



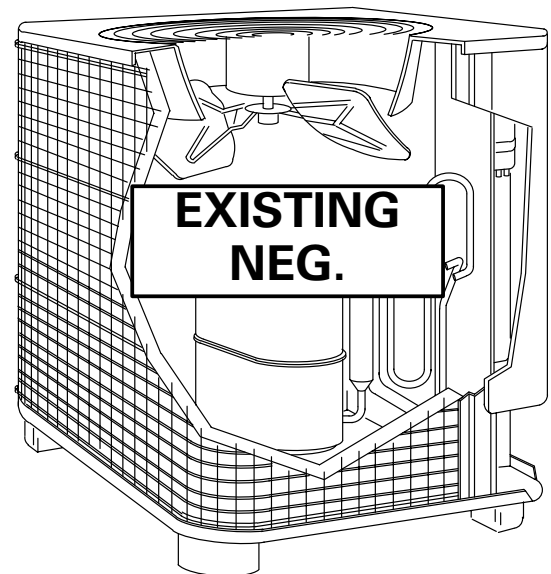
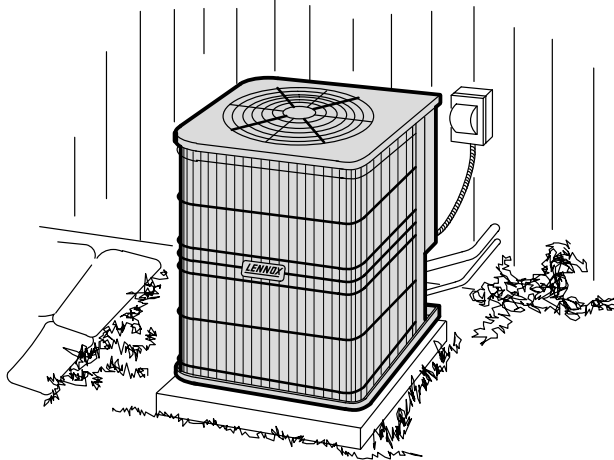
HS23 SERIES CONDENSING UNITS EXPANSION VALVE AIR CONDITIONING SYSTEM 3.3 to 16.2 kW (11 200 to 55 300 Btuh) Cooling Capacity

HS23

Bulletin #490060

October 1994

Supersedes July 1994

Typical Application

Application — HS23 series condensing units feature high efficiency with minimum operating sound levels. 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 section Coils — Blower Coil Units. 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.

Completely Tested — Condensing units have been tested in the Lennox Research Laboratory Environmental Test Rooms which meet American Society of Heating, Refrigeration and Air-Conditioning Engineers (ASHRAE) Standard 37 requirements. The rating test conditions are those included in Air-Conditioning and Refrigeration Institute (ARI) Standard 210/240-89 while operating at rated voltages and air volumes. In addition, units have been sound rated in the Lennox reverberant sound test room in accordance with test conditions for Air-Conditioning and Refrigeration Institute (ARI) Standard 270-84. Condensing units and components within are bonded for grounding to meet safety standards for servicing required by Underwriter's Laboratories (U.L.) and the International Electrotechnical Commission (IEC).

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.

NOTE — Due to Lennox' ongoing commitment to quality, Specifications, Ratings and Dimensions subject to change without notice.

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 polyvinyl chloride (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. HS23-513-653 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 HS23-410-513-653 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 polyvinyl chloride (PVC) coated steel wire fan guard is furnished as standard.

FEATURES

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

Timed-Off Control — 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.

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

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

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.

OPTIONAL ACCESSORIES (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. HS23-513 and -653 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 HS23-653 models must be furnished by the installer.

