LENNOX®

ENGINEERING DATA

HS23 SERIES CONDENSING UNITS
EXPANSION VALVE SYSTEMS
10.10 to 12.05 SEER
*11,100 to 65,500 Btuh (3.3 to 19.2 kW) Cooling Capacity
1 thru 5 Tons (3.5 to 17.6 kW)

HS23 TXV

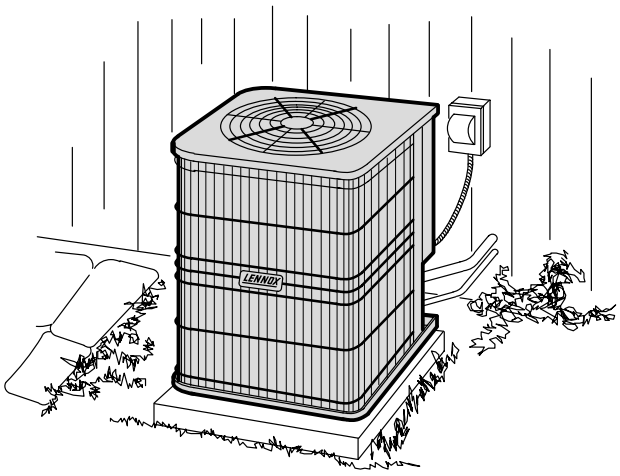
Bulletin No. 210033
April 1994
Supersedes September 1993

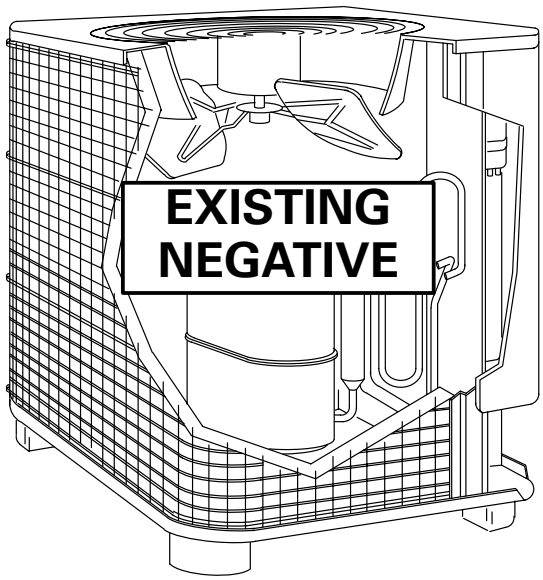
*ARI and DOE Certified Ratings

CERTIFICATION APPLIES ONLY WHEN THE COMPLETE SYSTEM IS LISTED WITH ARI

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

Typical Application





FEATURES

Application — HS23 series condensing units feature high efficiency with minimum operating sound levels. Extra large condensing coil, coil circuiting and high condenser air volume result in high SEER's. Units are applicable to expansion valve systems and may be installed at ground level or on a roof. Units match up to a variety of blower powered or add-on evaporators for a wide selection of cooling capacities for selective sizing and application versatility. For evaporator unit data, see tab Coils — Blower Coil Units in this section. Units are shipped completely assembled, piped and wired. Each unit is test operated at the factory to insure proper operation. Installer has only to set unit in desired location, connect refrigerant lines and make electrical connections to complete a low cost installation.

Approvals — Condensing units have been tested in the Lennox Research Laboratory environmental test room and rated according to U.S. Department of Energy (DOE) test procedures and in accordance with ARI Standard 210/240-89. Units have been sound rated in the Lennox reverberant sound test room in accordance with ARI Standard 270-84. Condensing units and components within are bonded for grounding to meet safety standards for servicing required by U.L., N.E.C. and C.E.C. Units are U.L. listed and C.S.A. certified.

Equipment Warranty — Compressor has a limited warranty for five years. All other covered components have a limited warranty for five years in residential installations and one year in non-residential installations. Refer to the Lennox Equipment Limited Warranty certificate included with the unit for details.

Weather Resistant Cabinet and Base Section — Heavy gauge galvanized steel cabinet and base section are subjected to a five station metal wash process prior to a finish coat application of baked-on outdoor enamel. Attractive enamel finish provides the cabinet and base section with long lasting protection from rust and corrosion. Drainage holes are provided in the base section for moisture removal. High density polyethylene base supports raise the unit off of the mounting surface away from damaging moisture.

Accessible Control Box — Conveniently located for easy access. All controls are pre-wired at the factory.

High Capacity Drier — Furnished for field installation. Drier traps any moisture or dirt that could contaminate the refrigerant system.

Copper Tube/Enhanced Fin Outdoor Coil — Lennox designed and fabricated coil is constructed of precisely spaced ripple-edged aluminum fins machine fitted to seamless copper tubes. Four-sided wrap-around coil configuration provides extra large surface area with low air resistance. Lanced fins provide maximum exposure of the fin surface to air stream resulting in excellent heat transfer. Fins are equipped with collars that grip the tubing for maximum contact area. Precise circuiting provides uniform refrigerant distribution for high efficiency. Flared shoulder tubing connections and silver soldering result in tight, leakproof joints. Long-life copper tubing is corrosion-resistant and easy to field service. Coil is factory tested under high pressure to insure leakproof construction. Entire coil is accessible for cleaning. Corrosion-resistant PVC coated steel wire condenser coil guard is furnished as standard.

Dependable and Quiet Compressor — Compressor is hermetically sealed and provides trouble-free operation and long service life. Built-in protection devices assure protection from excessive current and temperatures. Refrigeration cooled and overload protected. HS23-141 is equipped with a rotary compressor. HS23-460-510-650 models are furnished with a crankcase heater as standard equipment to ensure proper compressor lubrication at all times. Heater is temperature actuated to operate only when required. The compressor components are spring mounted within the sealed housing. In addition, the compressor is installed in the unit on resilient rubber mounts for quiet and vibration free operation. Muffler, factory installed in discharge line, reduces operating sound levels on HS23-410-460-510-650 models.

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

Refrigerant Line Connections, Electrical Inlets and Service Valves — Suction and liquid line connections are located outside of the unit cabinet and are made with sweat connections. Fully serviceable brass service valves prevent corrosion and provide easy access to refrigerant system. Suction valve can be fully shut off, while the liquid valve may be backseated to manage refrigerant charge while servicing the system. Field installed thermometer well is furnished for installation in the liquid line. Valves and gauge ports are accessible outside of the unit cabinet. See dimension drawing.

♧The maple leaf symbol in this bulletin denotes Canadian only usage where applicable
NOTE — Specifications, Ratings and Dimensions subject to change without notice.

OPTIONAL EQUIPMENT (Must Be Ordered Extra)

Crankcase Heater (Optional) — Available for HS23-211 thru HS23-410 models. Crankcase heaters P-8-8852 **(68887)** are not furnished and must be ordered extra. Heater prevents migration of liquid refrigerant into the compressor and ensures proper compressor lubrication. HS23-460, -510 and -650 model compressors are equipped with crankcase heaters furnished as standard.

Refrigerant Line Kits (Optional) — Lines are available in several lengths. See Refrigerant Line Kit table. Lines (suction and liquid) are shipped refrigeration clean. Lines are cleaned, dried and pressurized and sealed at the factory. Suction line is fully insulated. Lines are furnished with a flare fitting (evaporator unit connection) at one end and stubbed (no fitting) at the opposite end for connection to condensing unit. Kits are not available for the HS23-141 and HS23-650 models must be furnished by the installer.

Timed-Off Control (Optional) — Timed off control LB-61378A **(47J35)** 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 provides a five minute time delay between compressor shutoff and start-up. (Standard with HS23-651-653.)

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

Expansion Valve Kits (Optional) — Must be ordered extra for field installation on certain evaporator units. See ARI Ratings table.

Mounting Base (Optional) — Mounting base provides a permanent foundation for condensing units. High density polyethylene structural material is lightweight, sturdy, sound absorbing and will withstand the effects of sun, heat, cold, moisture, oil and refrigerant. Will not mildew or decompose. Can be shipped singly or in packages of six to a carton. Use MB1-24 **(78H50)** 32 in. x 34 in. x 3 in. (813 mm x 864 mm x 76 mm), shipping weight 15 lbs. (7 kg) each.

Low Ambient Kit (Optional) — Condensing units will operate satisfactorily down to 45°F (7°C) outdoor air temperature without any additional controls. For cases where operation of the unit is required at low ambients, a Low Ambient Control Kit LB-57113BC **(24H77)** can be added in the field, enabling unit to operate properly down to 30°F (–1°C).

Start Kits (Optional) — Field installed start kits are available for HS23-141 thru HS23-411 (1 phase) model units. Kits must be ordered extra. See Master Price List Card PL1 in Repair Parts for requirements. Start components are furnished and factory installed on HS23-461, -511 and -651 models.

Compressor Monitor (Optional) — Compressor monitor T6-1469 **(45F08)** is available for field installation. Non-adjustable switch (low ambient cut-out) prevents compressor operation when outdoor temperature is below 35°F (2°C).

SPECIFICATIONS

Model No.			HS23-141	HS23-211	HS23-261	HS23-311
Condenser Coil	Net face area - sq. ft. (m^2)	Outer coil	12.60 (1.17)	12.60 (1.17)	12.60 (1.17)	14.70 (1.37)
		Inner coil	- - - -	- - - -	- - - -	- - - -
	Tube diameter — in. (mm) & no. of rows		3/8 (9.5) — 1	3/8 (9.5) — 1	3/8 (9.5) — 1	3/8 (9.5) — 1
	Fins per inch (m)		20 (787)	20 (787)	20 (787)	20 (787)
Condenser Fan	Diameter — in. (mm) & no. of blades		20 (508) — 3	20 (508) — 3	20 (508) — 3	20 (508) — 3
	Motor hp (W)		1/6 (124)	1/6 (124)	1/6 (124)	1/6 (124)
	Cfm (L/s)		2500 (1180)	2500 (1180)	2500 (1180)	2700 (1275)
	Rpm		850	850	850	850
	Watts		200	200	200	205
*Refrigerant charge furnished (HCFC-22)			4 lbs. 4 oz. (1.93 kg)	4 lbs. 12 oz. (2.15 kg)	5 lbs. 5 oz. (2.41 kg)	5 lbs. 9 oz. (2.52 kg)
Liquid line — in. (mm) o.d. connection (sweat)			**3/8 (9.5)	***3/8 (9.5)	***3/8 (9.5)	3/8 (9.5)
Suction line — in. (mm) o.d. connection (sweat)			1/2 (12.7)	5/8 (15.8)	5/8 (15.8)	3/4 (19)
Shipping weight — lbs. (kg) 1 package			121 (55)	153 (69)	154 (70)	168 (76)

*Refrigerant charge sufficient for 20 ft. (6.1 m) length of refrigerant lines.
**Furnished with 3/8 in. x 1/4 in. (9.5mm x 6.4 mm) reducer adaptor for refrigerant line connections.
***Furnished with 3/8 in. x 5/16 in. (9.5 mm x 8 mm) reducer adaptor for refrigerant line connections.

SPECIFICATIONS

Model No.			HS23-411 HS23-413	HS23-461 HS23-463	HS23-511 HS23-513	HS23-651 HS23-653
Condenser Coil	Net face area - sq. ft. (m^2)	Outer coil	14.70 (1.37)	14.70 (1.37)	20.00 (1.86)	20.00 (1.86)
		Inner coil	- - - -	9.80 (0.91)	- - - -	15.40 (1.43)
	Tube diameter — in. (mm) & no. of rows		3/8 (9.5) — 1	3/8 (9.5) — 1.67	3/8 (9.5) — 1	3/8 (9.5) — 1.77
	Fins per inch (m)		20 (787)	20 (787)	20 (787)	20 (787)
Condenser Fan	Diameter — in. (mm) & no. of blades		20 (508) — 3	24 (610) — 4	24 (610) — 4	24 (610) — 4
	Motor hp (W)		1/6 (124)	1/4 (187)	1/4 (187)	1/4 (187)
	Cfm (L/s)		2700 (1275)	3900 (1840)	3900 (1840)	4000 (1885)
	Rpm		840	835	835	830
	Watts		205	340	340	355
*Refrigerant charge furnished (HCFC-22)			6 lbs. 3 oz. (2.81 kg)	7 lbs. 5 oz. (3.32 kg)	8 lbs. 13 oz. (4.00 kg)	11 lbs. 2 oz. (5.05 kg)
Liquid line — in. (mm) in. o.d. connection (sweat)			3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)
Suction line — in. (mm) o.d. connection (sweat)			3/4 (19)	7/8 (22.2)	7/8 (22.2)	1-1/8 (28.5)
Shipping weight lbs. (kg) 1 package			182 (83)	238 (108)	238 (108)	271 (123)

*Refrigerant charge sufficient for 20 ft. (6.1 m) length of refrigerant lines.

ELECTRICAL DATA

Model No.		HS23-141	HS23-211	HS23-261	HS23-311
Line voltage data — 60 hz		208/230v 1ph	208/230v 1ph	208/230v 1ph	208/230v 1ph
Compressor	Rated load amps	5.0	8.6	9.8	13.7
	Power factor	.97	.97	.96	.99
	Locked rotor amps	26.3	49.0	56.0	75.0
Condenser Coil Fan Motor	Full load amps	1.1	1.1	1.1	1.1
	Locked rotor amps	1.7	1.7	1.7	1.7
Rec. maximum fuse or circuit breaker size (amps)		15	20	20	30
*Minimum circuit ampacity		7.4	12.0	13.4	18.2

*Refer to National or Canadian 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.

ELECTRICAL DATA

Model No.		HS23-411	HS23-413		HS23-461	HS23-463	
Line voltage data — 60 hz		208/230v 1ph	208/230v 3ph	460v 3ph	208/230v 1ph	208/230v 3ph	460v 3ph
Compressor	Rated load amps	16.2	11.6	5.1	18.3	11.6	5.6
	Power factor	.91	.88	.88	.94	.88	.88
	Locked rotor amps	96.0	65.1	32.8	102.0	73.4	37.7
Condenser Coil Fan Motor	Full load amps	1.1	1.1	0.6	1.7	1.7	1.1
	Locked rotor amps	1.7	1.7	0.9	3.1	3.1	2.2
Rec. maximum fuse or circuit breaker size (amps)		35	25	15	40	25	15
*Minimum circuit ampacity		21.3	15.6	7.0	24.6	16.2	8.2

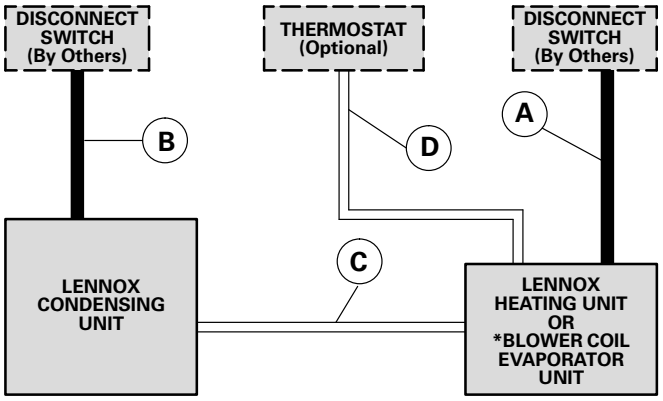
*Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.
NOTE — Extremes of operating range are plus 10% and minus 5% of line voltage.

ELECTRICAL DATA

Model No.		HS23-511	HS23-513			HS23-651	HS23-653		
Line voltage data — 60 hz		208/230v 1ph	208/230v 3ph	460v 3ph	575v 3ph	208/230v 1ph	208/230v 3ph	460v 3ph	575v 3ph
Compressor	Rated load amps	22.5	14.8	7.0	5.8	30.8	17.4	9.6	8.4
	Power factor	.97	.88	.88	.88	.98	.79	.79	.79
	Locked rotor amps	110.0	92.0	46.0	44.0	147.0	150.0	73.0	50.0
Condenser Coil Fan Motor	Full load amps	1.7	1.7	1.1	1.1	1.7	1.7	1.1	1.1
	Locked rotor amps	3.1	3.1	2.2	2.2	3.1	3.1	2.2	2.2
Rec. maximum fuse or circuit breaker size (amps)		50	35	15	15	60	40	20	20
*Minimum circuit ampacity		30.0	20.2	9.9	8.4	40.2	23.5	13.2	11.6

*Refer to National or Canadian 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



A — Two Wire Power

B — Two or Three Wire Power — See Electrical Data

C — Two Wire Low Voltage — 18 ga. minimum

D — Four Wire Low Voltage (Electro-Mechanical) 18 ga. minimum

Five Wire Low Voltage (Electronic) 18 ga. minimum

NOTE — Field Wiring Not Furnished

All wiring must conform to NEC or CEC and local electrical codes.

ARI RATINGS — EXPANSION VALVE SYSTEMS

Condensing Unit Model No. *ARI Standard 270 SRN (bels)	★ARI Standard 210/240 Ratings					Evaporator Unit			***Expansion Valve Kit Required
	†SEER (Btuh/ Watts)	EER (Btuh/ Watts)	Cooling Capacity		Total Unit Watts	Up-Flo	Down-Flo	Horizontal	
			Btuh	kW					
HS23-141 (7.4)	10.25	9.35	11,100	3.3	1185	C24-21FC/B24	- - - -	- - - -	LB-85663A **(43J73)**
	10.75	9.65	11,600	3.4	1200	C23-26(FC) C23-26W(FC) C24-26FC/B24 C24-26WFC/B24	- - - -	- - - -	
	10.25	9.80	11,800	3.5	1200	- - - -	- - - -	CH24-21	
	10.55	10.00	12,000	3.5	1200	- - - -	CR18-21	- - - -	
	10.75	10.00	12,100	3.5	1210	C22-21(FC)/B24	CR22-21/B24	- - - -	●Factory Installed
	10.60	10.05	12,100	3.5	1205	- - - -	- - - -	CH22-21	
	10.75	10.25	12,400	3.6	1205	C22-26(FC)/B24 C22-26W(FC)/B24	- - - -	- - - -	
	11.55	10.40	12,600	3.7	1210	**CB19-21	**CB19-21	**CBH19-21	LB-25778CH **(66F08)**
HS23-211 (7.6)	10.30	9.55	18,200	5.3	1900	- - - -	- - - -	CH24-21	LB-85663A **(43J73)**
	10.30	9.95	18,600	5.5	1870	C24-21FC/B24	- - - -	- - - -	
	10.30	9.85	18,600	5.4	1890	- - - -	CR18-21	- - - -	
	10.55	9.85	18,800	5.5	1910	- - - -	- - - -	CH22-21	●Factory Installed
	10.75	9.95	19,000	5.6	1910	C22-21(FC)/B24	CR22-21/B24	- - - -	
	10.75	10.40	19,000	5.6	1825	C23-26(FC) C23-26W(FC) C24-26FC/B24 C24-26WFC/B24	- - - -	- - - -	LB-85663A **(43J73)**
	10.75	10.45	19,800	5.8	1895	♧ **CVP10-26/EC10Q3	- - - -	- - - -	●Factory Installed
	11.00	10.40	20,000	5.9	1920	C22-26(FC)/B24 C22-26W(FC)/B24	- - - -	- - - -	
	12.00	11.40	20,800	6.1	1825	**CB19-21	**CB19-21	**CBH19-21	LB-25778CG **(57C98)**
HS23-261 (7.6)	10.05	9.30	22,000	6.4	2360	C22-21(FC)/B24	CR22-21/B24	- - - -	●Factory Installed
	10.05	9.35	22,600	6.6	2415	- - - -	- - - -	CH22-21	
	10.25	9.60	23,400	6.9	2430	- - - -	- - - -	CH24-31	LB-85663B **(43J74)**
	10.25	9.55	23,600	6.9	2470	C23-26(FC) C23-26W(FC) C24-26FC/B24 C24-26WFC/B24	- - - -	- - - -	
	10.15	9.50	23,800	7.0	2505	- - - -	CR18-31	- - - -	
	10.30	9.70	24,000	7.0	2475	C23-31(FC) C23-31W(FC) C24-31FC/B24 C24-31WFC/B24	- - - -	- - - -	
	10.55	9.65	24,000	7.0	2485	C22-26(FC)/B24 C22-26W(FC)/B24	- - - -	- - - -	●Factory Installed
	10.50	9.70	24,000	7.0	2475	♧ **CVP10-26/EC10Q3	- - - -	- - - -	
	10.50	9.70	24,200	7.1	2495	- - - -	- - - -	CH22-31	
	11.10	10.35	24,200	7.1	2335	**CB19-21	**CB19-21	**CBH19-21	LB-25778CG **(57C98)**
	10.70	9.75	24,600	7.2	2520	C22-31(FC)/B24 C22-31W(FC)/B24	CR22-31/B24 CR22-31W/B24	- - - -	●Factory Installed
	11.05	10.20	24,800	7.3	2425	**CB19-26	**CB19-26	**CBH19-26	LB-25778CG **(57C98)**

★Rated in accordance with ARI Standard 210/240; 95°F (35°C) outdoor air temperature, 80°F (27°C) db / 67°F (19°C) wb entering evaporator air with 25 ft. (7.6 m) of connecting refrigerant lines.
*Sound Rating Number in accordance with ARI Standard 270.
**Blower powered evaporator.
***Kit is required and must be ordered extra, unless shown as factory installed.
†Seasonal Energy Efficiency Ratio (Btuh/Watt).
♧ Canadian usage only.
●Furnished as standard with coil
NOTE — B24 Blowers are not included with ratings for C22/24 and CR22 series coils. B24 is shown for matching reference only.
NOTE — Shaded area denotes most popular evaporator coil.

ARI RATINGS — EXPANSION VALVE SYSTEMS

Condensing Unit Model No. *ARI Standard 270 SRN (bels)	★ARI Standard 210/240 Ratings					Evaporator Unit			***Expansion Valve Kit Required
	†SEER (Btuh/ Watts)	EER (Btuh/ Watts)	Cooling Capacity Btuh	Cooling Capacity kW	Total Unit Watts	Up-Flo	Down-Flo	Horizontal	
HS23-311 (7.6)	10.30	9.50	28,400	8.3	2990	- - - -	- - - -	CH24-31	LB-85663C **(43J75)**
	10.20	9.35	28,600	8.4	3060	- - - -	CR18-31	- - - -	
	10.30	9.55	28,800	8.4	3015	♤ **CVP10-31/EC10Q3	- - - -	- - - -	●Factory Installed
	10.30	9.40	29,000	8.5	3085	C23-31(FC) C23-31W(FC) C24-31FC/B24 C24-31WFC/B24	- - - -	- - - -	LB-85663C **(43J75)**
	10.55	9.60	29,000	8.5	3005	- - - -	CR22-31/B24 CR22-31W/B24	CH22-31	●Factory Installed
	10.55	9.50	29,200	8.6	3080	- - - -	- - - -	CH22-41	
	10.40	9.55	29,400	8.6	3080	- - - -	CR18-41	- - - -	LB-85663C **(43J75)**
	10.40	9.50	29,400	8.6	3095	C23-41(FC) C23-41W(FC)	- - - -	- - - -	
	10.40	9.40	29,400	8.6	3115	C24-41FC/B24 C24-41WFC/B24	- - - -	CH24-41	
	10.30	9.50	29,600	8.7	3115	♤ **CVP10-41/EC10Q3	- - - -	- - - -	●Factory Installed
	10.65	9.75	30,000	8.8	3075	C22-31(FC)/B24 C22-31W(FC)/B24	- - - -	- - - -	
	11.00	9.70	30,400	8.9	3125	- - - -	CR22-41/B24	- - - -	
	11.00	9.75	30,600	9.0	3140	C22-41(FC)/B24	- - - -	- - - -	
	11.15	10.15	30,600	9.0	3015	**CB19-31 **CB19-41	**CB19-31 **CB19-41	**CBH19-31 **CBH19-41	LB-25778CE **(83A67)**
U.S. & CANADA HS23-411 (7.6) **U.S. ONLY** HS23-413 (7.8)	10.25	9.30	33,400	10.1	3590	- - - -	CR22-41/B24	- - - -	●Factory Installed
	10.00	9.35	34,400	10.1	3680	- - - -	- - - -	CH24-41	LB-85663C **(43J75)**
	10.25	9.40	35,000	10.3	3720	- - - -	- - - -	CH22-41	●Factory Installed
	10.35	9.35	35,000	10.3	3740	- - - -	CR18-41	- - - -	LB-85663C **(43J75)**
	10.05	9.50	35,000	10.5	3685	C23-41(FC) C23-41W(FC) C24-41FC/B24 C24-41WFC/B24	- - - -	- - - -	
	10.50	9.50	35,800	10.5	3765	- - - -	CR18-51	- - - -	
	10.25	9.50	35,400	10.4	3725	C23-46(FC) C24-46FC/B24	- - - -	- - - -	
	10.20	9.65	35,800	10.5	3710	♤ **CVP10-46/EC10Q4	- - - -	- - - -	●Factory Installed
	10.25	9.70	36,000	10.6	3710	♤ **CVP10-41/EC10Q3	- - - -	- - - -	
	10.50	9.65	36,400	10.7	3770	C22-41(FC)/B24	- - - -	- - - -	
	10.75	9.70	36,600	10.7	3770	C22-46(FC)/B24	- - - -	- - - -	
	11.05	9.85	37,000	10.8	3755	**CB19-41	**CB19-41	**CBH19-41	LB-25778CF **(83A68)**
	10.95	9.95	37,200	10.9	3740	C23-51(FC) C24-51FC	- - - -	- - - -	LB-85663C **(43J75)**
	11.30	10.10	38,500	11.3	3810	**CB19-51	**CB19-51	**CBH19-51	LB-25778CF **(83A68)**
♤**CANADA ONLY** HS23-413 (7.6)	9.75	8.55	34,000	10.0	3970	- - - -	- - - -	♤ CH24-41	LB-85663C **(43J75)**
	9.70	8.85	34,800	10.2	3930	♤ C23-41(FC) C23-41W(FC) ♤C24-41FC/B24 C24-41WFC/B24	- - - -	- - - -	
	9.75	8.95	35,600	10.4	3980	♤ C23-46(FC) ♤ C24-46FC/B24	- - - -	- - - -	
	10.00	9.00	36,000	10.5	3985	- - - -	♤CR22-41/B24	♤ CH22-41	●Factory Installed
	9.85	9.00	36,000	10.5	4000	♤ **CVP10-46/EC10Q4	- - - -	- - - -	
	9.75	8.85	36,000	10.5	4065	♤ **CVP10-41/EC10Q3	- - - -	- - - -	
	10.35	9.40	36,400	10.7	3880	♤ **CB19-41	♤ **CB19-41	♤**CBH19-41	LB-25778CF **(83A68)**
	10.05	9.10	36,600	10.7	4015	♤C22-41(FC)/B24	- - - -	- - - -	●Factory Installed
	10.15	9.20	37,200	10.9	4035	♤C22-46(FC)/B24	- - - -	- - - -	
	10.55	9.40	37,400	11.0	3985	♤ **CB19-51	♤ **CB19-51	♤**CBH19-51	LB-25778CF **(83A68)**

★Rated in accordance with ARI Standard 210/240; 95°F (35°C) outdoor air temperature, 80°F (27°C) db / 67°F (19°C) wb entering evaporator air with 25 ft. (7.6 m) of connecting refrigerant lines.
*Sound Rating Number in accordance with ARI Standard 270.
***Kit is required and must be ordered extra, unless shown as factory installed.
†Seasonal Energy Efficiency Ratio (Btuh/Watt).
**Blower powered evaporator.
●Furnished as standard with coil
♤ Canadian usage only.
NOTE — B24 Blowers are not included with ratings for C22/24 and CR22 series coils. B24 is shown for matching reference only.
NOTE — Shaded area denotes most popular evaporator coil.

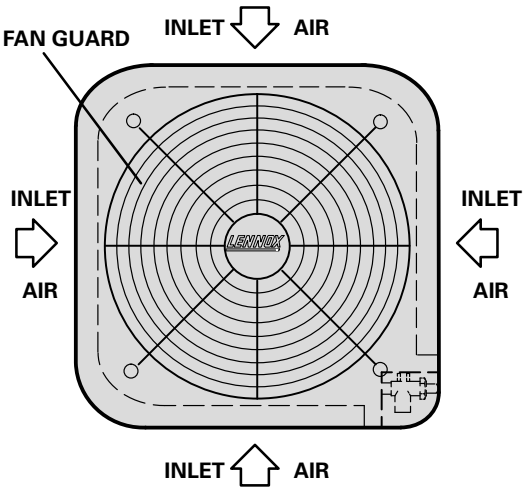
ARI RATINGS — EXPANSION VALVE SYSTEMS

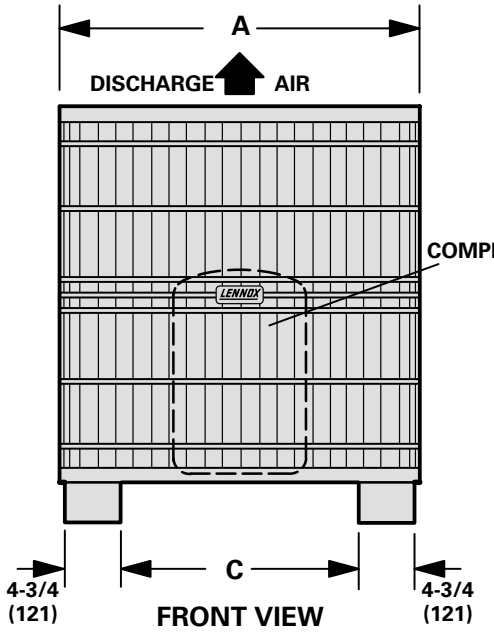
Condensing Unit Model No. *ARI Standard 270 SRN (bels)	★ARI Standard 210/240 Ratings					Evaporator Unit			***Expansion Valve Kit Required
	†SEER (Btuh/ Watts)	EER (Btuh/ Watts)	Cooling Capacity Btuh	Cooling Capacity kW	Total Unit Watts	Up-Flo	Down-Flo	Horizontal	
HS23-461 HS23-463 (8.0)	10.05	9.30	38,000	11.1	4085	- - - -	- - - -	CH24-41	LB-85663D **(43J76)**
	10.55	9.35	39,000	11.4	4170	- - - -	CR22-41/B24	- - - -	●Factory Installed
	10.10	9.30	39,500	11.6	4245	C23-41(FC), C23-41W(FC) C24-41FC/B24, C24-41WFC/B24	- - - -	- - - -	LB-85663D **(43J76)**
	10.15	9.50	40,000	11.7	4210	- - - -	- - - -	CH22-41	●Factory Installed
	10.10	9.40	40,500	11.9	4305	- - - -	CR18-41	- - - -	LB-85663D **(43J76)**
	10.55	9.30	40,500	11.9	4355	C22-41(FC)/B24	- - - -	- - - -	●Factory Installed
	10.10	9.45	41,000	12.0	4335	♢ **CVP10-46/EC10Q4	- - - -	- - - -	
	10.10	9.50	41,000	12.0	4315	♢ **CVP10-51/EC10Q4	- - - -	- - - -	
	10.20	9.50	41,000	12.0	4315	C23-46(FC) C24-46FC/B24	- - - -	- - - -	LB-85663D **(43J76)**
	10.30	9.55	41,000	12.0	4290	- - - -	- - - -	CH24-51	
	10.30	9.55	41,500	12.2	4345	- - - -	CR18-51	- - - -	
	10.55	9.60	41,500	12.2	4320	- - - -	- - - -	CH22-51	●Factory Installed
	10.85	10.00	41,500	12.2	4150	**CB19-41	**CB19-41	**CBH19-41	LB-25778CF **(83A68)**
	10.30	9.55	42,000	12.3	4395	C23-51(FC) C24-51FC/B24	- - - -	- - - -	LB-85663D **(43J76)**
	10.70	9.80	43,000	12.6	4385	C22-46(FC)/B24	- - - -	- - - -	●Factory Installed
	10.75	9.90	43,500	12.7	4390	C22-51(FC)/B24	CR22-51/B24	- - - -	
	11.15	10.30	43,500	12.7	4220	**CB19-51	**CB19-51	**CBH19-51	LB-25778CF **(83A68)**
HS23-511 HS23-513 (8.0)	10.00	8.75	43,500	12.7	4955	- - - -	CR22-41/B24	CH22-41	●Factory Installed
	10.00	8.85	44,500	13.0	5030	C23-41(FC) C23-41W(FC) C24-41FC/B24, C24-41WFC/B24	- - - -	- - - -	LB-85663D **(43J76)**
	10.05	8.95	46,000	13.5	5150	C22-41(FC)/B24	- - - -	- - - -	●Factory Installed
	10.05	8.85	46,000	13.5	5200	C24-46FC/B24	- - - -	- - - -	LB-85663D **(43J76)**
	10.05	8.95	46,000	13.5	5140	C23-46(FC)	- - - -	- - - -	
	10.15	9.00	48,000	14.1	5335	C23-51(FC)	- - - -	- - - -	
	10.35	9.00	48,000	14.1	5400	C22-46(FC)/B24	- - - -	- - - -	●Factory Installed
	10.20	8.95	48,000	14.1	5365	C24-51FC/B24	- - - -	CH24-51	LB-85663D **(43J76)**
	10.35	9.10	48,500	14.2	5330	C23-51/65(FC)	- - - -	- - - -	
	10.20	9.00	48,500	14.2	5390	- - - -	CR18-51	- - - -	
	10.35	9.00	48,500	14.2	5390	C24-65FC/B24	- - - -	CH24-65	
	10.55	9.05	48,500	14.2	5335	- - - -	CR22-51/B24	CH22-51	●Factory Installed
	10.25	9.25	48,500	14.2	5240	♢ **CVP10-51/EC10Q4	- - - -	- - - -	
	10.55	9.05	49,000	14.4	5415	C22-51(FC)/B24	- - - -	- - - -	
	10.30	9.00	49,000	14.4	5445	- - - -	CR18-65	- - - -	LB-85663D **(43J76)**
	10.35	9.40	50,000	14.7	5320	♢ **CVP10-65/EC10Q5	- - - -	- - - -	●Factory Installed
	10.65	9.20	50,000	14.7	5450	- - - -	- - - -	CH22-65	
	10.75	9.30	51,000	14.9	5485	C22-65(FC)/B24	CR22-65/B24	- - - -	
	10.90	9.65	51,000	14.9	5295	**CB19-51	**CB19-51	**CBH19-51	LB-53081CC **(11G83)**
	11.35	10.00	54,000	15.8	5400	**CB19-65	**CB19-65	**CBH19-65	
HS23-651 HS23-653 (8.2)	10.05	9.45	58,500	17.1	6190	- - - -	- - - -	CH24-51	LB-85663E **(43J77)**
	10.05	9.10	59,000	17.3	6480	C24-51FC/B24	- - - -	- - - -	
	10.20	9.20	60,000	17.6	6530	C24-65FC/B24	- - - -	CH24-65	
	10.15	9.20	60,000	17.6	6525	C23-51/65(FC)	- - - -	- - - -	
	10.15	9.45	60,000	17.6	6350	- - - -	CR18-65	- - - -	
	10.10	9.25	60,000	17.6	6490	C22-46(FC)/B24	- - - -	- - - -	●Factory Installed
	10.20	9.70	60,000	17.6	6165	- - - -	CR22-51/B24	CH22-51	
	10.20	9.25	60,500	17.7	6540	C22-51(FC)/B24	- - - -	- - - -	
	10.05	9.55	61,000	17.9	6385	♢ **CVP10-65/EC10Q5	- - - -	- - - -	
	10.65	9.90	61,500	18.0	6205	**CB19-51	**CB19-51	**CBH19-51	LB-53081CE **(32G54)**
	10.55	9.70	62,500	18.3	6430	- - - -	CR22-65/B24	CH22-65	●Factory Installed
	10.65	9.55	63,000	18.5	6580	C22-65(FC)/B24	- - - -	- - - -	
	11.05	10.30	65,500	19.2	6345	**CB19-65	**CB19-65	**CBH19-65	LB-53081CE **(32G54)**

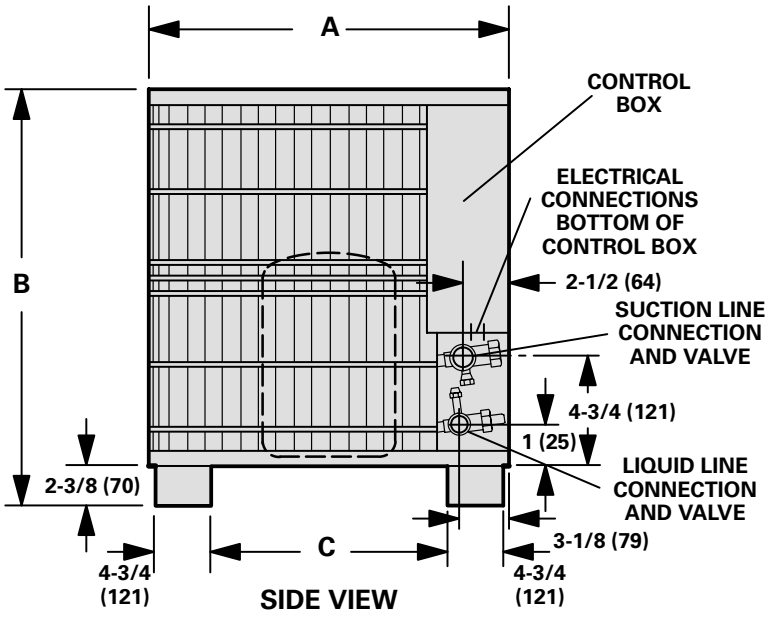
★Rated in accordance with ARI Standard 210/240; 95°F (35°C) outdoor air temperature, 80°F (27°C) db / 67°F (19°C) wb entering evaporator air with 25 ft. (7.6 m) of connecting refrigerant lines.
*Sound Rating Number in accordance with ARI Standard 270.
***Kit is required and must be ordered extra, unless shown as factory installed.
†Seasonal Energy Efficiency Ratio (Btuh/Watt).
**Blower powered evaporator.
●Furnished as standard with coil
♢ Canadian usage only.
NOTE — B24 Blowers are not included with ratings for C22/24 and CR22 series coils. B24 is shown for matching reference only.
NOTE — Shaded area denotes most popular evaporator coil.

