2210	29,000	.99	2400	27,200	1.00	2620	25,400	1.00	2880
	67	1000	31,900	.73	2260	30,100	.75	2450	28,300	.78	2700	26,500	.81	2980
		1125	32,300	.75	2280	30,500	.78	2470	28,600	.80	2720	26,800	.82	3010
		1250	32,700	.78	2300	30,800	.81	2490	28,900	.86	2750	27,000	.90	3040
	71	1000	34,000	.56	2350	32,100	.56	2560	30,100	.58	2810	28,000	.60	3140
		1125	34,400	.58	2370	32,400	.60	2680	30,400	.61	2840	28,500	.63	3170
		1250	34,700	.60	2390	32,700	.62	2810	30,700	.64	2860	28,700	.67	3210
C5-495FF	63	1000	28,000	.89	2180	26,400	.91	2320	24,700	.93	2480	23,000	.96	2600
		1125	28,600	.92	2200	26,800	.94	2360	25,100	.96	2490	23,500	.99	2660
		1250	29,200	.93	2210	27,500	.98	2410	25,700	.99	2510	24,000	1.00	2680
	67	1000	30,000	.72	2170	28,200	.74	2430	26,600	.76	2570	25,000	.79	2720
		1125	30,800	.75	2290	29,000	.78	2450	27,100	.81	2590	25,600	.83	2760
		1250	31,100	.78	2310	29,400	.80	2470	27,600	.83	2610	25,900	.88	2780
	71	1000	31,800	.55	2330	30,100	.56	2490	28,300	.57	2660	26,600	.59	2800
		1125	32,600	.57	2340	30,900	.59	2520	29,000	.61	2700	27,200	.63	2830
		1250	33,000	.60	2380	31,200	.61	2540	29,400	.63	2720	27,700	.65	2850

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

RATINGS

HS10-411V CONDENSING UNIT

Evaporator Unit Model No.	Evaporator Air 80F Dry Bulb		Outdoor Air Temperature Entering Condenser (F)												
			85			95			105			115		
	Entering Wet Bulb Degrees (F)	Total Air Volume (cfm)	Total Cooling Capacity (Btuh)	Sensible To Total Ratio (S/T)	Comp. Motor Watts Input	Total Cooling Capacity (Btuh)	Sensible To Total Ratio (S/T)	Comp. Motor Watts Input	Total Cooling Capacity (Btuh)	Sensible To Total Ratio (S/T)	Comp. Motor Watts Input	Total Cooling Capacity (Btuh)	Sensible To Total Ratio (S/T)	Comp. Motor Watts Input
CR4-41FF CH3-41FF	63	1200	33,400	.83	2720	32,000	.85	2910	30,600	.87	3100	29,400	.90	3280
		1350	33,800	.87	2750	32,400	.90	2930	31,100	.92	3120	29,800	.94	3310
		1500	34,200	.89	2780	32,800	.93	2960	31,500	.96	3140	30,200	.98	3340
	67	1200	35,600	.65	2840	34,200	.67	3050	32,900	.69	3250	31,600	.71	3470
		1350	36,000	.69	2870	34,600	.71	3090	33,300	.73	3290	31,900	.75	3500
		1500	36,300	.70	2870	34,900	.74	3130	33,600	.76	3330	32,200	.78	3570
	71	1200	37,900	.50	2930	36,500	.51	3200	35,200	.53	3420	33,800	.54	3660
		1350	33,300	.50	2960	36,900	.54	3230	35,600	.55	3450	34,200	.56	3700
		1500	38,600	.54	3000	37,300	.56	3260	36,900	.57	3490	34,500	.59	3740
CB10-41	63	1200	35,100	.83	3730	33,700	.86	2940	32,400	.89	3130	31,000	.92	3350
		1350	35,600	.87	3750	34,200	.90	2970	32,900	.93	3170	31,400	.96	3400
		1500	36,000	.91	3780	35,700	.94	3000	33,400	.97	3210	31,900	.99	3450
	67	1200	37,500	.66	3860	36,100	.67	3070	34,800	.70	3310	33,300	.73	3510
		1350	38,000	.68	3890	36,600	.71	3110	35,200	.73	3360	33,800	.76	3610
		1500	38,400	.71	3900	37,000	.74	3140	35,600	.77	3400	34,200	.80	3660
	71	1200	40,000	.49	3970	38,500	.51	3190	37,100	.52	3470	35,800	.54	3740
		1350	40,500	.51	4000	39,000	.53	3200	37,600	.55	3500	36,200	.57	3780
		1500	40,900	.53	4020	39,400	.55	3250	37,900	.57	3540	36,500	.59	3830
CB11-41FF	63	1200	32,400	.81	2910	31,400	.84	3090	30,000	.87	3270	28,900	.90	3440
		1350	33,100	.85	2950	31,900	.83	3120	30,500	.91	3310	29,300	.94	3480
		1500	33,500	.89	2980	32,300	.92	3160	30,900	.95	3350	29,700	.98	3520
	67	1200	34,900	.62	3060	33,500	.64	3260	32,000	.67	3450	31,000	.69	3650
		1350	35,300	.65	3100	33,900	.68	3290	32,600	.70	3480	31,300	.73	3700
		1500	35,600	.68	3130	34,200	.71	3320	32,900	.74	3510	31,600	.77	3740