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

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

SPECIFICATIONS

Model Number			HS23-141	HS23-211	HS23-261	HS23-311	HS23-411 HS23-413	HS23-513	HS23-653
Condenser Coil	Net face area — m ² (ft. ²)	Outer coil	1.17 (12.6)	1.17 (12.6)	1.17 (12.6)	1.37 (14.7)	1.37 (14.7)	1.86 (20.0)	1.86 (20.0)
		Inner coil	----	----	----	----	----	----	1.43 (15.4)
	Tube outside diameter — mm (in.)		9.5 (3/8)	9.5 (3/8)	9.5 (3/8)	9.5 (3/8)	9.5 (3/8)	9.5 (3/8)	9.5 (3/8)
	Number of rows		1	1	1	1	1	1	1.77
	Fins per m (inch)		787 (20)	787 (20)	787 (20)	787 (20)	787 (20)	787 (20)	787 (20)
Condenser Fan	Diameter — mm (in.)		508 (20)	508 (20)	508 (20)	508 (20)	508 (20)	610 (24)	610 (24)
	Number of blades		3	3	3	3	3	4	4
	Motor output — W (hp)		75 (1/10)	75 (1/10)	75 (1/10)	75 (1/10)	124 (1/6)	187 (1/4)	187 (1/4)
	Air volume — L/s (cfm)		980 (2080)	980 (2080)	980 (2080)	1060 (2250)	1060 (2250)	1530 (3250)	1570 (3330)
	Rev/Min		700	700	700	700	700	700	700
	Motor input — W		165	165	165	170	170	280	295
†Refrigerant charge furnished — kg (oz.) HCFC-22			1.9 (68)	2.2 (76)	2.4 (85)	2.5 (89)	2.6 (92)	4.0 (141)	5.0 (178)
Liquid line connection — outside diameter — mm (in.) sweat			*9.5 (3/8)	**9.5 (3/8)	**9.5 (3/8)	9.5 (3/8)	9.5 (3/8)	9.5 (3/8)	9.5 (3/8)
Suction line connection — outside diameter — mm (in.) sweat			12.7 (1/2)	15.8 (5/8)	15.8 (5/8)	19 (3/4)	19 (3/4)	22.2 (7/8)	28.5 (1-1/8)
Shipping weight — kg (lbs.) 1 package			55 (121)	69 (153)	70 (154)	76 (168)	83 (182)	108 (238)	123 (271)

†Refrigerant charge sufficient for 6.1 m (20 feet) of connecting refrigerant lines.

*Furnished with 9.5 mm X 6.4 mm (3/8 inch x 1/4 inch) reducer adaptor for refrigerant line connections.