DIMENSIONS — inches (mm)

Model No.		A	B	C
HS23-141, HS23-211, HS23-261	in.	26-3/8	26-3/4	16-7/8
	mm	670	679	429
HS23-311, HS23-411-413	in.	26-3/8	30-3/4	16-7/8
	mm	670	781	429
HS23-461-463, HS23-511-513, HS23-651-653	in.	31-5/16	34-3/4	21-3/16
	mm	795	883	538





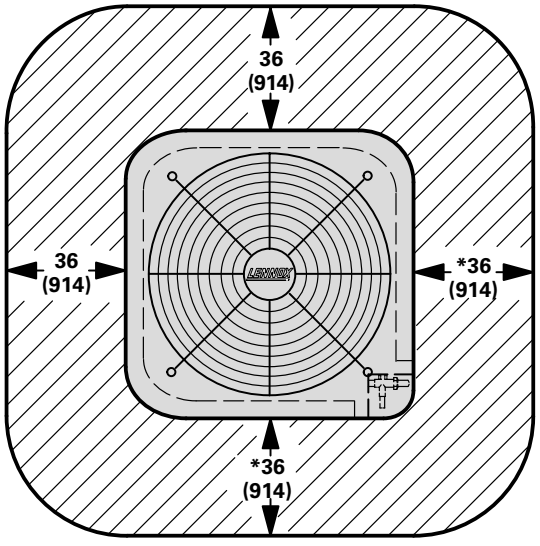


REFRIGERANT LINE KITS

Condensing Unit Model No.	Line Set Model No.	Length of Lines ft.	Length of Lines m	Liquid Line Outside Dia. in.	Liquid Line Outside Dia. mm	Suction Line Outside Dia. in.	Suction Line Outside Dia. mm
**HS23-141	*Not available			**1/4	**6.4	1/2	2.7
**HS23-211 **HS23-261	L10-21-20	20	6	**5/16	**8	5/8	15.9
	L10-21-25	25	8				
	L10-21-35	35	11				
	L10-21-50	50	15				
HS23-311 HS23-410	L10-41-20	20	6	3/8	9.5	3/4	19
	L10-41-30	30	9				
	L10-41-40	40	12				
	L10-41-50	50	15				
HS23-460 HS23-510	L10-65-30	30	9	3/8	9.5	7/8	22.2
	L10-65-40	40	12				
	L10-65-50	50	15				
HS23-650	*Not available			3/8	9.5	1-1/8	28.5

*Field fabricate.
**HS23-141, HS23-211 & HS23-261 units will accept 3/8 in. (9.5 mm) liquid lines. Adaptors furnished with condensing units will allow use with 1/4 in. (6.4 mm) liquid line (HS23-141) and 5/16 in. (8 mm) liquid line (HS23-211 & 261).

INSTALLATION CLEARANCES — inches (mm)



NOTE—48 in. (1219 mm) clearance required on top of unit.
***NOTE—One side must be 36 in. (914 mm) for service. Two of the remaining three sides may be 12 in. (305 mm).**

TXV RATINGS

NOTE — For Temperatures and Capacities not shown in tables, see bulletin — Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HS23-141 WITH C24-21FC/B24 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	165	350	3.4	11,600	770	.67	.82	.95	3.3	11,300	860	.68	.84	.97	3.2	10,900	950	.69	.86	.98	3.0	10,400	1030	.70	.89	1.00
	210	450	3.7	12,500	780	.72	.88	1.00	3.5	12,100	870	.72	.90	1.00	3.4	11,600	960	.74	.93	1.00	3.3	11,100	1050	.75	.97	1.00
	260	550	3.8	13,100	790	.77	.93	1.00	3.7	12,600	880	.78	.97	1.00	3.5	12,000	960	.80	1.00	1.00	3.4	11,600	1060	.82	1.00	1.00
67°F (19.4°C)	165	350	3.5	11,900	770	.53	.67	.80	3.4	11,500	860	.54	.68	.81	3.3	11,100	950	.54	.69	.83	3.1	10,700	1040	.55	.71	.84
	210	450	3.8	12,800	790	.56	.70	.87	3.6	12,400	870	.57	.72	.89	3.5	12,000	960	.57	.74	.90	3.4	11,500	1050	.58	.76	.92
	260	550	4.0	13,500	790	.59	.74	.95	3.8	13,000	880	.60	.76	.96	3.7	12,600	970	.60	.79	.98	3.5	12,100	1060	.61	.81	1.00
71°F (21.7°C)	165	350	3.5	12,100	780	.40	.55	.67	3.4	11,700	860	.40	.54	.68	3.3	11,300	950	.41	.55	.69	3.2	10,900	1040	.41	.56	.70
	210	450	3.8	13,100	790	.41	.56	.72	3.7	12,700	880	.42	.58	.72	3.6	12,200	970	.42	.58	.74	3.4	11,700	1060	.42	.59	.75
	260	550	4.0	13,800	800	.43	.58	.77	3.9	13,300	880	.43	.59	.78	3.8	12,900	980	.43	.61	.79	3.6	12,400	1070	.43	.62	.81

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

HS23-141 WITH C23-26(FC), C23-26W(FC), C24-26FC/B24 OR C24-26WFC/B24 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	165	350	3.6	12,200	730	.68	.83	.96	3.4	11,700	810	.69	.85	.98	3.3	11,200	900	.70	.87	1.00	3.1	10,700	990	.71	.90	1.00
	210	450	3.8	12,900	740	.73	.90	1.00	3.6	12,400	820	.74	.93	1.00	3.5	11,900	910	.76	.96	1.00	3.3	11,300	1000	.77	.99	1.00
	260	550	4.0	13,500	750	.78	.97	1.00	3.8	12,900	830	.80	1.00	1.00	3.6	12,400	920	.82	1.00	1.00	3.5	11,900	1010	.83	1.00	1.00
67°F (19.4°C)	165	350	3.8	12,800	740	.54	.66	.80	3.6	12,300	820	.54	.68	.82	3.5	11,800	910	.55	.69	.83	3.3	11,300	1000	.55	.70	.85
	210	450	4.0	13,600	750	.57	.71	.88	3.8	13,100	830	.57	.73	.89	3.7	12,500	920	.58	.75	.92	3.5	12,000	1010	.59	.77	.94
	260	550	4.1	14,100	760	.60	.76	.96	4.0	13,600	840	.60	.78	.98	3.8	13,000	930	.61	.81	1.00	3.6	12,400	1020	.62	.84	1.00
71°F (21.7°C)	165	350	3.9	13,300	750	.40	.53	.67	3.8	12,800	830	.41	.54	.68	3.6	12,300	920	.41	.55	.69	3.5	11,800	1010	.41	.55	.70
	210	450	4.1	14,100	760	.42	.56	.71	4.0	13,600	840	.42	.57	.72	3.8	13,100	930	.42	.58	.74	3.7	12,500	1020	.42	.59	.75
	260	550	4.3	14,700	770	.43	.59	.77	4.2	14,200	850	.43	.60	.78	4.0	13,600	940	.43	.62	.80	3.8	13,000	1030	.44	.63	.82

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

HS23-141 WITH CH24-21 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	165	350	3.4	11,500	780	.67	.82	.96	3.3	11,100	870	.68	.85	.98	3.1	10,600	950	.69	.87	1.00	3.0	10,100	1040	.70	.90	1.00
	210	450	3.5	12,100	790	.73	.90	1.00	3.4	11,600	870	.74	.93	1.00	3.3	11,200	960	.75	.96	1.00	3.1	10,700	1050	.77	.98	1.00
	260	550	3.7	12,600	790	.78	.96	1.00	3.6	12,200	880	.80	.98	1.00	3.4	11,600	970	.82	1.00	1.00	3.3	11,200	1060	.83	1.00	1.00
67°F (19.4°C)	165	350	3.6	12,200	790	.53	.66	.80	3.5	11,800	870	.54	.67	.81	3.3	11,300	960	.54	.69	.82	3.2	10,800	1050	.55	.70	.84
	210	450	3.7	12,700	790	.56	.72	.88	3.6	12,400	880	.57	.72	.89	3.5	11,900	970	.58	.74	.91	3.3	11,400	1060	.58	.76	.93
	260	550	3.9	13,200	800	.60	.75	.96	3.8	12,800	890	.60	.78	.98	3.6	12,300	980	.61	.80	1.00	3.5	11,800	1070	.62	.83	1.00
71°F (21.7°C)	165	350	3.8	12,800	790	.40	.53	.66	3.6	12,400	880	.40	.54	.67	3.5	11,900	970	.40	.54	.68	3.4	11,500	1060	.41	.55	.69
	210	450	3.9	13,300	800	.41	.56	.71	3.8	13,000	890	.42	.57	.72	3.7	12,500	980	.42	.58	.73	3.5	12,000	1070	.42	.59	.74
	260	550	4.0	13,700	810	.43	.59	.77	3.9	13,400	900	.43	.59	.78	3.8	13,000	990	.43	.61	.79	3.6	12,400	1080	.44	.62	.81

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

HS23-141 WITH CR18-21 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	165	350	3.7	12,700	750	.74	.87	.98	3.6	12,200	830	.75	.89	1.00	3.4	11,700	920	.76	.91	1.00	3.3	11,300	1010	.77	.92	1.00
	210	450	3.9	13,400	760	.79	.94	1.00	3.8	12,900	840	.80	.96	1.00	3.6	12,400	930	.82	.97	1.00	3.5	11,900	1020	.84	.99	1.00
	260	550	4.1	14,000	770	.84	.99	1.00	3.9	13,400	850	.86	1.00	1.00	3.8	13,000	940	.88	1.00	1.00	3.7	12,500	1030	.91	1.00	1.00
67°F (19.4°C)	165	350	3.9	13,300	760	.58	.71	.84	3.8	12,800	840	.59	.72	.85	3.6	12,300	930	.60	.74	.87	3.5	11,800	1010	.61	.75	.89
	210	450	4.1	14,000	770	.62	.77	.91	4.0	13,500	850	.63	.78	.93	3.8	13,000	940	.64	.80	.95	3.6	12,400	1030	.64	.81	.96
	260	550	4.3	14,600	770	.65	.82	.97	4.1	14,000	860	.66	.84	.99	3.9	13,400	950	.67	.86	1.00	3.8	12,800	1030	.68	.88	1.00
71°F (21.7°C)	165	350	4.0	13,800	760	.44	.57	.69	3.9	13,300	850	.44	.58	.70	3.8	12,800	940	.45	.58	.71	3.6	12,300	1020	.45	.59	.72
	210	450	4.3	14,700	770	.46	.60	.74	4.1	14,100	860	.46	.61	.76	4.0	13,500	950	.46	.62	.77	3.8	13,000	1040	.47	.63	.79
	260	550	4.5	15,200	780	.47	.64	.80	4.3	14,600	870	.47	.65	.81	4.1	14,000	960	.48	.66	.83	4.0	13,400	1040	.48	.67	.85

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

TXV RATINGS

NOTE — For Temperatures and Capacities not shown in tables, see bulletin — Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HS23-141 WITH C22-21(FC)/B24 OR CR22-21/B24 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	165	350	3.7	12,600	730	.68	.83	.97	3.5	12,100	810	.69	.85	.99	3.4	11,600	900	.70	.88	1.00	3.2	11,000	980	.72	.91	1.00
	210	450	3.9	13,400	740	.73	.92	1.00	3.8	12,800	820	.75	.94	1.00	3.6	12,300	910	.76	.97	1.00	3.4	11,700	1000	.78	1.00	1.00
	260	550	4.1	14,000	750	.79	.99	1.00	3.9	13,400	830	.81	1.00	1.00	3.8	12,900	920	.82	1.00	1.00	3.6	12,400	1010	.84	1.00	1.00
67°F (19.4°C)	165	350	3.9	13,200	740	.54	.67	.81	3.7	12,700	820	.55	.68	.82	3.6	12,200	910	.55	.70	.84	3.4	11,600	1000	.56	.71	.86
	210	450	4.1	14,000	750	.57	.72	.89	4.0	13,500	830	.58	.74	.91	3.8	12,900	920	.59	.76	.93	3.6	12,300	1010	.60	.78	.95
	260	550	4.3	14,600	760	.60	.77	.97	4.1	14,000	840	.61	.80	.99	3.9	13,400	930	.62	.82	1.00	3.8	12,800	1020	.63	.85	1.00
71°F (21.7°C)	165	350	4.0	13,700	750	.41	.54	.67	3.9	13,300	830	.41	.54	.68	3.7	12,700	920	.41	.55	.69	3.6	12,200	1010	.42	.56	.70
	210	450	4.3	14,700	760	.42	.57	.72	4.1	14,100	840	.42	.58	.73	4.0	13,500	930	.43	.59	.74	3.8	12,900	1020	.43	.60	.76
	260	550	4.5	15,300	770	.43	.60	.77	4.3	14,700	850	.43	.61	.79	4.1	14,100	940	.44	.62	.81	3.9	13,400	1030	.44	.64	.83

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

HS23-141 WITH CH22-21 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	165	350	3.5	11,800	730	.68	.83	.97	3.3	11,300	810	.69	.86	.99	3.2	10,800	900	.70	.88	1.00	3.0	10,300	980	.72	.91	1.00
	210	450	3.7	12,500	740	.73	.92	1.00	3.5	12,000	820	.75	.95	1.00	3.4	11,500	910	.76	.97	1.00	3.2	10,900	1000	.78	1.00	1.00
	260	550	3.8	13,000	750	.79	.99	1.00	3.7	12,500	830	.81	1.00	1.00	3.5	12,100	920	.82	1.00	1.00	3.4	11,600	1010	.84	1.00	1.00
67°F (19.4°C)	165	350	3.6	12,300	740	.54	.67	.81	3.5	11,900	820	.55	.68	.82	3.3	11,400	910	.55	.70	.84	3.2	10,900	1000	.56	.71	.86
	210	450	3.8	13,100	750	.57	.72	.89	3.7	12,600	830	.58	.74	.90	3.5	12,100	920	.59	.76	.93	3.4	11,500	1010	.59	.78	.95
	260	550	4.0	13,600	760	.60	.77	.97	3.8	13,100	840	.61	.79	.99	3.7	12,600	930	.62	.82	1.00	3.5	12,000	1020	.63	.85	1.00
71°F (21.7°C)	165	350	3.8	12,800	740	.41	.54	.67	3.6	12,400	830	.41	.54	.68	3.5	11,900	920	.41	.55	.69	3.3	11,400	1010	.42	.56	.70
	210	450	4.0	13,600	760	.42	.57	.72	3.8	13,100	840	.42	.58	.73	3.7	12,600	930	.43	.59	.74	3.5	12,100	1020	.43	.60	.76
	260	550	4.1	14,100	770	.43	.60	.78	4.0	13,600	850	.44	.61	.79	3.8	13,100	940	.44	.62	.81	3.7	12,500	1030	.44	.64	.82

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

HS23-141 WITH C22-26(FC)/B24 OR C22-26W(FC)/B24 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	165	350	3.8	12,800	730	.68	.83	.97	3.6	12,300	810	.69	.85	.99	3.5	11,800	900	.70	.88	1.00	3.3	11,200	990	.72	.90	1.00
	210	450	4.0	13,600	740	.73	.92	1.00	3.8	13,100	830	.75	.95	1.00	3.7	12,500	910	.76	.97	1.00	3.5	11,900	1000	.78	1.00	1.00
	260	550	4.2	14,300	750	.79	.99	1.00	4.0	13,700	840	.80	1.00	1.00	3.9	13,200	920	.82	1.00	1.00	3.7	12,600	1010	.84	1.00	1.00
67°F (19.4°C)	165	350	3.9	13,400	740	.54	.67	.81	3.8	12,900	820	.55	.68	.83	3.6	12,400	910	.55	.70	.84	3.5	11,800	1000	.56	.71	.86
	210	450	4.2	14,300	750	.57	.72	.89	4.0	13,700	840	.58	.74	.91	3.8	13,100	920	.59	.76	.93	3.7	12,600	1010	.59	.78	.95
	260	550	4.4	14,900	760	.60	.77	.97	4.2	14,300	850	.61	.80	.99	4.0	13,700	930	.62	.82	1.00	3.8	13,000	1020	.63	.85	1.00
71°F (21.7°C)	165	350	4.1	13,900	750	.41	.54	.68	4.0	13,500	830	.41	.54	.68	3.8	12,900	920	.41	.55	.69	3.6	12,400	1010	.42	.56	.70
	210	450	4.4	14,900	760	.42	.57	.72	4.2	14,300	850	.42	.58	.73	4.0	13,800	930	.43	.59	.74	3.8	13,100	1020	.43	.60	.76
	260	550	4.5	15,500	770	.43	.60	.77	4.4	14,900	860	.44	.61	.79	4.2	14,300	940	.44	.62	.81	4.0	13,600	1030	.44	.64	.83

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

HS23-141 WITH CB19-21 OR CBH19-21 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	165	350	3.9	13,200	760	.73	.86	.99	3.8	12,800	840	.74	.88	1.00	3.6	12,200	930	.75	.90	1.00	3.4	11,700	1020	.77	.92	1.00
	210	450	4.1	14,000	770	.79	.94	1.00	4.0	13,500	850	.80	.96	1.00	3.8	12,900	940	.82	.98	1.00	3.6	12,400	1030	.85	1.00	1.00
	260	550	4.3	14,700	780	.85	1.00	1.00	4.1	14,100	860	.87	1.00	1.00	4.0	13,700	950	.88	1.00	1.00	3.8	13,100	1040	.90	1.00	1.00
67°F (19.4°C)	165	350	4.1	14,000	770	.58	.70	.83	4.0	13,500	850	.58	.72	.85	3.8	12,900	940	.59	.73	.87	3.6	12,400	1030	.60	.74	.88
	210	450	4.3	14,800	780	.61	.76	.91	4.2	14,200	860	.62	.78	.93	4.0	13,600	950	.63	.80	.95	3.8	13,000	1040	.64	.81	.97
	260	550	4.5	15,300	790	.65	.83	.98	4.3	14,700	870	.66	.85	1.00	4.1	14,100	960	.67	.86	1.00	3.9	13,400	1050	.68	.88	1.00
71°F (21.7°C)	165	350	4.3	14,800	780	.44	.56	.68	4.2	14,200	860	.44	.57	.69	4.0	13,600	950	.44	.57	.70	3.8	13,100	1040	.44	.58	.72
	210	450	4.6	15,600	790	.45	.60	.74	4.4	15,000	870	.45	.61	.75	4.2	14,400	960	.46	.62	.77	4.0	13,700	1050	.46	.63	.79
	260	550	4.7	16,100	800	.47	.64	.80	4.5	15,500	880	.47	.65	.83	4.3	14,800	970	.48	.66	.84	4.1	14,100	1060	.48	.67	.86

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

TXV RATINGS

NOTE — For Temperatures and Capacities not shown in tables, see bulletin — Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HS23-211 WITH CH24-21 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	235	500	5.2	17,600	1310	.67	.81	.93	4.9	16,700	1410	.68	.84	.95	4.6	15,800	1510	.70	.86	.98	4.3	14,700	1600	.72	.90	1.00
	305	650	5.5	18,700	1330	.72	.88	1.00	5.2	17,700	1430	.74	.91	1.00	4.9	16,600	1530	.76	.94	1.00	4.5	15,500	1630	.78	.98	1.00
	375	800	5.7	19,300	1330	.78	.94	1.00	5.4	18,300	1440	.80	.97	1.00	5.1	17,300	1550	.82	1.00	1.00	4.7	16,200	1660	.85	1.00	1.00
67°F (19.4°C)	235	500	5.5	18,700	1330	.53	.66	.78	5.2	17,800	1430	.54	.68	.80	4.9	16,800	1540	.55	.69	.82	4.6	15,700	1640	.56	.71	.85
	305	650	5.8	19,800	1340	.56	.70	.86	5.5	18,900	1450	.57	.72	.88	5.2	17,800	1560	.58	.74	.90	4.9	16,600	1670	.59	.77	.93
	375	800	6.0	20,500	1350	.59	.74	.93	5.7	19,500	1460	.60	.77	.96	5.4	18,400	1580	.61	.80	.99	5.0	17,200	1680	.63	.83	1.00
71°F (21.7°C)	235	500	5.8	19,700	1340	.40	.53	.66	5.5	18,800	1450	.40	.54	.67	5.2	17,800	1560	.41	.55	.68	4.9	16,700	1670	.41	.56	.69
	305	650	6.1	20,800	1360	.41	.56	.70	5.8	19,900	1470	.42	.57	.72	5.5	18,800	1590	.42	.58	.73	5.2	17,700	1700	.42	.60	.75
	375	800	6.3	21,600	1370	.43	.58	.76	6.0	20,600	1480	.43	.60	.77	5.7	19,500	1600	.43	.61	.79	5.4	18,300	1710	.44	.63	.82

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

HS23-211 WITH C24-21FC/B24 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	235	500	5.3	18,100	1290	.66	.81	.92	5.1	17,300	1390	.67	.83	.94	4.8	16,300	1490	.69	.86	.97	4.5	15,400	1580	.70	.89	1.00
	305	650	5.7	19,500	1310	.71	.86	1.00	5.5	18,600	1420	.72	.88	1.00	5.2	17,600	1520	.74	.92	1.00	4.8	16,500	1620	.76	.96	1.00
	375	800	6.0	20,600	1330	.76	.91	1.00	5.7	19,600	1430	.78	.94	1.00	5.4	18,500	1540	.80	.97	1.00	5.0	17,200	1640	.83	1.00	1.00
67°F (19.4°C)	235	500	5.5	18,600	1290	.53	.67	.79	5.2	17,700	1400	.54	.68	.80	4.9	16,800	1500	.54	.69	.82	4.7	15,900	1600	.55	.71	.84
	305	650	5.9	20,200	1320	.56	.70	.85	5.7	19,300	1430	.56	.72	.87	5.3	18,200	1530	.57	.74	.89	5.0	17,200	1640	.59	.76	.92
	375	800	6.2	21,300	1340	.58	.73	.92	5.9	20,300	1450	.59	.75	.94	5.6	19,200	1550	.60	.78	.97	5.3	18,100	1660	.62	.81	1.00
71°F (21.7°C)	235	500	5.5	18,900	1300	.40	.54	.66	5.3	18,100	1410	.40	.54	.67	5.0	17,200	1510	.41	.55	.69	4.7	16,200	1610	.41	.56	.70
	305	650	6.1	20,700	1330	.41	.56	.71	5.8	19,700	1440	.41	.58	.72	5.5	18,700	1540	.42	.58	.74	5.2	17,700	1650	.42	.60	.75
	375	800	6.4	21,900	1340	.42	.58	.75	6.1	20,900	1460	.43	.59	.77	5.8	19,800	1570	.43	.61	.79	5.5	18,700	1680	.44	.63	.81

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

HS23-211 WITH CR18-21 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	260	550	5.4	18,600	1300	.74	.88	.99	5.2	17,600	1400	.76	.90	1.00	4.9	16,600	1490	.78	.93	1.00	4.5	15,500	1580	.80	.95	1.00
	305	650	5.7	19,300	1320	.77	.92	1.00	5.4	18,300	1410	.79	.94	1.00	5.1	17,300	1510	.82	.97	1.00	4.7	16,200	1600	.84	.99	1.00
	355	750	5.8	19,900	1330	.81	.96	1.00	5.5	18,900	1430	.83	.98	1.00	5.2	17,800	1520	.85	1.00	1.00	4.9	16,700	1620	.88	1.00	1.00
67°F (19.4°C)	260	550	5.7	19,600	1320	.59	.72	.84	5.4	18,600	1420	.60	.73	.86	5.1	17,500	1520	.61	.75	.89	4.8	16,400	1610	.62	.77	.92
	305	650	6.0	20,300	1330	.61	.75	.89	5.7	19,300	1440	.62	.77	.91	5.3	18,100	1530	.63	.79	.93	5.0	17,000	1630	.65	.82	.96
	355	750	6.1	20,900	1340	.63	.78	.93	5.8	19,800	1450	.64	.80	.95	5.4	18,600	1550	.65	.83	.97	5.1	17,400	1640	.67	.86	1.00
71°F (21.7°C)	260	550	6.0	20,500	1340	.44	.57	.69	5.7	19,400	1440	.45	.58	.71	5.4	18,400	1540	.45	.59	.73	5.0	17,200	1640	.46	.61	.75
	305	650	6.2	21,300	1350	.45	.59	.73	5.9	20,200	1450	.46	.60	.74	5.6	19,000	1560	.46	.62	.76	5.2	17,800	1660	.47	.63	.79
	355	750	6.4	21,900	1360	.46	.61	.76	6.1	20,800	1460	.46	.63	.78	5.7	19,600	1570	.47	.64	.80	5.4	18,300	1670	.48	.66	.83

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

HS23-211 WITH CH22-21 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	235	500	5.4	18,400	1310	.68	.83	.95	5.1	17,400	1420	.70	.85	.98	4.8	16,400	1520	.71	.88	1.00	4.5	15,300	1610	.73	.92	1.00
	305	650	5.7	19,600	1330	.73	.90	1.00	5.4	18,500	1440	.75	.93	1.00	5.1	17,500	1540	.77	.97	1.00	4.8	16,300	1650	.80	.99	1.00
	375	800	6.0	20,500	1350	.79	.97	1.00	5.7	19,400	1450	.81	.99	1.00	5.4	18,400	1560	.83	1.00	1.00	5.1	17,300	1670	.86	1.00	1.00
67°F (19.4°C)	235	500	5.7	19,300	1330	.54	.67	.80	5.4	18,400	1440	.55	.69	.82	5.1	17,300	1540	.56	.70	.84	4.7	16,200	1640	.57	.73	.87
	305	650	6.1	20,700	1350	.57	.72	.87	5.7	19,600	1460	.58	.74	.90	5.4	18,500	1570	.59	.76	.92	5.1	17,300	1680	.61	.79	.96
	375	800	6.3	21,600	1360	.60	.77	.95	6.0	20,500	1470	.61	.79	.98	5.7	19,300	1590	.63	.82	1.00	5.3	18,000	1690	.64	.86	1.00
71°F (21.7°C)	235	500	5.9	20,200	1340	.41	.54	.67	5.6	19,200	1450	.41	.55	.68	5.3	18,200	1560	.42	.56	.70	5.0	17,000	1670	.42	.57	.71
	305	650	6.3	21,600	1360	.42	.57	.72	6.0	20,600	1480	.42	.58	.73	5.7	19,400	1590	.43	.59	.75	5.3	18,200	1700	.43	.61	.77
	375	800	6.6	22,600	1370	.43	.60	.77	6.3	21,500	1490	.44	.61	.79	5.9	20,300	1600	.44	.63	.81	5.5	18,900	1720	.45	.65	.84

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

TXV RATINGS

NOTE — For Temperatures and Capacities not shown in tables, see bulletin — Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HS23-211 WITH C22-21(FC)/B24 OR CR22-21/B24 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	235	500	5.5	18,600	1310	.68	.83	.95	5.2	17,600	1420	.70	.85	.98	4.9	16,600	1520	.71	.88	1.00	4.5	15,400	1610	.73	.92	1.00
	305	650	5.8	19,900	1330	.73	.90	1.00	5.5	18,800	1440	.75	.93	1.00	5.2	17,700	1540	.77	.96	1.00	4.8	16,500	1650	.80	1.00	1.00
	375	800	6.1	20,800	1350	.79	.96	1.00	5.8	19,700	1460	.81	.99	1.00	5.5	18,600	1570	.83	1.00	1.00	5.1	17,500	1680	.86	1.00	1.00
67°F (19.4°C)	235	500	5.7	19,600	1330	.54	.67	.80	5.5	18,600	1440	.55	.69	.82	5.1	17,500	1540	.56	.70	.84	4.8	16,400	1640	.57	.73	.87
	305	650	6.1	20,900	1350	.57	.72	.87	5.8	19,900	1460	.58	.74	.90	5.5	18,700	1570	.59	.76	.92	5.1	17,500	1680	.61	.79	.96
	375	800	6.4	21,900	1360	.60	.77	.95	6.1	20,700	1470	.61	.79	.98	5.7	19,500	1590	.63	.82	1.00	5.3	18,200	1700	.64	.86	1.00
71°F (21.7°C)	235	500	6.0	20,400	1340	.41	.54	.67	5.7	19,500	1450	.41	.55	.68	5.4	18,400	1560	.42	.56	.70	5.0	17,200	1670	.42	.57	.71
	305	650	6.4	21,900	1360	.42	.57	.72	6.1	20,800	1480	.42	.58	.73	5.8	19,700	1590	.43	.59	.75	5.4	18,500	1700	.43	.61	.77
	375	800	6.7	22,900	1370	.43	.60	.77	6.4	21,800	1490	.44	.61	.79	6.0	20,500	1610	.44	.63	.81	5.6	19,100	1720	.45	.65	.84

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

HS23-211 WITH C23-26(FC), C23-26W(FC), C24-26FC/B24 OR C24-26WFC/B24 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	235	500	5.4	18,400	1340	.67	.81	.94	5.1	17,400	1450	.68	.84	.96	4.8	16,300	1550	.70	.87	.99	4.4	15,100	1650	.72	.91	1.00
	305	650	5.8	19,800	1350	.72	.88	1.00	5.5	18,700	1470	.74	.91	1.00	5.1	17,400	1580	.76	.95	1.00	4.7	16,200	1680	.79	.99	1.00
	375	800	6.1	20,700	1360	.77	.94	1.00	5.7	19,600	1480	.79	.97	1.00	5.4	18,300	1590	.82	1.00	1.00	5.0	17,100	1710	.85	1.00	1.00
67°F (19.4°C)	235	500	5.7	19,500	1350	.53	.66	.79	5.4	18,400	1460	.54	.68	.81	5.1	17,300	1570	.55	.70	.83	4.7	16,100	1680	.56	.72	.86
	305	650	6.1	20,900	1360	.56	.70	.86	5.8	19,800	1480	.57	.72	.88	5.5	18,600	1600	.58	.75	.91	5.1	17,300	1710	.60	.78	.94
	375	800	6.4	21,900	1370	.59	.75	.93	6.1	20,700	1490	.60	.77	.95	5.7	19,400	1610	.62	.80	.99	5.3	18,000	1730	.63	.84	1.00
71°F (21.7°C)	235	500	6.0	20,400	1360	.40	.53	.66	5.7	19,300	1470	.41	.54	.67	5.3	18,200	1590	.41	.55	.69	5.0	17,000	1700	.41	.57	.70
	305	650	6.4	21,900	1370	.41	.56	.71	6.1	20,800	1490	.42	.57	.72	5.7	19,600	1620	.42	.58	.74	5.3	18,200	1740	.43	.60	.76
	375	800	6.7	22,900	1380	.43	.58	.75	6.4	21,700	1500	.43	.60	.77	6.0	20,400	1630	.44	.62	.79	5.6	19,000	1760	.44	.64	.82