	71	1200	37,100	.49	3200	35,800	.50	3390	34,400	.51	3600	33,100	.53	3850
		1350	37,500	.51	3230	36,300	.52	3420	34,800	.54	3630	33,500	.56	3890
		1500	37,800	.52	3260	36,800	.54	3450	35,100	.56	3660	33,800	.58	3920
CH3-51FF	63	1200	34,400	.84	2770	32,900	.86	2960	31,500	.89	3170	30,200	.91	3310
		1350	34,900	.89	2880	33,400	.91	2990	32,000	.93	3210	30,600	.95	3430
		1500	35,300	.93	2830	33,100	.94	3020	32,500	.96	3250	31,100	.98	3470
	67	1200	36,800	.67	2900	35,400	.69	3110	34,000	.71	3360	32,100	.73	3610
		1350	37,300	.70	2930	35,900	.72	3140	34,400	.74	3400	33,000	.76	3640
		1500	37,700	.73	2960	36,300	.75	3170	34,800	.77	3430	33,400	.79	3690
	71	1200	39,400	.51	3020	37,900	.53	3240	36,500	.54	3510	35,100	.55	3770
		1350	39,800	.54	3040	38,400	.55	3260	37,000	.56	3550	35,510	.57	3810
		1500	40,200	.56	3060	38,800	.57	3280	37,300	.58	3580	35,800	.59	3850
CB10-51	63	1200	36,500	.84	2890	35,000	.87	3100	33,600	.91	3300	32,300	.95	3490
		1350	37,000	.89	2920	35,500	.92	3130	34,000	.96	3330	32,700	.98	3520
		1500	37,400	.93	2950	35,900	.96	3160	34,500	1.00	3370	33,100	1.00	3560
	67	1200	39,100	.66	3020	37,600	.69	3250	36,400	.71	3490	34,700	.74	3710
		1350	39,500	.69	3050	38,100	.72	3270	36,500	.75	3510	35,100	.79	3750
		1500	39,900	.72	3080	38,500	.75	3300	36,900	.79	3540	35,500	.80	3800
	71	1200	41,600	.50	3140	40,200	.52	3370	38,600	.54	3620	37,200	.50	3880
		1350	42,100	.52	3160	40,600	.54	3390	39,100	.56	3650	37,600	.58	3920
		1500	42,500	.54	3180	41,000	.56	3410	39,500	.58	3680	37,900	.61	3960
CR4-51FF	63	1200	35,000	.86	2890	33,600	.88	3080	32,300	.91	3200	30,900	.94	3490
		1350	35,500	.90	2910	34,100	.92	3110	32,700	.94	3320	31,300	.98	3440
		1500	35,900	.93	2940	34,500	.95	3140	33,200	.98	3330	31,800	1.00	3560
	67	1200	37,400	.69	3010	35,900	.70	3220	34,600	.71	3480	33,200	.74	3710
		1350	37,800	.71	3040	36,400	.73	3250	35,000	.75	3520	33,600	.77	3750
		1500	38,200	.75	3070	36,800	.76	3280	35,400	.79	3550	34,000	.80	3790
	71	1200	39,800	.53	3130	38,500	.54	3330	37,000	.54	3640	35,600	.56	3890
		1350	40,300	.55	3150	38,900	.56	3360	37,500	.56	3680	36,000	.58	3940
		1500	40,700	.56	3180	39,300	.57	3390	37,900	.58	3710	36,500	.60	3980
C5-495FF	63	1200	33,400	.87	2680	31,800	.93	2860	30,400	.94	3020	29,000	.96	3340
		1350	34,200	.92	2700	32,700	.95	2920	31,300	.96	3040	29,900	.99	3380
		1500	35,200	.94	2720	33,600	.96	2980	32,100	.98	3110	30,500	1.00	3420
	67	1200	36,000	.72	2760	34,500	.73	2980	33,100	.78	3160	31,700	.79	3510
		1350	37,100	.74	2780	35,600	.76	3010	34,100	.80	3220	32,600	.82	3550
		1500	37,400	.75	2800	35,900	.79	3180	34,500	.82	3250	32,600	.84	3590
	71	1200	38,800	.57	2820	37,200	.58	3290	34,800	.59	3410	34,100	.60	3720
		1350	39,200	.58	2960	37,600	.59	3220	35,300	.60	3410	33,800	.61	3740
		1500	39,600	.59	3000	38,100	.60	3200	36,100	.61	3480	34,600	.62	3780
C5-620FF	63	1200	34,600	.88	2740	33,200	.93	2930	31,900	.94	3150	32,500	1.00	3390
		1350	35,100	.93	2760	33,700	.96	2960	32,300	.97	3180	31,000	1.00	3410
		1500	35,500	.95	2790	34,100	.99	2990	32,700	1.00	3210	31,400	1.00	3450
	67	1200	36,900	.74	2860	35,600	.75	3070	34,200	.77	3320	32,700	.78	3560
		1350	37,400	.76	2890	36,000	.79	3100	34,600	.81	3360	33,200	.83	3600
		1500	37,800	.81	2920	36,400	.83	3130	35,000	.77	3390	33,500	.88	3640
	71	1200	39,400	.56	2980	37,800	.57	3180	35,500	.58	3480	35,000	.59	3740
		1350	37,900	.59	3000	38,200	.60	3210	35,900	.61	3520	35,400	.62	3790
		1500	40,400	.61	3030	38,600	.63	3240	36,300	.64	3550	35,700	.65	3830