**Furnished with 9.5 mm x 8 mm (3/8 inch x 5/16 inch) reducer adaptor for refrigerant line connections.

RATINGS

Condensing Unit Model Number (*Sound Rating Number-bels)	●Cooling Ratings					Evaporator Unit			***Expansion Valve Kit Required
	Total Cooling Capacity		Total Power Input kW	Coefficient of Performance (Output/Input)	Energy Efficiency Ratio (Btuh/Watt)	Up-Flow	Down Flow	Horizontal	
	kW	Btuh							
HS23-141 (7.4)	3.3	11 200	1310	2.5	8.5	----	----	CH23-21	LB-85663A (43J73)
	3.3	11 300	1220	2.7	9.3	----	----	**12HXO	LB-25778CH (66F08)
	3.5	12 000	1200	2.9	10.0	----	----	**15HXO	
	3.6	12 300	1260	2.9	9.8	C23-26(W)(FC)	----	----	LB-85663A (43J73)
	3.6	12 400	1300	2.8	9.5	----	CR18-21	----	★Factory Installed
	3.7	12 600	1260	2.9	10.0	C26-21(FC)	----	CH22-21	
	3.9	13 400	1290	3.0	10.4	C26-26(W)(FC)	----	----	
HS23-211 (7.6)	5.0	17 100	2020	2.5	8.5	----	----	CH23-21	LB-85663A (43J73)
	5.0	17 100	1750	2.9	9.8	----	----	**15HXO	LB-25778CG (57C98)
	5.2	17 700	1860	2.8	9.5	----	----	**18HXO	
	5.3	18 000	1620	3.3	11.1	----	----	CH23-31	LB-85663A (43J73)
	5.4	18 300	1960	2.7	9.3	----	CR18-21	----	★Factory Installed
	5.5	18 800	1930	2.9	9.7	C26-21(FC)	----	CH22-21	
	5.6	19 100	1950	2.9	9.8	C23-26(W)(FC)	----	----	
	5.7	19 300	1950	2.9	9.9	C23-31(W)(FC)	----	----	LB-85663A (43J73)
	5.8	19 700	2010	2.9	9.8	----	CR18-31	----	LB-25778CG (57C98)
	5.8	19 700	1990	2.9	9.9	**CB18-26	----	**CBS18-26	
	5.9	20 000	1970	3.0	10.2	C26-26(W)(FC)	----	----	
6.2	21 100	2000	3.1	10.6	C26-31(W)(FC)	----	CH22-31	★Factory Installed	
HS23-261 (7.6)	6.4	21 700	2350	2.7	9.2	C26-21(FC)	----	CH22-21	★Factory Installed
	6.6	22 600	2400	2.8	9.4	----	CR18-21	----	LB-85663B (43J74)
	6.7	22 800	2420	2.8	9.4	C26-26(W)(FC)	----	----	★Factory Installed
	6.8	23 300	2400	2.8	9.7	----	----	CH23-31	LB-85663B (43J74)
	6.9	23 400	2350	2.9	10.0	----	----	**24HXO	LB-25778CG (57C98)
	6.9	23 500	2420	2.8	9.7	C23-26(W)(FC)	----	----	LB-85663B (43J74)
	6.9	23 600	2410	2.9	9.8	C23-31(W)(FC)	----	----	
	7.1	24 100	2430	2.9	9.9	C23-41(W)(FC)	----	CH23-41	
	7.1	24 100	2460	2.9	9.8	----	CR18-31	----	★Factory Installed
	7.1	24 200	2450	2.9	9.9	C26-31(W)(FC)	----	CH22-31	
	7.2	24 500	2470	2.9	9.9	C26-41(FC)	----	CH22-41	
	7.2	24 600	2490	2.9	9.9	**CB18-26	----	**CBS18-26	LB-25778CG (57C98)
7.2	24 600	2460	2.9	10.0	----	CR18-41	----	LB-85663B (43J74)	

*Sound rating number rated at test conditions for Air-Conditioning and Refrigeration Institute (ARI) Standard 270.

●The rating test conditions are those included in Air-Conditioning and Refrigeration Institute (ARI) Standard 210/240-89 while operating at rated voltage and air volumes.
Cooling Ratings — 35°C (95°F) outdoor air temperature , 26.7°C (80°F) dry bulb and 19.4°C (67°F) wet bulb entering evaporator air with 6.0 m (20 feet) of connecting refrigerant lines.

★Furnished as standard with coil.