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

♔HS23-211 WITH CVP10-26/EC10Q3 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	285	600	5.9	20,100	1330	.75	.90	1.00	5.6	19,000	1430	.77	.92	1.00	5.2	17,900	1530	.80	.95	1.00	4.9	16,700	1620	.83	.99	1.00
	330	700	6.1	20,800	1340	.79	.95	1.00	5.8	19,700	1440	.82	.98	1.00	5.5	18,600	1550	.84	.99	1.00	5.2	17,600	1650	.87	1.00	1.00
	380	800	6.3	21,400	1350	.83	.99	1.00	6.0	20,400	1460	.85	1.00	1.00	5.7	19,400	1570	.88	1.00	1.00	5.4	18,300	1670	.92	1.00	1.00
67°F (19.4°C)	285	600	6.3	21,500	1350	.59	.73	.86	5.9	20,300	1460	.60	.74	.88	5.6	19,100	1560	.61	.77	.91	5.2	17,900	1660	.63	.80	.95
	330	700	6.5	22,100	1360	.61	.76	.91	6.2	21,000	1470	.62	.79	.94	5.8	19,700	1570	.64	.81	.97	5.4	18,300	1670	.66	.84	.99
	380	800	6.7	22,700	1370	.63	.81	.96	6.3	21,500	1480	.65	.83	.98	5.9	20,100	1580	.67	.85	1.00	5.5	18,700	1690	.69	.88	1.00
71°F (21.7°C)	285	600	6.7	22,800	1370	.44	.57	.70	6.3	21,600	1480	.45	.58	.72	6.0	20,400	1590	.45	.60	.74	5.6	19,000	1700	.46	.61	.77
	330	700	6.9	23,500	1380	.45	.60	.74	6.5	22,300	1490	.46	.61	.76	6.1	20,900	1600	.46	.62	.79	5.7	19,500	1710	.47	.64	.82
	380	800	7.0	24,000	1380	.46	.62	.78	6.7	22,800	1500	.47	.63	.80	6.3	21,400	1610	.48	.65	.83	5.9	20,000	1720	.49	.67	.86

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

HS23-211 WITH C22-26(FC)/B24 OR C22-26W(FC)/B24 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	235	500	5.7	19,400	1320	.68	.82	.95	5.4	18,400	1430	.69	.84	.97	5.1	17,300	1530	.71	.87	1.00	4.7	16,100	1630	.73	.91	1.00
	305	650	6.1	20,800	1340	.73	.90	1.00	5.7	19,600	1450	.75	.93	1.00	5.4	18,500	1560	.77	.96	1.00	5.0	17,200	1670	.79	1.00	1.00
	375	800	6.4	21,800	1360	.78	.96	1.00	6.0	20,600	1470	.80	.99	1.00	5.7	19,400	1580	.83	1.00	1.00	5.4	18,300	1690	.85	1.00	1.00
67°F (19.4°C)	235	500	6.0	20,400	1340	.54	.67	.80	5.7	19,400	1450	.55	.68	.82	5.3	18,200	1550	.56	.70	.84	5.0	17,100	1660	.57	.72	.86
	305	650	6.4	21,900	1360	.57	.72	.87	6.1	20,700	1470	.58	.73	.89	5.7	19,500	1580	.59	.76	.92	5.3	18,200	1690	.60	.79	.95
	375	800	6.7	22,900	1370	.60	.76	.94	6.4	21,700	1480	.61	.79	.97	6.0	20,400	1600	.62	.82	1.00	5.6	19,000	1710	.64	.86	1.00
71°F (21.7°C)	235	500	6.2	21,300	1350	.41	.54	.67	5.9	20,300	1460	.41	.54	.68	5.6	19,100	1570	.41	.56	.70	5.2	17,900	1680	.42	.57	.71
	305	650	6.7	22,800	1370	.42	.57	.72	6.4	21,700	1480	.42	.58	.73	6.0	20,500	1600	.43	.59	.75	5.6	19,200	1720	.43	.61	.77
	375	800	7.0	23,900	1380	.43	.60	.77	6.7	22,700	1500	.44	.61	.78	6.3	21,400	1620	.44	.63	.81	5.9	20,000	1740	.45	.65	.83

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

TXV RATINGS

NOTE — For Temperatures and Capacities not shown in tables, see bulletin — Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HS23-211 WITH CB19-21 OR CBH19-21 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	215	450	5.6	19,000	1310	.70	.82	.94	5.3	18,000	1410	.72	.84	.96	5.0	16,900	1500	.73	.87	.98	4.6	15,800	1590	.75	.90	1.00
	270	575	5.9	20,200	1330	.75	.89	1.00	5.6	19,100	1430	.76	.91	1.00	5.3	18,000	1530	.79	.94	1.00	5.0	16,900	1620	.81	.97	1.00
	330	700	6.2	21,100	1350	.79	.95	1.00	5.9	20,100	1450	.81	.97	1.00	5.5	18,900	1550	.85	.99	1.00	5.2	17,800	1660	.87	1.00	1.00
67°F (19.4°C)	215	450	5.9	20,200	1330	.56	.68	.79	5.6	19,100	1430	.57	.69	.80	5.3	18,000	1530	.58	.70	.83	5.0	16,900	1620	.59	.72	.86
	270	575	6.3	21,400	1350	.59	.72	.85	5.9	20,300	1460	.60	.74	.88	5.6	19,100	1560	.61	.76	.90	5.2	17,900	1660	.62	.78	.93
	330	700	6.6	22,400	1360	.61	.77	.91	6.2	21,100	1470	.63	.79	.94	5.8	19,900	1580	.64	.81	.97	5.4	18,600	1680	.66	.85	.99
71°F (21.7°C)	215	450	6.2	21,300	1350	.43	.54	.65	5.9	20,300	1460	.43	.55	.66	5.6	19,100	1560	.43	.56	.68	5.2	17,900	1660	.44	.57	.70
	270	575	6.7	22,700	1370	.44	.57	.69	6.3	21,500	1480	.44	.58	.71	5.9	20,300	1590	.45	.59	.73	5.6	19,000	1690	.46	.61	.76
	330	700	6.9	23,600	1380	.45	.60	.74	6.6	22,400	1490	.46	.61	.76	6.2	21,100	1600	.46	.63	.79	5.8	19,700	1710	.47	.65	.82

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

HS23-261 WITH C22-21(FC)/B24 OR CR22-21/B24 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	235	500	6.1	20,700	1690	.64	.78	.89	5.8	19,800	1800	.65	.79	.91	5.5	18,600	1920	.67	.82	.94	5.1	17,400	2020	.68	.84	.97
	330	700	6.7	23,000	1750	.70	.85	1.00	6.4	21,800	1860	.71	.88	1.00	6.0	20,500	1980	.73	.91	1.00	5.6	19,100	2090	.76	.94	1.00
	425	900	7.1	24,300	1780	.76	.93	1.00	6.8	23,100	1900	.78	.95	1.00	6.4	21,700	2020	.80	.98	1.00	5.9	20,300	2130	.83	1.00	1.00
67°F (19.4°C)	235	500	6.4	21,900	1720	.51	.64	.75	6.1	20,800	1840	.52	.65	.77	5.8	19,700	1950	.52	.66	.78	5.4	18,500	2060	.53	.68	.81
	330	700	7.1	24,200	1780	.54	.69	.83	6.7	23,000	1900	.55	.70	.85	6.4	21,700	2020	.56	.72	.88	5.9	20,300	2140	.58	.75	.91
	425	900	7.5	25,600	1810	.58	.74	.92	7.2	24,400	1940	.59	.76	.94	6.7	23,000	2060	.60	.78	.97	6.3	21,400	2180	.62	.81	1.00
71°F (21.7°C)	235	500	6.7	22,900	1740	.39	.52	.63	6.4	21,800	1870	.39	.52	.64	6.1	20,700	1990	.39	.53	.65	5.7	19,500	2100	.40	.54	.67
	330	700	7.4	25,300	1810	.40	.55	.68	7.1	24,100	1930	.40	.55	.70	6.7	22,800	2060	.41	.57	.71	6.3	21,400	2180	.41	.58	.73
	425	900	7.9	26,800	1840	.41	.58	.74	7.5	25,600	1970	.42	.59	.76	7.1	24,100	2110	.42	.60	.78	6.6	22,600	2230	.43	.62	.81

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

HS23-261 WITH CH22-21 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	285	600	6.4	22,000	1720	.67	.81	.93	6.1	20,800	1840	.68	.83	.96	5.7	19,600	1950	.70	.86	.99	5.4	18,400	2050	.71	.89	1.00
	375	800	6.9	23,600	1760	.72	.89	1.00	6.6	22,400	1880	.74	.92	1.00	6.2	21,100	2000	.76	.95	1.00	5.7	19,600	2110	.79	.98	1.00
	470	1000	7.2	24,700	1790	.78	.96	1.00	6.9	23,400	1910	.80	.98	1.00	6.5	22,100	2040	.83	1.00	1.00	6.1	20,800	2160	.85	1.00	1.00
67°F (19.4°C)	285	600	6.8	23,100	1750	.53	.66	.79	6.4	22,000	1870	.54	.67	.80	6.1	20,800	1990	.55	.69	.82	5.7	19,500	2100	.56	.71	.85
	375	800	7.3	24,900	1790	.56	.71	.86	6.9	23,600	1920	.57	.73	.89	6.5	22,300	2040	.58	.75	.91	6.1	20,900	2160	.60	.78	.94
	470	1000	7.6	26,100	1830	.60	.76	.94	7.3	24,800	1950	.61	.78	.97	6.9	23,400	2080	.62	.81	1.00	6.4	21,800	2200	.64	.85	1.00
71°F (21.7°C)	285	600	7.1	24,100	1780	.40	.53	.66	6.7	23,000	1900	.41	.54	.67	6.4	21,800	2030	.41	.55	.68	6.0	20,500	2140	.41	.56	.70
	375	800	7.6	26,000	1820	.42	.56	.71	7.3	24,800	1950	.42	.57	.72	6.9	23,400	2080	.42	.58	.74	6.4	22,000	2210	.43	.60	.76
	470	1000	8.0	27,300	1860	.43	.59	.76	7.6	26,000	1990	.43	.61	.78	7.2	24,500	2120	.44	.62	.80	6.7	23,000	2250	.44	.64	.83

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

HS23-261 WITH CH24-31 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	285	600	6.6	22,600	1730	.65	.79	.91	6.3	21,500	1850	.66	.81	.93	6.0	20,400	1970	.68	.84	.95	5.6	19,100	2070	.69	.87	.99
	375	800	7.1	24,300	1770	.70	.86	1.00	6.8	23,100	1900	.72	.88	1.00	6.4	21,800	2020	.74	.91	1.00	5.9	20,300	2130	.76	.96	1.00
	470	1000	7.5	25,500	1800	.76	.92	1.00	7.0	24,000	1930	.78	.96	1.00	6.7	22,700	2050	.81	.98	1.00	6.3	21,400	2170	.83	1.00	1.00
67°F (19.4°C)	285	600	6.9	23,700	1760	.52	.65	.77	6.7	22,700	1890	.52	.66	.78	6.3	21,500	2010	.53	.67	.80	5.9	20,200	2120	.54	.69	.82
	375	800	7.5	25,600	1810	.55	.69	.84	7.2	24,400	1940	.56	.70	.86	6.8	23,100	2060	.57	.73	.88	6.4	21,700	2180	.58	.75	.91
	470	1000	7.9	26,900	1840	.58	.73	.92	7.5	25,500	1970	.59	.75	.94	7.1	24,100	2100	.60	.78	.97	6.6	22,600	2230	.62	.81	1.00
71°F (21.7°C)	285	600	7.3	24,900	1790	.39	.52	.64	7.0	23,800	1920	.39	.53	.65	6.6	22,500	2050	.40	.54	.66	6.2	21,300	2170	.40	.55	.68
	375	800	7.9	26,800	1840	.40	.55	.69	7.5	25,500	1970	.41	.56	.70	7.1	24,200	2100	.41	.57	.72	6.7	22,800	2230	.42	.59	.74
	470	1000	8.2	28,000	1870	.42	.57	.74	7.9	26,800	2000	.42	.59	.76	7.4	25,300	2140	.43	.60	.78	7.0	23,800	2280	.43	.62	.80

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

TXV RATINGS

NOTE — For Temperatures and Capacities not shown in tables, see bulletin — Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HS23-261 WITH C23-26(FC), C23-26W(FC), C24-26FC/B24 OR C24-26WFC/B24 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	330	700	6.9	23,500	1760	.68	.83	.95	6.5	22,300	1890	.69	.85	.98	6.1	20,900	2010	.71	.88	1.00	5.7	19,500	2120	.73	.92	1.00
	415	875	7.3	24,800	1790	.72	.89	1.00	6.9	23,500	1920	.74	.92	1.00	6.4	21,900	2040	.76	.95	1.00	6.0	20,500	2160	.79	.99	1.00
	495	1050	7.5	25,700	1820	.77	.94	1.00	7.1	24,300	1940	.79	.97	1.00	6.7	22,800	2070	.82	1.00	1.00	6.3	21,400	2200	.85	1.00	1.00
67°F (19.4°C)	330	700	7.2	24,700	1790	.54	.67	.80	6.9	23,500	1920	.55	.69	.82	6.5	22,100	2050	.55	.70	.84	6.1	20,700	2170	.57	.73	.87
	415	875	7.6	26,100	1830	.56	.71	.86	7.3	24,800	1960	.57	.73	.89	6.9	23,400	2090	.58	.75	.91	6.4	21,800	2210	.60	.78	.95
	495	1050	7.9	27,100	1850	.59	.75	.93	7.5	25,700	1990	.60	.77	.96	7.1	24,200	2120	.61	.80	.99	6.6	22,500	2240	.63	.83	1.00
71°F (21.7°C)	330	700	7.6	25,800	1820	.41	.54	.67	7.2	24,600	1960	.41	.55	.68	6.8	23,300	2090	.41	.56	.69	6.4	21,700	2210	.42	.57	.71
	415	875	8.0	27,300	1860	.42	.56	.71	7.6	26,000	1990	.42	.57	.72	7.2	24,600	2130	.42	.58	.74	6.7	23,000	2260	.43	.60	.76
	495	1050	8.3	28,300	1880	.43	.59	.75	7.9	26,900	2020	.43	.60	.77	7.4	25,400	2160	.44	.61	.79	7.0	23,800	2300	.44	.63	.82

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

HS23-261 WITH CR18-31 EVAPORATOR

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	330	700	6.9	23,400	1780	.73	.86	.98	6.5	22,200	1890	.74	.88	.99	6.2	21,000	1990	.76	.91	1.00	5.7	19,600	2090	.78	.93	1.00
	375	800	7.1	24,100	1800	.75	.90	1.00	6.7	22,900	1910	.77	.92	1.00	6.3	21,600	2020	.79	.94	1.00	5.9	20,100	2110	.81	.97	1.00
	425	900	7.2	24,700	1820	.78	.93	1.00	6.9	23,400	1930	.79	.95	1.00	6.5	22,100	2040	.81	.97	1.00	6.0	20,600	2140	.84	.99	1.00
67°F (19.4°C)	330	700	7.3	24,900	1820	.58	.70	.82	6.9	23,700	1940	.59	.72	.84	6.5	22,300	2050	.60	.73	.87	6.1	20,900	2150	.61	.75	.90
	375	800	7.5	25,700	1840	.59	.73	.86	7.1	24,400	1960	.60	.74	.88	6.7	22,900	2070	.62	.76	.91	6.3	21,400	2170	.63	.78	.93
	425	900	7.7	26,200	1860	.61	.75	.90	7.3	24,900	1980	.62	.77	.92	6.9	23,400	2090	.63	.79	.94	6.4	21,800	2190	.65	.81	.97
71°F (21.7°C)	330	700	7.7	26,300	1860	.43	.56	.68	7.3	25,000	1980	.44	.57	.69	6.9	23,600	2100	.44	.58	.71	6.5	22,100	2210	.45	.59	.73
	375	800	7.9	27,100	1880	.44	.58	.70	7.5	25,700	2010	.45	.59	.72	7.1	24,300	2120	.45	.60	.74	6.7	22,700	2230	.46	.61	.76
	425	900	8.1	27,700	1900	.45	.59	.73	7.7	26,300	2020	.45	.61	.74	7.3	24,800	2140	.46	.62	.76	6.8	23,200	2260	.47	.63	.79

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

HS23-261 WITH C23-31(FC, C23-31W(FC), C24-31FC/B24 OR C24-31WFC/B24 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	330	700	6.9	23,600	1770	.68	.82	.95	6.6	22,500	1890	.69	.85	.97	6.2	21,200	2010	.70	.87	1.00	5.8	19,800	2120	.72	.91	1.00
	415	875	7.3	24,900	1800	.72	.88	1.00	6.9	23,600	1920	.74	.91	1.00	6.5	22,100	2040	.76	.95	1.00	6.1	20,700	2160	.78	.98	1.00
	495	1050	7.6	25,900	1820	.77	.94	1.00	7.2	24,400	1950	.79	.97	1.00	6.7	22,900	2070	.81	1.00	1.00	6.3	21,600	2190	.84	1.00	1.00
67°F (19.4°C)	330	700	7.3	24,900	1800	.54	.67	.80	6.9	23,600	1920	.54	.68	.81	6.5	22,300	2050	.55	.70	.84	6.1	20,900	2170	.56	.72	.86
	415	875	7.7	26,300	1830	.56	.70	.86	7.3	25,000	1960	.57	.72	.88	6.9	23,600	2090	.58	.74	.91	6.4	22,000	2210	.59	.77	.94
	495	1050	8.0	27,200	1860	.59	.74	.92	7.6	25,900	1990	.60	.76	.95	7.2	24,400	2120	.61	.79	.98	6.7	22,800	2240	.63	.83	1.00
71°F (21.7°C)	330	700	7.6	26,000	1820	.40	.53	.67	7.3	24,800	1960	.41	.54	.68	6.9	23,400	2090	.41	.56	.69	6.4	22,000	2210	.41	.57	.71
	415	875	8.1	27,500	1860	.41	.56	.71	7.7	26,200	2000	.42	.57	.72	7.2	24,700	2130	.42	.58	.74	6.8	23,200	2260	.43	.60	.76
	495	1050	8.4	28,500	1890	.42	.58	.75	7.9	27,100	2030	.43	.59	.77	7.5	25,600	2160	.43	.61	.79	7.0	24,000	2300	.44	.63	.81

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

HS23-261 WITH C22-26(FC)/B24 OR C22-26W(FC)/B24 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	330	700	6.9	23,700	1770	.69	.84	.97	6.6	22,600	1890	.70	.87	1.00	6.2	21,200	2010	.72	.90	1.00	5.8	19,800	2120	.74	.93	1.00
	415	875	7.3	25,000	1810	.74	.91	1.00	7.0	23,800	1930	.75	.94	1.00	6.5	22,300	2050	.77	.97	1.00	6.1	20,700	2170	.80	1.00	1.00
	495	1050	7.6	26,000	1830	.78	.97	1.00	7.2	24,700	1960	.80	.99	1.00	6.8	23,300	2090	.83	1.00	1.00	6.4	21,900	2210	.85	1.00	1.00
67°F (19.4°C)	330	700	7.3	24,900	1800	.55	.68	.82	6.9	23,700	1930	.55	.69	.83	6.6	22,400	2060	.56	.71	.86	6.2	21,000	2170	.57	.74	.88
	415	875	7.7	26,400	1840	.57	.72	.88	7.4	25,100	1970	.58	.74	.90	6.9	23,600	2100	.59	.76	.93	6.4	22,000	2220	.61	.80	.96
	495	1050	8.0	27,300	1860	.60	.77	.95	7.6	26,000	2000	.61	.79	.97	7.2	24,400	2130	.62	.82	1.00	6.7	22,800	2250	.64	.86	1.00
71°F (21.7°C)	330	700	7.6	26,100	1830	.41	.54	.68	7.3	24,800	1960	.42	.55	.69	6.9	23,500	2090	.42	.56	.71	6.4	22,000	2220	.42	.58	.72
	415	875	8.1	27,500	1870	.42	.57	.72	7.7	26,200	2000	.43	.58	.74	7.3	24,800	2140	.43	.59	.75	6.8	23,200	2270	.44	.61	.78
	495	1050	8.4	28,600	1900	.43	.60	.77	8.0	27,200	2040	.44	.61	.78	7.5	25,700	2170	.44	.63	.81	7.0	24,000	2310	.45	.65	.83

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

TXV RATINGS

NOTE — For Temperatures and Capacities not shown in tables, see bulletin — Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HS23-261 WITH CVP10-26/EC10Q3 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	330	700	7.0	23,800	1800	.74	.88	.99	6.6	22,600	1910	.75	.90	1.00	6.2	21,300	2020	.78	.92	1.00	5.9	20,000	2110	.81	.95	1.00
	380	800	7.2	24,500	1820	.77	.91	1.00	6.8	23,300	1930	.79	.94	1.00	6.4	22,000	2040	.81	.96	1.00	6.0	20,600	2150	.84	.99	1.00
	425	900	7.4	25,200	1830	.80	.95	1.00	7.0	23,900	1950	.82	.98	1.00	6.6	22,600	2070	.84	.99	1.00	6.3	21,400	2180	.87	1.00	1.00
67°F (19.4°C)	330	700	7.4	25,400	1840	.58	.71	.84	7.1	24,100	1960	.59	.73	.86	6.7	22,800	2070	.60	.74	.88	6.2	21,300	2180	.62	.78	.92
	380	800	7.6	26,100	1860	.60	.74	.88	7.3	24,800	1980	.61	.76	.90	6.9	23,400	2100	.62	.79	.93	6.4	21,800	2200	.64	.81	.96
	425	900	7.9	26,800	1880	.62	.78	.91	7.4	25,300	2000	.63	.80	.94	7.0	23,800	2120	.64	.82	.97	6.5	22,200	2220	.66	.84	.99
71°F (21.7°C)	330	700	7.9	27,000	1880	.44	.56	.68	7.5	25,600	2010	.45	.57	.70	7.1	24,200	2130	.45	.59	.72	6.7	22,700	2240	.46	.60	.74
	380	800	8.1	27,700	1900	.45	.58	.71	7.7	26,300	2030	.45	.59	.73	7.3	24,800	2150	.46	.61	.76	6.8	23,200	2270	.47	.62	.79
	425	900	8.3	28,300	1920	.46	.60	.74	7.9	26,900	2050	.46	.61	.77	7.4	25,300	2170	.47	.63	.79	6.9	23,600	2290	.48	.65	.82

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

HS23-261 WITH CH22-31 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	320	675	6.9	23,700	1770	.68	.83	.95	6.6	22,600	1890	.69	.85	.98	6.2	21,300	2010	.71	.88	1.00	5.9	20,000	2130	.72	.92	1.00
	415	875	7.4	25,200	1810	.73	.90	1.00	7.0	24,000	1930	.75	.93	1.00	6.6	22,500	2060	.77	.97	1.00	6.2	21,100	2180	.79	1.00	1.00
	505	1075	7.6	26,100	1830	.79	.97	1.00	7.3	24,900	1960	.81	.99	1.00	7.0	23,800	2100	.83	1.00	1.00	6.6	22,400	2230	.85	1.00	1.00
67°F (19.4°C)	320	675	7.3	24,900	1800	.54	.67	.80	7.0	23,800	1930	.55	.69	.82	6.6	22,500	2060	.56	.71	.84	6.2	21,100	2180	.57	.73	.86
	415	875	7.8	26,500	1840	.57	.72	.88	7.4	25,300	1970	.58	.74	.90	7.0	23,900	2100	.59	.76	.92	6.6	22,500	2230	.60	.79	.95
	505	1075	8.1	27,500	1870	.60	.76	.95	7.7	26,300	2000	.61	.79	.98	7.3	24,800	2140	.62	.82	1.00	6.8	23,300	2270	.64	.86	1.00
71°F (21.7°C)	320	675	7.6	26,100	1830	.41	.54	.67	7.3	24,900	1960	.41	.55	.68	6.9	23,600	2090	.41	.56	.69	6.5	22,200	2220	.42	.57	.71
	415	875	8.1	27,700	1870	.42	.57	.72	7.8	26,500	2010	.42	.58	.73	7.4	25,100	2150	.43	.59	.75	6.9	23,600	2280	.43	.61	.77
	505	1075	8.4	28,800	1900	.43	.59	.77	8.1	27,500	2040	.44	.61	.79	7.6	26,000	2190	.44	.63	.81	7.2	24,400	2320	.45	.65	.83

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

HS23-261 WITH CB19-21 OR CBH19-21 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	235	500	6.5	22,100	1740	.69	.80	.91	6.2	21,000	1850	.70	.81	.92	5.8	19,900	1960	.71	.83	.95	5.4	18,600	2050	.72	.86	.97
	295	625	6.9	23,400	1780	.72	.85	.96	6.5	22,300	1900	.73	.87	.98	6.2	21,000	2010	.75	.89	1.00	5.8	19,800	2100	.77	.92	1.00
	355	750	7.2	24,500	1810	.75	.90	1.00	6.8	23,300	1930	.77	.92	1.00	6.4	21,900	2040	.79	.94	1.00	6.0	20,600	2150	.82	.97	1.00
67°F (19.4°C)	235	500	6.9	23,400	1780	.55	.66	.76	6.5	22,300	1900	.56	.67	.78	6.2	21,100	2010	.57	.68	.79	5.8	19,900	2110	.57	.70	.82
	295	625	7.3	24,900	1830	.57	.69	.81	6.9	23,700	1940	.58	.71	.83	6.6	22,400	2060	.59	.72	.85	6.2	21,000	2160	.60	.74	.88
	355	750	7.6	25,900	1860	.59	.73	.86	7.2	24,600	1980	.60	.74	.88	6.8	23,300	2090	.61	.76	.91	6.4	21,700	2200	.63	.79	.94
71°F (21.7°C)	235	500	7.3	24,800	1820	.43	.53	.63	6.9	23,600	1940	.43	.54	.64	6.6	22,400	2060	.43	.55	.65	6.2	21,100	2170	.44	.56	.67
	295	625	7.7	26,300	1860	.43	.55	.67	7.3	25,000	1990	.44	.56	.68	6.9	23,700	2110	.44	.57	.70	6.5	22,200	2220	.45	.58	.72
	355	750	8.0	27,400	1890	.44	.58	.70	7.6	26,000	2020	.45	.59	.72	7.2	24,600	2150	.45	.60	.74	6.7	23,000	2260	.46	.61	.76

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

HS23-261 WITH C22-31(FC)/B24, C22-31W(FC)/B24, CR22-31/B24 OR CR22-31W/B24 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	330	700	7.2	24,400	1790	.69	.84	.97	6.7	23,000	1920	.70	.86	1.00	6.3	21,600	2040	.72	.89	1.00	5.9	20,000	2150	.74	.94	1.00
	415	875	7.5	25,600	1830	.74	.91	1.00	7.1	24,200	1950	.75	.94	1.00	6.6	22,600	2070	.78	.98	1.00	6.2	21,200	2190	.80	1.00	1.00
	495	1050	7.7	26,400	1850	.79	.97	1.00	7.3	25,000	1980	.81	1.00	1.00	6.9	23,700	2110	.83	1.00	1.00	6.6	22,400	2240	.86	1.00	1.00
67°F (19.4°C)	330	700	7.6	25,800	1830	.55	.68	.81	7.2	24,500	1960	.55	.69	.83	6.7	23,000	2090	.56	.71	.85	6.3	21,500	2210	.57	.73	.88
	415	875	8.0	27,200	1870	.57	.72	.88	7.5	25,700	2000	.58	.74	.90	7.1	24,200	2130	.59	.76	.93	6.6	22,600	2250	.61	.80	.96
	495	1050	8.2	28,000	1890	.60	.77	.95	7.8	26,600	2020	.61	.79	.97	7.3	25,000	2160	.62	.82	1.00	6.8	23,200	2290	.64	.86	1.00
71°F (21.7°C)	330	700	8.0	27,200	1870	.41	.54	.68	7.6	25,900	2000	.41	.55	.69	7.2	24,400	2140	.42	.56	.70	6.7	22,900	2270	.42	.57	.72
	415	875	8.4	28,700	1900	.42	.57	.72	8.0	27,200	2040	.42	.58	.73	7.5	25,600	2180	.43	.59	.75	7.0	23,900	2320	.43	.61	.77
	495	1050	8.7	29,600	1930	.43	.59	.76	8.2	28,100	2070	.44	.61	.78	7.7	26,400	2210	.44	.62	.80	7.2	24,600	2350	.45	.64	.83

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

TXV RATINGS

NOTE — For Temperatures and Capacities not shown in tables, see bulletin — Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HS23-261 WITH CB19-26 OR CBH19-26 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	285	600	6.8	23,200	1780	.71	.84	.95	6.4	22,000	1890	.73	.86	.97	6.1	20,900	2000	.74	.88	.99	5.7	19,600	2090	.76	.91	1.00
	355	750	7.2	24,500	1810	.75	.90	1.00	6.8	23,300	1930	.77	.92	1.00	6.4	21,900	2040	.79	.94	1.00	6.0	20,600	2150	.81	.97	1.00
	425	900	7.5	25,500	1840	.80	.95	1.00	7.1	24,300	1960	.82	.97	1.00	6.7	23,000	2080	.85	.99	1.00	6.3	21,500	2190	.87	1.00	1.00
67°F (19.4°C)	285	600	7.2	24,700	1820	.57	.69	.80	6.9	23,400	1940	.58	.70	.82	6.5	22,100	2050	.58	.71	.84	6.1	20,800	2150	.60	.73	.87
	355	750	7.6	26,000	1860	.59	.73	.86	7.2	24,600	1980	.60	.74	.88	6.8	23,300	2090	.61	.76	.91	6.4	21,700	2200	.63	.79	.94
	425	900	7.9	26,900	1880	.62	.77	.91	7.5	25,500	2000	.63	.79	.94	7.0	24,000	2120	.64	.81	.96	6.6	22,500	2230	.66	.85	.99
71°F (21.7°C)	285	600	7.6	26,000	1860	.43	.55	.66	7.3	24,800	1980	.44	.56	.67	6.9	23,400	2100	.44	.57	.69	6.4	22,000	2210	.44	.58	.71
	355	750	8.0	27,400	1890	.44	.58	.70	7.6	26,000	2020	.45	.59	.72	7.2	24,600	2150	.45	.60	.74	6.7	23,000	2260	.46	.61	.76
	425	900	8.3	28,400	1920	.45	.60	.75	7.9	26,900	2050	.46	.62	.76	7.4	25,400	2180	.46	.63	.79	6.9	23,700	2290	.47	.65	.83

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

HS23-311 WITH CH24-31 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	285	600	7.9	26,800	2110	.64	.77	.87	7.6	25,800	2280	.64	.78	.88	7.2	24,700	2440	.65	.80	.90	6.9	23,400	2590	.67	.82	.92
	375	800	8.5	29,000	2170	.69	.82	.96	8.2	27,900	2340	.70	.84	.98	7.8	26,600	2510	.71	.86	1.00	7.4	25,300	2680	.73	.88	1.00
	470	1000	8.9	30,500	2200	.74	.86	1.00	8.6	29,300	2390	.75	.88	1.00	8.2	27,900	2560	.77	.91	1.00	7.8	26,500	2730	.79	.94	1.00
67°F (19.4°C)	285	600	8.3	28,200	2150	.50	.64	.74	7.9	27,000	2320	.51	.65	.76	7.6	25,900	2490	.52	.66	.77	7.3	24,800	2650	.52	.68	.78
	375	800	8.9	30,500	2200	.54	.67	.81	8.6	29,300	2390	.54	.69	.82	8.2	28,000	2570	.55	.70	.84	7.8	26,700	2740	.56	.72	.86
	470	1000	9.4	32,100	2240	.57	.71	.88	9.0	30,800	2430	.57	.72	.89	8.6	29,400	2620	.58	.74	.91	8.2	28,000	2800	.59	.76	.94
71°F (21.7°C)	285	600	8.6	29,400	2180	.38	.52	.63	8.3	28,300	2360	.38	.53	.64	8.0	27,200	2530	.39	.53	.64	7.6	25,900	2700	.39	.54	.65
	375	800	9.3	31,900	2240	.39	.54	.67	9.0	30,700	2430	.40	.55	.68	8.6	29,400	2610	.40	.56	.70	8.2	28,000	2800	.40	.57	.71
	470	1000	9.8	33,600	2270	.41	.57	.72	9.4	32,200	2470	.41	.57	.74	9.0	30,800	2670	.41	.58	.75	8.6	29,300	2860	.42	.60	.77

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

HS23-311 WITH CR18-31 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	425	900	8.3	28,300	2180	.74	.87	.98	7.9	27,000	2340	.75	.89	1.00	7.5	25,700	2500	.76	.91	1.00	7.1	24,200	2650	.78	.93	1.00
	495	1050	8.6	29,300	2210	.76	.91	1.00	8.2	27,900	2370	.78	.93	1.00	7.8	26,500	2530	.80	.95	1.00	7.3	25,000	2690	.82	.97	1.00
	565	1200	8.8	30,100	2230	.79	.94	1.00	8.4	28,600	2400	.81	.96	1.00	8.0	27,200	2560	.83	.98	1.00	7.5	25,700	2720	.85	1.00	1.00
67°F (19.4°C)	425	900	8.8	30,100	2230	.58	.71	.83	8.4	28,800	2400	.59	.72	.85	8.0	27,300	2570	.60	.74	.87	7.6	25,800	2720	.61	.76	.90
	495	1050	9.1	31,100	2250	.60	.74	.87	8.7	29,700	2430	.61	.75	.90	8.2	28,100	2600	.62	.77	.92	7.8	26,500	2760	.63	.79	.94
	565	1200	9.3	31,900	2270	.62	.77	.91	8.9	30,400	2450	.63	.78	.93	8.4	28,800	2630	.64	.80	.96	7.9	27,100	2790	.65	.83	.98
71°F (21.7°C)	425	900	9.3	31,900	2270	.44	.57	.68	8.9	30,500	2450	.44	.57	.70	8.5	28,900	2630	.45	.58	.71	8.0	27,400	2810	.45	.60	.73
	495	1050	9.6	32,900	2290	.45	.58	.71	9.2	31,400	2480	.45	.59	.73	8.7	29,800	2670	.46	.61	.74	8.3	28,200	2840	.46	.62	.77
	565	1200	9.9	33,800	2310	.45	.60	.74	9.4	32,100	2500	.46	.61	.76	8.9	30,500	2690	.47	.63	.78	8.4	28,800	2870	.47	.64	.80