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

RATINGS

HS10-461V CONDENSING UNIT

Evaporator Unit Model No.	Evaporator Air 80F Dry Bulb		Outdoor Air Temperature Entering Condenser (F)												
	Entering Wet Bulb Degrees (F)	Total Air Volume (cfm)	85			95			105			115		
			Total Cooling Capacity (Btuh)	Sensible To Total Ratio (S/T)	Comp. Motor Watts Input	Total Cooling Capacity (Btuh)	Sensible To Total Ratio (S/T)	Comp. Motor Watts Input	Total Cooling Capacity (Btuh)	Sensible To Total Ratio (S/T)	Comp. Motor Watts Input	Total Cooling Capacity (Btuh)	Sensible To Total Ratio (S/T)	Comp. Motor Watts Input
CR4-41FF CH3-41FF	63	1400	38,400	.78	3240	36,400	.80	3490	34,500	.82	3710	32,500	.84	3930
		1575	38,700	.82	3270	36,900	.84	3530	35,100	.86	3750	33,000	.88	3970
		1750	39,400	.86	3290	37,400	.88	3500	35,400	.90	3790	33,600	.92	4010
	67	1400	40,900	.61	3350	39,000	.63	3620	37,700	.65	3910	35,100	.68	4140
		1575	41,400	.65	3400	39,400	.67	3650	37,400	.69	3950	35,400	.71	4170
		1750	41,800	.68	3440	39,700	.70	3610	37,700	.72	3990	35,700	.75	4220
	71	1400	43,600	.47	3490	41,600	.48	3790	39,600	.49	4090	37,600	.50	4330
		1575	44,200	.49	3510	42,100	.50	3830	40,100	.51	4130	38,100	.52	4370
		1750	44,500	.51	3530	42,500	.52	3850	40,300	.53	4170	38,300	.55	4410
CB10-41	63	1400	38,900	.80	3420	37,000	.82	3550	35,100	.85	3800	33,100	.88	4000
		1575	39,500	.84	3440	37,500	.86	3600	35,500	.89	3830	33,600	.92	4010
		1750	40,000	.87	3460	37,900	.90	3630	36,000	.93	3860	34,000	.96	4080
	67	1400	41,800	.64	3530	39,500	.65	3690	37,600	.67	3490	35,600	.69	4220
		1575	42,100	.66	3580	40,000	.68	3730	38,000	.70	4030	36,000	.72	4260
		1750	42,400	.69	3620	40,300	.71	3790	38,300	.73	4070	36,300	.75	4300
	71	1400	44,200	.49	3670	42,200	.50	3870	40,200	.51	3960	38,200	.52	4400
		1575	44,600	.50	3690	42,700	.51	3900	40,600	.53	4200	38,600	.54	4440
		1750	45,100	.52	3710	43,000	.53	3930	40,900	.54	4250	38,900	.56	4480
CH3-51FF	63	1400	39,400	.78	3290	37,400	.81	3520	35,400	.83	3800	33,500	.86	4040
		1575	40,000	.82	3310	37,900	.84	3560	35,900	.86	3840	34,000	.89	4080
		1750	40,500	.85	3350	38,300	.87	3620	36,400	.81	3870	34,400	.92	4120
	67	1400	42,100	.62	3440	40,000	.64	3700	38,000	.65	3990	36,000	.68	4250
		1575	42,600	.65	3480	40,500	.67	3740	38,400	.68	4030	36,400	.71	4280
		1750	42,900	.67	3520	40,800	.69	3780	38,800	.71	4090	36,700	.74	4320
	71	1400	44,800	.47	3610	42,700	.48	3810	39,700	.49	4180	38,700	.50	4450
		1575	45,400	.49	3650	43,200	.50	3920	41,100	.51	4210	39,100	.52	4480
		1750	45,700	.50	3600	43,500	.52	3950	41,400	.53	4250	39,400	.54	4520
CB10-51	63	1400	41,600	.82	3370	39,400	.85	3640	37,300	.88	3900	35,200	.91	4240
		1575	42,200	.87	3400	39,900	.89	3680	37,800	.92	3940	35,800	.95	4280
		1750	42,700	.92	3440	40,500	.93	3720	38,300	.95	3990	36,300	.99	4330
	67	1400	44,300	.64	3560	42,100	.66	3840	40,000	.68	4120	37,900	.71	4380
		1575	44,900	.67	3590	42,700	.69	3870	40,500	.72	4150	38,400	.75	4410
		1750	45,400	.70	3630	43,100	.73	3910	41,000	.75	4190	38,800	.78	4430
	71	1400	47,300	.47	3720	45,100	.49	4030	42,900	.50	4300	40,800	.52	4560
		1575	47,800	.49	3750	45,600	.51	4040	43,400	.53	4330	41,300	.54	4590
		1750	48,300	.50	3780	46,000	.53	4070	43,800	.55	4360	41,600	.58	4620
CR4-51FF	63	1400	40,500	.82	3340	38,300	.84	3600	36,300	.87	3840	34,400	.91	4100
		1575	40,600	.86	3360	38,900	.88	3650	36,800	.91	3880	34,900	.95	4120
		1750	40,700	.90	3390	39,400	.92	3690	37,300	.94	3930	35,300	.99	4150
	67	1400	42,300	.65	3480	41,000	.67	3770	39,000	.69	4060	37,100	.71	4290
		1575	43,700	.68	3530	41,500	.70	3790	39,400	.72	4100	37,400	.74	4330
		1750	44,100	.71	3590	41,900	.73	3820	39,800	.75	4140	37,800	.77	4380
	71	1400	45,900	.50	3680	43,700	.51	3950	41,700	.52	4250	39,700	.53	4510
		1575	46,300	.52	3730	44,200	.53	4010	42,200	.54	4290	40,100	.55	4540
		1750	46,800	.53	3760	44,600	.55	4050	42,500	.56	4320	40,400	.58	4590
C5-805V	63	1400	40,900	.95	3290	38,800	.97	3560	36,700	.99	3690	34,700	1.00	4230
		1575	41,500	.98	3310	39,300	.99	3600	37,200	1.00	3730	35,200	1.00	4290
		1750	42,000	.99	3340	39,800	1.00	3640	38,700	1.00	3780	35,700	1.00	4350
	67	1400	43,600	.75	3430	41,500	.77	3700	39,400	.79	3910	37,400	.83	4400
		1575	44,200	.78	3480	42,000	.81	3720	39,900	.83	3950	37,800	.85	4450
		1750	44,600	.79	3520	42,400	.84	3770	40,300	.86	4010	38,200	.89	4550
	71	1400	46,500	.57	3630	44,300	.59	3900	42,200	.60	4100	40,100	.61	4650
		1575	47,000	.60	3670	44,800	.61	3950	42,700	.64	4140	40,900	.65	4700
		1750	47,400	.62	3710	45,200	.63	4000	43,100	.65	4170	41,000	.67	4760
C5-620FF	63	1400	38,200	.92	3200	37,600	.93	3560	35,100	.96	3700	33,200	.98	4010
		1575	40,400	.94	3380	38,300	.96	3660	36,100	.99	3850	34,100	1.00	4060
		1750	41,400	.96	3450	39,200	.98	3710	37,000	1.00	3900	34,900	1.00	4180
	67	1400	42,000	.73	3470	39,900	.74	3760	37,200	.77	3950	35,700	.80	4160
		1575	43,100	.75	3520	41,000	.77	3810	38,900	.80	4000	36,700	.83	4190
		1750	44,000	.78	3540	41,800	.80	3860	39,700	.83	4050	37,500	.86	4210
	71	1400	44,300	.58	3560	42,200	.59	3910	40,100	.60	4150	38,000	.62	4460
		1575	45,400	.60	3680	43,100	.61	3960	41,000	.63	4250	38,900	.65	4360
		1750	46,500	.62	3760	44,200	.63	4030	42,200	.65	4370	40,000	.66	4430