**Blower powered evaporator unit.

***Expansion valve kit is optional and must be ordered extra, unless shown as factory installed.

RATINGS

Condensing Unit Model Number (*Sound Rating Number-bels)	●Cooling Ratings					Evaporator Unit			***Expansion Valve Kit Required
	Total Cooling Capacity		Total Power Input kW	Coefficient of Performance (Output/Input)	Energy Efficiency Ratio (Btuh/Watt)	Up-Flow	Down Flow	Horizontal	
	kW	Btuh							
HS23-311 (7.6)	7.4	25 300	2680	2.8	9.4	----	----	**30HXO	LB-25778CE (83A67)
	7.6	26 000	2800	2.7	9.3	**CB18-26	----	**CBS18-26	
	7.6	26 000	2750	2.8	9.5	----	----	CH23-31	LB-85663C (43J75)
	7.8	26 500	2770	2.8	9.6	C23-31(W)(FC)	----	----	
	7.9	26 900	2790	2.8	9.6	C23-41(W)(FC)	----	CH23-41	
	8.1	27 500	2800	2.9	9.8	C23-46(FC)	----	----	
	8.0	27 500	2860	2.8	9.6	----	CR18-31	----	
	8.1	27 800	2840	2.9	9.8	C26-31(W)(FC)	----	CH22-31	★Factory Installed
	8.2	28 100	2840	2.9	9.9	C26-41(FC)	----	CH22-41	
	8.4	28 600	2910	2.9	9.8	----	CR18-41	----	LB-85663C (43J75)
8.5	28 900	2960	2.9	9.9	**CB18-41	----	**CBS18-41	LB-25778CE (83A67)	
HS23-411 HS23-413 (7.8)	10.1	34 300	3590	2.8	9.6	C23-41(W)(FC)	----	CH23-41	LB-85663C (43J75)
	10.3	35 200	3640	2.8	9.7	----	----	CH23-51	
	10.3	35 300	3620	2.9	9.8	C23-46(FC)	----	----	
	10.4	35 500	3670	2.8	9.7	----	----	**36HXO	LB-25778CF (83A68)
	10.4	35 500	3490	3.0	10.2	----	CR18-41	----	LB-85663C (43J75)
	10.4	35 600	3660	2.9	9.7	C23-51(FC)	----	----	
	10.6	36 200	3650	2.9	9.9	C26-41(FC)	----	CH22-41	★Factory Installed
	10.7	36 600	3580	3.0	10.2	----	CR18-51	----	LB-85663C (43J75)
	10.8	37 000	3760	2.9	9.8	**CB18-41	----	**CBS18-41	LB-25778CF (83A68)
	10.9	37 100	3710	2.9	10.0	C26-46(FC)	----	----	★Factory Installed
	10.9	37 200	3720	2.9	10.0	C26-65(FC)	----	----	
	11.0	37 700	3710	3.0	10.2	----	----	CH22-51	
	11.1	37 900	3740	3.0	10.1	C26-51(FC)	----	----	
11.2	38 100	3820	2.9	10.0	**CB18-51	----	**CBS18-51	LB-25778CF (83A68)	

*Sound rating number rated at test conditions for Air-Conditioning and Refrigeration Institute (ARI) Standard 270.

●The rating test conditions are those included in Air-Conditioning and Refrigeration Institute (ARI) Standard 210/240-89 while operating at rated voltage and air volumes.
Cooling Ratings – 35°C (95°F) outdoor air temperature, 26.7°C (80°F) dry bulb and 19.4°C (67°F) wet bulb entering evaporator air with 6.0 m (20 feet) of connecting refrigerant lines.

★Furnished as standard with coil.

**Blower powered evaporator unit.

***Expansion valve kit is optional and must be ordered extra, unless shown as factory installed.

RATINGS

Condensing Unit Model Number (*Sound Rating Number-bels)	●Cooling Ratings					Evaporator Unit			***Expansion Valve Kit Required
	Total Cooling Capacity		Total Power Input kW	Coefficient of Performance (Output/Input)	Energy Efficiency Ratio (Btuh/Watt)	Up-Flow	Down Flow	Horizontal	
	kW	Btuh							
HS23-513 (8.0)	12.0	41 100	4760	2.5	8.6	C23-46(FC)	----	----	LB-85663D (43J76)
	12.6	43 100	4900	2.6	8.8	----	----	CH23-51	
	12.9	44 000	4930	2.6	8.9	C23-51(FC)	----	----	
	13.1	44 700	4880	2.7	9.2	C23-51/65(FC)	----	----	
	13.2	44 900	4910	2.7	9.1	C26-46(FC)	----	----	★Factory Installed
	13.3	45 300	4910	2.7	9.2	----	----	CH22-51	
	13.4	45 600	4900	2.7	9.3	----	----	CH23-65	LB-85663D (43J76)
	13.4	45 600	4920	2.7	9.3	----	CR18-51	----	
	13.6	46 500	4810	2.8	9.7	----	CR18-65	----	LB-25778CC (38919)
	13.7	46 700	5100	2.7	9.2	**CB18-51	----	**CBS18-51	
	13.8	47 000	4990	2.8	9.4	C26-65(FC)EAP	----	CH22-65	★Factory Installed
	13.9	47 400	5220	2.7	9.1	**CB18-65	----	**CBS18-65	LB-25778CC (38919)
	14.0	47 600	5060	2.8	9.4	C26-51(FC)	----	----	★Factory Installed
	14.0	47 900	5100	2.8	9.4	C26-65(FC)	----	----	
HS23-653 (8.2)	14.7	50 100	5460	2.7	9.2	C23-51(FC)	----	----	LB-85663E (43J77)
	15.0	51 100	5530	2.7	9.2	C23-51/65(FC)	----	----	
	15.2	51 800	5560	2.7	9.3	----	----	CH22-51	★Factory Installed
	15.2	51 900	5370	2.8	9.7	----	CR18-51	----	LB-85663E (43J77)
	15.4	52 600	5580	2.8	9.4	----	----	CH23-65	
	15.9	54 200	5530	2.9	9.8	----	CR18-65	----	★Factory Installed
	15.9	54 200	5450	2.9	9.9	C26-65(FC)EAP	----	CH22-65	
	16.0	54 700	5620	2.9	9.7	C26-51(FC)	----	----	LB-25778CD (38920)
	16.1	55 000	5500	2.9	10.0	**CB18-65	----	**CBS18-65	
16.2	55 300	5670	2.9	9.8	C26-65(FC)	----	----	★Factory Installed	