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

♲HS23-311 WITH CVP10-31/EC10Q3 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	425	900	8.5	29,000	2200	.73	.87	.99	8.1	27,800	2370	.74	.89	1.00	7.7	26,300	2530	.76	.91	1.00	7.3	24,800	2680	.78	.93	1.00
	495	1050	8.8	30,000	2220	.76	.91	1.00	8.4	28,600	2400	.78	.93	1.00	7.9	27,100	2560	.79	.95	1.00	7.5	25,600	2720	.82	.98	1.00
	565	1200	9.1	30,900	2240	.79	.95	1.00	8.6	29,400	2420	.81	.97	1.00	8.2	27,900	2590	.83	.99	1.00	7.8	26,600	2770	.86	1.00	1.00
67°F (19.4°C)	425	900	9.1	31,100	2250	.58	.71	.83	8.7	29,600	2430	.59	.72	.85	8.2	28,000	2600	.60	.73	.87	7.8	26,500	2760	.61	.75	.89
	495	1050	9.4	32,100	2270	.60	.73	.87	8.9	30,500	2450	.60	.75	.89	8.5	29,000	2630	.62	.77	.92	8.0	27,400	2800	.63	.80	.94
	565	1200	9.6	32,800	2290	.61	.76	.91	9.2	31,300	2480	.62	.78	.93	8.7	29,700	2660	.64	.81	.96	8.2	28,000	2830	.65	.83	.99
71°F (21.7°C)	425	900	9.7	33,100	2300	.44	.56	.68	9.3	31,600	2490	.44	.57	.69	8.8	30,000	2670	.45	.58	.70	8.3	28,300	2850	.45	.59	.72
	495	1050	10.0	34,100	2320	.45	.58	.71	9.5	32,500	2520	.45	.59	.72	9.0	30,800	2710	.46	.60	.74	8.5	29,100	2890	.46	.61	.76
	565	1200	10.2	34,900	2340	.46	.60	.74	9.7	33,200	2540	.46	.61	.76	9.2	31,500	2730	.47	.62	.77	8.7	29,800	2920	.47	.64	.80

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

TXV RATINGS

NOTE — For Temperatures and Capacities not shown in tables, see bulletin — Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HS23-311 WITH C23-31(FC), C23-31W(FC), C24-31FC/B24 OR C24-31WFC/B24 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	425	900	8.5	29,100	2210	.70	.84	.96	8.1	27,800	2390	.71	.86	.98	7.8	26,500	2560	.72	.88	1.00	7.3	25,000	2730	.74	.91	1.00
	505	1075	8.9	30,300	2240	.74	.88	1.00	8.5	28,900	2420	.75	.91	1.00	8.0	27,400	2600	.77	.93	1.00	7.6	25,900	2770	.78	.96	1.00
	590	1250	9.1	31,200	2250	.77	.92	1.00	8.7	29,700	2440	.79	.95	1.00	8.3	28,300	2630	.81	.97	1.00	7.8	26,500	2800	.83	1.00	1.00
67°F (19.4°C)	425	900	8.9	30,500	2240	.55	.69	.82	8.6	29,200	2430	.56	.71	.83	8.2	27,900	2620	.57	.72	.85	7.8	26,500	2800	.57	.74	.87
	505	1075	9.3	31,700	2270	.57	.72	.87	8.9	30,400	2460	.58	.74	.88	8.5	29,000	2660	.59	.75	.90	8.0	27,400	2840	.60	.77	.93
	590	1250	9.6	32,800	2290	.60	.75	.92	9.2	31,300	2490	.60	.76	.94	8.7	29,800	2690	.62	.79	.96	8.3	28,200	2880	.63	.81	.98
71°F (21.7°C)	425	900	9.3	31,900	2270	.41	.56	.69	9.0	30,600	2470	.42	.56	.70	8.6	29,200	2660	.42	.57	.71	8.1	27,800	2860	.42	.58	.72
	505	1075	9.8	33,300	2300	.42	.57	.72	9.3	31,800	2500	.42	.58	.73	8.9	30,300	2710	.43	.59	.75	8.4	28,800	2910	.43	.61	.76
	590	1250	10.1	34,300	2320	.43	.59	.76	9.6	32,800	2530	.43	.60	.77	9.2	31,300	2740	.44	.61	.79	8.7	29,700	2950	.44	.63	.80

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

HS23-311 WITH C22-31(FC)/B24, C22-31W(FC)/B24, CR22-31/B24 OR CR22-31W/B24 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	425	900	8.8	29,900	2240	.72	.86	.99	8.3	28,400	2430	.73	.89	1.00	7.9	27,000	2610	.75	.91	1.00	7.4	25,400	2780	.76	.94	1.00
	505	1075	9.1	30,900	2270	.76	.92	1.00	8.6	29,500	2460	.77	.94	1.00	8.2	28,100	2650	.79	.97	1.00	7.7	26,400	2830	.81	.99	1.00
	590	1250	9.4	32,000	2290	.79	.96	1.00	8.9	30,400	2490	.81	.98	1.00	8.5	28,900	2680	.83	1.00	1.00	8.0	27,400	2880	.85	1.00	1.00
67°F (19.4°C)	425	900	9.3	31,700	2280	.57	.70	.84	8.9	30,200	2480	.57	.72	.86	8.4	28,700	2670	.58	.73	.87	7.9	27,100	2860	.59	.75	.90
	505	1075	9.6	32,900	2310	.59	.74	.89	9.2	31,300	2510	.60	.76	.91	8.7	29,700	2710	.61	.78	.93	8.2	28,100	2910	.62	.80	.96
	590	1250	9.9	33,800	2330	.61	.77	.94	9.4	32,200	2540	.62	.79	.96	8.9	30,500	2740	.63	.82	.99	8.4	28,700	2950	.65	.84	1.00
71°F (21.7°C)	425	900	9.8	33,300	2320	.42	.56	.70	9.3	31,900	2530	.43	.57	.71	8.9	30,400	2740	.43	.58	.73	8.4	28,800	2950	.43	.59	.74
	505	1075	10.2	34,700	2350	.43	.58	.74	9.7	33,100	2560	.44	.59	.75	9.2	31,400	2780	.44	.60	.77	8.7	29,800	2990	.44	.62	.78
	590	1250	10.4	35,600	2360	.44	.60	.78	10.0	34,100	2590	.45	.62	.79	9.5	32,400	2810	.45	.63	.81	8.9	30,500	3030	.45	.65	.83

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

HS23-311 WITH CH22-31 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	375	800	8.3	28,400	2190	.69	.83	.94	8.0	27,300	2370	.70	.85	.96	7.6	26,100	2550	.71	.87	.98	7.3	24,800	2720	.72	.90	1.00
	470	1000	8.7	29,700	2220	.74	.87	1.00	8.4	28,600	2410	.75	.90	1.00	8.0	27,300	2590	.76	.93	1.00	7.6	26,000	2770	.78	.96	1.00
	565	1200	9.0	30,700	2240	.78	.91	1.00	8.6	29,500	2440	.80	.95	1.00	8.3	28,300	2630	.81	.98	1.00	7.9	27,000	2830	.83	1.00	1.00
67°F (19.4°C)	375	800	8.8	29,900	2230	.54	.68	.80	8.4	28,800	2410	.55	.70	.82	8.1	27,600	2600	.56	.71	.83	7.7	26,200	2780	.56	.73	.85
	470	1000	9.2	31,300	2260	.57	.72	.87	8.8	30,100	2450	.58	.73	.88	8.4	28,800	2650	.59	.75	.90	8.1	27,500	2840	.60	.77	.92
	565	1200	9.4	32,100	2280	.60	.74	.93	9.1	31,200	2480	.61	.76	.94	8.8	29,900	2680	.62	.79	.96	8.3	28,400	2890	.63	.81	.99
71°F (21.7°C)	375	800	9.2	31,400	2260	.41	.55	.68	8.9	30,200	2450	.41	.55	.68	8.5	28,900	2650	.41	.56	.70	8.1	27,500	2850	.42	.58	.71
	470	1000	9.6	32,900	2290	.42	.57	.72	9.3	31,600	2500	.42	.58	.73	8.9	30,200	2700	.43	.59	.74	8.4	28,800	2910	.43	.61	.76
	565	1200	9.9	33,800	2310	.43	.59	.77	9.6	32,600	2520	.43	.60	.78	9.2	31,400	2740	.44	.61	.79	8.7	29,800	2960	.44	.63	.81

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

HS23-311 WITH CH22-41 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	400	850	8.4	28,600	2190	.70	.84	.96	8.1	27,700	2380	.71	.86	.98	7.8	26,600	2560	.72	.89	1.00	7.4	25,300	2740	.73	.92	1.00
	495	1050	8.8	29,900	2230	.75	.88	1.00	8.4	28,800	2410	.76	.91	1.00	8.1	27,600	2600	.77	.94	1.00	7.7	26,400	2800	.79	.98	1.00
	590	1250	9.1	30,900	2250	.79	.92	1.00	8.7	29,800	2440	.81	.95	1.00	8.4	28,700	2640	.82	.99	1.00	8.1	27,500	2850	.83	1.00	1.00
67°F (19.4°C)	400	850	8.9	30,300	2230	.55	.69	.82	8.6	29,400	2430	.56	.71	.83	8.2	28,100	2620	.56	.73	.84	7.9	26,800	2810	.57	.75	.86
	495	1050	9.2	31,500	2260	.58	.72	.88	8.9	30,300	2460	.59	.74	.90	8.5	29,100	2660	.59	.76	.91	8.1	27,800	2860	.60	.79	.93
	590	1250	9.6	32,600	2280	.61	.75	.94	9.1	31,200	2480	.62	.77	.96	8.7	29,800	2680	.63	.80	.98	8.4	28,600	2890	.64	.83	1.00
71°F (21.7°C)	400	850	9.4	32,100	2270	.41	.56	.69	9.1	30,900	2470	.42	.56	.69	8.7	29,700	2680	.42	.58	.70	8.3	28,300	2880	.42	.59	.72
	495	1050	9.7	33,000	2290	.43	.58	.73	9.4	32,000	2500	.43	.59	.74	9.0	30,700	2720	.43	.60	.75	8.6	29,400	2930	.43	.62	.77
	590	1250	10.0	34,000	2310	.44	.60	.77	9.6	32,800	2530	.44	.61	.79	9.2	31,500	2740	.44	.62	.80	8.8	30,000	2960	.45	.64	.82

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

TXV RATINGS

NOTE — For Temperatures and Capacities not shown in tables, see bulletin — Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HS23-311 WITH CR18-41 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	425	900	8.5	29,100	2200	.74	.87	.98	8.1	27,800	2370	.75	.89	1.00	7.7	26,400	2530	.76	.92	1.00	7.3	24,900	2680	.78	.94	1.00
	495	1050	8.8	30,100	2230	.77	.91	1.00	8.4	28,700	2400	.78	.93	1.00	8.0	27,200	2560	.80	.95	1.00	7.5	25,700	2720	.82	.98	1.00
	565	1200	9.1	30,900	2250	.79	.95	1.00	8.6	29,400	2420	.81	.97	1.00	8.2	27,900	2590	.83	.99	1.00	7.8	26,500	2760	.85	1.00	1.00
67°F (19.4°C)	425	900	9.1	31,000	2250	.58	.71	.83	8.6	29,500	2420	.59	.72	.85	8.2	28,000	2600	.60	.74	.87	7.8	26,500	2760	.61	.76	.90
	495	1050	9.4	32,000	2270	.60	.74	.88	8.9	30,500	2450	.61	.75	.90	8.5	28,900	2630	.62	.77	.92	8.0	27,200	2800	.63	.79	.95
	565	1200	9.6	32,800	2290	.62	.77	.92	9.1	31,200	2470	.63	.79	.94	8.6	29,500	2660	.64	.81	.96	8.1	27,800	2830	.65	.83	.98
71°F (21.7°C)	425	900	9.6	32,700	2290	.44	.57	.68	9.1	31,200	2480	.44	.57	.70	8.7	29,700	2660	.44	.58	.71	8.2	28,100	2840	.45	.60	.73
	495	1050	9.9	33,800	2310	.44	.59	.71	9.4	32,200	2510	.45	.60	.73	9.0	30,600	2700	.46	.61	.75	8.5	28,900	2880	.46	.62	.77
	565	1200	10.2	34,700	2330	.45	.60	.74	9.7	33,000	2530	.46	.62	.76	9.2	31,300	2720	.47	.63	.78	8.6	29,500	2910	.47	.64	.80

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

HS23-311 WITH C23-41(FC), C23-41W(FC), C24-41FC/B24, C24-41WFC/B24 OR CH24-41 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	425	900	8.6	29,400	2220	.70	.85	.97	8.2	28,100	2390	.71	.87	.99	7.8	26,700	2570	.73	.89	1.00	7.4	25,200	2740	.74	.92	1.00
	505	1075	9.0	30,600	2240	.74	.89	1.00	8.6	29,200	2430	.75	.91	1.00	8.1	27,700	2610	.77	.94	1.00	7.7	26,200	2790	.79	.97	1.00
	590	1250	9.2	31,500	2260	.78	.93	1.00	8.8	30,000	2450	.79	.95	1.00	8.4	28,600	2640	.81	.98	1.00	7.9	26,900	2820	.83	1.00	1.00
67°F (19.4°C)	425	900	9.0	30,800	2250	.55	.70	.82	8.6	29,500	2440	.56	.71	.84	8.2	28,100	2630	.57	.72	.86	7.8	26,700	2810	.58	.74	.88
	505	1075	9.4	32,200	2280	.58	.72	.87	9.0	30,800	2470	.58	.74	.89	8.6	29,300	2670	.59	.76	.91	8.1	27,700	2860	.60	.78	.93
	590	1250	9.7	33,200	2300	.60	.75	.92	9.3	31,700	2500	.61	.77	.94	8.8	30,100	2700	.62	.79	.96	8.4	28,500	2890	.63	.82	.99
71°F (21.7°C)	425	900	9.5	32,300	2280	.42	.56	.69	9.1	30,900	2480	.42	.57	.70	8.6	29,400	2680	.42	.58	.71	8.2	28,000	2870	.42	.59	.73
	505	1075	9.9	33,700	2310	.42	.57	.73	9.4	32,200	2510	.43	.58	.74	9.0	30,700	2720	.43	.60	.75	8.5	29,100	2920	.43	.61	.77
	590	1250	10.1	34,600	2330	.43	.59	.76	9.7	33,200	2540	.44	.60	.78	9.3	31,600	2750	.44	.62	.79	8.8	30,000	2960	.45	.63	.81

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

♤ HS23-311 WITH CVP10-41/EC10Q3 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	425	900	8.8	29,900	2220	.74	.88	.99	8.4	28,500	2390	.75	.89	1.00	7.9	26,900	2560	.77	.92	1.00	7.5	25,500	2710	.80	.95	1.00
	495	1050	9.0	30,800	2240	.77	.92	1.00	8.6	29,400	2420	.78	.94	1.00	8.2	27,900	2590	.81	.96	1.00	7.7	26,400	2760	.83	.99	1.00
	565	1200	9.3	31,700	2260	.81	.96	1.00	8.9	30,200	2450	.83	.98	1.00	8.5	28,900	2630	.85	1.00	1.00	8.1	27,500	2810	.87	1.00	1.00
67°F (19.4°C)	425	900	9.3	31,900	2270	.58	.71	.84	8.9	30,400	2450	.59	.72	.86	8.4	28,700	2630	.60	.74	.88	8.0	27,200	2800	.61	.76	.90
	495	1050	9.6	32,900	2290	.60	.74	.88	9.2	31,300	2480	.61	.76	.90	8.7	29,700	2660	.62	.79	.93	8.2	28,100	2840	.64	.81	.96
	565	1200	9.9	33,700	2310	.62	.77	.92	9.4	32,100	2500	.63	.80	.95	8.9	30,400	2690	.64	.82	.98	8.4	28,700	2870	.66	.84	.99
71°F (21.7°C)	425	900	9.9	33,900	2310	.44	.56	.68	9.5	32,400	2510	.45	.57	.70	9.0	30,700	2700	.45	.58	.71	8.5	29,100	2890	.45	.60	.73
	495	1050	10.3	35,000	2340	.45	.58	.71	9.8	33,300	2540	.45	.59	.73	9.3	31,600	2740	.46	.61	.75	8.8	29,900	2930	.47	.62	.78
	565	1200	10.5	35,800	2360	.46	.60	.75	10.0	34,200	2560	.46	.62	.78	9.5	32,400	2770	.47	.63	.80	8.9	30,500	2960	.48	.64	.82

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

HS23-311 WITH C22-31(FC)/B24 OR C22-31W(FC)/B24 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	425	900	8.8	29,900	2240	.72	.86	.99	8.3	28,400	2430	.73	.89	1.00	7.9	27,000	2610	.75	.91	1.00	7.4	25,400	2780	.76	.94	1.00
	505	1075	9.1	30,900	2270	.76	.92	1.00	8.6	29,500	2460	.77	.94	1.00	8.2	28,100	2650	.79	.97	1.00	7.7	26,400	2830	.81	.99	1.00
	590	1250	9.4	32,000	2290	.79	.96	1.00	8.9	30,400	2490	.81	.98	1.00	8.5	28,900	2680	.83	1.00	1.00	8.0	27,400	2880	.85	1.00	1.00
67°F (19.4°C)	425	900	9.3	31,700	2280	.57	.70	.84	8.9	30,200	2480	.57	.72	.86	8.4	28,700	2670	.58	.73	.87	7.9	27,100	2860	.59	.75	.90
	505	1075	9.6	32,900	2310	.59	.74	.89	9.2	31,300	2510	.60	.76	.91	8.7	29,700	2710	.61	.78	.93	8.2	28,100	2910	.62	.80	.96
	590	1250	9.9	33,800	2330	.61	.77	.94	9.4	32,200	2540	.62	.79	.96	8.9	30,500	2740	.63	.82	.99	8.4	28,700	2950	.65	.84	1.00
71°F (21.7°C)	425	900	9.8	33,300	2320	.42	.56	.70	9.3	31,900	2530	.43	.57	.71	8.9	30,400	2740	.43	.58	.73	8.4	28,800	2950	.43	.59	.74
	505	1075	10.2	34,700	2350	.43	.58	.74	9.7	33,100	2560	.44	.59	.75	9.2	31,400	2780	.44	.60	.77	8.7	29,800	2990	.44	.62	.78
	590	1250	10.4	35,600	2360	.44	.60	.78	10.0	34,100	2590	.45	.62	.79	9.5	32,400	2810	.45	.63	.81	8.9	30,500	3030	.45	.65	.83

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

TXV RATINGS

NOTE — For Temperatures and Capacities not shown in tables, see bulletin — Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HS23-311 WITH C22-41(FC)/B24 OR CR22-41/B24 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	425	900	9.0	30,600	2250	.72	.87	.99	8.5	29,000	2430	.73	.89	1.00	8.1	27,600	2610	.75	.92	1.00	7.6	26,000	2780	.77	.94	1.00
	505	1075	9.3	31,700	2280	.76	.92	1.00	8.9	30,200	2470	.78	.95	1.00	8.4	28,700	2650	.79	.97	1.00	7.9	27,000	2840	.81	1.00	1.00
	590	1250	9.6	32,800	2300	.80	.97	1.00	9.1	31,200	2490	.82	.99	1.00	8.7	29,600	2690	.83	1.00	1.00	8.2	28,100	2890	.85	1.00	1.00
67°F (19.4°C)	425	900	9.5	32,400	2290	.57	.71	.84	9.1	30,900	2480	.57	.72	.86	8.6	29,300	2680	.58	.74	.88	8.1	27,700	2870	.59	.76	.90
	505	1075	9.8	33,600	2310	.59	.74	.89	9.4	32,000	2520	.60	.76	.91	8.9	30,400	2720	.61	.78	.93	8.4	28,700	2920	.62	.80	.96
	590	1250	10.1	34,600	2330	.61	.78	.94	9.6	32,900	2540	.62	.80	.97	9.2	31,300	2750	.63	.82	.99	8.6	29,400	2960	.65	.85	1.00
71°F (21.7°C)	425	900	10.0	34,100	2330	.42	.56	.71	9.6	32,600	2530	.43	.57	.72	9.1	31,100	2740	.43	.58	.73	8.6	29,400	2950	.43	.59	.74
	505	1075	10.4	35,500	2350	.43	.58	.74	9.9	33,900	2570	.44	.59	.75	9.4	32,200	2780	.44	.61	.77	8.9	30,400	3000	.45	.62	.79
	590	1250	10.7	36,500	2370	.44	.61	.78	10.2	34,800	2590	.45	.62	.79	9.7	33,100	2820	.45	.63	.81	9.1	31,200	3040	.46	.65	.83

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

HS23-311 WITH CB19-31 OR CBH19-31 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	355	750	8.5	28,900	2200	.72	.84	.96	8.1	27,500	2360	.73	.86	.98	7.6	26,100	2520	.74	.88	.99	7.2	24,700	2670	.76	.91	1.00
	450	950	8.9	30,500	2240	.76	.91	1.00	8.5	29,100	2410	.78	.93	1.00	8.1	27,600	2580	.80	.95	1.00	7.6	26,000	2730	.82	.98	1.00
	545	1150	9.3	31,800	2270	.81	.97	1.00	8.9	30,300	2450	.83	.98	1.00	8.4	28,700	2630	.85	.99	1.00	8.0	27,300	2800	.87	1.00	1.00
67°F (19.4°C)	355	750	9.0	30,700	2240	.57	.69	.81	8.6	29,200	2410	.58	.70	.82	8.1	27,800	2580	.58	.72	.84	7.7	26,300	2740	.60	.73	.87
	450	950	9.5	32,400	2280	.60	.74	.87	9.0	30,800	2460	.61	.75	.89	8.6	29,200	2640	.62	.77	.92	8.0	27,400	2800	.63	.79	.94
	545	1150	9.8	33,600	2300	.63	.78	.93	9.3	31,900	2490	.64	.80	.95	8.8	30,000	2680	.65	.82	.97	8.3	28,200	2840	.66	.84	.99
71°F (21.7°C)	355	750	9.5	32,400	2280	.43	.55	.66	9.1	30,900	2460	.43	.56	.67	8.6	29,300	2650	.43	.57	.69	8.1	27,700	2820	.44	.58	.71
	450	950	10.0	34,100	2320	.44	.58	.71	9.5	32,500	2510	.44	.59	.73	9.0	30,700	2700	.45	.60	.74	8.5	28,900	2880	.46	.61	.76
	545	1150	10.3	35,300	2350	.45	.61	.76	9.8	33,600	2540	.46	.62	.78	9.3	31,600	2740	.47	.64	.80	8.7	29,600	2920	.47	.65	.82

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

HS23-311 WITH CB19-41 OR CBH19-41 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	425	900	8.8	30,100	2230	.75	.89	1.00	8.4	28,700	2400	.77	.91	1.00	8.0	27,300	2570	.78	.93	1.00	7.5	25,700	2720	.80	.96	1.00
	485	1025	9.1	31,100	2250	.78	.93	1.00	8.7	29,600	2430	.80	.95	1.00	8.2	28,000	2600	.82	.97	1.00	7.7	26,400	2760	.84	.99	1.00
	545	1150	9.3	31,700	2270	.81	.97	1.00	8.9	30,300	2450	.83	.98	1.00	8.4	28,700	2630	.85	.99	1.00	8.0	27,300	2800	.87	1.00	1.00
67°F (19.4°C)	425	900	9.4	32,000	2270	.59	.73	.86	8.9	30,500	2450	.60	.74	.88	8.5	28,900	2630	.61	.76	.90	7.9	27,100	2790	.62	.78	.92
	485	1025	9.6	32,900	2290	.61	.75	.90	9.2	31,300	2470	.62	.77	.92	8.6	29,500	2650	.63	.79	.94	8.1	27,700	2820	.64	.81	.97
	545	1150	9.8	33,600	2300	.63	.78	.93	9.3	31,800	2490	.64	.80	.95	8.8	30,000	2680	.65	.82	.97	8.3	28,200	2840	.66	.84	.99
71°F (21.7°C)	425	900	9.9	33,800	2310	.44	.57	.70	9.4	32,200	2500	.44	.58	.71	8.9	30,500	2690	.45	.59	.73	8.4	28,600	2870	.45	.61	.75
	485	1025	10.1	34,600	2330	.45	.59	.73	9.7	33,000	2530	.45	.60	.75	9.1	31,100	2720	.45	.61	.76	8.6	29,200	2900	.46	.63	.79
	545	1150	10.4	35,400	2340	.45	.61	.76	9.8	33,600	2540	.46	.62	.78	9.3	31,700	2740	.47	.63	.80	8.7	29,600	2920	.47	.65	.82

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

TXV RATINGS — U.S. HS23-411-413 AND CANADA HS23-411 ONLY

HS23-411-413 WITH CH24-41 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	470	1000	10.3	35,200	2740	.67	.82	.94	9.8	33,500	2940	.69	.84	.96	9.3	31,700	3130	.70	.86	.99	8.8	29,900	3310	.72	.89	1.00
	565	1200	10.8	36,800	2780	.71	.86	1.00	10.2	34,900	2990	.73	.88	1.00	9.7	33,000	3180	.74	.91	1.00	9.1	31,000	3370	.76	.94	1.00
	660	1400	11.1	38,000	2820	.75	.89	1.00	10.6	36,000	3030	.77	.92	1.00	10.0	34,000	3230	.79	.95	1.00	9.3	31,800	3420	.81	.98	1.00
67°F (19.4°C)	470	1000	10.9	37,100	2790	.53	.67	.79	10.3	35,300	3000	.54	.68	.81	9.8	33,400	3200	.55	.70	.83	9.2	31,500	3400	.56	.72	.85
	565	1200	11.3	38,700	2840	.55	.70	.84	10.8	36,900	3050	.56	.71	.86	10.2	34,800	3260	.57	.73	.89	9.6	32,800	3470	.58	.75	.91
	660	1400	11.7	40,000	2870	.58	.72	.89	11.1	38,000	3090	.59	.74	.91	10.5	35,900	3310	.60	.76	.94	9.9	33,700	3530	.61	.79	.97
71°F (21.7°C)	470	1000	11.4	38,800	2840	.40	.54	.66	10.8	36,900	3060	.40	.55	.67	10.3	35,000	3270	.41	.56	.69	9.7	33,100	3490	.41	.57	.70
	565	1200	11.9	40,500	2890	.41	.56	.70	11.3	38,500	3110	.41	.57	.71	10.7	36,500	3340	.42	.58	.73	10.1	34,400	3560	.42	.59	.74
	660	1400	12.3	41,800	2920	.42	.57	.73	11.6	39,700	3150	.42	.58	.75	11.0	37,600	3390	.42	.60	.77	10.4	35,400	3620	.43	.61	.79

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

TXV RATINGS — U.S. HS23-411-413 AND CANADA HS23-411 ONLY

NOTE — For Temperatures and Capacities not shown in tables, see bulletin — Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HS23-411-413 WITH CH22-41 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	470	1000	10.5	35,900	2780	.69	.84	.96	10.0	34,200	2980	.71	.86	.99	9.5	32,300	3180	.72	.88	1.00	8.9	30,400	3370	.74	.92	1.00
	565	1200	11.0	37,500	2830	.73	.88	1.00	10.4	35,500	3040	.75	.91	1.00	9.8	33,600	3240	.76	.94	1.00	9.3	31,600	3440	.79	.98	1.00
	660	1400	11.3	38,700	2860	.77	.93	1.00	10.8	36,700	3070	.79	.96	1.00	10.2	34,700	3280	.81	.99	1.00	9.6	32,700	3510	.83	1.00	1.00
67°F (19.4°C)	470	1000	11.1	37,800	2830	.55	.68	.81	10.6	36,000	3050	.55	.70	.83	10.0	34,100	3260	.56	.72	.85	9.4	32,000	3470	.57	.74	.88
	565	1200	11.6	39,500	2880	.57	.71	.87	11.0	37,500	3100	.58	.73	.89	10.4	35,400	3320	.59	.75	.91	9.8	33,400	3540	.60	.78	.94
	660	1400	12.0	40,800	2910	.59	.74	.92	11.3	38,700	3140	.60	.76	.94	10.7	36,600	3370	.61	.79	.97	10.1	34,300	3600	.63	.82	1.00
71°F (21.7°C)	470	1000	11.6	39,500	2880	.41	.55	.68	11.0	37,700	3110	.41	.56	.69	10.5	35,700	3330	.42	.57	.71	9.8	33,600	3560	.42	.58	.72
	565	1200	12.1	41,400	2930	.42	.57	.72	11.5	39,300	3170	.42	.58	.73	10.9	37,200	3400	.43	.59	.75	10.3	35,000	3640	.43	.61	.77
	660	1400	12.5	42,700	2970	.43	.59	.75	11.9	40,600	3210	.43	.60	.77	11.2	38,300	3450	.44	.62	.79	10.6	36,000	3700	.44	.63	.81

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

HS23-411-413 WITH CR18-41 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	470	1000	10.5	35,900	2760	.71	.84	.95	10.0	34,100	2970	.73	.86	.98	9.4	32,100	3160	.74	.88	.99	8.8	30,100	3330	.76	.91	1.00
	565	1200	11.0	37,400	2810	.75	.88	.99	10.4	35,500	3030	.76	.91	1.00	9.8	33,400	3220	.78	.93	1.00	9.1	31,200	3400	.80	.96	1.00
	660	1400	11.3	38,700	2850	.78	.93	1.00	10.7	36,600	3070	.80	.95	1.00	10.1	34,500	3270	.82	.97	1.00	9.5	32,300	3460	.84	1.00	1.00
67°F (19.4°C)	470	1000	11.2	38,200	2840	.57	.69	.80	10.6	36,300	3060	.58	.70	.82	10.0	34,200	3260	.59	.72	.84	9.4	32,000	3440	.60	.74	.87
	565	1200	11.7	39,800	2890	.59	.72	.85	11.0	37,700	3110	.60	.74	.87	10.4	35,500	3320	.61	.76	.90	9.7	33,200	3510	.62	.78	.93
	660	1400	12.0	41,100	2930	.61	.75	.89	11.4	38,800	3160	.62	.77	.92	10.7	36,500	3370	.63	.79	.94	10.0	34,100	3560	.65	.82	.97
71°F (21.7°C)	470	1000	11.8	40,400	2910	.44	.55	.66	11.3	38,400	3140	.44	.56	.67	10.6	36,200	3350	.44	.57	.69	10.0	34,000	3550	.45	.58	.71
	565	1200	12.3	42,100	2970	.44	.57	.69	11.7	39,900	3200	.45	.58	.71	11.0	37,600	3420	.45	.59	.73	10.3	35,200	3620	.46	.61	.75
	660	1400	12.7	43,500	3010	.45	.59	.73	12.0	41,100	3240	.46	.60	.74	11.3	38,600	3470	.46	.62	.77	10.6	36,100	3670	.47	.64	.79

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

HS23-411-413 WITH C23-41(FC), C23-41W(FC), C24-41FC/B24 OR C24-41WFC/B24 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	470	1000	10.6	36,300	2750	.67	.82	.94	10.1	34,400	2950	.69	.84	.97	9.5	32,500	3140	.70	.86	.99	9.0	30,600	3320	.72	.89	1.00
	540	1150	11.0	37,500	2790	.70	.85	.99	10.4	35,600	2990	.72	.87	1.00	9.8	33,600	3180	.74	.90	1.00	9.2	31,500	3370	.76	.93	1.00
	615	1300	11.3	38,500	2820	.73	.88	1.00	10.7	36,500	3020	.75	.90	1.00	10.1	34,500	3220	.77	.93	1.00	9.4	32,200	3410	.79	.97	1.00
67°F (19.4°C)	470	1000	11.2	38,100	2800	.53	.67	.80	10.6	36,200	3010	.54	.68	.81	10.1	34,300	3220	.55	.70	.83	9.5	32,300	3420	.56	.72	.86
	540	1150	11.5	39,400	2840	.55	.69	.83	11.0	37,400	3050	.56	.70	.85	10.4	35,400	3260	.57	.72	.88	9.8	33,300	3470	.58	.74	.90
	615	1300	11.9	40,500	2870	.56	.71	.87	11.3	38,400	3090	.57	.73	.89	10.6	36,300	3300	.59	.75	.92	10.0	34,100	3520	.60	.77	.95
71°F (21.7°C)	470	1000	11.7	39,800	2850	.40	.54	.66	11.1	37,900	3070	.40	.54	.68	10.5	35,900	3290	.40	.55	.69	9.9	33,900	3500	.41	.57	.70
	540	1150	12.1	41,200	2890	.40	.55	.69	11.5	39,200	3110	.41	.56	.70	10.9	37,100	3340	.41	.57	.72	10.2	34,900	3560	.42	.58	.74
	615	1300	12.4	42,200	2920	.41	.57	.72	11.8	40,200	3150	.41	.58	.73	11.1	38,000	3380	.42	.59	.75	10.5	35,800	3610	.42	.60	.77

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

HS23-411-413 WITH CR18-51 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	470	1000	10.8	36,700	2790	.72	.85	.96	10.2	34,900	3000	.73	.87	.98	9.6	32,800	3200	.75	.89	1.00	9.0	30,700	3370	.77	.92	1.00
	565	1200	11.3	38,400	2840	.75	.89	1.00	10.6	36,300	3060	.77	.91	1.00	10.0	34,200	3260	.79	.94	1.00	9.4	32,000	3440	.81	.97	1.00
	660	1400	11.6	39,700	2890	.78	.93	1.00	11.0	37,600	3110	.80	.96	1.00	10.3	35,300	3320	.83	.98	1.00	9.7	33,200	3500	.86	1.00	1.00
67°F (19.4°C)	470	1000	11.4	39,000	2860	.57	.69	.81	10.8	37,000	3090	.58	.71	.83	10.2	34,900	3290	.59	.72	.86	9.6	32,600	3480	.60	.74	.88
	565	1200	11.9	40,700	2920	.59	.73	.86	11.3	38,500	3140	.60	.74	.88	10.6	36,200	3350	.61	.76	.91	9.9	33,800	3540	.63	.79	.93
	660	1400	12.3	41,900	2960	.61	.76	.90	11.6	39,600	3190	.62	.78	.92	10.9	37,100	3400	.64	.80	.95	10.2	34,700	3590	.65	.83	.98
71°F (21.7°C)	470	1000	12.1	41,300	2940	.44	.55	.66	11.5	39,100	3170	.44	.56	.68	10.8	36,900	3380	.44	.57	.70	10.1	34,500	3580	.45	.59	.72
	565	1200	12.6	43,000	2990	.44	.58	.70	11.9	40,700	3230	.45	.59	.72	11.2	38,200	3450	.45	.60	.74	10.5	35,700	3650	.46	.61	.76
	660	1400	13.0	44,300	3040	.45	.60	.73	12.2	41,800	3270	.46	.61	.75	11.5	39,300	3500	.46	.62	.78	10.7	36,600	3700	.47	.64	.81