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

RATINGS

HS10-511V CONDENSING UNIT

Evaporator Unit Model No.	Evaporator Air 80F Dry Bulb		Outdoor Air Temperature Entering Condenser (F)											
			85			95			105			115		
	Entering Wet Bulb Degrees (F)	Total Air Volume (cfm)	Total Cooling Capacity (Btuh)	Sensible To Total Ratio (S/T)	Comp. Motor Watts Input	Total Cooling Capacity (Btuh)	Sensible To Total Ratio (S/T)	Comp. Motor Watts Input	Total Cooling Capacity (Btuh)	Sensible To Total Ratio (S/T)	Comp. Motor Watts Input	Total Cooling Capacity (Btuh)	Sensible To Total Ratio (S/T)	Comp. Motor Watts Input
CR4-51FF	63	1600	51,600	.84	4740	48,600	.87	4950	45,600	.90	5270	42,600	.93	5580
		1800	52,400	.87	4780	49,400	.90	4990	46,400	.93	5320	43,400	.90	5650
		2000	53,100	.90	4810	50,100	.93	5020	47,000	.96	5350	41,000	.99	5680
	67	1600	55,400	.67	4910	52,600	.69	5230	49,500	.71	5610	46,600	.73	5870
		1800	56,400	.70	4950	53,300	.72	5260	50,400	.74	5640	47,300	.76	5930
		2000	57,300	.72	5000	54,100	.74	5280	51,100	.77	5670	48,000	.79	5970
	71	1600	59,300	.53	4130	56,200	.54	5400	53,100	.55	5710	50,100	.56	6100
		1800	60,200	.54	4120	57,100	.55	5440	54,000	.56	5800	50,900	.58	6160
		2000	61,000	.55	5150	57,900	.57	5470	54,800	.58	5890	51,600	.60	6200
CH3-51FF	63	1600	50,900	.82	4550	47,800	.84	4870	44,900	.87	5160	41,800	.90	5410
		1800	51,700	.85	4620	48,700	.88	4910	45,400	.91	5230	42,600	.93	5450
		2000	52,400	.88	4650	49,400	.91	4950	46,300	.93	5270	43,300	.96	5500
	67	1600	54,500	.66	4740	51,600	.67	5050	48,600	.69	5410	45,600	.72	5680
		1800	55,500	.68	4780	52,400	.70	5090	49,300	.72	5450	46,300	.75	5720
		2000	56,400	.71	4820	53,200	.73	5130	50,100	.75	5500	47,100	.78	5770
	71	1600	58,500	.51	4910	55,400	.52	5220	52,300	.54	5640	49,300	.55	5900
		1800	59,500	.53	4950	56,400	.54	5260	53,100	.55	5710	50,000	.57	5950
		2000	60,300	.54	4980	57,200	.56	5300	53,900	.57	5720	50,800	.59	6000
CB10-51	63	1600	53,100	.85	5100	50,000	.88	6340	46,900	.91	5610	43,700	.94	6050
		1800	54,100	.89	5140	50,900	.92	5370	47,800	.95	5660	44,500	.98	6120
		2000	54,900	.93	5180	51,600	.96	5400	48,400	.99	5740	45,200	1.00	6170
	67	1600	57,400	.68	5290	54,300	.70	5610	51,100	.72	5880	48,000	.74	6330
		1800	58,400	.71	5330	55,200	.73	5650	51,900	.75	5930	48,700	.78	6370
		2000	59,200	.73	5370	56,000	.76	5680	52,700	.79	5980	49,400	.81	6420
	71	1600	61,200	.53	5450	57,900	.54	5770	54,600	.55	6090	51,400	.56	6540
		1800	62,300	.54	5490	59,000	.55	5810	55,600	.57	6150	52,400	.58	6600
		2000	63,100	.57	5520	59,800	.57	5840	56,300	.59	6190	53,100	.61	6710
CH3-65FF LSH2-500FF	63	1600	52,400	.83	4660	49,300	.85	4960	46,200	.88	5000	43,100	.91	5670
		1800	53,400	.86	4710	50,300	.88	5011	47,000	.91	5050	43,900	.95	5720
		2000	54,200	.89	4750	51,400	.91	5050	47,800	.95	5700	44,600	.99	5750
	67	1600	55,200	.67	4830	53,400	.68	5140	49,900	.70	5830	46,800	.72	5890
		1800	57,100	.69	4870	54,400	.71	5180	50,800	.73	5880	47,700	.75	5950
		2000	58,100	.71	4910	55,000	.73	5220	51,800	.75	5930	48,600	.78	6000
	71	1600	60,200	.52	5000	56,900	.53	5370	53,800	.54	6050	50,700	.55	6130
		1800	61,200	.54	5040	58,000	.55	5410	54,800	.56	6100	51,600	.57	6180
		2000	61,100	.55	5070	58,900	.56	5440	55,700	.57	6150	52,600	.59	6230
C5-620FF	63	1600	48,300	.86	4870	46,700	.88	5050	43,700	.92	5410	40,800	.95	5670
		1800	50,000	.88	4910	48,300	.89	5100	45,300	.93	5470	42,200	.96	5770
		2000	51,400	.93	4920	49,600	.94	5150	46,600	.96	5500	43,500	1.00	5820
	67	1600	52,100	.71	5120	50,400	.72	5260	47,600	.74	5520	44,600	.77	5970
		1800	54,000	.73	5270	52,300	.74	5330	49,300	.76	5720	46,200	.79	6020
		2000	55,500	.76	5320	53,700	.78	5430	50,700	.80	5950	47,600	.83	6120
	71	1600	55,800	.54	5370	54,100	.55	5500	51,100	.56	5970	48,000	.57	6170
		1800	57,600	.57	5530	55,800	.58	5550	52,800	.59	6020	49,800	.60	6270
		2000	59,200	.58	5690	57,300	.59	5600	54,200	.61	6100	51,000	.62	6370
C5-805V	63	1600	50,000	.90	4680	48,200	.92	5010	45,300	.95	5300	42,300	.99	5670
		1800	51,800	.93	4720	50,000	.95	5130	46,900	.98	5450	43,700	1.00	5740
		2000	53,000	.96	4780	51,200	.98	5190	48,100	.99	5510	44,800	1.00	5860
	67	1600	54,000	.72	4940	52,200	.73	5210	49,200	.75	5640	46,100	.77	5980
		1800	57,000	.73	4970	53,800	.76	5280	50,800	.78	5690	47,700	.80	6050
		2000	57,100	.76	4980	55,200	.77	5380	52,100	.80	5740	48,800	.82	6120
	71	1600	57,700	.55	5040	55,800	.56	5400	52,800	.58	5790	49,700	.59	6170
		1800	59,600	.56	5120	57,700	.58	5510	54,600	.59	5900	51,400	.61	6340
		2000	61,000	.58	5160	59,000	.59	5590	55,800	.60	5980	52,600	.62	6360