*Sound rating number rated at test conditions for Air-Conditioning and Refrigeration Institute (ARI) Standard 270.

●The rating test conditions are those included in Air-Conditioning and Refrigeration Institute (ARI) Standard 210/240-89 while operating at rated voltage and air volumes.
Cooling Ratings —35°C (95°F) outdoor air temperature, 26.7°C (80°F) dry bulb and 19.4°C (67°F) wet bulb entering evaporator air with 6.0 m (20 feet) of connecting refrigerant lines.

★Furnished as standard with coil.

**Blower powered evaporator unit.

***Expansion valve kit is optional and must be ordered extra, unless shown as factory installed.

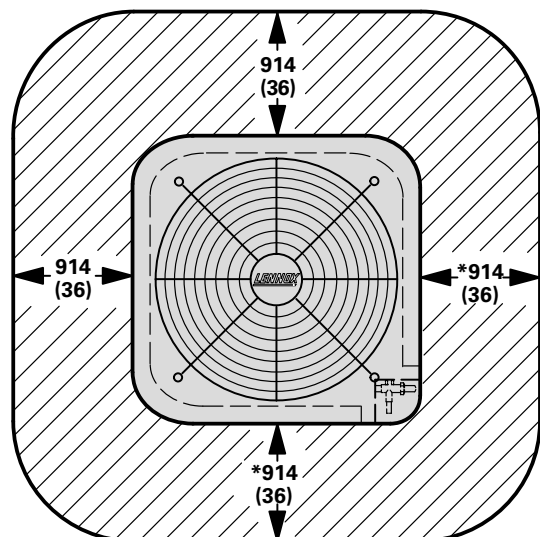
REFRIGERANT LINE KITS

Condensing Unit Model Number	Line Set Model Number	Suction and Liquid Line Length		Liquid Line Outside Diameter		Suction Line Outside Diameter	
		m	ft.	mm	in.	mm	in.
**HS23-141	*Not available	**6.4	**1/4	2.7	1/2		
**HS23-211 **HS23-261	L10-21-20	6.1	20	**8	**5/16	15.9	5/8
	L10-21-25	7.6	25				
	L10-21-35	10.7	35				
	L10-21-50	15.2	50				
HS23-311 HS23-411 HS23-413	L10-41-20	6.1	20	9.5	3/8	19	3/4
	L10-41-30	9.1	30				
	L10-41-40	12.2	40				
	L10-41-50	15.2	50				
HS23-513	L10-65-30	9.1	30	9.5	3/8	22.2	7/8
	L10-65-40	12.2	40				
	L10-65-50	15.2	50				
HS23-653	*Not available			9.5	3/8	28.5	1-1/8

*Field fabricate.