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

TXV RATINGS — U.S. HS23-411-413 AND CANADA HS23-411 ONLY

NOTE — For Temperatures and Capacities not shown in tables, see bulletin — Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HS23-411-413 WITH C23-46(FC) OR C24-46FC/B24 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	470	1000	10.8	36,700	2780	.69	.83	.96	10.2	34,800	2980	.70	.85	.98	9.6	32,900	3170	.71	.88	1.00	9.1	30,900	3360	.73	.91	1.00
	540	1150	11.1	38,000	2810	.71	.86	1.00	10.6	36,000	3020	.73	.89	1.00	9.9	33,900	3220	.75	.92	1.00	9.3	31,900	3410	.77	.95	1.00
	615	1300	11.4	39,000	2840	.74	.90	1.00	10.8	36,900	3050	.76	.92	1.00	10.2	34,700	3250	.78	.96	1.00	9.6	32,600	3450	.81	.99	1.00
67°F (19.4°C)	470	1000	11.3	38,500	2830	.54	.68	.81	10.7	36,600	3040	.55	.69	.83	10.1	34,600	3250	.56	.71	.85	9.6	32,600	3450	.57	.73	.87
	540	1150	11.7	39,900	2860	.56	.70	.85	11.1	37,900	3080	.57	.72	.87	10.5	35,800	3300	.58	.74	.89	9.8	33,600	3510	.59	.76	.92
	615	1300	12.0	41,000	2900	.57	.72	.89	11.4	38,900	3120	.58	.74	.91	10.8	36,700	3340	.60	.76	.94	10.1	34,400	3560	.61	.79	.97
71°F (21.7°C)	470	1000	11.8	40,200	2870	.40	.54	.68	11.2	38,300	3100	.41	.55	.69	10.6	36,200	3320	.41	.56	.70	10.0	34,200	3540	.41	.57	.72
	540	1150	12.2	41,600	2910	.41	.56	.70	11.6	39,600	3140	.41	.57	.72	11.0	37,400	3370	.42	.58	.73	10.3	35,300	3600	.42	.59	.75
	615	1300	12.6	42,900	2940	.42	.57	.73	11.9	40,700	3180	.42	.58	.74	11.3	38,400	3410	.43	.60	.76	10.6	36,100	3650	.43	.61	.78

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

HS23-411-413 WITH CVP10-46/EC10Q4 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	470	1000	10.8	36,800	2790	.71	.84	.96	10.2	34,800	3000	.73	.86	.98	9.6	32,800	3190	.74	.88	1.00	9.0	30,600	3370	.76	.91	1.00
	590	1250	11.3	38,600	2850	.75	.89	1.00	10.7	36,500	3070	.77	.92	1.00	10.0	34,200	3270	.79	.95	1.00	9.4	32,100	3450	.81	.98	1.00
	710	1500	11.7	40,000	2900	.79	.95	1.00	11.1	37,900	3120	.81	.97	1.00	10.5	35,700	3330	.83	.99	1.00	9.9	33,700	3540	.86	1.00	1.00
67°F (19.4°C)	470	1000	11.5	39,300	2870	.57	.69	.80	10.9	37,200	3090	.58	.70	.82	10.3	35,100	3300	.59	.72	.84	9.6	32,800	3490	.60	.73	.87
	590	1250	12.1	41,200	2940	.59	.73	.86	11.4	39,000	3160	.60	.74	.88	10.7	36,600	3370	.61	.76	.91	10.0	34,100	3560	.63	.79	.94
	710	1500	12.5	42,600	2980	.61	.77	.91	11.8	40,200	3210	.63	.78	.94	11.0	37,700	3430	.64	.81	.97	10.3	35,200	3620	.66	.84	.99
71°F (21.7°C)	470	1000	12.3	41,800	2950	.44	.55	.66	11.6	39,600	3190	.44	.56	.67	10.9	37,300	3410	.44	.57	.69	10.2	34,900	3610	.45	.58	.71
	590	1250	12.8	43,800	3020	.45	.57	.70	12.1	41,400	3260	.45	.59	.72	11.4	39,000	3480	.46	.60	.74	10.6	36,300	3690	.46	.61	.76
	710	1500	13.3	45,300	3070	.45	.60	.74	12.5	42,700	3310	.46	.61	.76	11.8	40,100	3540	.47	.63	.79	11.0	37,400	3740	.47	.65	.81

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

HS23-411-413 WITH CVP10-41/EC10Q3 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	470	1000	10.8	37,000	2800	.72	.84	.96	10.3	35,000	3010	.73	.86	.99	9.7	33,000	3200	.75	.89	1.00	9.0	30,800	3380	.76	.91	1.00
	590	1250	11.4	38,800	2860	.76	.90	1.00	10.8	36,800	3080	.77	.92	1.00	10.1	34,500	3280	.79	.95	1.00	9.5	32,400	3460	.82	.98	1.00
	710	1500	11.8	40,300	2910	.80	.95	1.00	11.2	38,100	3130	.82	.98	1.00	10.6	36,000	3350	.84	1.00	1.00	10.0	34,000	3550	.87	1.00	1.00
67°F (19.4°C)	470	1000	11.6	39,600	2880	.57	.69	.80	11.0	37,500	3100	.58	.70	.83	10.3	35,300	3310	.59	.72	.85	9.7	33,000	3500	.60	.74	.88
	590	1250	12.2	41,500	2950	.59	.73	.87	11.5	39,200	3170	.60	.75	.89	10.8	36,800	3380	.61	.77	.92	10.0	34,300	3580	.63	.79	.95
	710	1500	12.6	42,900	2990	.62	.77	.92	11.8	40,400	3220	.63	.79	.95	11.1	37,800	3440	.64	.82	.98	10.4	35,400	3630	.66	.85	1.00
71°F (21.7°C)	470	1000	12.3	42,000	2960	.44	.55	.66	11.7	39,800	3190	.44	.56	.68	11.0	37,500	3420	.44	.57	.69	10.3	35,100	3620	.45	.58	.71
	590	1250	12.9	44,100	3030	.45	.58	.70	12.2	41,700	3270	.45	.59	.72	11.5	39,200	3490	.46	.60	.74	10.7	36,500	3700	.46	.62	.77
	710	1500	13.3	45,500	3080	.46	.60	.75	12.6	43,000	3320	.46	.62	.77	11.8	40,200	3550	.47	.63	.79	11.0	37,500	3750	.48	.65	.83

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

HS23-411-413 WITH C22-41(FC)/B24 OR CR22-41/B24 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	470	1000	11.0	37,500	2800	.69	.84	.97	10.4	35,500	3000	.71	.86	.99	9.8	33,400	3200	.72	.89	1.00	9.2	31,300	3390	.74	.92	1.00
	540	1150	11.3	38,700	2840	.72	.87	1.00	10.7	36,600	3040	.74	.90	1.00	10.1	34,400	3240	.76	.93	1.00	9.4	32,200	3440	.78	.97	1.00
	615	1300	11.6	39,600	2860	.75	.91	1.00	11.0	37,400	3070	.77	.94	1.00	10.3	35,200	3280	.79	.97	1.00	9.7	33,100	3490	.82	1.00	1.00
67°F (19.4°C)	470	1000	11.7	39,800	2860	.54	.68	.81	11.0	37,600	3080	.55	.69	.83	10.4	35,500	3290	.56	.71	.86	9.8	33,300	3500	.57	.73	.88
	540	1150	12.0	41,000	2900	.56	.70	.85	11.4	38,800	3120	.57	.72	.88	10.7	36,600	3340	.58	.74	.90	10.1	34,300	3550	.59	.77	.93
	615	1300	12.3	42,000	2930	.58	.73	.89	11.7	39,800	3150	.59	.75	.92	11.0	37,400	3380	.60	.77	.95	10.3	35,100	3600	.62	.80	.98
71°F (21.7°C)	470	1000	12.3	41,900	2920	.41	.54	.68	11.6	39,700	3150	.41	.55	.69	11.0	37,500	3380	.41	.56	.70	10.3	35,300	3610	.42	.57	.72
	540	1150	12.7	43,200	2960	.41	.56	.70	12.0	41,000	3190	.42	.57	.72	11.3	38,700	3430	.42	.58	.74	10.6	36,200	3670	.43	.60	.76
	615	1300	13.0	44,300	2980	.42	.57	.73	12.3	41,900	3230	.42	.59	.75	11.6	39,600	3470	.43	.60	.77	10.9	37,100	3710	.43	.62	.79

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

TXV RATINGS — U.S. HS23-411-413 AND CANADA HS23-411 ONLY

NOTE — For Temperatures and Capacities not shown in tables, see bulletin — Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HS23-411-413 WITH C22-46(FC)/B24 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)			
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	470	1000	11.1	37,800	2820	.69	.83	.96	10.5	35,800	3030	.70	.85	.99	9.9	33,800	3230	.72	.88	1.00	9.3	31,800	3420	.74	.91	1.00
	540	1150	11.5	39,100	2860	.72	.87	1.00	10.8	37,000	3070	.73	.89	1.00	10.2	34,900	3280	.75	.93	1.00	9.6	32,700	3480	.77	.96	1.00
	615	1300	11.8	40,200	2890	.75	.91	1.00	11.2	38,100	3110	.76	.93	1.00	10.5	35,800	3320	.79	.96	1.00	9.9	33,800	3540	.81	.99	1.00
67°F (19.4°C)	470	1000	11.6	39,600	2870	.54	.68	.81	11.0	37,600	3090	.55	.69	.83	10.4	35,600	3310	.56	.71	.85	9.8	33,400	3520	.57	.73	.88
	540	1150	12.0	41,100	2910	.56	.70	.85	11.4	39,000	3140	.57	.72	.87	10.8	36,800	3360	.58	.74	.90	10.1	34,500	3580	.59	.76	.92
	615	1300	12.4	42,300	2940	.58	.73	.89	11.7	40,000	3170	.59	.75	.91	11.1	37,800	3400	.60	.77	.94	10.4	35,400	3630	.61	.80	.97
71°F (21.7°C)	470	1000	12.1	41,400	2920	.41	.54	.68	11.5	39,300	3150	.41	.55	.69	10.9	37,200	3380	.41	.56	.71	10.3	35,000	3610	.42	.57	.72
	540	1150	12.6	42,900	2960	.41	.56	.70	11.9	40,700	3200	.42	.57	.72	11.3	38,500	3440	.42	.58	.74	10.6	36,200	3680	.42	.59	.75
	615	1300	12.9	44,100	2990	.42	.57	.73	12.3	41,800	3230	.42	.59	.75	11.6	39,500	3480	.43	.60	.77	10.9	37,100	3730	.43	.61	.79

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

HS23-411-413 WITH CB19-41 OR CBH19-41 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)			
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	425	900	10.6	36,300	2770	.71	.83	.95	10.1	34,400	2980	.72	.85	.97	9.5	32,400	3180	.74	.88	.99	8.9	30,500	3360	.76	.90	1.00
	530	1125	11.2	38,300	2840	.75	.89	1.00	10.7	36,400	3060	.77	.91	1.00	10.0	34,200	3260	.79	.94	1.00	9.4	32,000	3450	.81	.97	1.00
	635	1350	11.7	39,900	2890	.79	.94	1.00	11.0	37,700	3120	.81	.96	1.00	10.5	35,700	3330	.84	.98	1.00	9.8	33,400	3530	.87	1.00	1.00
67°F (19.4°C)	425	900	11.3	38,500	2850	.57	.68	.80	10.7	36,600	3070	.57	.70	.82	10.1	34,500	3270	.58	.71	.84	9.5	32,300	3460	.59	.73	.87
	530	1125	11.9	40,600	2910	.59	.73	.86	11.3	38,500	3140	.60	.74	.88	10.6	36,200	3350	.61	.76	.91	9.9	33,900	3540	.63	.79	.94
	635	1350	12.3	42,100	2960	.62	.77	.91	11.7	39,800	3190	.63	.79	.94	11.0	37,400	3410	.64	.81	.96	10.2	34,900	3600	.66	.84	.98
71°F (21.7°C)	425	900	11.9	40,700	2920	.43	.55	.66	11.3	38,600	3150	.43	.56	.67	10.7	36,500	3370	.44	.56	.69	10.0	34,200	3570	.44	.58	.71
	530	1125	12.5	42,800	2990	.44	.57	.70	11.9	40,600	3230	.44	.59	.72	11.2	38,200	3450	.45	.60	.74	10.5	35,700	3650	.45	.61	.76
	635	1350	13.0	44,400	3040	.45	.60	.74	12.3	42,000	3280	.46	.61	.76	11.6	39,500	3510	.46	.63	.79	10.8	36,800	3710	.47	.65	.82

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

HS23-411-413 WITH C23-51(FC) OR C24-51FC/B24 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)			
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	425	900	10.6	36,100	2770	.66	.80	.91	10.0	34,200	2970	.67	.82	.93	9.5	32,400	3160	.69	.84	.96	8.9	30,400	3350	.70	.87	.99
	565	1200	11.4	38,900	2850	.71	.87	1.00	10.8	36,800	3060	.73	.89	1.00	10.2	34,700	3260	.75	.92	1.00	9.5	32,400	3470	.77	.95	1.00
	710	1500	11.9	40,700	2900	.77	.93	1.00	11.3	38,600	3120	.79	.96	1.00	10.7	36,400	3340	.81	.98	1.00	10.0	34,100	3550	.84	1.00	1.00
67°F (19.4°C)	425	900	11.1	37,900	2820	.53	.66	.77	10.6	36,000	3030	.53	.67	.79	10.0	34,100	3240	.54	.68	.81	9.4	32,100	3440	.55	.70	.83
	565	1200	12.0	40,900	2900	.56	.70	.85	11.4	38,800	3130	.57	.72	.87	10.7	36,600	3350	.58	.74	.89	10.1	34,300	3570	.59	.76	.92
	710	1500	12.6	42,900	2950	.59	.74	.92	11.9	40,600	3190	.60	.77	.95	11.2	38,200	3420	.61	.79	.98	10.5	35,900	3650	.63	.82	1.00
71°F (21.7°C)	425	900	11.6	39,600	2870	.40	.53	.65	11.0	37,700	3090	.40	.54	.66	10.5	35,700	3310	.40	.55	.67	9.8	33,600	3530	.41	.56	.69
	565	1200	12.5	42,700	2950	.41	.56	.70	11.9	40,500	3190	.41	.57	.72	11.3	38,400	3420	.42	.58	.73	10.6	36,100	3660	.42	.59	.75
	710	1500	13.1	44,700	3000	.42	.59	.75	12.4	42,400	3250	.43	.60	.77	11.7	40,000	3500	.43	.61	.79	11.0	37,600	3750	.44	.63	.82

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

HS23-411-413 WITH CB19-51 OR CBH19-51 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)			
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	425	900	11.0	37,500	2810	.71	.83	.94	10.4	35,600	3030	.72	.85	.97	9.8	33,500	3230	.74	.87	.99	9.2	31,300	3410	.76	.90	1.00
	530	1125	11.6	39,700	2880	.75	.89	1.00	11.0	37,600	3110	.77	.91	1.00	10.4	35,400	3310	.79	.94	1.00	9.7	33,000	3500	.81	.98	1.00
	635	1350	12.1	41,400	2940	.79	.95	1.00	11.5	39,100	3170	.81	.97	1.00	10.8	36,700	3380	.84	.99	1.00	10.1	34,500	3590	.87	1.00	1.00
67°F (19.4°C)	425	900	11.7	39,800	2890	.56	.68	.79	11.1	37,800	3120	.57	.69	.81	10.4	35,600	3330	.58	.71	.84	9.8	33,300	3510	.59	.73	.87
	530	1125	12.3	41,900	2960	.59	.72	.86	11.7	39,800	3190	.60	.74	.88	10.9	37,300	3410	.61	.76	.91	10.2	34,900	3600	.63	.79	.94
	635	1350	12.8	43,600	3010	.61	.77	.91	12.0	41,100	3250	.63	.79	.94	11.3	38,600	3460	.64	.82	.97	10.5	35,800	3660	.66	.85	.99
71°F (21.7°C)	425	900	12.3	42,100	2960	.43	.54	.65	11.7	39,900	3200	.43	.55	.67	11.0	37,600	3420	.43	.56	.68	10.3	35,200	3620	.44	.57	.70
	530	1125	13..0	44,300	3040	.44	.57	.70	12.3	41,900	3280	.44	.58	.72	11.5	39,400	3500	.45	.60	.74	10.8	36,800	3710	.45	.61	.76
	635	1350	13.4	45,900	3090	.45	.60	.74	12.7	43,400	3330	.45	.61	.77	11.9	40,700	3560	.46	.63	.79	11.1	37,900	3770	.47	.65	.82

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

TXV RATINGS — CANADA HS23-413 ONLY

NOTE — For Temperatures and Capacities not shown in tables, see bulletin — Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HS23-413 WITH CH24-41 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)			
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	470	1000	10.0	34,000	2940	.69	.83	.95	9.5	32,400	3170	.70	.85	.97	9.0	30,600	3430	.72	.87	.99	8.4	28,800	3760	.74	.90	1.00
	565	1200	10.4	35,600	2990	.73	.87	1.00	9.9	33,800	3230	.74	.89	1.00	9.3	31,900	3500	.76	.92	1.00	8.8	29,900	3840	.78	.95	1.00
	660	1400	10.8	36,700	3030	.76	.91	1.00	10.2	34,800	3270	.78	.93	1.00	9.6	32,700	3550	.80	.96	1.00	9.0	30,700	3900	.83	.99	1.00
67°F (19.4°C)	470	1000	10.5	35,800	3000	.54	.68	.81	10.0	34,100	3240	.55	.70	.82	9.5	32,300	3530	.56	.72	.84	8.9	30,400	3880	.57	.73	.86
	565	1200	11.0	37,500	3050	.57	.71	.85	10.5	35,700	3300	.57	.73	.87	9.8	33,600	3610	.59	.75	.90	9.3	31,600	3970	.60	.77	.92
	660	1400	11.3	38,700	3090	.59	.74	.90	10.8	36,700	3350	.60	.76	.92	10.2	34,700	3660	.61	.78	.95	9.5	32,500	4040	.63	.81	.98
71°F (21.7°C)	470	1000	11.0	37,500	3060	.41	.55	.68	10.5	35,700	3310	.41	.56	.69	9.9	33,900	3620	.42	.57	.70	9.3	31,800	4000	.42	.58	.72
	565	1200	11.5	39,200	3110	.42	.57	.71	10.9	37,300	3370	.42	.58	.73	10.4	35,400	3690	.42	.59	.74	9.7	33,000	4100	.43	.61	.76
	660	1400	11.9	40,500	3150	.43	.59	.75	11.3	38,500	3430	.43	.60	.76	10.7	36,400	3760	.43	.61	.78	10.0	34,100	4170	.44	.63	.80

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

HS23-413 WITH C23-41(FC), C23-41W(FC), C24-41FC/B24 OR C24-41WFC/B24 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)			
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	470	1000	10.7	36,400	2830	.67	.82	.94	10.1	34,500	3030	.69	.84	.96	9.6	32,600	3270	.70	.86	.99	9.0	30,600	3550	.72	.89	1.00
	540	1150	11.0	37,600	2870	.70	.85	.99	10.5	35,700	3070	.72	.87	1.00	9.9	33,700	3320	.73	.90	1.00	9.2	31,500	3610	.76	.93	1.00
	615	1300	11.3	38,600	2900	.73	.88	1.00	10.7	36,600	3110	.75	.90	1.00	10.1	34,500	3360	.77	.93	1.00	9.4	32,200	3660	.79	.97	1.00
67°F (19.4°C)	470	1000	11.2	38,200	2890	.53	.67	.79	10.7	36,400	3100	.54	.68	.81	10.1	34,400	3350	.55	.70	.83	9.5	32,300	3660	.56	.72	.86
	540	1150	11.6	39,500	2920	.55	.69	.83	11.0	37,600	3140	.56	.70	.85	10.4	35,500	3410	.57	.72	.87	9.8	33,300	3730	.58	.74	.90
	615	1300	11.9	40,600	2960	.56	.71	.87	11.3	38,600	3180	.57	.73	.89	10.7	36,400	3450	.58	.75	.92	10.0	34,100	3780	.60	.77	.95
71°F (21.7°C)	470	1000	11.7	39,900	2940	.40	.54	.66	11.1	38,000	3160	.40	.54	.68	10.6	36,000	3430	.40	.55	.69	9.9	33,900	3770	.41	.57	.70
	540	1150	12.1	41,300	2980	.40	.55	.69	11.5	39,300	3210	.41	.56	.70	10.9	37,200	3490	.41	.57	.72	10.3	35,000	3840	.42	.58	.74
	615	1300	12.4	42,400	3010	.41	.57	.72	11.8	40,300	3250	.41	.58	.73	11.2	38,100	3540	.42	.59	.75	10.5	35,800	3890	.42	.60	.77

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

HS23-413 WITH C23-46(FC) OR C24-46FC/B24 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)			
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	470	1000	10.8	36,800	2860	.69	.83	.96	10.2	34,900	3060	.70	.85	.98	9.7	33,000	3300	.71	.87	1.00	9.1	30,900	3590	.73	.91	1.00
	540	1150	11.2	38,100	2900	.71	.86	1.00	10.6	36,100	3100	.73	.89	1.00	10.0	34,000	3350	.75	.92	1.00	9.3	31,900	3650	.77	.95	1.00
	615	1300	11.5	39,100	2930	.74	.90	1.00	10.8	37,000	3140	.76	.92	1.00	10.2	34,900	3390	.78	.96	1.00	9.6	32,600	3710	.81	.99	1.00
67°F (19.4°C)	470	1000	11.3	38,600	2910	.54	.68	.81	10.8	36,700	3130	.55	.69	.83	10.2	34,700	3390	.56	.71	.85	9.6	32,600	3710	.57	.73	.87
	540	1150	11.7	40,000	2950	.56	.70	.85	11.1	38,000	3180	.57	.71	.87	10.5	35,900	3450	.58	.73	.89	9.9	33,700	3770	.59	.76	.92
	615	1300	12.0	41,100	2980	.57	.72	.88	11.4	39,000	3210	.58	.74	.91	10.8	36,800	3490	.59	.76	.93	10.1	34,500	3830	.61	.79	.97
71°F (21.7°C)	470	1000	11.8	40,300	2960	.40	.54	.67	11.3	38,400	3190	.41	.55	.69	10.7	36,400	3470	.41	.56	.70	10.0	34,200	3810	.41	.57	.72
	540	1150	12.2	41,700	3000	.41	.56	.70	11.6	39,700	3240	.41	.57	.71	11.0	37,600	3530	.42	.58	.73	10.3	35,300	3880	.42	.59	.75
	615	1300	12.6	43,000	3040	.42	.57	.73	12.0	40,800	3280	.42	.58	.74	11.3	38,500	3580	.43	.60	.76	10.6	36,100	3940	.43	.61	.78

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

HS23-413 WITH C22-41(FC)/B24 OR CR22-41/B24 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)			
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	470	1000	11.0	37,600	2880	.69	.84	.97	10.4	35,600	3090	.71	.86	.99	9.8	33,600	3330	.72	.88	1.00	9.2	31,300	3620	.74	.92	1.00
	540	1150	11.4	38,800	2920	.72	.87	1.00	10.8	36,700	3130	.74	.90	1.00	10.1	34,500	3380	.76	.93	1.00	9.4	32,200	3690	.78	.97	1.00
	615	1300	11.6	39,700	2950	.75	.91	1.00	11.0	37,500	3160	.77	.94	1.00	10.4	35,400	3420	.79	.97	1.00	9.7	33,100	3740	.82	1.00	1.00
67°F (19.4°C)	470	1000	11.7	39,800	2950	.54	.68	.81	11.0	37,700	3170	.55	.69	.83	10.4	35,600	3440	.56	.71	.85	9.8	33,400	3760	.57	.73	.88
	540	1150	12.0	41,100	2990	.56	.70	.85	11.4	38,900	3220	.57	.72	.87	10.8	36,700	3490	.58	.74	.90	10.1	34,300	3830	.59	.77	.93
	615	1300	12.4	42,200	3020	.58	.73	.89	11.7	39,900	3250	.59	.75	.92	11.0	37,500	3540	.60	.77	.94	10.3	35,100	3880	.61	.80	.98
71°F (21.7°C)	470	1000	12.3	42,000	3010	.41	.54	.68	11.7	39,900	3250	.41	.55	.69	11.0	37,700	3540	.41	.56	.70	10.3	35,300	3890	.42	.57	.72
	540	1150	12.7	43,400	3050	.41	.56	.70	12.1	41,200	3300	.42	.57	.72	11.4	38,800	3600	.42	.58	.73	10.6	36,200	3960	.43	.60	.76
	615	1300	13.0	44,500	3090	.42	.57	.73	12.3	42,100	3340	.42	.58	.75	11.6	39,700	3640	.43	.60	.77	10.9	37,100	4010	.43	.62	.79

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

TXV RATINGS — CANADA HS23-413 ONLY

NOTE — For Temperatures and Capacities not shown in tables, see bulletin — Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HS23-413 WITH CH22-41 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	470	1000	10.8	36,700	2990	.71	.85	.97	10.2	34,800	3220	.72	.87	.99	9.6	32,900	3500	.74	.90	1.00	9.0	30,800	3840	.76	.93	1.00
	565	1200	11.2	38,300	3040	.75	.89	1.00	10.7	36,400	3280	.76	.92	1.00	10.0	34,200	3570	.78	.95	1.00	9.3	31,900	3930	.80	.98	1.00
	660	1400	11.6	39,500	3080	.78	.94	1.00	11.0	37,500	3330	.80	.97	1.00	10.3	35,300	3630	.82	.99	1.00	9.7	33,200	4020	.85	1.00	1.00
67°F (19.4°C)	470	1000	11.3	38,500	3050	.56	.70	.83	10.7	36,600	3300	.57	.71	.85	10.1	34,600	3600	.58	.73	.87	9.5	32,500	3970	.59	.75	.89
	565	1200	11.8	40,300	3110	.58	.73	.88	11.2	38,300	3360	.59	.75	.90	10.6	36,200	3680	.60	.77	.92	9.9	33,800	4060	.62	.80	.95
	660	1400	12.2	41,700	3150	.60	.76	.93	11.6	39,500	3410	.62	.78	.95	10.9	37,200	3740	.63	.81	.98	10.2	34,800	4130	.64	.84	1.00
71°F (21.7°C)	470	1000	11.8	40,300	3100	.42	.56	.70	11.2	38,300	3370	.42	.57	.71	10.6	36,200	3690	.43	.58	.72	10.0	34,000	4080	.43	.59	.74
	565	1200	12.4	42,200	3160	.43	.58	.73	11.8	40,100	3440	.43	.59	.75	11.1	37,800	3770	.44	.60	.76	10.4	35,500	4180	.44	.62	.78
	660	1400	12.8	43,600	3210	.44	.60	.77	12.1	41,400	3490	.44	.61	.78	11.4	39,000	3840	.45	.63	.80	10.7	36,500	4270	.45	.65	.83

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

HS23-413 WITH CVP10-46/EC10Q4 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	470	1000	10.8	36,800	2790	.71	.84	.96	10.2	34,800	3000	.73	.86	.98	9.6	32,800	3190	.74	.88	1.00	9.0	30,600	3370	.76	.91	1.00
	590	1250	11.3	38,600	2850	.75	.89	1.00	10.7	36,500	3070	.77	.92	1.00	10.0	34,200	3270	.79	.95	1.00	9.4	32,100	3450	.81	.98	1.00
	710	1500	11.7	40,000	2900	.79	.95	1.00	11.1	37,900	3120	.81	.97	1.00	10.5	35,700	3330	.83	.99	1.00	9.9	33,700	3540	.86	1.00	1.00
67°F (19.4°C)	470	1000	11.5	39,300	2870	.57	.69	.80	10.9	37,200	3090	.58	.70	.82	10.3	35,100	3300	.59	.72	.84	9.6	32,800	3490	.60	.73	.87
	590	1250	12.1	41,200	2940	.59	.73	.86	11.4	39,000	3160	.60	.74	.88	10.7	36,600	3370	.61	.76	.91	10.0	34,100	3560	.63	.79	.94
	710	1500	12.5	42,600	2980	.61	.77	.91	11.8	40,200	3210	.63	.78	.94	11.0	37,700	3430	.64	.81	.97	10.3	35,200	3620	.66	.84	.99
71°F (21.7°C)	470	1000	12.3	41,800	2950	.44	.55	.66	11.6	39,600	3190	.44	.56	.67	10.9	37,300	3410	.44	.57	.69	10.2	34,900	3610	.45	.58	.71
	590	1250	12.8	43,800	3020	.45	.57	.70	12.1	41,400	3260	.45	.59	.72	11.4	39,000	3480	.46	.60	.74	10.6	36,300	3690	.46	.61	.76
	710	1500	13.3	45,300	3070	.45	.60	.74	12.5	42,700	3310	.46	.61	.76	11.8	40,100	3540	.47	.63	.79	11.0	37,400	3740	.47	.65	.81

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

HS23-413 WITH CVP10-41/EC10Q3 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	470	1000	10.8	37,000	2800	.72	.84	.96	10.3	35,000	3010	.73	.86	.99	9.7	33,000	3200	.75	.89	1.00	9.0	30,800	3380	.76	.91	1.00
	590	1250	11.4	38,800	2860	.76	.90	1.00	10.8	36,800	3080	.77	.92	1.00	10.1	34,500	3280	.79	.95	1.00	9.5	32,400	3460	.82	.98	1.00
	710	1500	11.8	40,300	2910	.80	.95	1.00	11.2	38,100	3130	.82	.98	1.00	10.6	36,000	3350	.84	1.00	1.00	10.0	34,000	3550	.87	1.00	1.00
67°F (19.4°C)	470	1000	11.6	39,600	2880	.57	.69	.80	11.0	37,500	3100	.58	.70	.83	10.3	35,300	3310	.59	.72	.85	9.7	33,000	3500	.60	.74	.88
	590	1250	12.2	41,500	2950	.59	.73	.87	11.5	39,200	3170	.60	.75	.89	10.8	36,800	3380	.61	.77	.92	10.0	34,300	3580	.63	.79	.95
	710	1500	12.6	42,900	2990	.62	.77	.92	11.8	40,400	3220	.63	.79	.95	11.1	37,800	3440	.64	.82	.98	10.4	35,400	3630	.66	.85	1.00
71°F (21.7°C)	470	1000	12.3	42,000	2960	.44	.55	.66	11.7	39,800	3190	.44	.56	.68	11.0	37,500	3420	.44	.57	.69	10.3	35,100	3620	.45	.58	.71
	590	1250	12.9	44,100	3030	.45	.58	.70	12.2	41,700	3270	.45	.59	.72	11.5	39,200	3490	.46	.60	.74	10.7	36,500	3700	.46	.62	.77
	710	1500	13.3	45,500	3080	.46	.60	.75	12.6	43,000	3320	.46	.62	.77	11.8	40,200	3550	.47	.63	.79	11.0	37,500	3750	.48	.65	.83

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

HS23-413 WITH CB19-41 OR CBH19-41 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	425	900	10.2	34,800	2970	.70	.84	.96	9.6	32,900	3190	.72	.87	.99	9.1	31,100	3460	.73	.89	1.00	8.5	29,200	3790	.75	.92	1.00
	530	1125	10.8	36,900	3030	.75	.90	1.00	10.3	35,000	3270	.77	.93	1.00	9.6	32,900	3660	.78	.95	1.00	9.1	30,900	3910	.81	.98	1.00
	635	1350	11.3	38,500	3090	.79	.95	1.00	10.7	36,400	3340	.81	.98	1.00	10.0	34,300	3640	.83	1.00	1.00	9.5	32,300	4020	.86	1.00	1.00
67°F (19.4°C)	425	900	10.9	37,100	3040	.56	.69	.82	10.3	35,100	3280	.56	.70	.84	9.7	33,100	3570	.57	.72	.86	9.1	31,000	3930	.58	.74	.88
	530	1125	11.5	39,200	3110	.58	.73	.88	10.8	37,000	3360	.59	.75	.90	10.2	34,800	3670	.60	.78	.92	9.5	32,400	4040	.62	.80	.96
	635	1350	11.9	40,500	3160	.61	.78	.94	11.2	38,300	3420	.62	.80	.96	10.5	35,900	3730	.64	.83	.99	9.8	33,300	4120	.65	.86	1.00
71°F (21.7°C)	425	900	11.9	39,200	3120	.42	.55	.69	10.9	37,200	3370	.42	.56	.70	10.3	35,100	3690	.43	.57	.72	9.6	32,900	4070	.43	.68	.73
	530	1125	12.1	41,300	3180	.43	.58	.73	11.5	39,100	3460	.43	.59	.75	10.8	36,800	3790	.44	.60	.76	10.1	34,400	4190	.44	.62	.79
	635	1350	12.5	42,700	3230	.44	.61	.77	11.8	40,400	3520	.44	.62	.79	11.1	38,000	3860	.45	.64	.81	10.4	35,400	4280	.46	.66	.84