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

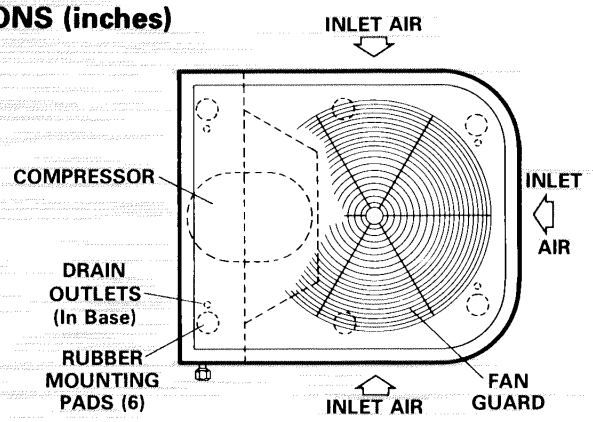
HS10-651V CONDENSING UNIT

Evaporator Unit Model No.	Evaporator Air 80F Dry Bulb		Outdoor Air Temperature Entering Condenser (F)											
			85			95			105			115		
	Entering Wet Bulb Degrees (F)	Total Air Volume (cfm)	Total Cooling Capacity (Btuh)	Sensible To Total Ratio (S/T)	Comp. Motor Watts Input	Total Cooling Capacity (Btuh)	Sensible To Total Ratio (S/T)	Comp. Motor Watts Input	Total Cooling Capacity (Btuh)	Sensible To Total Ratio (S/T)	Comp. Motor Watts Input	Total Cooling Capacity (Btuh)	Sensible To Total Ratio (S/T)	Comp. Motor Watts Input
CH3-51FF	63	2000	57,900	.81	5730	53,900	.83	5960	50,200	.86	6300	46,400	.90	6600
		2250	58,700	.85	5800	54,600	.87	5970	50,900	.90	6380	47,000	.94	6710
		2500	59,300	.88	5840	55,200	.90	6020	51,400	.93	6430	47,500	.97	6750
	67	2000	61,300	.65	5980	57,400	.67	6210	53,700	.70	6660	49,800	.72	6990
		2250	62,200	.68	6040	58,200	.70	6280	54,400	.72	6720	50,500	.75	7190
		2500	62,900	.70	6100	58,900	.73	6340	55,000	.75	6780	51,000	.78	7250
	71	2000	64,900	.51	6230	61,000	.52	6520	57,200	.54	7000	53,300	.55	7520
		2250	65,900	.53	6290	61,900	.54	6590	57,900	.56	7060	54,000	.57	7610
		2500	66,500	.54	6340	62,600	.56	6660	58,600	.57	7140	54,600	.59	7690
CR4-65FF CH3-65FF LSH2-500FF	63	2000	60,800	.83	5880	56,700	.85	6010	52,800	.87	6460	48,800	.91	6850
		2250	61,600	.86	5980	57,500	.88	6180	53,600	.91	6540	49,500	.95	6900
		2500	62,300	.88	6000	58,200	.91	6240	54,200	.95	6600	50,100	.99	6920
	67	2000	64,100	.67	6220	60,100	.68	6480	56,300	.71	6800	52,300	.73	7020
		2250	65,000	.69	6280	60,900	.71	6540	57,000	.73	6870	53,000	.76	7120
		2500	65,800	.71	6330	61,700	.73	6640	57,700	.76	6930	53,700	.79	7350
	71	2000	67,900	.53	6480	63,800	.54	6840	59,900	.55	7260	55,900	.56	7650
		2250	68,700	.54	6540	64,700	.55	6910	60,600	.57	7320	56,500	.58	7700
		2500	69,600	.55	6590	65,500	.57	6980	61,400	.58	7400	57,300	.60	7800
CB10-65	63	2000	61,800	.87	5900	57,400	.90	6280	53,600	.94	6650	49,700	.98	6970
		2250	62,300	.91	5980	58,200	.94	6400	54,400	.98	6730	50,300	1.00	7140
		2500	63,000	.95	6020	58,900	.98	6500	55,000	1.00	6800	50,900	1.00	7150
	67	2000	64,200	.70	6250	61,300	.72	6720	57,300	.76	7270	53,400	.78	7420
		2250	65,200	.73	6300	62,100	.75	6780	58,100	.78	7320	54,100	.81	7480
		2500	68,000	.76	6400	62,800	.78	6800	58,800	.82	7400	54,600	.85	7550
	71	2000	68,700	.54	6500	64,700	.56	6980	60,600	.57	7420	56,700	.59	7780
		2250	69,500	.56	6600	65,600	.58	7100	61,500	.59	7480	57,400	.62	7900
		2500	70,300	.58	6700	66,200	.59	7200	62,200	.62	7520	58,000	.64	7950
C5-620FF	63	2000	57,300	.92	5700	53,500	.95	5980	51,600	.97	6400	47,600	.99	6750
		2250	58,800	.96	5800	54,200	.99	6070	52,900	1.00	6450	49,100	1.00	6850
		2500	60,100	.98	5900	54,800	1.00	6120	54,100	1.00	6500	50,200	1.00	6900
	67	2000	61,000	.73	5960	57,200	.75	6360	55,300	.77	6800	51,600	.79	7150
		2250	62,800	.76	6080	58,100	.78	6550	56,700	.80	6900	52,900	.83	7300
		2500	64,000	.80	6200	59,000	.83	6750	57,900	.84	6950	54,000	.87	7400
	71	2000	64,600	.57	6220	61,100	.58	6770	58,700	.58	7100	55,000	.60	7460
		2250	66,300	.60	6310	62,000	.61	6870	60,300	.62	7250	56,400	.63	7700
		2500	67,600	.62	6360	62,500	.64	6940	61,400	.64	7300	57,500	.66	7900
C5-805V	63	2000	58,900	.91	5830	54,600	.95	6200	53,100	.96	6500	49,200	1.00	6840
		2250	60,600	.95	5900	55,300	.98	6260	54,300	1.00	6650	50,300	1.00	6950
		2500	61,200	.98	5950	56,000	1.00	6340	55,700	1.00	6700	51,200	1.00	7000
	67	2000	62,800	.73	6100	58,700	.75	6540	56,900	.76	6750	53,100	.76	7180
		2250	64,100	.75	6250	59,500	.79	6600	58,000	.80	6900	54,100	.84	7220
		2500	65,100	.78	6300	60,200	.82	6660	59,000	.82	7100	54,900	.86	7460
	71	2000	66,300	.56	6450	62,400	.58	6870	60,300	.58	7200	56,300	.61	7700
		2250	67,600	.58	6520	63,600	.60	6970	61,500	.60	7400	57,500	.63	7800
		2500	68,800	.60	6560	64,100	.61	7010	62,600	.63	7500	58,600	.65	7850
C5-920V	63	2000	60,200	.91	5900	55,600	.96	6250	54,200	.98	6650	50,250	1.00	6900
		2250	61,200	.96	5960	56,600	.98	6340	55,100	.99	6710	51,200	1.00	7120
		2500	62,100	1.00	5990	57,100	1.00	6410	55,800	1.00	6800	51,700	1.00	7150
	67	2000	64,000	.72	6200	60,000	.75	6680	57,900	.76	7250	54,000	.78	7400
		2250	65,000	.76	6280	61,000	.78	6720	58,800	.80	7300	54,800	.83	7450
		2500	65,800	.79	6330	61,500	.82	6790	59,700	.83	7350	55,700	.86	7500
	71	2000	67,600	.55	6460	63,900	.57	7000	61,500	.58	7400	57,500	.60	7750
		2250	68,700	.58	6540	64,800	.59	7060	62,500	.61	7460	58,400	.62	7890
		2500	69,400	.60	6610	65,700	.61	7140	63,200	.63	7510	59,100	.65	8000