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

INSTALLATION CLEARANCES – mm (inches)



NOTE—1219 mm (48 in.) clearance required on top of unit.

*NOTE—One side must be 914 mm (36 in.) for service.

Two of the remaining three sides may be 305 mm (12 in.).

ELECTRICAL DATA — HS23-141-211-261-311

Model Number		HS23-141	HS23-211	HS23-261	HS23-311
Line voltage and phase (50hz)		220/240V 1 phase	220/240V 1 phase	220/240V 1 phase	220/240V 1 phase
Voltage range (minimum — maximum)		198 — 264V	198 — 264V	198 — 264V	198 — 264V
Compressor	Rated load amps	4.2	8.1	8.8	12.4
	Locked rotor amps	28.0	44.0	55.0	73.0
Condenser Coil Fan Motor (1 phase)	Full load amps	.80	.80	.80	.80
	Locked rotor amps	2.6	2.6	2.6	2.6

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

ELECTRICAL DATA — HS23-411-413-513-653

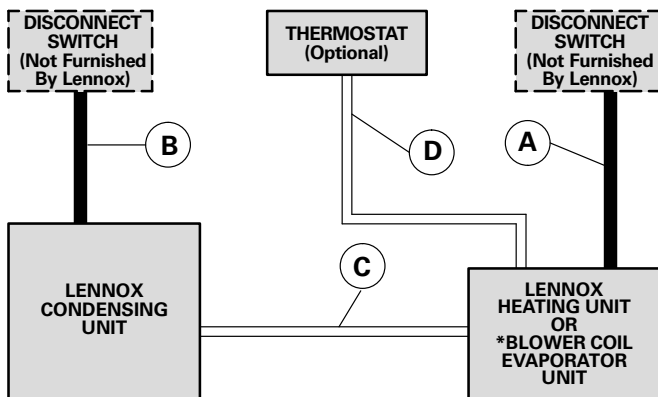
Model Number		HS23-411	HS23-413	HS23-513	HS23-653
Line voltage and phase (50hz)		220/240V 1 phase	380/420V 3 phase with neutral	†380/420V 3 phase	†380/420V 3 phase
Voltage range (minimum — maximum)		198 — 264V	342 — 462V	342 — 462V	342 — 462V
Compressor	Rated load amps	13.7	5.1	7.0	9.6
	Locked rotor amps	81.0	33.0	46.0	73.0
Condenser Coil Fan Motor (1 phase)	Full load amps	.80	.60	1.1	1.1
	Locked rotor amps	2.6	2.1	2.3	2.3