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

TXV RATINGS — CANADA HS23-413 ONLY

NOTE — For Temperatures and Capacities not shown in tables, see bulletin — Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HS23-413 WITH C22-41(FC)/B24 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	470	1000	11.0	37,600	2880	.69	.84	.97	10.4	35,600	3090	.71	.86	.99	9.8	33,600	3330	.72	.88	1.00	9.2	31,300	3620	.74	.92	1.00
	540	1150	11.4	38,800	2920	.72	.87	1.00	10.8	36,700	3130	.74	.90	1.00	10.1	34,500	3380	.76	.93	1.00	9.4	32,200	3690	.78	.97	1.00
	615	1300	11.6	39,700	2950	.75	.91	1.00	11.0	37,500	3160	.77	.94	1.00	10.4	35,400	3420	.79	.97	1.00	9.7	33,100	3740	.82	1.00	1.00
67°F (19.4°C)	470	1000	11.7	39,800	2950	.54	.68	.81	11.0	37,700	3170	.55	.69	.83	10.4	35,600	3440	.56	.71	.85	9.8	33,400	3760	.57	.73	.88
	540	1150	12.0	41,100	2990	.56	.70	.85	11.4	38,900	3220	.57	.72	.87	10.8	36,700	3490	.58	.74	.90	10.1	34,300	3830	.59	.77	.93
	615	1300	12.4	42,200	3020	.58	.73	.89	11.7	39,900	3250	.59	.75	.92	11.0	37,500	3540	.60	.77	.94	10.3	35,100	3880	.61	.80	.98
71°F (21.7°C)	470	1000	12.3	42,000	3010	.41	.54	.68	11.7	39,900	3250	.41	.55	.69	11.0	37,700	3540	.41	.56	.70	10.3	35,300	3890	.42	.57	.72
	540	1150	12.7	43,400	3050	.41	.56	.70	12.1	41,200	3300	.42	.57	.72	11.4	38,800	3600	.42	.58	.73	10.6	36,200	3960	.43	.60	.76
	615	1300	13.0	44,500	3090	.42	.57	.73	12.3	42,100	3340	.42	.58	.75	11.6	39,700	3640	.43	.60	.77	10.9	37,100	4010	.43	.62	.79

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

HS23-413 WITH C22-46(FC)/B24 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	470	1000	11.1	37,900	2900	.69	.83	.96	10.6	36,000	3110	.70	.85	.98	9.9	33,900	3360	.72	.88	1.00	9.3	31,800	3670	.74	.91	1.00
	540	1150	11.5	39,200	2950	.72	.87	1.00	10.9	37,200	3160	.73	.89	1.00	10.3	35,000	3420	.75	.92	1.00	9.6	32,800	3740	.77	.96	1.00
	615	1300	11.8	40,300	2980	.75	.90	1.00	11.2	38,200	3200	.76	.93	1.00	10.5	35,900	3470	.78	.96	1.00	9.9	33,900	3800	.81	.99	1.00
67°F (19.4°C)	470	1000	11.6	39,700	2960	.54	.68	.81	11.0	37,700	3180	.55	.69	.83	10.5	35,700	3460	.56	.71	.85	9.8	33,400	3790	.57	.73	.88
	540	1150	12.1	41,200	3000	.56	.70	.85	11.5	39,100	3240	.57	.72	.87	10.8	36,900	3520	.58	.74	.89	10.1	34,600	3860	.59	.76	.92
	615	1300	12.4	42,400	3040	.57	.73	.89	11.8	40,200	3280	.58	.74	.91	11.1	37,900	3570	.60	.77	.94	10.4	35,400	3920	.61	.80	.97
71°F (21.7°C)	470	1000	12.2	41,500	3010	.41	.54	.68	11.5	39,400	3250	.41	.55	.69	10.9	37,300	3540	.41	.56	.70	10.3	35,000	3890	.42	.57	.72
	540	1150	12.6	43,100	3050	.41	.56	.70	12.0	40,900	3300	.42	.57	.72	11.3	38,600	3600	.42	.58	.73	10.6	36,200	3970	.42	.59	.76
	615	1300	13.0	44,300	3090	.42	.57	.73	12.3	42,000	3350	.42	.58	.75	11.6	39,600	3660	.43	.60	.77	10.8	37,000	4030	.43	.62	.79

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

HS23-413 WITH CB19-51 OR CBH19-51 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	425	900	10.6	36,100	3010	.70	.84	.96	10.0	34,100	3240	.72	.86	.99	9.4	32,100	3510	.73	.89	1.00	8.8	30,100	3850	.75	.92	1.00
	530	1125	11.2	38,100	3080	.75	.90	1.00	10.6	36,100	3320	.77	.93	1.00	9.9	33,900	3620	.79	.96	1.00	9.3	31,700	3990	.81	.99	1.00
	635	1350	11.6	39,700	3130	.79	.96	1.00	11.0	37,600	3390	.81	.98	1.00	10.4	35,500	3710	.83	1.00	1.00	9.8	33,400	4110	.86	1.00	1.00
67°F (19.4°C)	425	900	11.2	38,300	3080	.56	.69	.82	10.6	36,300	3330	.56	.70	.84	10.0	34,200	3630	.57	.72	.86	9.3	31,900	4000	.58	.74	.88
	530	1125	11.9	40,500	3150	.58	.73	.88	11.2	38,200	3420	.59	.75	.90	10.5	36,000	3730	.60	.77	.92	9.8	33,400	4110	.62	.80	.96
	635	1350	12.3	41,900	3200	.61	.78	.94	11.6	39,500	3480	.62	.80	.96	10.8	37,000	3800	.64	.83	.99	10.1	34,500	4200	.65	.86	1.00
71°F (21.7°C)	425	900	11.9	40,500	3160	.42	.55	.69	11.3	38,400	3420	.42	.56	.70	10.6	36,200	3750	.43	.57	.72	9.9	33,800	4150	.43	.58	.73
	530	1125	12.5	42,700	3230	.43	.58	.73	11.9	40,500	3510	.43	.59	.75	11.1	38,000	3850	.44	.60	.76	10.4	35,400	4280	.44	.62	.79
	635	1350	12.9	44,100	3280	.44	.61	.77	12.2	41,700	3580	.44	.62	.79	11.5	39,200	3930	.45	.64	.81	10.7	36,400	4370	.46	.66	.84

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

TXV RATINGS

HS23-461-463 WITH CH24-41 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	470	1000	11.2	38,100	3190	.65	.79	.90	10.8	36,700	3420	.66	.80	.92	10.3	35,100	3650	.67	.82	.94	9.8	33,400	3870	.68	.84	.96
	565	1200	11.7	40,000	3250	.69	.82	.96	11.3	38,400	3480	.70	.84	.98	10.8	36,700	3720	.71	.86	1.00	10.3	35,000	3940	.73	.88	1.00
	660	1400	12.1	41,400	3290	.72	.86	1.00	11.6	39,700	3530	.73	.87	1.00	11.1	38,000	3770	.75	.90	1.00	10.6	36,100	4000	.77	.92	1.00
67°F (19.4°C)	470	1000	11.8	40,100	3250	.51	.65	.77	11.3	38,500	3490	.52	.66	.78	10.8	37,000	3730	.53	.67	.79	10.3	35,300	3960	.53	.69	.81
	565	1200	12.3	42,000	3310	.53	.67	.81	11.8	40,400	3550	.54	.68	.83	11.3	38,700	3800	.55	.70	.84	10.8	37,000	4030	.56	.71	.86
	660	1400	12.7	43,500	3360	.55	.70	.86	12.3	41,800	3600	.56	.71	.88	11.7	40,000	3850	.57	.73	.90	11.2	38,100	4100	.58	.74	.92
71°F (21.7°C)	470	1000	12.3	41,900	3300	.38	.53	.64	11.8	40,300	3550	.39	.53	.65	11.3	38,700	3800	.39	.54	.66	10.8	37,000	4040	.39	.55	.67
	565	1200	12.9	43,900	3370	.39	.54	.67	12.4	42,200	3620	.39	.55	.68	11.9	40,500	3870	.40	.56	.69	11.3	38,700	4120	.40	.57	.71
	660	1400	13.3	45,400	3420	.40	.56	.71	12.8	43,600	3670	.40	.57	.72	12.3	41,900	3930	.41	.57	.73	11.7	40,000	4190	.41	.58	.75

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

TXV RATINGS

NOTE — For Temperatures and Capacities not shown in tables, see bulletin — Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HS23-461-463 WITH C23-41(FC), C23-41W(FC), C24-41FC/B24 OR C24-41WFC/B24 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	565	1200	11.8	40,300	3260	.68	.82	.94	11.3	38,600	3490	.69	.84	.96	10.8	36,900	3720	.70	.86	.98	10.3	35,100	3950	.71	.88	1.00
	685	1450	12.3	42,000	3310	.72	.86	1.00	11.8	40,300	3550	.73	.88	1.00	11.3	38,400	3790	.74	.91	1.00	10.7	36,500	4020	.76	.93	1.00
	800	1700	12.7	43,300	3350	.76	.91	1.00	12.2	41,500	3600	.77	.93	1.00	11.6	39,700	3840	.79	.95	1.00	11.0	37,500	4070	.81	.98	1.00
67°F (19.4°C)	565	1200	12.4	42,300	3320	.53	.67	.80	11.9	40,600	3560	.54	.68	.81	11.4	38,900	3810	.55	.70	.83	10.9	37,100	4050	.56	.71	.84
	685	1450	12.9	44,100	3380	.56	.70	.85	12.4	42,300	3630	.56	.72	.87	11.9	40,500	3880	.57	.73	.88	11.3	38,600	4120	.58	.75	.90
	800	1700	13.3	45,500	3420	.58	.73	.90	12.8	43,600	3680	.59	.75	.92	12.2	41,700	3930	.60	.76	.94	11.6	39,700	4180	.61	.78	.97
71°F (21.7°C)	565	1200	12.9	44,100	3380	.40	.54	.67	12.4	42,400	3630	.40	.55	.68	11.9	40,600	3880	.41	.56	.69	11.4	38,800	4130	.41	.56	.70
	685	1450	13.5	46,000	3440	.41	.56	.70	13.0	44,200	3700	.41	.57	.71	12.5	42,500	3950	.42	.58	.73	11.8	40,400	4210	.42	.59	.74
	800	1700	13.9	47,500	3480	.42	.58	.74	13.3	45,500	3750	.42	.59	.75	12.8	43,600	4010	.43	.60	.77	12.2	41,600	4270	.43	.61	.79

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

HS23-461-463 WITH CH22-41 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	520	1100	11.9	40,700	3270	.68	.83	.95	11.4	39,000	3510	.69	.84	.97	10.9	37,300	3750	.71	.86	.99	10.4	35,500	3970	.72	.89	1.00
	615	1300	12.4	42,400	3330	.72	.86	1.00	11.9	40,600	3570	.73	.89	1.00	11.4	38,800	3810	.74	.91	1.00	10.8	36,800	4040	.76	.94	1.00
	710	1500	12.8	43,600	3370	.75	.90	1.00	12.3	41,800	3610	.77	.93	1.00	11.7	39,900	3860	.78	.95	1.00	11.1	37,900	4100	.80	.98	1.00
67°F (19.4°C)	520	1100	12.5	42,700	3340	.54	.68	.81	12.0	41,000	3580	.54	.69	.82	11.5	39,200	3830	.55	.70	.84	11.0	37,400	4070	.56	.72	.85
	615	1300	13.0	44,500	3390	.56	.70	.85	12.5	42,700	3640	.57	.72	.87	11.9	40,700	3900	.57	.73	.89	11.4	38,900	4140	.58	.75	.91
	710	1500	13.4	45,800	3440	.58	.73	.90	12.9	44,000	3690	.59	.75	.92	12.3	42,100	3950	.60	.76	.94	11.8	40,100	4200	.61	.79	.96
71°F (21.7°C)	520	1100	13.1	44,600	3400	.40	.54	.67	12.5	42,800	3650	.41	.55	.68	12.0	41,000	3910	.41	.56	.69	11.5	39,200	4160	.41	.57	.71
	615	1300	13.6	46,500	3450	.41	.56	.70	13.1	44,700	3720	.41	.57	.72	12.5	42,800	3980	.42	.58	.73	11.9	40,700	4240	.42	.59	.74
	710	1500	14.0	47,900	3500	.42	.58	.74	13.5	46,000	3760	.42	.59	.75	12.9	44,100	4030	.43	.60	.76	12.3	42,000	4290	.43	.61	.78

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

HS23-461-463 WITH CR18-41 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	470	1000	11.3	38,600	3180	.69	.81	.92	10.8	37,000	3400	.70	.82	.94	10.4	35,400	3620	.71	.84	.96	9.8	33,600	3820	.73	.86	.97
	590	1250	12.0	40,800	3250	.73	.86	.97	11.4	39,000	3480	.74	.88	.99	10.9	37,100	3700	.75	.90	1.00	10.4	35,400	3910	.77	.92	1.00
	710	1500	12.4	42,300	3300	.76	.91	1.00	11.9	40,500	3530	.78	.93	1.00	11.3	38,600	3760	.79	.95	1.00	10.7	36,600	3980	.81	.97	1.00
67°F (19.4°C)	470	1000	12.0	41,000	3260	.56	.67	.77	11.5	39,300	3490	.56	.68	.79	11.0	37,600	3710	.57	.69	.80	10.5	35,800	3930	.58	.70	.82
	590	1250	12.7	43,200	3330	.58	.70	.82	12.1	41,400	3570	.59	.71	.84	11.6	39,500	3800	.59	.73	.86	11.0	37,600	4020	.60	.74	.88
	710	1500	13.1	44,800	3390	.60	.74	.87	12.6	42,900	3630	.61	.75	.89	12.0	40,900	3860	.62	.77	.91	11.4	38,900	4090	.63	.79	.94
71°F (21.7°C)	470	1000	12.7	43,200	3330	.43	.54	.64	12.2	41,500	3570	.43	.54	.65	11.7	39,800	3810	.44	.55	.66	11.1	37,900	4040	.44	.56	.67
	590	1250	13.4	45,600	3410	.44	.56	.68	12.8	43,700	3660	.44	.57	.69	12.2	41,800	3900	.44	.58	.70	11.7	39,800	4140	.45	.59	.72
	710	1500	13.9	47,300	3470	.45	.58	.71	13.3	45,400	3720	.45	.59	.73	12.7	43,300	3970	.46	.60	.74	12.1	41,200	4210	.46	.61	.76

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

HS23-461-463 WITH C22-41(FC)/B24 OR CR22-41/B24 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	565	1200	12.5	42,500	3320	.70	.85	.97	11.9	40,700	3560	.71	.87	.99	11.4	38,800	3790	.72	.89	1.00	10.8	36,800	4020	.74	.91	1.00
	685	1450	13.0	44,200	3370	.74	.90	1.00	12.4	42,300	3620	.75	.92	1.00	11.8	40,300	3860	.77	.95	1.00	11.2	38,100	4090	.79	.97	1.00
	800	1700	13.3	45,400	3410	.78	.95	1.00	12.7	43,400	3660	.80	.97	1.00	12.2	41,500	3900	.82	.99	1.00	11.5	39,400	4150	.84	1.00	1.00
67°F (19.4°C)	565	1200	13.2	45,000	3390	.55	.69	.82	12.6	43,100	3640	.56	.70	.84	12.1	41,200	3890	.56	.71	.85	11.5	39,100	4140	.57	.73	.87
	685	1450	13.7	46,800	3450	.57	.72	.88	13.1	44,800	3710	.58	.74	.89	12.5	42,700	3960	.59	.76	.91	11.9	40,600	4210	.60	.78	.94
	800	1700	14.1	48,100	3490	.60	.76	.93	13.5	46,000	3750	.61	.78	.95	12.9	43,900	4010	.62	.80	.98	12.2	41,600	4260	.63	.82	1.00
71°F (21.7°C)	565	1200	13.9	47,300	3470	.41	.55	.69	13.3	45,400	3730	.42	.56	.69	12.7	43,300	3990	.42	.56	.71	12.1	41,300	4240	.42	.57	.72
	685	1450	14.4	49,200	3530	.42	.57	.72	13.8	47,200	3790	.43	.58	.73	13.2	45,000	4060	.43	.59	.75	12.6	42,900	4320	.43	.60	.76
	800	1700	14.8	50,500	3570	.43	.59	.76	14.2	48,400	3840	.44	.60	.78	13.6	46,300	4110	.44	.62	.79	12.9	44,000	4370	.44	.63	.81

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

TXV RATINGS

NOTE — For Temperatures and Capacities not shown in tables, see bulletin — Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HS23-461-463 WITH CVP10-46/EC10Q4 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	565	1200	12.1	41,400	3270	.72	.85	.97	11.6	39,600	3500	.73	.86	.99	11.0	37,700	3720	.74	.88	1.00	10.5	35,900	3940	.76	.90	1.00
	685	1450	12.6	42,900	3330	.75	.90	1.00	12.0	41,100	3560	.77	.92	1.00	11.5	39,200	3790	.78	.94	1.00	10.9	37,100	4010	.80	.96	1.00
	800	1700	13.0	44,300	3370	.79	.94	1.00	12.4	42,400	3610	.80	.97	1.00	11.8	40,400	3840	.82	.99	1.00	11.3	38,500	4080	.84	1.00	1.00
67°F (19.4°C)	565	1200	12.9	44,000	3360	.57	.69	.81	12.4	42,300	3600	.58	.71	.83	11.8	40,300	3840	.59	.72	.85	11.2	38,300	4060	.60	.73	.87
	685	1450	13.5	45,900	3420	.59	.73	.86	12.8	43,800	3660	.60	.74	.88	12.3	41,800	3900	.61	.76	.90	11.6	39,700	4130	.62	.78	.93
	800	1700	13.8	47,000	3460	.61	.76	.91	13.2	45,000	3710	.62	.78	.93	12.6	42,900	3950	.63	.80	.96	11.9	40,600	4180	.64	.82	.98
71°F (21.7°C)	565	1200	13.7	46,800	3450	.44	.56	.67	13.1	44,800	3700	.44	.56	.68	12.6	42,900	3950	.44	.57	.69	12.0	40,800	4190	.44	.58	.71
	685	1450	14.2	48,400	3510	.45	.58	.70	13.6	46,400	3760	.45	.58	.72	13.0	44,300	4010	.46	.59	.73	12.4	42,200	4260	.46	.60	.75
	800	1700	14.6	49,800	3550	.45	.60	.74	14.0	47,700	3810	.46	.61	.76	13.3	45,500	4060	.46	.62	.77	12.7	43,200	4310	.47	.63	.79

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

HS23-461-463 WITH CVP10-51/EC10Q4 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	565	1200	12.2	41,500	3280	.72	.85	.98	11.6	39,600	3500	.73	.86	.99	11.0	37,700	3720	.74	.89	1.00	10.5	35,700	3930	.76	.91	1.00
	685	1450	12.6	43,000	3330	.75	.90	1.00	12.1	41,200	3560	.77	.93	1.00	11.5	39,200	3790	.78	.95	1.00	10.9	37,300	4010	.80	.97	1.00
	800	1700	13.0	44,500	3370	.79	.96	1.00	12.5	42,600	3610	.80	.97	1.00	11.9	40,700	3850	.82	.99	1.00	11.4	38,800	4090	.84	1.00	1.00
67°F (19.4°C)	565	1200	13.0	44,200	3370	.57	.70	.81	12.4	42,400	3600	.58	.71	.83	11.8	40,400	3840	.59	.72	.85	11.2	38,300	4060	.60	.73	.87
	685	1450	13.5	46,000	3420	.60	.73	.86	12.9	44,000	3660	.60	.74	.88	12.3	41,800	3900	.61	.76	.90	11.6	39,700	4130	.62	.78	.94
	800	1700	13.8	47,200	3460	.61	.77	.93	13.2	45,100	3710	.62	.78	.95	12.6	43,000	3950	.63	.80	.97	11.9	40,700	4180	.64	.82	.99
71°F (21.7°C)	565	1200	13.7	46,900	3450	.44	.56	.67	13.2	45,000	3700	.44	.56	.68	12.6	43,000	3950	.45	.57	.69	12.0	40,900	4190	.45	.58	.71
	685	1450	14.3	48,700	3510	.45	.58	.71	13.7	46,700	3770	.45	.59	.72	13.0	44,500	4020	.46	.60	.73	12.4	42,300	4260	.46	.61	.75
	800	1700	14.7	50,000	3560	.46	.60	.74	14.0	47,900	3810	.46	.61	.76	13.4	45,600	4070	.46	.62	.78	12.7	43,300	4310	.47	.63	.80

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

HS23-461-463 WITH C23-46(FC) OR C24-46FC/B24 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	565	1200	12.2	41,500	3290	.69	.84	.96	11.7	39,900	3520	.70	.85	.97	11.1	38,000	3760	.71	.87	1.00	10.6	36,200	3990	.73	.90	1.00
	685	1450	12.7	43,400	3340	.73	.88	1.00	12.2	41,600	3590	.74	.90	1.00	11.6	39,500	3830	.76	.93	1.00	11.0	37,600	4060	.78	.96	1.00
	800	1700	13.1	44,700	3390	.77	.93	1.00	12.5	42,800	3630	.79	.95	1.00	11.9	40,700	3870	.80	.98	1.00	11.3	38,700	4120	.86	1.00	1.00
67°F (19.4°C)	565	1200	12.8	43,600	3350	.54	.68	.81	12.3	41,800	3600	.55	.69	.83	11.7	40,000	3850	.56	.71	.84	11.2	38,100	4090	.57	.72	.86
	685	1450	13.4	45,600	3410	.57	.72	.86	12.8	43,700	3660	.58	.73	.88	12.3	41,800	3910	.58	.74	.90	11.6	39,700	4160	.59	.76	.92
	800	1700	13.8	47,000	3460	.59	.75	.92	13.2	45,000	3710	.60	.76	.94	12.6	43,000	3970	.61	.78	.96	12.0	40,900	4220	.62	.80	.99
71°F (21.7°C)	565	1200	13.3	45,400	3410	.41	.55	.68	12.8	43,700	3660	.41	.55	.69	12.3	41,900	3920	.41	.56	.70	11.7	40,000	4180	.42	.57	.71
	685	1450	14.0	47,600	3470	.42	.57	.72	13.4	45,600	3730	.42	.58	.73	12.8	43,700	4000	.43	.59	.74	12.2	41,700	4250	.43	.60	.76
	800	1700	14.4	49,100	3520	.43	.59	.75	13.8	47,100	3790	.43	.60	.77	13.2	45,000	4050	.44	.61	.78	12.5	42,800	4310	.44	.62	.80

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

HS23-461-463 WITH CH24-51 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	565	1200	12.2	41,600	3300	.68	.83	.95	11.7	39,900	3550	.69	.84	.97	11.2	38,200	3780	.70	.86	.99	10.7	36,400	4010	.72	.89	1.00
	685	1450	12.7	43,400	3360	.72	.87	1.00	12.2	41,700	3600	.73	.89	1.00	11.6	39,600	3850	.75	.92	1.00	11.1	37,800	4090	.77	.94	1.00
	800	1700	13.1	44,700	3400	.76	.91	1.00	12.5	42,800	3650	.78	.94	1.00	12.0	40,800	3890	.79	.96	1.00	11.4	38,900	4140	.81	.98	1.00
67°F (19.4°C)	565	1200	12.8	43,600	3370	.54	.68	.80	12.3	41,900	3620	.54	.69	.82	11.8	40,200	3870	.55	.70	.83	11.2	38,300	4120	.56	.72	.85
	685	1450	13.3	45,500	3430	.56	.71	.86	12.8	43,700	3680	.57	.72	.87	12.3	42,000	3940	.58	.74	.89	11.7	39,900	4190	.59	.76	.91
	800	1700	13.8	47,000	3470	.59	.74	.91	13.2	45,100	3730	.59	.75	.93	12.6	43,100	3990	.60	.77	.95	12.0	41,000	4250	.61	.79	.97
71°F (21.7°C)	565	1200	13.3	45,500	3430	.40	.54	.67	12.8	43,800	3680	.41	.55	.68	12.3	42,000	3950	.41	.56	.69	11.8	40,100	4200	.41	.57	.70
	685	1450	13.9	47,500	3490	.41	.57	.71	13.4	45,700	3750	.42	.57	.72	12.8	43,800	4020	.42	.58	.73	12.3	41,900	4280	.42	.59	.75
	800	1700	14.4	49,000	3530	.42	.58	.75	13.8	47,000	3800	.43	.59	.76	13.2	45,000	4070	.43	.61	.78	12.6	43,000	4340	.43	.62	.79

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

TXV RATINGS

NOTE — For Temperatures and Capacities not shown in tables, see bulletin — Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HS23-461-463 WITH CR18-51 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	565	1200	12.1	41,400	3280	.73	.86	.97	11.7	39,800	3510	.74	.88	.98	11.1	37,900	3730	.75	.89	1.00	10.5	36,000	3950	.77	.91	1.00
	685	1450	12.7	43,300	3340	.76	.91	1.00	12.1	41,400	3570	.78	.92	1.00	11.6	39,500	3800	.79	.94	1.00	11.0	37,600	4020	.81	.96	1.00
	800	1700	13.1	44,700	3380	.80	.95	1.00	12.6	42,900	3620	.81	.96	1.00	12.0	40,800	3860	.83	.98	1.00	11.4	38,900	4090	.85	1.00	1.00
67°F (19.4°C)	565	1200	12.9	44,000	3360	.58	.70	.82	12.3	42,100	3600	.58	.71	.84	11.8	40,200	3830	.59	.73	.86	11.2	38,200	4060	.60	.74	.88
	685	1450	13.4	45,700	3420	.60	.74	.88	12.8	43,800	3660	.61	.75	.89	12.2	41,700	3900	.62	.77	.91	11.6	39,600	4130	.63	.79	.93
	800	1700	13.8	47,000	3460	.62	.77	.92	13.2	45,000	3700	.63	.79	.94	12.5	42,800	3950	.64	.81	.96	11.9	40,600	4180	.65	.83	.97
71°F (21.7°C)	565	1200	13.6	46,300	3440	.44	.56	.67	13.0	44,400	3680	.44	.57	.69	12.5	42,500	3930	.44	.57	.70	11.8	40,400	4170	.45	.58	.71
	685	1450	14.1	48,100	3490	.45	.58	.71	13.5	46,100	3750	.45	.59	.73	12.9	44,000	4000	.45	.60	.74	12.3	41,900	4240	.46	.61	.76
	800	1700	14.5	49,500	3540	.46	.61	.75	13.9	47,400	3790	.46	.62	.77	13.3	45,300	4050	.47	.63	.78	12.6	43,000	4300	.47	.64	.81

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

HS23-461-463 WITH CH22-51 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	565	1200	12.3	42,100	3350	.69	.84	.96	11.9	40,600	3600	.70	.86	.98	11.4	38,800	3840	.72	.88	1.00	10.8	36,800	4090	.73	.90	1.00
	685	1450	12.8	43,800	3410	.73	.89	1.00	12.3	42,100	3660	.75	.91	1.00	11.8	40,200	3910	.76	.94	1.00	11.2	38,300	4160	.78	.97	1.00
	800	1700	13.2	45,100	3440	.78	.93	1.00	12.7	43,400	3710	.79	.96	1.00	12.2	41,600	3970	.81	.98	1.00	11.6	39,700	4230	.82	1.00	1.00
67°F (19.4°C)	565	1200	13.0	44,300	3420	.55	.68	.82	12.5	42,600	3670	.55	.70	.83	12.0	40,800	3930	.56	.71	.85	11.4	38,900	4190	.57	.73	.86
	685	1450	13.5	46,000	3480	.57	.72	.87	13.0	44,300	3740	.58	.73	.89	12.4	42,400	4000	.59	.75	.91	11.9	40,500	4260	.60	.77	.93
	800	1700	13.9	47,400	3510	.60	.75	.93	13.4	45,600	3790	.60	.77	.94	12.8	43,700	4060	.61	.79	.97	12.2	41,600	4320	.62	.81	.99
71°F (21.7°C)	565	1200	13.5	46,200	3480	.41	.55	.68	13.0	44,400	3740	.41	.55	.69	12.5	42,600	4010	.42	.56	.70	11.9	40,700	4270	.42	.57	.72
	685	1450	14.1	48,200	3540	.42	.57	.72	13.6	46,300	3810	.42	.58	.73	13.0	44,400	4090	.43	.59	.74	12.4	42,400	4360	.43	.60	.76
	800	1700	14.5	49,600	3590	.43	.59	.76	14.0	47,600	3860	.43	.60	.77	13.4	45,600	4140	.44	.61	.79	12.7	43,500	4410	.44	.63	.80

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

HS23-461-463 WITH CB19-41 OR CBH19-41 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	495	1050	11.9	40,500	3250	.71	.84	.95	11.4	38,800	3470	.73	.86	.97	10.8	37,000	3690	.74	.88	.98	10.3	35,300	3910	.75	.89	1.00
	625	1325	12.5	42,800	3320	.76	.90	1.00	12.0	41,000	3550	.77	.92	1.00	11.5	39,100	3780	.79	.94	1.00	10.9	37,200	4000	.81	.96	1.00
	755	1600	13.0	44,500	3370	.80	.95	1.00	12.5	42,600	3620	.82	.97	1.00	12.0	40,800	3850	.84	.98	1.00	11.4	38,800	4080	.86	1.00	1.00
67°F (19.4°C)	495	1050	12.6	42,900	3320	.57	.69	.81	12.0	41,100	3560	.58	.70	.82	11.5	39,300	3790	.58	.71	.84	11.0	37,400	4010	.59	.73	.86
	625	1325	13.2	45,200	3400	.60	.74	.87	12.7	43,300	3640	.60	.75	.89	12.1	41,200	3880	.61	.77	.91	11.5	39,200	4110	.62	.78	.93
	755	1600	13.7	46,700	3450	.62	.78	.92	13.1	44,700	3690	.63	.80	.94	12.5	42,600	3940	.64	.82	.96	11.9	40,500	4170	.66	.84	.98
71°F (21.7°C)	495	1050	13.2	45,200	3400	.43	.55	.66	12.7	43,400	3640	.43	.56	.67	12.2	41,500	3890	.44	.57	.69	11.6	39,600	4130	.44	.57	.70
	625	1325	13.9	47,500	3480	.44	.58	.71	13.4	45,600	3730	.45	.59	.72	12.8	43,600	3980	.45	.60	.74	12.2	41,500	4220	.45	.61	.76
	755	1600	14.4	49,200	3530	.45	.61	.76	13.8	47,100	3780	.46	.62	.77	13.2	45,000	4040	.46	.63	.79	12.5	42,700	4290	.47	.65	.82

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

HS23-461-463 WITH C23-51(FC) OR C24-51FC/B24 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	565	1200	12.5	42,700	3320	.68	.83	.95	12.0	40,900	3570	.69	.85	.97	11.5	39,200	3810	.70	.86	.99	10.9	37,200	4040	.72	.89	1.00
	685	1450	13.1	44,700	3380	.72	.87	1.00	12.5	42,800	3630	.73	.89	1.00	12.0	40,900	3870	.75	.92	1.00	11.3	38,700	4120	.77	.94	1.00
	800	1700	13.5	46,100	3430	.76	.92	1.00	12.9	44,100	3680	.78	.94	1.00	12.3	42,000	3930	.79	.96	1.00	11.8	40,100	4180	.81	.99	1.00
67°F (19.4°C)	565	1200	13.1	44,800	3390	.54	.68	.80	12.6	43,000	3640	.54	.69	.82	12.1	41,200	3890	.55	.70	.83	11.5	39,200	4140	.56	.72	.85
	685	1450	13.7	46,900	3450	.56	.71	.85	13.2	45,000	3710	.57	.72	.87	12.6	43,000	3970	.58	.74	.89	12.0	41,000	4220	.59	.75	.91
	800	1700	14.2	48,400	3500	.58	.74	.91	13.6	46,400	3760	.59	.75	.93	13.0	44,300	4020	.60	.77	.95	12.3	42,100	4280	.61	.79	.97
71°F (21.7°C)	565	1200	13.7	46,800	3450	.40	.54	.67	13.2	45,000	3710	.41	.55	.68	12.6	43,100	3970	.41	.56	.69	12.0	41,100	4230	.41	.57	.70
	685	1450	14.3	48,900	3510	.41	.56	.71	13.8	47,000	3780	.42	.57	.72	13.2	44,900	4050	.42	.58	.73	12.6	42,900	4310	.42	.59	.75
	800	1700	14.8	50,400	3560	.42	.58	.75	14.2	48,400	3830	.43	.59	.76	13.6	46,300	4110	.43	.60	.77	12.9	44,100	4370	.43	.61	.79

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

TXV RATINGS

NOTE — For Temperatures and Capacities not shown in tables, see bulletin — Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HS23-461-463 WITH C22-46(FC)/B24 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	565	1200	12.8	43,600	3350	.69	.84	.96	12.3	41,900	3590	.70	.86	.98	11.7	39,900	3840	.72	.88	1.00	11.1	37,900	4070	.73	.90	1.00
	685	1450	13.4	45,700	3410	.73	.89	1.00	12.8	43,600	3660	.75	.91	1.00	12.2	41,600	3910	.76	.94	1.00	11.6	39,600	4150	.78	.96	1.00
	800	1700	13.7	46,900	3460	.77	.94	1.00	13.2	45,000	3720	.79	.96	1.00	12.6	43,000	3970	.80	.98	1.00	12.0	40,800	4220	.82	1.00	1.00
67°F (19.4°C)	565	1200	13.4	45,700	3420	.55	.68	.82	12.8	43,800	3670	.55	.70	.83	12.3	41,900	3920	.56	.71	.85	11.7	39,900	4170	.57	.73	.87
	685	1450	14.0	47,900	3480	.57	.72	.87	13.5	45,900	3740	.58	.73	.89	12.8	43,800	4000	.59	.75	.91	12.2	41,700	4260	.60	.77	.93
	800	1700	14.4	49,300	3530	.59	.75	.92	13.8	47,200	3790	.60	.77	.94	13.2	45,100	4060	.61	.79	.97	12.6	42,900	4320	.62	.81	.99
71°F (21.7°C)	565	1200	14.0	47,700	3470	.41	.55	.68	13.4	45,700	3740	.41	.55	.69	12.8	43,800	4000	.42	.56	.70	12.3	41,800	4260	.42	.57	.72
	685	1450	14.6	49,800	3540	.42	.57	.72	14.0	47,800	3810	.42	.58	.73	13.4	45,700	4080	.43	.59	.74	12.8	43,600	4350	.43	.60	.76
	800	1700	15.0	51,200	3590	.43	.59	.76	14.4	49,200	3860	.43	.60	.77	13.8	47,000	4140	.44	.61	.79	13.1	44,800	4410	.44	.63	.81