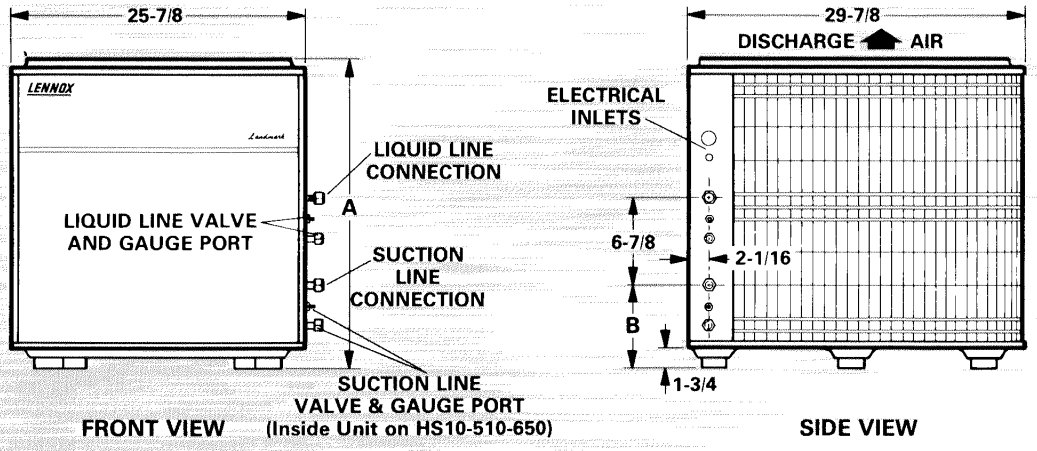
NOTE — All values are gross capacities and do not include evaporator coil blower motor heat deduction.

DIMENSIONS (inches)

Model No.	A	B
HS10-311V	27-1/2	7
HS10-411V HS10-461V HS10-511V HS10-651V	34-1/2	7-3/4



TOP VIEW

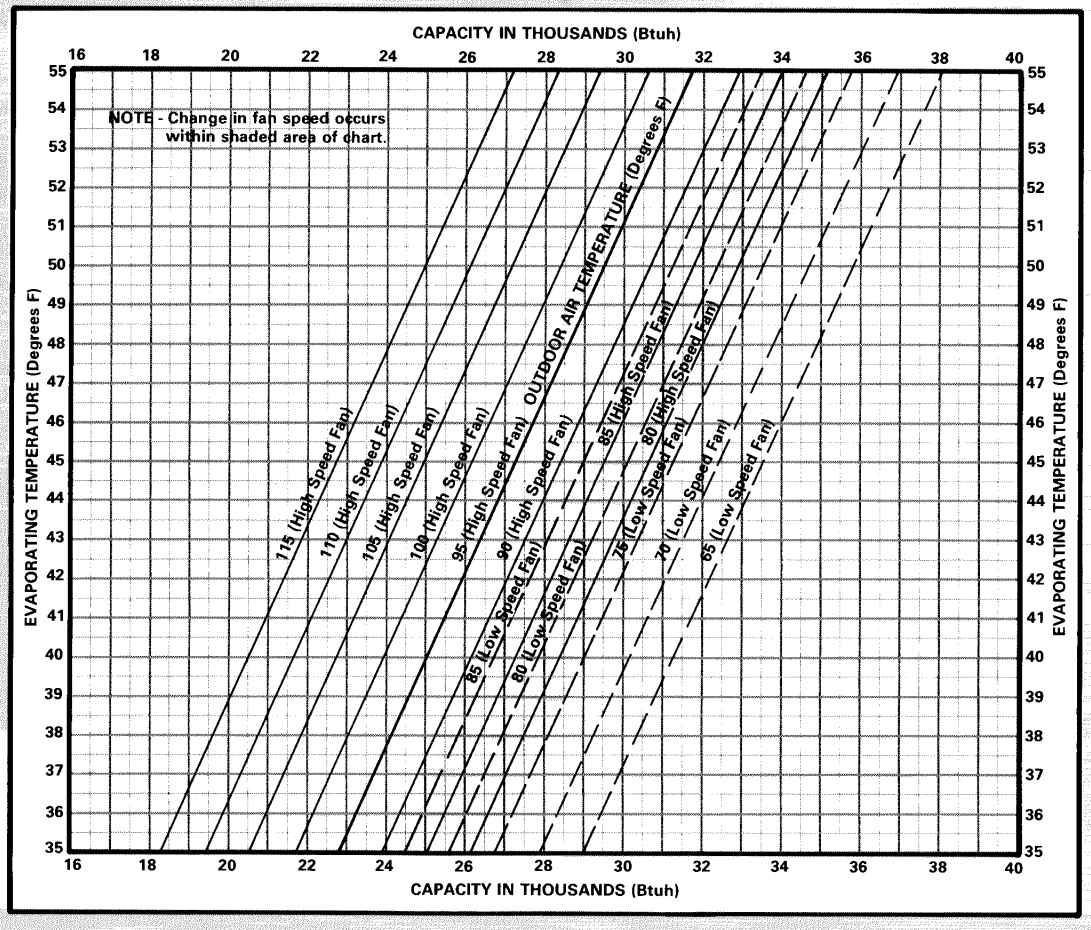


FRONT VIEW

SIDE VIEW

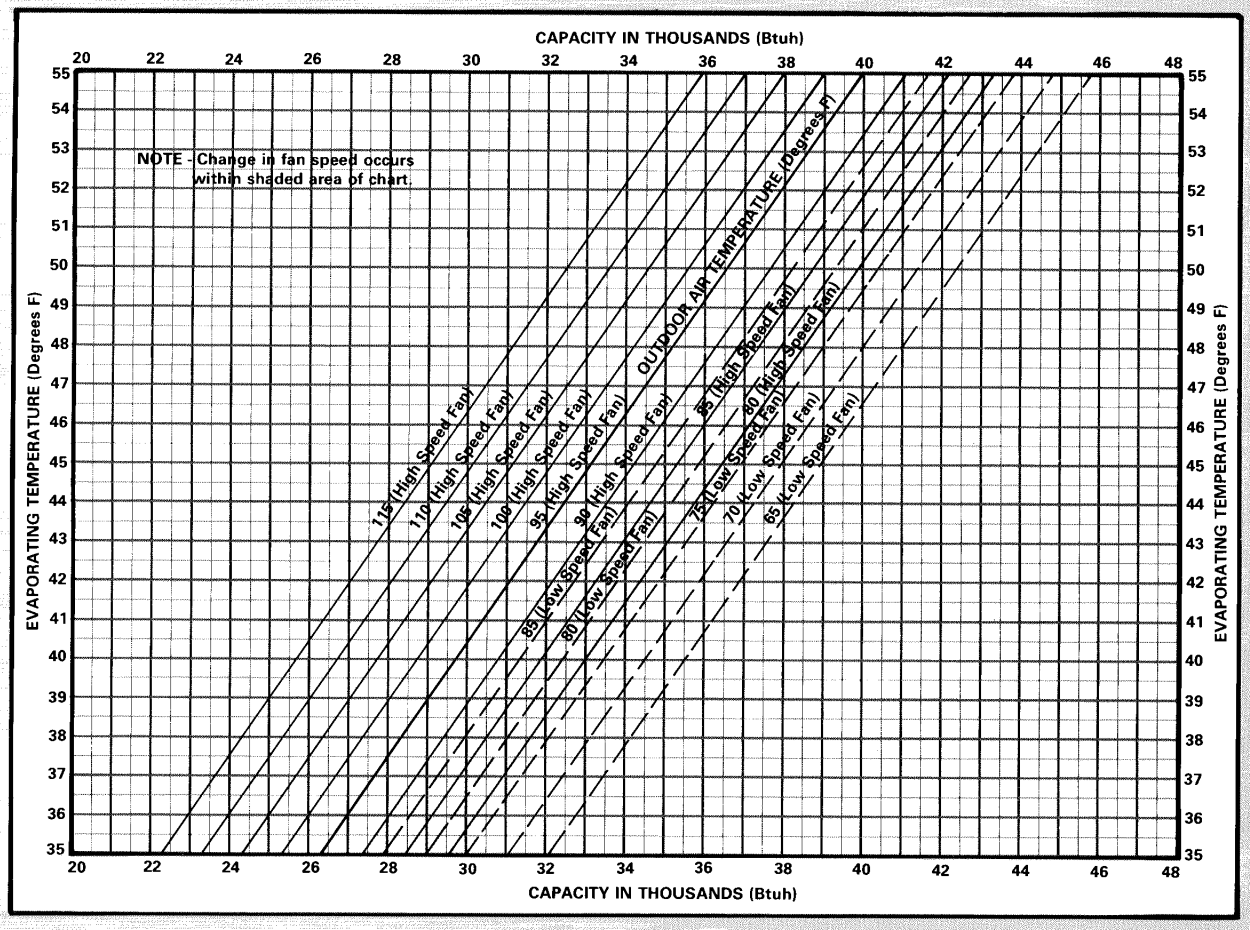
PERFORMANCE CURVES

HS10-311V CAPACITY CURVES

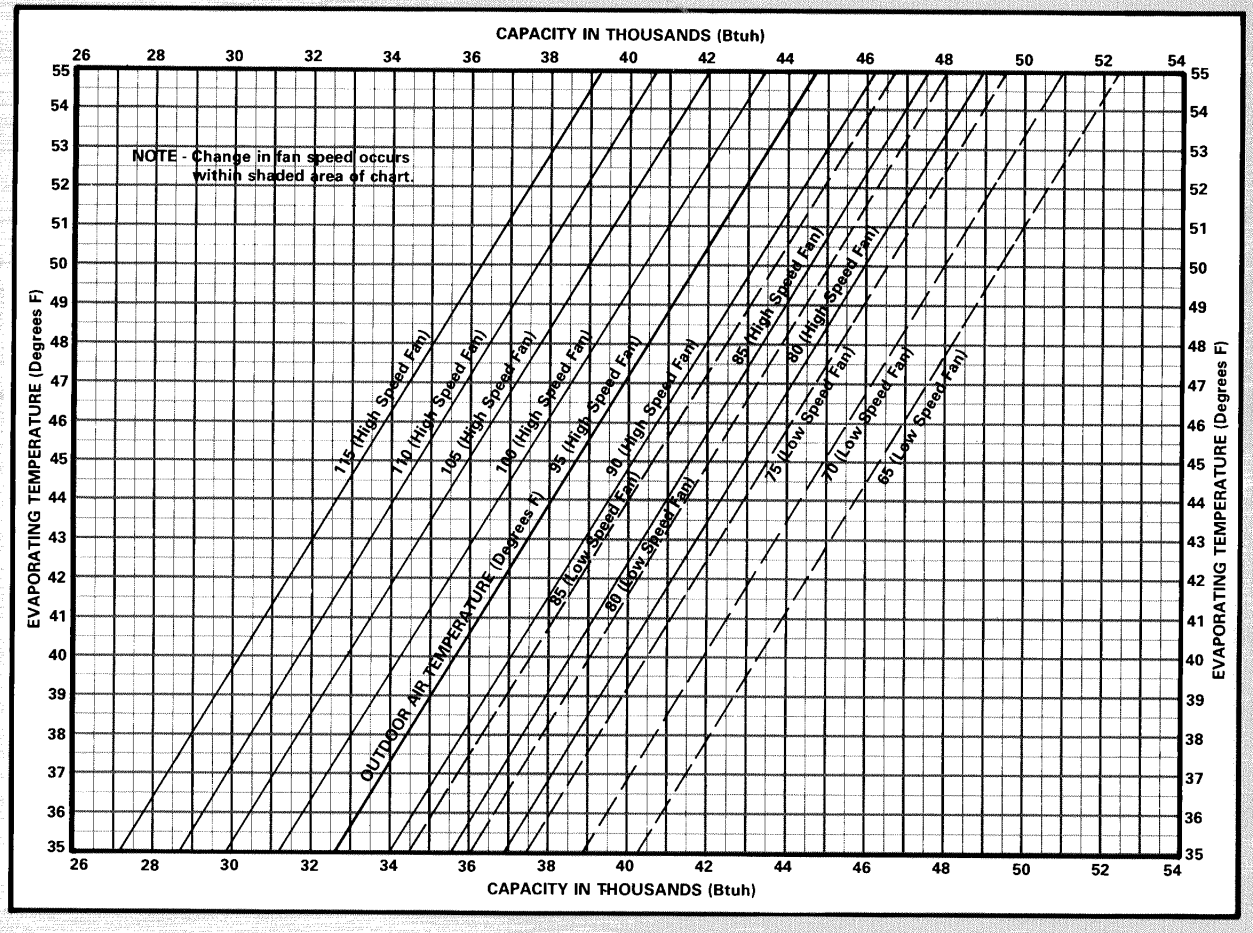