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

HS23-461-463 WITH C22-51(FC)/B24 OR CR22-51/B24 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	565	1200	12.9	44,000	3370	.70	.84	.97	12.4	42,200	3620	.71	.86	.99	11.8	40,300	3860	.72	.88	1.00	11.2	38,200	4100	.73	.91	1.00
	685	1450	13.5	46,200	3430	.73	.89	1.00	12.9	44,100	3680	.75	.91	1.00	12.3	42,000	3940	.76	.94	1.00	11.7	40,000	4180	.78	.96	1.00
	800	1700	13.9	47,500	3480	.78	.94	1.00	13.3	45,500	3740	.79	.96	1.00	12.7	43,500	4000	.81	.99	1.00	12.1	41,200	4250	.83	1.00	1.00
67°F (19.4°C)	565	1200	13.5	46,200	3440	.55	.69	.82	13.0	44,200	3690	.56	.70	.83	12.4	42,300	3950	.56	.71	.85	11.8	40,300	4200	.57	.73	.87
	685	1450	14.2	48,400	3500	.57	.72	.87	13.6	46,400	3760	.58	.73	.89	13.0	44,200	4030	.59	.75	.91	12.3	42,100	4280	.60	.77	.93
	800	1700	14.6	49,800	3550	.60	.76	.93	14.0	47,700	3820	.60	.77	.95	13.4	45,600	4080	.61	.79	.97	12.7	43,300	4340	.63	.82	1.00
71°F (21.7°C)	565	1200	14.1	48,000	3500	.41	.55	.69	13.5	46,200	3760	.41	.56	.70	13.0	44,200	4030	.42	.56	.71	12.4	42,200	4290	.42	.57	.72
	685	1450	14.7	50,300	3560	.42	.57	.72	14.2	48,300	3830	.42	.58	.73	13.5	46,200	4110	.43	.59	.75	12.9	44,000	4370	.43	.60	.76
	800	1700	15.2	51,800	3610	.43	.60	.76	14.6	49,700	3890	.43	.61	.78	13.9	47,500	4160	.44	.62	.79	13.3	45,300	4440	.44	.63	.81

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

HS23-461-463 WITH CB19-51 OR CBH19-51 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	495	1050	12.3	42,100	3300	.71	.84	.95	11.8	40,400	3530	.72	.85	.97	11.3	38,500	3750	.74	.87	.99	10.7	36,600	3970	.75	.89	1.00
	625	1325	13.0	44,400	3380	.76	.90	1.00	12.5	42,600	3610	.77	.92	1.00	11.9	40,600	3850	.79	.94	1.00	11.3	38,600	4070	.81	.96	1.00
	755	1600	13.5	46,200	3430	.80	.96	1.00	13.0	44,200	3680	.82	.98	1.00	12.4	42,300	3920	.84	.99	1.00	11.8	40,300	4170	.87	1.00	1.00
67°F (19.4°C)	495	1050	13.0	44,500	3380	.57	.68	.80	12.5	42,700	3620	.57	.70	.82	12.0	40,800	3860	.58	.71	.83	11.4	38,900	4090	.59	.72	.86
	625	1325	13.7	46,900	3460	.59	.73	.87	13.2	44,900	3700	.60	.75	.89	12.6	42,900	3950	.61	.76	.91	11.9	40,700	4180	.62	.78	.93
	755	1600	14.3	48,700	3510	.62	.78	.93	13.6	46,500	3760	.63	.80	.95	13.0	44,300	4010	.64	.82	.97	12.3	41,900	4250	.66	.84	.99
71°F (21.7°C)	495	1050	13.8	47,000	3460	.43	.55	.66	13.2	45,000	3710	.43	.56	.67	12.6	43,100	3960	.43	.56	.68	12.0	41,000	4200	.44	.57	.70
	625	1325	14.5	49,400	3540	.44	.58	.71	13.9	47,300	3790	.44	.59	.72	13.2	45,200	4050	.45	.60	.74	12.6	43,000	4300	.45	.61	.76
	755	1600	14.9	51,000	3590	.45	.61	.76	14.3	48,900	3850	.46	.62	.77	13.7	46,600	4110	.46	.63	.79	13.0	44,300	4360	.47	.65	.82

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

HS23-511-513 WITH C23-41(FC), C23-41W(FC), C24-41FC/B24 OR C24-41WFC/B24 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	520	1100	13.1	44,800	3810	.63	.77	.87	12.5	42,700	4080	.64	.78	.89	11.9	40,600	4330	.65	.80	.92	11.2	38,200	4560	.66	.82	.95
	660	1400	14.0	47,900	3900	.67	.81	.95	13.4	45,600	4180	.68	.83	.98	12.6	43,100	4440	.70	.85	1.00	11.9	40,600	4680	.72	.88	1.00
	800	1700	14.7	50,100	3960	.71	.85	1.00	14.0	47,600	4250	.73	.88	1.00	13.2	45,000	4520	.75	.90	1.00	12.4	42,300	4760	.77	.94	1.00
67°F (19.4°C)	520	1100	13.8	47,100	3870	.50	.63	.74	13.2	45,000	4160	.50	.64	.75	12.5	42,700	4420	.51	.65	.77	11.8	40,300	4670	.52	.67	.79
	660	1400	14.7	50,300	3970	.52	.66	.80	14.1	48,000	4260	.53	.67	.81	13.3	45,500	4540	.54	.69	.84	12.6	42,900	4790	.55	.70	.86
	800	1700	15.4	52,600	4040	.55	.69	.86	14.7	50,100	4340	.55	.70	.88	13.9	47,500	4620	.57	.72	.90	13.1	44,700	4890	.58	.74	.93
71°F (21.7°C)	520	1100	14.4	49,300	3940	.37	.51	.62	13.8	47,100	4230	.38	.52	.63	13.1	44,800	4510	.38	.53	.64	12.4	42,400	4770	.38	.53	.65
	660	1400	15.4	52,700	4030	.38	.53	.66	14.7	50,300	4340	.39	.54	.67	14.0	47,700	4630	.39	.54	.68	13.2	45,000	4900	.39	.56	.70
	800	1700	16.1	55,000	4100	.39	.55	.70	15.4	52,400	4410	.40	.56	.71	14.6	49,700	4710	.40	.57	.73	13.7	46,800	5000	.41	.58	.75

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

TXV RATINGS

NOTE — For Temperatures and Capacities not shown in tables, see bulletin — Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HS23-511-513 WITH C22-41(FC)/B24 OR CR22-41/B24 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	425	900	13.0	44,400	3800	.62	.75	.86	12.4	42,300	4060	.63	.76	.88	11.7	40,100	4310	.64	.78	.91	11.1	37,800	4540	.65	.80	.93
	520	1100	13.9	47,300	3880	.65	.78	.92	13.2	45,000	4160	.66	.80	.95	12.5	42,500	4410	.68	.82	.98	11.7	40,000	4650	.70	.85	1.00
	615	1300	14.5	49,400	3940	.68	.82	.99	13.7	46,800	4230	.70	.84	1.00	13.0	44,300	4490	.72	.86	1.00	12.2	41,600	4730	.74	.90	1.00
67°F (19.4°C)	425	900	13.8	47,200	3880	.48	.61	.72	13.2	45,000	4160	.49	.62	.74	12.5	42,700	4420	.50	.63	.75	11.8	40,300	4660	.51	.65	.77
	520	1100	14.7	50,200	3960	.50	.64	.77	14.0	47,700	4250	.51	.65	.79	13.2	45,200	4530	.52	.66	.81	12.5	42,600	4780	.53	.68	.83
	615	1300	15.3	52,300	4030	.52	.66	.82	14.6	49,800	4330	.53	.67	.84	13.8	47,100	4610	.54	.69	.86	13.0	44,300	4860	.55	.71	.89
71°F (21.7°C)	425	900	14.6	49,900	3950	.36	.50	.60	13.9	47,600	4250	.36	.51	.61	13.2	45,200	4530	.37	.51	.62	12.5	42,700	4790	.37	.52	.63
	520	1100	15.5	52,900	4040	.37	.51	.63	14.8	50,500	4340	.37	.52	.64	14.0	47,800	4640	.38	.53	.66	13.2	45,100	4900	.38	.54	.67
	615	1300	16.2	55,200	4100	.38	.53	.66	15.4	52,500	4420	.38	.54	.68	14.5	49,600	4720	.39	.55	.70	13.7	46,900	4990	.39	.56	.71

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

HS23-511-513 WITH CH22-41 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	520	1100	13.7	46,700	3860	.65	.78	.91	13.0	44,500	4140	.66	.80	.93	12.4	42,200	4400	.67	.82	.95	11.7	39,800	4630	.69	.85	.98
	615	1300	14.4	49,000	3930	.67	.82	.96	13.7	46,600	4220	.69	.84	.99	12.9	44,100	4480	.71	.86	1.00	12.2	41,500	4720	.73	.89	1.00
	710	1500	14.9	50,700	3980	.71	.85	1.00	14.1	48,200	4270	.72	.88	1.00	13.4	45,600	4550	.74	.90	1.00	12.5	42,800	4790	.77	.94	1.00
67°F (19.4°C)	520	1100	14.4	49,000	3930	.51	.64	.76	13.7	46,800	4220	.52	.65	.78	13.0	44,400	4500	.52	.67	.80	12.3	41,900	4750	.53	.68	.82
	615	1300	15.1	51,500	4000	.53	.66	.80	14.4	49,100	4300	.53	.68	.82	13.6	46,500	4580	.54	.69	.84	12.8	43,700	4840	.55	.71	.87
	710	1500	15.6	53,400	4060	54	.69	.85	14.9	50,800	4360	.55	.70	.87	14.1	48,100	4650	.56	.72	.89	13.3	45,300	4920	.58	.75	.92
71°F (21.7°C)	520	1100	15.1	51,400	4000	.38	.52	.63	14.3	48,900	4300	.38	.52	.65	13.6	46,500	4590	.39	.53	.66	12.9	43,900	4850	.39	.54	.67
	615	1300	15.8	53,900	4070	.39	.53	.66	15.1	51,400	4380	.39	.54	.67	14.3	48,700	4670	.39	.55	.69	13.5	46,100	4950	.40	.56	.71
	710	1500	16.4	55,900	4120	.39	.55	.69	15.6	53,200	4440	.40	.55	.71	14.8	50,500	4750	.40	.57	.72	13.9	47,600	5030	.41	.58	.74

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

HS23-511-513 WITH C23-46(FC) OR C24-46FC/B24 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	565	1200	13.8	47,100	3880	.65	.79	.92	13.2	45,000	4160	.66	.81	.94	12.5	42,500	4420	.68	.83	.96	11.7	40,100	4650	.69	.86	1.00
	660	1400	14.4	49,100	3940	.68	.82	.97	13.7	46,700	4220	.69	.84	1.00	13.0	44,200	4490	.71	.87	1.00	12.2	41,500	4730	.73	.90	1.00
	755	1600	14.9	50,700	3980	.71	.86	1.00	14.1	48,100	4270	.73	.88	1.00	13.3	45,500	4540	.75	.91	1.00	12.5	42,700	4790	.77	.94	1.00
67°F (19.4°C)	565	1200	14.5	49,500	3950	.51	.65	.77	13.8	47,200	4240	.52	.66	.79	13.1	44,800	4510	.53	.67	.80	12.4	42,300	4770	.54	.69	.83
	660	1400	15.1	51,600	4010	.53	.67	.81	14.4	49,200	4310	.54	.68	.83	13.7	46,600	4590	.55	.70	.85	12.9	43,900	4850	.56	.72	.88
	755	1600	15.6	53,300	4050	.55	.69	.85	14.9	50,700	4360	.55	.70	.87	14.3	48,800	4650	.57	.72	.90	13.2	45,200	4910	.58	.75	.93
71°F (21.7°C)	565	1200	15.1	51,700	4010	.38	.52	.64	14.5	49,400	4310	.39	.53	.65	13.7	46,900	4600	.39	.54	.66	13.0	44,300	4870	.39	.55	.68
	660	1400	15.8	54,000	4070	.39	.53	.67	15.1	51,500	4380	.39	.54	.68	14.3	48,800	4680	.40	.55	.69	13.5	46,000	4950	.40	.56	.71
	755	1600	16.3	55,700	4120	.40	.55	.69	15.6	53,100	4440	.40	.56	.71	14.7	50,300	4740	.40	.57	.73	13.9	47,400	5020	.41	.58	.75

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

HS23-511-513 WITH C23-51(FC) OR C24-51FC/B24 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	660	1400	14.9	50,900	3990	.67	.81	.94	14.2	48,400	4280	.68	.83	.96	13.4	45,800	4560	.69	.86	.99	12.6	43,000	4800	.71	.88	1.00
	755	1600	15.4	52,600	4040	.69	.84	.99	14.7	50,000	4330	.71	.87	1.00	13.8	47,100	4610	.73	.89	1.00	13.0	44,400	4860	.75	.93	1.00
	850	1800	15.8	54,000	4070	.72	.87	1.00	15.0	51,200	4380	.74	.90	1.00	14.2	48,300	4660	.76	.93	1.00	13.3	45,400	4920	.78	.96	1.00
67°F (19.4°C)	660	1400	15.7	53,500	4060	.52	.66	.79	14.9	51,000	4370	.53	.67	.81	14.2	48,300	4660	.54	.69	.83	13.3	45,400	4920	.55	.71	.85
	755	1600	16.2	55,400	4110	.54	.68	.83	15.4	52,600	4420	.55	.69	.85	14.6	49,800	4720	.56	.71	.87	13.7	46,800	4990	.57	.73	.90
	850	1800	16.7	56,900	4150	.55	.70	.86	15.8	54,000	4470	.56	.72	.89	15.0	51,100	4770	.57	.74	.91	14.1	48,000	5050	.59	.76	.94
71°F (21.7°C)	660	1400	16.4	55,900	4130	.39	.53	.66	15.6	53,300	4450	.39	.54	.67	14.8	50,600	4750	.40	.55	.68	14.0	47,700	5030	.40	.56	.69
	755	1600	17.0	57,900	4180	.40	.54	.68	16.1	55,100	4500	.40	.55	.69	15.3	52,200	4820	.40	.56	.71	14.4	49,200	5110	.41	.57	.73
	850	1800	17.4	59,400	4220	.40	.55	.70	16.6	56,500	4550	.41	.56	.72	15.7	53,500	4870	.41	.58	.74	14.8	50,400	5170	.42	.59	.76

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

TXV RATINGS

NOTE — For Temperatures and Capacities not shown in tables, see bulletin — Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HS23-511-513 WITH C22-46(FC)/B24 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	660	1400	15.3	52,300	4020	.68	.82	.96	14.5	49,600	4320	.69	.85	.98	13.8	47,000	4590	.70	.87	1.00	12.9	44,100	4840	.72	.90	1.00
	755	1600	15.8	54,000	4070	.70	.86	1.00	15.0	51,300	4370	.72	.88	1.00	14.2	48,400	4650	.74	.91	1.00	13.3	45,400	4910	.76	.94	1.00
	850	1800	16.2	55,400	4110	.73	.89	1.00	15.4	52,500	4420	.75	.92	1.00	14.6	49,700	4700	.77	.95	1.00	13.7	46,700	4970	.79	.98	1.00
67°F (19.4°C)	660	1400	16.1	54,900	4090	.53	.67	.80	15.3	52,200	4400	.54	.68	.82	14.5	49,500	4700	.55	.70	.84	13.6	46,500	4970	.56	.72	.87
	755	1600	16.6	56,800	4140	.55	.69	.84	15.8	54,000	4460	.56	.70	.86	14.9	51,000	4760	.57	.72	.88	14.1	48,000	5040	.58	.75	.91
	850	1800	17.1	58,300	4180	.56	.71	.88	16.2	55,400	4510	.57	.73	.90	15.3	52,300	4810	.58	.75	.93	14.4	49,100	5100	.60	.78	.96
71°F (21.7°C)	660	1400	16.8	57,400	4160	.40	.53	.67	16.0	54,600	4480	.40	.54	.68	15.2	51,800	4790	.40	.55	.69	14.3	48,800	5080	.41	.56	.71
	755	1600	17.4	59,300	4210	.40	.55	.69	16.6	56,500	4540	.41	.56	.70	15.6	53,400	4860	.41	.57	.72	14.7	50,300	5150	.42	.58	.74
	850	1800	17.9	61,000	4250	.41	.56	.72	17.0	58,000	4590	.41	.57	.73	16.1	54,800	4910	.42	.58	.75	15.1	51,500	5220	.42	.60	.77

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

HS23-511-513 WITH CH24-51 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	565	1200	13.8	47,200	3910	.64	.78	.90	13.2	45,000	4190	.65	.80	.92	12.5	42,600	4460	.67	.82	.95	11.8	40,200	4700	.68	.85	.98
	685	1450	14.5	49,600	3980	.68	.82	.97	13.8	47,200	4270	.69	.84	.99	13.1	44,700	4550	.71	.87	1.00	12.3	41,900	4790	.73	.90	1.00
	800	1700	15.1	51,400	4030	.71	.86	1.00	14.3	48,900	4330	.73	.88	1.00	13.5	46,200	4610	.75	.91	1.00	12.7	43,400	4860	.77	.95	1.00
67°F (19.4°C)	565	1200	14.5	49,500	3980	.51	.64	.76	13.8	47,200	4270	.51	.65	.77	13.2	44,900	4560	.52	.67	.79	12.4	42,300	4810	.53	.68	.81
	685	1450	15.3	52,200	4050	.53	.67	.81	14.6	49,700	4360	.54	.68	.83	13.8	47,100	4650	.54	.70	.85	13.0	44,300	4910	.56	.72	.87
	800	1700	15.9	54,100	4110	.55	.69	.86	15.1	51,500	4420	.56	.71	.88	14.3	48,700	4720	.57	.73	.90	13.4	45,800	4990	.58	.75	.93
71°F (21.7°C)	565	1200	15.2	51,800	4040	.38	.52	.63	14.5	49,400	4350	.38	.52	.64	13.8	47,000	4640	.39	.53	.66	13.0	44,400	4920	.39	.54	.67
	685	1450	16.0	54,600	4120	.39	.53	.66	15.2	52,000	4430	.39	.54	.68	14.4	49,300	4740	.40	.55	.69	13.6	46,500	5020	.40	.56	.71
	800	1700	16.6	56,500	4170	.40	.55	.70	15.8	53,900	4500	.40	.56	.71	14.9	51,000	4810	.40	.57	.73	14.1	48,100	5100	.41	.59	.75

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

HS23-511-513 WITH CR18-51 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	660	1400	14.1	48,000	3980	.72	.85	.96	13.3	45,400	4260	.73	.87	.98	12.6	43,000	4520	.75	.89	.99	11.8	40,300	4740	.77	.91	1.00
	800	1700	14.7	50,200	4040	.75	.90	1.00	13.9	47,600	4330	.77	.92	1.00	13.2	44,900	4600	.79	.94	1.00	12.3	42,100	4840	.81	.96	1.00
	945	2000	15.2	52,000	4100	.79	.94	1.00	14.4	49,200	4390	.81	.96	1.00	13.6	46,400	4670	.83	.98	1.00	12.8	43,700	4920	.85	1.00	1.00
67°F (19.4°C)	660	1400	14.9	51,000	4070	.57	.69	.81	14.2	48,400	4360	.58	.71	.83	13.4	45,700	4640	.59	.72	.85	12.6	42,900	4880	.60	.74	.88
	800	1700	15.6	53,200	4130	.59	.73	.86	14.8	50,400	4440	.60	.74	.88	13.9	47,500	4720	.62	.76	.91	13.0	44,500	4970	.63	.79	.93
	945	2000	16.1	54,900	4180	.61	.76	.90	15.2	51,900	4490	.63	.78	.93	14.3	48,900	4780	.64	.80	.95	13.4	45,700	5040	.65	.83	.97
71°F (21.7°C)	660	1400	15.8	53,800	4150	.44	.55	.67	15.0	51,100	4460	.44	.56	.68	14.2	48,300	4750	.44	.57	.70	13.3	45,400	5020	.45	.59	.72
	800	1700	16.5	56,200	4220	.45	.58	.70	15.6	53,300	4540	.45	.59	.72	14.7	50,300	4840	.45	.60	.74	13.8	47,200	5110	.46	.61	.76
	945	2000	17.0	57,900	4270	.45	.60	.74	16.1	54,900	4590	.46	.61	.76	15.2	51,800	4900	.47	.63	.78	14.2	48,500	5180	.47	.64	.80

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

HS23-511-513 WITH C23-51/65(FC) OR C24-65FC/B24 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	660	1400	15.2	51,700	4010	.67	.82	.95	14.4	49,100	4300	.69	.84	.98	13.6	46,500	4580	.70	.86	1.00	12.8	43,600	4830	.72	.90	1.00
	755	1600	15.7	53,500	4060	.70	.85	1.00	14.9	50,700	4360	.71	.88	1.00	14.0	47,900	4640	.73	.91	1.00	13.2	45,000	4900	.75	.94	1.00
	850	1800	16.1	54,900	4100	.73	.88	1.00	15.2	52,000	4400	.74	.91	1.00	14.4	49,100	4690	.76	.94	1.00	13.5	46,000	4950	.79	.98	1.00
67°F (19.4°C)	660	1400	15.9	54,400	4080	.53	.66	.80	15.2	51,700	4390	.54	.68	.81	14.4	49,000	4690	.55	.69	.84	13.5	46,100	4960	.56	.71	.86
	755	1600	16.5	56,300	4130	.54	.68	.83	15.7	53,500	4450	.55	.70	.85	14.8	50,600	4750	.56	.72	.88	13.9	47,500	5030	.57	.74	.91
	850	1800	16.9	57,800	4170	.56	.71	.87	16.1	54,900	4500	.57	.72	.89	15.2	51,800	4800	.58	.75	.92	14.3	48,700	5080	.59	.77	.95
71°F (21.7°C)	660	1400	16.6	56,800	4150	.40	.53	.66	15.9	54,100	4470	.40	.54	.67	15.0	51,300	4780	.40	.55	.69	14.2	48,300	5070	.41	.56	.70
	755	1600	17.2	58,800	4200	.40	.55	.69	16.4	55,900	4530	.40	.55	.70	15.5	52,900	4850	.41	.57	.72	14.6	49,900	5140	.41	.58	.73
	850	1800	17.7	60,400	4240	.41	.56	.71	16.8	57,400	4580	.41	.57	.73	15.9	54,300	4900	.42	.58	.75	15.0	51,100	5200	.42	.60	.77

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

TXV RATINGS

NOTE — For Temperatures and Capacities not shown in tables, see bulletin — Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HS23-511-513 WITH CH24-65 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	615	1300	14.2	48,400	3990	.67	.81	.94	13.5	46,100	4280	.68	.83	.96	12.8	43,600	4560	.69	.85	.99	12.0	41,100	4810	.71	.88	1.00
	730	1550	14.9	50,700	4060	.70	.85	1.00	14.1	48,200	4360	.72	.88	1.00	13.3	45,300	4640	.74	.91	1.00	12.5	42,700	4900	.76	.94	1.00
	850	1800	15.4	52,400	4110	.74	.89	1.00	14.6	49,700	4410	.75	.92	1.00	13.7	46,900	4700	.78	.96	1.00	12.9	44,000	4970	.80	.99	1.00
67°F (19.4°C)	615	1300	14.9	50,900	4060	.53	.66	.79	14.2	48,500	4370	.53	.67	.81	13.5	45,900	4660	.54	.69	.83	12.7	43,200	4930	.55	.71	.85
	730	1550	15.6	53,300	4130	.55	.69	.84	14.9	50,700	4450	.55	.70	.86	14.1	48,000	4750	.56	.72	.88	13.2	45,100	5020	.58	.75	.91
	850	1800	16.1	55,100	4180	.57	.72	.89	15.4	52,400	4500	.58	.73	.91	14.5	49,500	4810	.59	.76	.94	13.6	46,500	5090	.60	.78	.97
71°F (21.7°C)	615	1300	15.6	53,200	4130	.39	.53	.66	14.9	50,700	4450	.40	.54	.67	14.1	48,100	4750	.40	.55	.68	13.3	45,300	5040	.40	.56	.70
	730	1550	16.3	55,700	4200	.40	.55	.69	15.6	53,100	4530	.41	.56	.70	14.7	50,200	4840	.41	.57	.72	13.9	47,400	5140	.41	.58	.74
	850	1800	16.9	57,700	4250	.41	.56	.72	16.1	54,800	4590	.41	.57	.74	15.2	51,900	4910	.42	.59	.76	14.3	48,800	5220	.42	.60	.78

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

HS23-511-513 WITH C22-51(FC)/B24 OR CR22-51/B24 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	660	1400	15.4	52,500	4030	.68	.83	.96	14.6	49,800	4330	.69	.85	.99	13.8	47,100	4610	.71	.88	1.00	13.0	44,200	4860	.73	.91	1.00
	755	1600	15.9	54,200	4080	.71	.86	1.00	15.1	51,400	4380	.72	.89	1.00	14.2	48,500	4670	.74	.92	1.00	13.4	45,600	4930	.76	.95	1.00
	850	1800	16.3	55,600	4120	.73	.90	1.00	15.4	52,700	4430	.75	.93	1.00	14.6	49,800	4720	.77	.95	1.00	13.7	46,800	4990	.80	.99	1.00
67°F (19.4°C)	660	1400	16.1	55,100	4100	.53	.67	.81	15.4	52,400	4410	.54	.68	.82	14.5	49,600	4710	.55	.70	.85	13.7	46,700	4980	.56	.72	.87
	755	1600	16.7	57,000	4160	.55	.69	.84	15.9	54,100	4470	.56	.71	.86	15.0	51,200	4780	.57	.73	.89	14.1	48,100	5060	.58	.75	.92
	850	1800	17.1	58,500	4200	.57	.72	.88	16.3	55,600	4520	.58	.73	.90	15.4	52,500	4830	.59	.76	.93	14.4	49,300	5110	.60	.78	.97
71°F (21.7°C)	660	1400	16.9	57,500	4170	.40	.54	.67	16.1	54,800	4490	.40	.54	.68	15.2	51,900	4800	.41	.55	.69	14.3	48,900	5090	.41	.57	.71
	755	1600	17.4	59,500	4220	.41	.55	.69	16.6	56,600	4550	.41	.56	.71	15.7	53,600	4870	.41	.57	.72	14.8	50,400	5170	.42	.58	.74
	850	1800	17.9	61,100	4260	.41	.56	.72	17.0	58,100	4600	.42	.58	.74	16.1	55,000	4930	.42	.59	.75	15.2	51,700	5230	.43	.60	.78

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

HS23-511-513 WITH CH22-51 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	615	1300	14.0	47,900	3990	.67	.81	.94	13.4	45,600	4280	.68	.83	.96	12.7	43,200	4560	.69	.85	.99	11.9	40,700	4810	.71	.88	1.00
	755	1600	14.8	50,600	4070	.71	.86	1.00	14.1	48,000	4370	.72	.89	1.00	13.3	45,300	4650	.74	.92	1.00	12.5	42,500	4910	.76	.95	1.00
	895	1900	15.4	52,400	4120	.75	.91	1.00	14.6	49,700	4430	.77	.94	1.00	13.7	46,900	4720	.79	.97	1.00	12.9	44,100	5000	.82	1.00	1.00
67°F (19.4°C)	615	1300	14.8	50,400	4060	.53	.66	.79	14.1	48,000	4370	.53	.67	.80	13.3	45,400	4660	.54	.69	.82	12.5	42,800	4930	.55	.71	.85
	755	1600	15.6	53,200	4140	.55	.69	.84	14.8	50,500	4460	.56	.71	.86	14.0	47,800	4760	.57	.73	.89	13.2	44,900	5040	.58	.75	.92
	895	1900	16.2	55,200	4200	.57	.73	.90	15.4	52,400	4520	.58	.75	.93	14.5	49,500	4830	.60	.77	.95	13.6	46,500	5120	.61	.80	.99
71°F (21.7°C)	615	1300	15.4	52,600	4130	.40	.53	.66	14.7	50,200	4450	.40	.54	.67	14.0	47,700	4750	.40	.55	.68	13.1	44,800	5040	.41	.56	.69
	755	1600	16.3	55,600	4210	.41	.55	.69	15.5	52,900	4540	.41	.56	.71	14.7	50,100	4860	.41	.57	.72	13.8	47,200	5160	.42	.59	.74
	895	1900	16.9	57,700	4270	.41	.57	.73	16.1	54,800	4610	.42	.58	.75	15.2	51,900	4930	.42	.60	.77	14.3	48,800	5240	.43	.61	.79

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

♔ HS23-511-513 WITH CVP10-51/EC10Q4 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	660	1400	14.5	49,400	3980	.71	.84	.97	13.7	46,800	4250	.73	.86	.99	12.9	44,100	4510	.74	.88	1.00	12.0	41,100	4730	.76	.91	1.00
	800	1700	15.1	51,600	4040	.75	.89	1.00	14.3	48,800	4320	.76	.91	1.00	13.5	45,900	4590	.78	.95	1.00	12.6	43,100	4820	.81	.97	1.00
	945	2000	15.6	53,300	4090	.78	.95	1.00	14.7	50,300	4380	.80	.97	1.00	14.0	47,600	4660	.82	.99	1.00	13.2	44,900	4920	.85	1.00	1.00
67°F (19.4°C)	660	1400	15.5	52,800	4080	.57	.69	.81	14.7	50,100	4370	.58	.70	.82	13.9	47,300	4640	.59	.72	.85	13.0	44,300	4890	.60	.74	.87
	800	1700	16.2	55,200	4140	.59	.72	.86	15.3	52,200	4450	.60	.74	.88	14.4	49,100	4720	.61	.76	.90	13.5	46,000	4970	.62	.78	.95
	945	2000	16.7	56,900	4190	.61	.76	.91	15.8	53,800	4500	.62	.77	.95	14.8	50,600	4780	.63	.80	.96	13.9	47,300	5040	.65	.82	.99
71°F (21.7°C)	660	1400	16.5	56,200	4180	.44	.56	.66	15.6	53,400	4490	.44	.56	.68	14.8	50,500	4780	.44	.57	.69	13.9	47,400	5050	.45	.58	.71
	800	1700	17.2	58,600	4240	.45	.57	.70	16.3	55,700	4560	.45	.58	.71	15.4	52,400	4860	.46	.59	.73	14.4	49,200	5130	.46	.61	.75
	945	2000	17.7	60,500	4290	.45	.59	.73	16.8	57,300	4620	.46	.60	.75	15.8	53,900	4920	.47	.62	.77	14.8	50,500	5200	.47	.64	.80

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

TXV RATINGS

NOTE — For Temperatures and Capacities not shown in tables, see bulletin — Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HS23-511-513 WITH CR18-65 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	710	1500	14.5	49,400	4030	.72	.86	.98	13.8	47,000	4310	.73	.89	1.00	13.0	44,300	4580	.75	.91	1.00	12.2	41,700	4810	.76	.93	1.00
	850	1800	15.2	51,800	4090	.75	.91	1.00	14.3	48,900	4390	.77	.93	1.00	13.5	46,100	4660	.79	.96	1.00	12.7	43,200	4900	.81	.98	1.00
	990	2100	15.6	53,300	4140	.79	.95	1.00	14.8	50,400	4440	.81	.97	1.00	13.9	47,600	4720	.83	.99	1.00	13.1	44,700	4980	.86	1.00	1.00
67°F (19.4°C)	710	1500	15.4	52,500	4120	.56	.71	.84	14.8	49,800	4420	.57	.72	.85	13.8	47,000	4700	.58	.74	.87	12.9	44,100	4950	.59	.76	.90
	850	1800	16.0	54,600	4180	.59	.74	.89	15.2	51,800	4480	.60	.76	.91	14.3	48,700	4770	.61	.78	.93	13.4	45,600	5030	.62	.80	.96
	990	2100	16.5	56,200	4220	.61	.78	.94	15.6	53,200	4530	.62	.80	.96	14.6	49,900	4830	.64	.82	.99	13.7	46,800	5090	.65	.86	1.00
71°F (21.7°C)	710	1500	16.3	55,500	4200	.42	.56	.70	15.4	52,700	4520	.43	.57	.71	14.6	49,800	4820	.43	.58	.73	13.7	46,800	5090	.43	.60	.74
	850	1800	16.9	57,800	4260	.43	.59	.74	16.0	54,700	4590	.44	.60	.75	15.1	51,600	4890	.44	.61	.77	14.2	48,400	5170	.45	.62	.79
	990	2100	17.4	59,300	4310	.44	.61	.77	16.5	56,200	4640	.45	.62	.79	15.5	52,900	4950	.45	.64	.81	14.5	49,600	5240	.46	.65	.83

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

♁HS23-511-513 WITH CVP10-65/EC10Q5 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	660	1400	15.2	51,800	4050	.73	.86	.97	14.4	49,000	4330	.74	.88	.99	13.5	46,200	4600	.76	.90	1.00	12.7	43,200	4840	.78	.93	1.00
	800	1700	15.9	54,100	4110	.77	.91	1.00	15.0	51,100	4410	.78	.94	1.00	14.1	48,200	4690	.81	.96	1.00	13.2	45,200	4930	.84	.98	1.00
	945	2000	16.4	55,900	4170	.81	.96	1.00	15.6	53,100	4470	.83	.98	1.00	14.6	49,900	4760	.85	1.00	1.00	13.8	47,100	5030	.88	1.00	1.00
67°F (19.4°C)	660	1400	16.1	55,100	4140	.57	.70	.82	15.3	52,200	4440	.58	.71	.85	14.4	49,200	4730	.59	.73	.87	13.5	46,100	4980	.61	.75	.89
	800	1700	16.8	57,400	4210	.60	.74	.88	15.9	54,300	4510	.61	.76	.90	15.0	51,100	4800	.62	.78	.93	14.0	47,800	5060	.64	.80	.96
	945	2000	17.3	59,000	4250	.62	.78	.93	16.3	55,700	4570	.64	.80	.95	15.4	52,600	4860	.65	.83	.98	14.4	49,000	5130	.67	.86	1.00
71°F (21.7°C)	660	1400	17.1	58,400	4230	.43	.56	.67	16.2	55,400	4550	.44	.57	.69	15.3	52,300	4850	.44	.58	.70	14.4	49,000	5130	.44	.59	.73
	800	1700	17.8	60,800	4300	.44	.58	.71	16.9	57,500	4620	.45	.59	.73	15.9	54,200	4930	.45	.61	.75	14.9	50,800	5220	.46	.62	.78
	945	2000	18.3	62,500	4340	.45	.61	.75	17.3	59,100	4680	.46	.62	.78	16.3	55,700	4990	.47	.64	.80	15.2	52,000	5280	.48	.66	.83