PERFORMANCE CURVES

HS10-411V CAPACITY CURVES

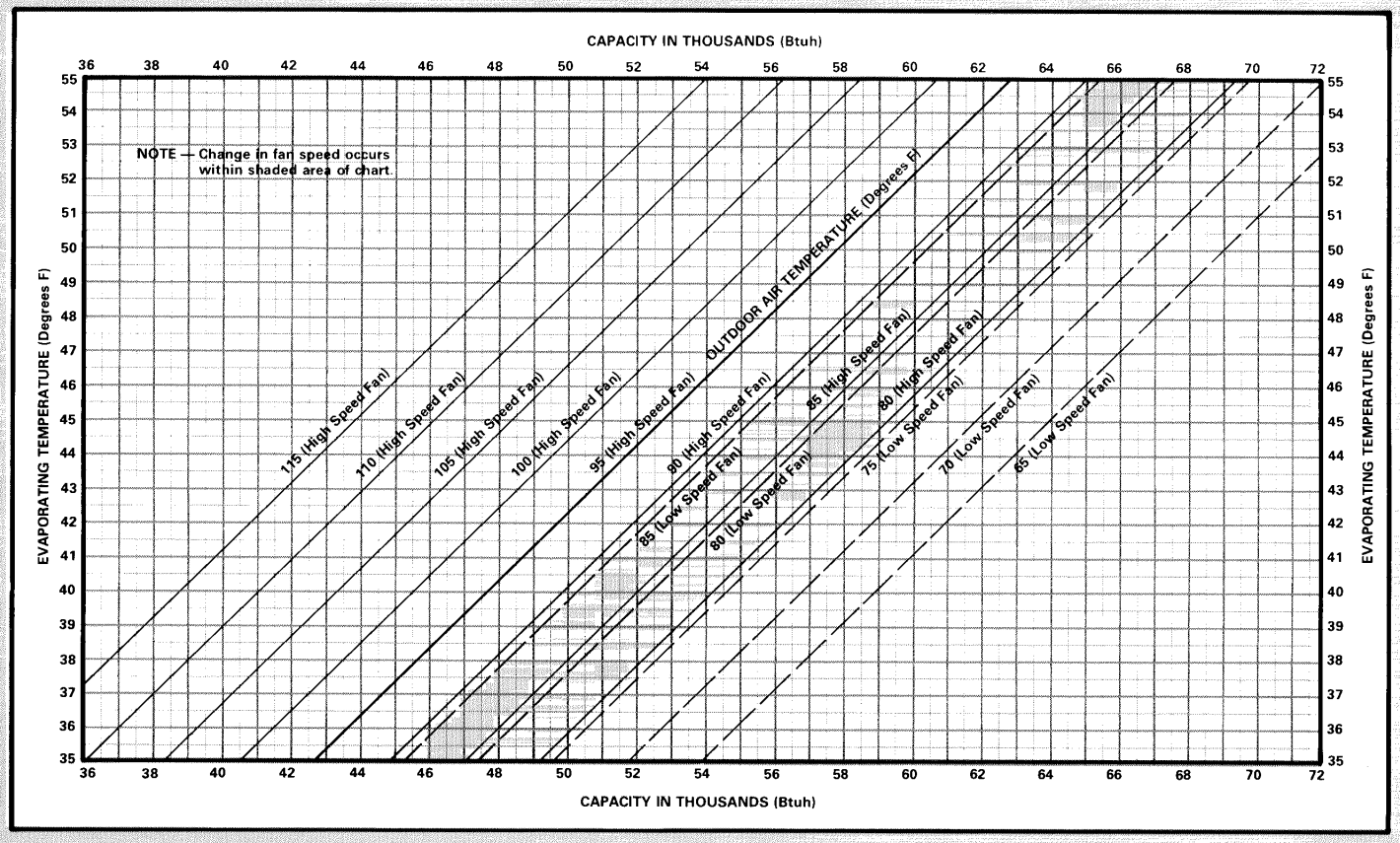


HS10-461V CAPACITY CURVES



PERFORMANCE CURVES

HS10-511V CAPACITY CURVES



HS10-651V CAPACITY CURVES