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

HS23-511-513 WITH CH22-65 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	615	1300	14.4	49,200	4030	.66	.81	.93	13.7	46,800	4320	.68	.83	.96	13.0	44,300	4600	.69	.85	.98	12.2	41,500	4860	.71	.88	1.00
	755	1600	15.2	51,700	4100	.70	.86	1.00	14.4	49,000	4410	.72	.89	1.00	13.5	46,200	4690	.74	.92	1.00	12.7	43,200	4950	.76	.95	1.00
	895	1900	15.7	53,500	4150	.75	.91	1.00	14.9	50,800	4460	.77	.94	1.00	14.0	47,800	4760	.79	.98	1.00	13.2	45,000	5050	.81	1.00	1.00
67°F (19.4°C)	615	1300	15.3	52,200	4110	.52	.65	.78	14.5	49,600	4430	.53	.67	.80	13.8	47,000	4720	.54	.68	.82	13.0	44,200	5000	.55	.70	.84
	755	1600	16.0	54,700	4190	.55	.69	.84	15.2	52,000	4510	.56	.70	.86	14.4	49,100	4820	.57	.72	.88	13.5	46,100	5100	.58	.75	.91
	895	1900	16.6	56,600	4240	.57	.72	.90	15.7	53,700	4570	.58	.74	.92	14.9	50,800	4880	.59	.77	.95	14.0	47,600	5170	.61	.79	.99
71°F (21.7°C)	615	1300	16.1	55,100	4190	.39	.52	.65	15.4	52,400	4520	.40	.53	.66	14.6	49,700	4840	.40	.54	.67	13.7	46,700	5130	.40	.55	.69
	755	1600	16.9	57,700	4270	.40	.55	.69	16.1	54,800	4610	.41	.56	.70	15.2	51,900	4930	.41	.57	.72	14.3	48,800	5240	.41	.58	.74
	895	1900	17.5	59,700	4320	.41	.57	.73	16.6	56,700	4660	.42	.58	.74	15.7	53,600	5000	.42	.59	.76	14.7	50,300	5310	.43	.61	.79

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

HS23-511-513 WITH C22-65(FC)/B24 OR CR22-65/B24 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	660	1400	16.0	54,500	4080	.68	.82	.96	15.2	51,700	4390	.69	.85	.99	14.3	48,700	4670	.71	.87	1.00	13.4	45,600	4930	.73	.91	1.00
	755	1600	16.5	56,200	4130	.71	.86	1.00	15.6	53,200	4440	.72	.89	1.00	14.7	50,000	4730	.74	.92	1.00	13.8	47,000	5000	.76	.95	1.00
	850	1800	16.9	57,600	4170	.74	.90	1.00	16.0	54,600	4480	.75	.93	1.00	15.1	51,400	4780	.78	.96	1.00	14.1	48,100	5060	.80	.99	1.00
67°F (19.4°C)	660	1400	17.0	57,900	4170	.53	.66	.80	16.1	54,800	4490	.54	.68	.82	15.2	51,700	4800	.55	.70	.84	14.2	48,600	5080	.56	.72	.87
	755	1600	17.5	59,600	4220	.55	.69	.84	16.5	56,400	4550	.56	.70	.86	15.6	53,300	4860	.57	.73	.89	14.6	49,900	5150	.58	.75	.92
	850	1800	17.9	61,000	4260	.56	.71	.88	16.9	57,800	4590	.57	.73	.90	15.9	54,400	4910	.59	.76	.93	14.9	51,000	5200	.60	.78	.97
71°F (21.7°C)	660	1400	17.8	60,900	4260	.40	.53	.66	16.9	57,700	4590	.40	.54	.68	16.0	54,700	4910	.40	.55	.69	15.1	51,400	5220	.41	.56	.71
	755	1600	18.4	62,800	4300	.40	.55	.69	17.5	59,600	4640	.41	.56	.70	16.5	56,200	4980	.41	.57	.72	15.5	52,800	5290	.42	.58	.74
	850	1800	18.8	64,200	4340	.41	.56	.72	17.8	60,900	4690	.41	.57	.73	16.9	57,500	5030	.42	.59	.75	15.8	53,900	5350	.42	.60	.77

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

TXV RATINGS

NOTE — For Temperatures and Capacities not shown in tables, see bulletin — Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HS23-511-513 WITH CB19-51 OR CBH19-51 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	660	1400	15.2	51,900	4050	.73	.86	.98	14.4	49,200	4340	.75	.89	1.00	13.7	46,600	4610	.76	.91	1.00	12.8	43,700	4850	.78	.94	1.00
	800	1700	15.9	54,400	4120	.77	.92	1.00	15.1	51,600	4420	.79	.94	1.00	14.3	48,700	4700	.81	.97	1.00	13.4	45,700	4960	.84	.99	1.00
	945	2000	16.5	56,300	4180	.81	.96	1.00	15.6	53,400	4490	.83	.98	1.00	14.8	50,500	4780	.86	1.00	1.00	14.0	47,700	5050	.89	1.00	1.00
67°F (19.4°C)	660	1400	16.1	55,100	4140	.58	.71	.83	15.3	52,300	4450	.59	.72	.85	14.4	49,300	4730	.60	.74	.88	13.6	46,300	4990	.61	.76	.90
	800	1700	16.8	57,400	4210	.60	.75	.88	15.9	54,400	4520	.61	.76	.91	15.0	51,300	4810	.63	.79	.93	14.1	48,000	5080	.64	.81	.96
	945	2000	17.4	59,300	4260	.63	.79	.93	16.4	56,000	4580	.64	.81	.96	15.4	52,600	4870	.66	.83	.98	14.4	49,300	5140	.67	.86	1.00
71°F (21.7°C)	660	1400	17.1	58,200	4230	.44	.56	.68	16.2	55,300	4550	.44	.57	.69	15.3	52,200	4850	.44	.58	.71	14.4	49,000	5130	.44	.59	.73
	800	1700	17.8	60,600	4290	.44	.59	.72	16.9	57,500	4620	.45	.60	.74	15.9	54,200	4940	.45	.61	.76	14.9	50,900	5220	.46	.63	.79
	945	2000	18.3	62,400	4340	.45	.61	.76	17.3	59,100	4680	.46	.63	.78	16.4	55,800	5000	.47	.64	.81	15.3	52,200	5290	.47	.66	.84

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

HS23-511-513 WITH CB19-65 OR CBH19-65 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	660	1400	16.2	55,200	4140	.71	.84	.96	15.3	52,300	4450	.73	.86	.98	14.4	49,200	4730	.74	.89	1.00	13.5	46,200	4990	.76	.91	1.00
	800	1700	16.9	57,700	4210	.75	.89	1.00	16.0	54,700	4530	.77	.92	1.00	15.1	51,500	4820	.79	.94	1.00	14.1	48,200	5090	.81	.97	1.00
	945	2000	17.5	59,700	4260	.79	.94	1.00	16.5	56,200	4580	.81	.97	1.00	15.6	53,200	4890	.83	.99	1.00	14.7	50,100	5180	.86	1.00	1.00
67°F (19.4°C)	660	1400	17.1	58,300	4230	.57	.69	.80	16.2	55,400	4550	.58	.70	.82	15.3	52,200	4850	.59	.72	.85	14.4	49,000	5130	.60	.74	.88
	800	1700	17.9	61,100	4300	.59	.73	.86	17.0	57,900	4630	.60	.74	.88	16.0	54,500	4940	.61	.76	.91	15.0	51,100	5230	.62	.79	.94
	945	2000	18.5	63,200	4350	.61	.76	.91	17.5	59,700	4690	.62	.78	.94	16.4	56,100	5010	.64	.80	.97	15.4	52,500	5300	.65	.84	.99
71°F (21.7°C)	660	1400	18.0	61,400	4310	.44	.55	.66	17.1	58,300	4650	.44	.56	.67	16.1	55,000	4970	.44	.57	.69	15.1	51,700	5270	.44	.58	.71
	800	1700	18.8	64,000	4380	.44	.58	.70	17.8	60,800	4730	.45	.59	.72	16.9	57,500	5060	.45	.60	.74	15.7	53,700	5370	.46	.61	.76
	945	2000	19.4	66,300	4430	.45	.60	.74	18.4	62,800	4790	.46	.61	.76	17.3	59,100	5130	.46	.62	.78	16.2	55,200	5440	.47	.64	.81

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

HS23-651-653 WITH CH24-51 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	565	1200	16.4	56,100	4680	.62	.75	.86	15.9	54,100	5020	.63	.76	.87	15.3	52,200	5340	.64	.77	.89	14.7	50,200	5640	.65	.78	.90
	685	1450	17.4	59,500	4790	.65	.78	.91	16.9	57,500	5130	.66	.79	.93	16.2	55,300	5460	.67	.80	.95	15.6	53,200	5780	.69	.82	.97
	800	1700	18.2	62,200	4870	.69	.81	.97	17.6	59,900	5220	.70	.82	.99	16.9	57,700	5560	.71	.83	1.00	16.2	55,200	5880	.72	.85	1.00
67°F (19.4°C)	565	1200	17.2	58,800	4770	.49	.63	.73	16.7	57,000	5110	.49	.63	.74	16.1	54,900	5450	.50	.64	.75	15.5	52,900	5770	.51	.65	.76
	685	1450	18.3	62,400	4880	.51	.65	.77	17.7	60,300	5230	.51	.66	.78	17.1	58,400	5570	.52	.66	.80	16.4	55,800	5910	.53	.67	.81
	800	1700	19.1	65,200	4970	.53	.67	.81	18.5	63,100	5330	.53	.67	.83	17.8	60,600	5680	.54	.69	.84	17.1	58,300	6020	.55	.70	.86
71°F (21.7°C)	565	1200	18.1	61,600	4850	.37	.51	.61	17.4	59,400	5200	.37	.52	.62	16.9	57,500	5550	.37	.52	.63	16.2	55,400	5880	.37	.52	.64
	685	1450	19.1	65,300	4970	.37	.52	.64	18.5	63,200	5330	.38	.53	.65	17.8	60,900	5690	.38	.53	.66	17.2	58,700	6030	.38	.54	.67
	800	1700	20.0	68,100	5060	.38	.54	.67	19.3	65,900	5420	.38	.54	.68	18.6	63,600	5790	.39	.55	.69	17.9	61,100	6150	.39	.56	.70

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

HS23-651-653 WITH C24-51FC/B24 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	800	1700	17.3	59,100	4900	.67	.80	.92	16.7	57,100	5240	.68	.82	.94	16.0	54,700	5590	.69	.83	.96	15.4	52,500	5910	.70	.85	.98
	895	1900	17.8	60,700	4950	.69	.82	.96	17.2	58,600	5300	.70	.84	.98	16.5	56,300	5650	.71	.85	1.00	15.8	54,000	5980	.72	.87	1.00
	990	2100	18.2	62,100	5000	.71	.85	1.00	17.6	60,000	5360	.72	.86	1.00	16.9	57,600	5710	.73	.88	1.00	16.1	55,100	6040	.75	.90	1.00
67°F (19.4°C)	800	1700	18.1	61,900	4990	.52	.67	.79	17.5	59,700	5350	.53	.67	.80	16.9	57,700	5710	.53	.68	.81	16.2	55,200	6050	.54	.69	.83
	895	1900	18.7	63,700	5050	.54	.68	.81	18.0	61,400	5420	.54	.69	.83	17.3	59,200	5780	.55	.70	.84	16.6	56,800	6120	.56	.71	.86
	990	2100	19.1	65,200	5110	.55	.69	.84	18.5	63,100	5470	.56	.70	.86	17.8	60,600	5840	.56	.72	.87	17.0	58,000	6160	.57	.73	.89
71°F (21.7°C)	800	1700	19.0	64,800	5080	.39	.54	.66	18.3	62,500	5460	.39	.54	.67	17.6	60,200	5820	.39	.55	.67	16.9	57,800	6170	.40	.56	.68
	895	1900	19.5	66,600	5150	.39	.55	.68	18.8	64,300	5520	.40	.55	.69	18.1	61,900	5870	.40	.56	.70	17.2	58,600	6050	.40	.57	.71
	990	2100	20.0	68,200	5200	.40	.55	.70	19.3	65,700	5540	.40	.56	.71	18.3	62,500	5750	.41	.57	.72	17.3	58,900	5950	.41	.58	.74

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

TXV RATINGS

NOTE — For Temperatures and Capacities not shown in tables, see bulletin — Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HS23-651-653 WITH C23-51/65(FC) OR C24-65FC/B24 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	800	1700	17.6	59,900	4930	.67	.81	.93	16.9	57,600	5280	.68	.82	.94	16.2	55,400	5620	.69	.84	.96	15.6	53,100	5950	.70	.86	.98
	945	2000	18.3	62,400	5010	.70	.84	.98	17.6	59,900	5370	.71	.86	1.00	16.9	57,600	5720	.73	.88	1.00	16.1	55,100	6050	.74	.90	1.00
	1085	2300	18.8	64,200	5080	.74	.88	1.00	18.1	61,900	5440	.75	.90	1.00	17.4	59,300	5790	.76	.92	1.00	16.6	56,700	6130	.78	.94	1.00
67°F (19.4°C)	800	1700	18.4	62,700	5030	.53	.67	.79	17.7	60,500	5390	.53	.68	.80	17.1	58,200	5750	.54	.69	.81	16.4	55,900	6090	.55	.70	.83
	945	2000	19.2	65,500	5110	.55	.69	.83	18.5	63,200	5480	.55	.70	.84	17.8	60,700	5850	.56	.71	.86	17.0	58,000	6140	.57	.73	.88
	1085	2300	19.8	67,500	5190	.57	.71	.87	19.0	65,000	5560	.57	.73	.89	18.1	61,900	5810	.58	.74	.91	17.1	58,400	6010	.60	.76	.94
71°F (21.7°C)	800	1700	19.2	65,600	5120	.39	.54	.66	18.6	63,400	5490	.40	.54	.67	17.9	61,000	5860	.40	.55	.68	17.0	58,100	6110	.40	.56	.69
	945	2000	20.0	68,400	5210	.40	.55	.69	19.2	65,500	5510	.41	.56	.70	18.3	62,300	5730	.41	.57	.72	17.2	58,700	5930	.41	.58	.73
	1085	2300	20.3	69,400	5110	.41	.57	.73	19.3	66,000	5340	.42	.58	.74	18.5	63,000	5590	.42	.59	.76	17.4	59,300	5810	.42	.61	.78

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

HS23-651-653 WITH CH24-65 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	615	1300	17.0	57,900	4800	.64	.77	.88	16.4	55,800	5140	.65	.78	.90	15.7	53,700	5480	.66	.79	.91	15.1	51,600	5790	.67	.81	.93
	730	1550	17.8	60,900	4910	.67	.80	.94	17.3	59,000	5250	.68	.81	.95	16.6	56,700	5590	.69	.83	.97	15.9	54,300	5920	.70	.85	.99
	850	1800	18.6	63,400	4990	.70	.83	.99	17.9	61,200	5340	.71	.85	1.00	17.3	58,900	5690	.73	.86	1.00	16.5	56,400	6020	.74	.88	1.00
67°F (19.4°C)	615	1300	17.8	60,600	4900	.50	.64	.75	17.2	58,700	5240	.51	.65	.76	16.6	56,500	5590	.51	.65	.77	15.9	54,200	5920	.52	.66	.79
	730	1550	18.8	64,100	5000	.52	.66	.79	18.1	61,700	5360	.53	.67	.81	17.4	59,400	5720	.53	.68	.82	16.7	57,100	6060	.54	.69	.84
	850	1800	19.5	66,500	5090	.54	.69	.83	18.8	64,200	5460	.55	.70	.85	18.2	62,000	5820	.55	.71	.86	17.4	59,400	6170	.56	.72	.88
71°F (21.7°C)	615	1300	18.6	63,400	4980	.38	.52	.63	18.0	61,300	5340	.38	.52	.64	17.3	59,200	5700	.38	.53	.65	16.6	56,600	6050	.38	.53	.66
	730	1550	19.6	67,000	5090	.38	.54	.66	19.0	64,700	5460	.39	.54	.67	18.2	62,200	5830	.39	.55	.68	17.6	59,900	6170	.39	.55	.69
	850	1800	20.4	69,600	5180	.39	.55	.69	19.7	67,300	5560	.39	.55	.70	18.7	63,900	5790	.40	.56	.71	17.7	60,500	5990	.40	.58	.73

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

HS23-651-653 WITH CR18-65 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	800	1700	17.9	61,000	4880	.72	.84	.95	17.1	58,400	5230	.73	.86	.97	16.4	55,900	5570	.74	.88	.98	15.6	53,100	5900	.75	.90	1.00
	945	2000	18.5	63,200	4950	.74	.88	.99	17.8	60,600	5300	.76	.90	1.00	17.0	57,900	5660	.77	.92	1.00	16.1	55,100	6000	.79	.94	1.00
	1085	2300	19.1	65,100	5010	.77	.92	1.00	18.3	62,400	5370	.79	.94	1.00	17.5	59,700	5730	.80	.95	1.00	16.6	56,600	6070	.82	.97	1.00
67°F (19.4°C)	800	1700	18.9	64,600	4990	.57	.69	.81	18.2	62,000	5350	.58	.70	.82	17.3	59,200	5710	.58	.71	.84	16.5	56,400	6060	.59	.73	.86
	945	2000	19.6	66,900	5070	.59	.72	.85	18.8	64,200	5430	.60	.73	.87	18.0	61,300	5800	.60	.75	.89	17.1	58,300	6150	.61	.76	.90
	1085	2300	20.1	68,700	5120	.61	.75	.89	19.3	65,900	5490	.61	.76	.90	18.4	62,800	5860	.62	.78	.92	17.5	59,700	6230	.64	.80	.94
71°F (21.7°C)	800	1700	19.9	68,000	5100	.44	.55	.66	19.2	65,400	5480	.44	.56	.68	18.3	62,600	5850	.44	.57	.69	17.5	59,600	6220	.45	.58	.70
	945	2000	20.6	70,400	5180	.44	.57	.70	19.8	67,600	5560	.45	.58	.71	19.0	64,700	5940	.45	.59	.72	18.0	61,600	6320	.45	.60	.74
	1085	2300	21.2	72,300	5240	.45	.59	.72	20.3	69,400	5620	.45	.60	.74	19.4	66,300	6010	.46	.61	.75	18.5	63,200	6390	.46	.62	.77

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

HS23-651-653 WITH C22-46(FC)/B24 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	800	1700	17.8	60,800	4950	.68	.81	.93	17.1	58,400	5300	.69	.83	.95	16.4	56,100	5640	.70	.84	.97	15.8	53,900	5970	.71	.86	.99
	920	1950	18.4	62,800	5020	.70	.84	.98	17.7	60,500	5370	.71	.86	1.00	17.0	58,100	5730	.73	.88	1.00	16.3	55,700	6060	.74	.90	1.00
	1040	2200	18.9	64,500	5070	.73	.87	1.00	18.2	62,200	5440	.74	.89	1.00	17.5	59,600	5790	.76	.91	1.00	16.7	56,900	6130	.77	.93	1.00
67°F (19.4°C)	800	1700	18.6	63,600	5050	.53	.67	.80	18.0	61,500	5410	.54	.68	.81	17.3	59,000	5770	.54	.69	.82	16.6	56,700	6110	.55	.70	.84
	920	1950	19.3	66,000	5120	.55	.69	.83	18.6	63,600	5490	.55	.70	.84	17.9	61,200	5860	.56	.71	.86	17.0	58,100	6130	.57	.73	.88
	1040	2200	19.8	67,700	5180	.56	.71	.87	19.2	65,500	5560	.57	.72	.88	18.2	62,100	5810	.58	.74	.90	17.2	58,700	6020	.59	.76	.93
71°F (21.7°C)	800	1700	19.5	66,500	5130	.40	.54	.67	18.8	64,200	5510	.40	.55	.67	18.1	61,700	5880	.40	.55	.68	17.2	58,600	6080	.40	.56	.70
	920	1950	20.2	68,800	5220	.40	.55	.69	19.4	66,200	5510	.41	.56	.70	18.4	62,700	5720	.41	.57	.72	17.4	59,300	5930	.41	.58	.73
	1040	2200	20.4	69,700	5120	.41	.57	.72	19.5	66,400	5350	.41	.58	.74	18.5	63,000	5590	.42	.59	.75	17.5	59,700	5820	.42	.60	.77

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

TXV RATINGS

NOTE — For Temperatures and Capacities not shown in tables, see bulletin — Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HS23-651-653 WITH C22-51(FC)/B24 OR CR22-51/B24 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	800	1700	17.9	61,100	4960	.68	.82	.94	17.3	58,900	5310	.69	.83	.96	16.5	56,400	5660	.70	.85	.98	15.9	54,100	5990	.71	.87	1.00
	895	1900	18.4	62,900	5020	.70	.84	.98	17.8	60,700	5370	.71	.86	1.00	17.0	58,100	5730	.72	.88	1.00	16.3	55,700	6060	.74	.90	1.00
	990	2100	18.9	64,400	5070	.72	.87	1.00	18.2	62,000	5430	.74	.88	1.00	17.4	59,400	5790	.75	.90	1.00	16.7	56,900	6120	.76	.93	1.00
67°F (19.4°C)	800	1700	18.8	64,100	5060	.53	.67	.80	18.1	61,900	5430	.54	.68	.81	17.4	59,500	5790	.55	.69	.83	16.7	57,000	6130	.55	.71	.84
	895	1900	19.4	66,100	5120	.55	.69	.83	18.7	63,700	5490	.55	.70	.84	17.9	61,200	5860	.56	.71	.86	17.0	58,100	6120	.57	.73	.88
	990	2100	19.8	67,500	5180	.56	.71	.86	19.1	65,300	5550	.57	.72	.87	18.2	62,100	5820	.58	.74	.89	17.2	58,700	6030	.59	.75	.92
71°F (21.7°C)	800	1700	19.6	66,900	5150	.40	.54	.67	19.0	64,700	5530	.40	.55	.68	18.1	61,800	5850	.40	.56	.69	17.2	58,800	6050	.41	.57	.70
	895	1900	20.2	68,900	5220	.40	.55	.69	19.3	65,900	5500	.40	.56	.70	18.3	62,600	5710	.41	.57	.72	17.3	59,200	5920	.41	.58	.73
	990	2100	20.4	69,600	5130	.41	.57	.71	19.4	66,300	5370	.41	.58	.73	18.5	63,000	5600	.42	.59	.74	17.5	59,600	5830	.42	.60	.76

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

HS23-651-653 WITH CH22-51 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	615	1300	16.8	57,400	4800	.64	.77	.88	16.2	55,400	5140	.65	.78	.90	15.6	53,300	5480	.66	.79	.91	15.0	51,300	5790	.67	.81	.93
	755	1600	17.9	61,200	4920	.67	.81	.94	17.3	59,200	5270	.68	.82	.96	16.6	56,800	5610	.70	.84	.98	15.9	54,400	5940	.71	.85	1.00
	895	1900	18.7	63,900	5010	.71	.84	1.00	18.1	61,700	5370	.72	.86	1.00	17.3	59,200	5720	.74	.88	1.00	16.6	56,700	6060	.75	.90	1.00
67°F (19.4°C)	615	1300	17.7	60,400	4890	.50	.64	.75	17.1	58,200	5240	.51	.65	.76	16.5	56,200	5590	.51	.65	.77	15.8	54,000	5920	.52	.66	.79
	755	1600	18.8	64,100	5020	.53	.67	.80	18.2	62,000	5380	.53	.68	.81	17.5	59,600	5740	.54	.69	.82	16.8	57,300	6080	.54	.70	.84
	895	1900	19.7	67,200	5110	.55	.69	.84	19.0	64,800	5490	.55	.70	.86	18.3	62,300	5850	.56	.72	.88	17.5	59,600	6140	.57	.73	.90
71°F (21.7°C)	615	1300	18.4	62,800	4980	.38	.52	.63	17.9	61,000	5340	.38	.52	.64	17.2	58,600	5700	.38	.53	.65	16.6	56,600	6040	.38	.53	.65
	755	1600	19.6	66,900	5110	.39	.54	.66	18.9	64,600	5480	.39	.54	.67	18.3	62,500	5850	.39	.55	.68	17.5	59,600	6130	.39	.56	.70
	895	1900	20.5	70,100	5210	.39	.55	.70	19.7	67,100	5510	.40	.56	.71	18.7	63,800	5730	.40	.57	.73	17.6	60,200	5930	.41	.58	.75

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

♔HS23-651-653 WITH CVP10-65/EC10Q5 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	710	1500	18.0	61,300	4890	.70	.82	.94	17.2	58,700	5230	.71	.84	.95	16.4	56,000	5580	.72	.86	.97	15.6	53,300	5910	.74	.88	.99
	885	1875	18.9	64,500	4990	.74	.88	.99	18.1	61,800	5350	.76	.90	1.00	17.3	58,900	5700	.77	.92	1.00	16.4	55,900	6050	.79	.94	1.00
	1060	2250	19.6	66,900	5070	.78	.93	1.00	18.8	64,100	5430	.80	.95	1.00	18.0	61,300	5790	.81	.97	1.00	17.0	58,100	6150	.84	.99	1.00
67°F (19.4°C)	710	1500	19.1	65,100	5010	.56	.68	.79	18.3	62,500	5370	.57	.69	.80	17.5	59,700	5730	.57	.70	.82	16.6	56,800	6080	.58	.71	.84
	885	1875	20.0	68,300	5110	.58	.72	.85	19.2	65,500	5480	.59	.73	.86	18.3	62,500	5850	.60	.74	.88	17.4	59,400	6210	.61	.76	.90
	1060	2250	20.7	70,700	5190	.61	.76	.90	19.8	67,700	5560	.62	.77	.92	18.9	64,600	5930	.63	.79	.94	17.9	61,200	6300	.64	.81	.96
71°F (21.7°C)	710	1500	20.2	68,800	5130	.43	.54	.65	19.4	66,100	5500	.43	.55	.66	18.6	63,300	5880	.43	.56	.67	17.7	60,300	6250	.44	.56	.68
	885	1875	21.2	72,200	5230	.44	.57	.69	20.3	69,300	5620	.44	.58	.70	19.4	66,300	6000	.44	.59	.72	18.5	63,000	6390	.45	.60	.74
	1060	2250	21.8	74,500	5310	.45	.60	.73	21.0	71,500	5700	.45	.60	.75	20.0	68,300	6090	.46	.62	.77	19.0	64,900	6480	.46	.63	.79

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

HS23-651-653 WITH CB19-51 OR CBH19-51 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																					
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	710	1500	17.9	61,200	4890	.71	.83	.94	17.2	58,700	5230	.72	.84	.96	16.4	56,000	5580	.73	.86	.98	15.6	53,200	5910	.75	.88	.99
	825	1750	18.6	63,500	4960	.74	.87	.98	17.8	60,700	5310	.75	.89	.99	17.0	58,100	5670	.76	.90	1.00	16.2	55,300	6010	.78	.92	1.00
	945	2000	19.1	65,300	5020	.76	.91	1.00	18.4	62,700	5380	.78	.92	1.00	17.5	59,800	5740	.79	.94	1.00	16.7	57,000	6090	.81	.96	1.00
67°F (19.4°C)	710	1500	19.0	64,700	5000	.56	.68	.80	18.2	62,200	5360	.57	.69	.81	17.4	59,500	5720	.58	.70	.83	16.6	56,600	6070	.59	.72	.85
	825	1750	19.7	67,100	5070	.58	.71	.84	18.8	64,300	5440	.59	.72	.85	18.0	61,500	5810	.60	.74	.87	17.1	58,500	6170	.61	.75	.89
	945	2000	20.2	68,800	5130	.60	.74	.87	19.4	66,100	5500	.61	.75	.89	18.5	63,100	5870	.61	.77	.91	17.6	60,000	6240	.63	.79	.93
71°F (21.7°C)	710	1500	20.0	68,200	5110	.43	.55	.66	19.2	65,500	5480	.43	.55	.67	18.4	62,700	5860	.44	.56	.68	17.5	59,800	6230	.44	.57	.69
	825	1750	20.7	70,700	5180	.44	.56	.69	19.9	67,800	5570	.44	.57	.70	19.0	64,900	5950	.44	.58	.71	18.1	61,800	6330	.44	.59	.73
	945	2000	21.2	72,500	5240	.44	.58	.71	20.4	69,600	5630	.45	.59	.73	19.5	66,600	6020	.45	.60	.74	18.6	63,400	6400	.45	.61	.76

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

NOTE — For Temperatures and Capacities not shown in tables, see bulletin — Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

HS23-651-653 WITH C22-65(FC)/B24 OR CR22-65/B24 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	800	1700	18.7	63,900	5050	.68	.81	.93	18.0	61,400	5420	.69	.83	.95	17.3	59,200	5770	.70	.84	.97	16.6	56,600	6100	.71	.86	.99
	945	2000	19.5	66,400	5140	.71	.85	.99	18.8	64,000	5500	.72	.87	1.00	18.0	61,300	5860	.73	.89	1.00	17.1	58,200	6130	.75	.91	1.00
	1085	2300	20.0	68,300	5200	.74	.89	1.00	19.3	65,800	5560	.75	.91	1.00	18.2	62,100	5800	.77	.94	1.00	17.2	58,700	6010	.79	.97	1.00
67°F (19.4°C)	800	1700	19.8	67,600	5180	.53	.67	.79	19.1	65,200	5550	.54	.68	.80	18.2	62,000	5820	.55	.69	.82	17.3	58,900	6030	.55	.71	.84
	945	2000	20.5	69,800	5160	.55	.70	.84	19.5	66,500	5410	.56	.71	.85	18.4	62,700	5650	.57	.73	.88	17.4	59,500	5890	.58	.75	.90
	1085	2300	20.5	70,100	5000	.58	.73	.89	19.6	66,900	5280	.59	.75	.91	18.6	63,500	5540	.60	.77	.93	17.6	59,900	5790	.61	.79	.96
71°F (21.7°C)	800	1700	20.5	69,900	5080	.40	.54	.67	19.5	66,700	5330	.40	.55	.68	18.5	63,200	5570	.41	.56	.69	17.6	60,000	5810	.41	.57	.70
	945	2000	20.7	70,600	4880	.41	.56	.70	19.6	66,900	5150	.41	.57	.72	18.7	63,800	5420	.42	.58	.73	17.7	60,300	5680	.42	.59	.75
	1085	2300	20.7	70,800	4750	.42	.59	.74	19.8	67,500	5040	.42	.60	.76	19.0	64,700	5340	.43	.61	.77	17.8	60,900	5590	.43	.62	.80

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

HS23-651-653 WITH CH22-65 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	615	1300	17.4	59,300	4880	.64	.77	.88	16.8	57,300	5220	.64	.78	.89	16.1	55,100	5560	.65	.79	.91	15.5	52,800	5880	.66	.80	.92
	755	1600	18.5	63,100	4990	.67	.80	.94	17.8	60,900	5350	.68	.82	.95	17.1	58,200	5700	.69	.83	.98	16.4	56,100	6030	.71	.85	.99
	895	1900	19.3	65,800	5080	.71	.84	1.00	18.6	63,300	5440	.72	.86	1.00	17.8	60,800	5800	.73	.88	1.00	17.0	58,100	6150	.75	.90	1.00
67°F (19.4°C)	615	1300	18.5	63,000	4990	.50	.64	.74	17.8	60,700	5350	.51	.64	.75	17.1	58,400	5710	.51	.65	.77	16.5	56,300	6050	.52	.66	.78
	755	1600	19.6	66,800	5110	.52	.66	.79	18.9	64,500	5480	.53	.67	.80	18.2	62,100	5850	.53	.68	.82	17.3	59,200	6140	.54	.69	.84
	895	1900	20.4	69,600	5200	.54	.69	.84	19.7	67,100	5540	.55	.70	.85	18.7	63,700	5770	.56	.71	.88	17.6	59,900	5970	.57	.73	.90
71°F (21.7°C)	615	1300	19.5	66,400	5110	.37	.52	.62	18.8	64,300	5480	.38	.52	.63	18.2	62,000	5850	.38	.52	.64	17.3	59,200	6130	.38	.53	.65
	755	1600	20.7	70,500	5230	.38	.53	.66	19.7	67,100	5470	.39	.54	.67	18.7	63,800	5690	.39	.55	.68	17.6	60,200	5900	.39	.56	.70
	895	1900	20.9	71,200	5020	.39	.55	.70	19.8	67,700	5270	.40	.56	.71	18.9	64,600	5530	.40	.57	.73	17.9	61,200	5760	.41	.58	.75

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

HS23-651-653 WITH CB19-65 OR CBH19-65 EVAPORATOR UNIT

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb		
	L/s	cfm	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C	kW	Btuh		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17.2°C)	710	1500	19.0	64,900	5000	.69	.81	.92	18.3	62,300	5360	.70	.82	.94	17.4	59,400	5720	.71	.84	.96	16.6	56,600	6080	.73	.86	.98
	885	1875	20.1	68,600	5110	.73	.86	.98	19.2	65,600	5490	.74	.88	1.00	18.3	62,600	5850	.76	.90	1.00	17.5	59,600	6220	.77	.92	1.00
	1060	2250	20.8	71,000	5200	.77	.92	1.00	19.9	67,900	5570	.78	.94	1.00	19.0	65,000	5950	.80	.96	1.00	18.1	61,800	6320	.82	.98	1.00
67°F (19.4°C)	710	1500	20.1	68,500	5120	.56	.67	.78	19.3	65,800	5490	.56	.68	.79	18.4	62,900	5870	.57	.69	.80	17.6	60,000	6240	.58	.70	.82
	885	1875	21.2	72,200	5230	.58	.70	.83	20.3	69,200	5620	.59	.72	.85	19.4	66,200	6000	.59	.73	.87	18.4	62,900	6390	.60	.75	.89
	1060	2250	22.0	75,000	5310	.60	.74	.88	21.1	71,900	5710	.61	.76	.90	20.1	68,600	6100	.62	.77	.92	19.1	65,200	6480	.63	.79	.95
71°F (21.7°C)	710	1500	21.1	72,000	5220	.43	.54	.64	20.3	69,200	5610	.43	.54	.65	19.4	66,300	6000	.43	.55	.66	18.5	63,200	6390	.44	.56	.67
	885	1875	22.2	75,700	5340	.44	.56	.68	21.3	72,600	5740	.44	.57	.69	20.4	69,500	6140	.44	.58	.70	19.4	66,200	6540	.45	.59	.72
	1060	2250	22.9	78,300	5420	.45	.59	.72	22.0	75,200	5830	.45	.59	.73	21.1	72,000	6240	.46	.60	.75	20.1	68,500	6640	.46	.61	.77

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