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

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

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

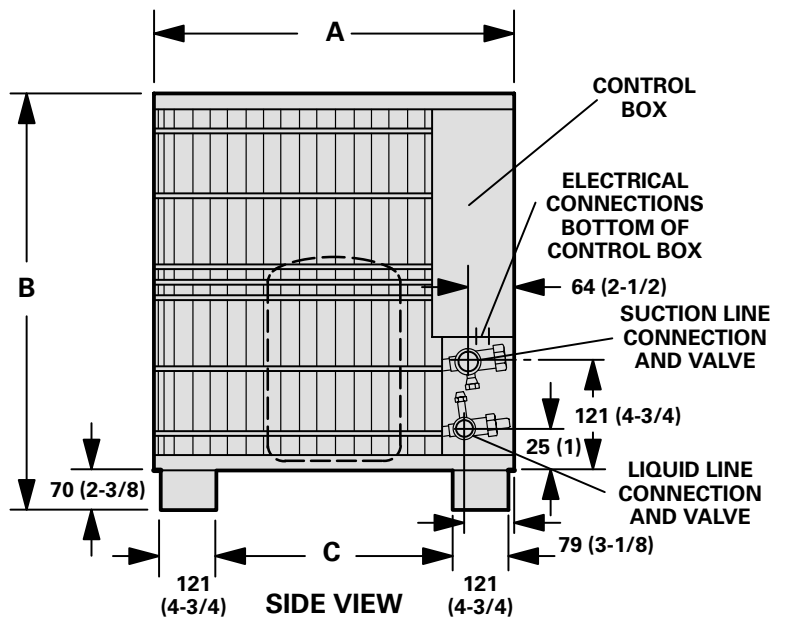
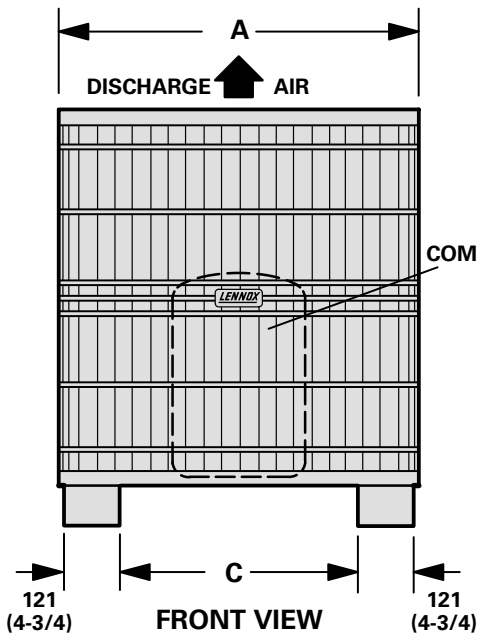
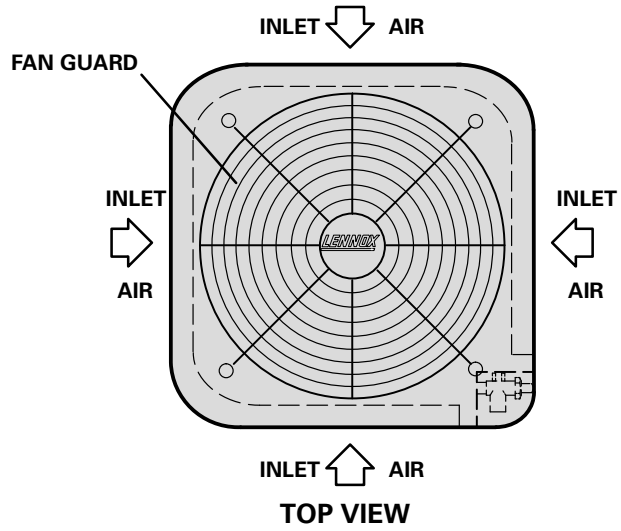
FIELD WIRING



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

NOTE — Field wiring not furnished by Lennox.

All wiring must conform to local electrical codes.



Model Number		A	B	C
HS23-141, HS23-211, HS23-261	mm	670	679	429
	in.	26-3/8	26-3/4	16-7/8
HS23-311, HS23-411-413	mm	670	781	429
	in.	26-3/8	30-3/4	16-7/8
HS23-513, HS23-653	mm	795	883	538
	in.	31-5/16	34-3/4	21-3/16

RATINGS – 50hz

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 – CH23-21

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)					35°C (95°F)					41°C (105°F)					46°C (115°F)								
			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		
						Dry Bulb						Dry Bulb						Dry Bulb						Dry Bulb		
L/s	cfm	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	
17.2°C (63°F)	155	325	3.1	10 600	0.85	.60	.80	1.00	3.0	10 200	0.94	.61	.83	1.00	2.9	9800	1.04	.62	.86	1.00	2.8	9400	1.14	.64	.89	1.00
	190	400	3.2	11 000	0.85	.65	.91	1.00	3.1	10 600	0.95	.68	.94	1.00	3.0	10 200	1.05	.70	.97	1.00	2.9	9800	1.15	.73	.99	1.00
	225	475	3.3	11 300	0.86	.73	.99	1.00	3.2	11 000	0.95	.76	1.00	1.00	3.1	10 600	1.06	.79	1.00	1.00	3.0	10 200	1.16	.82	1.00	1.00
19.4°C (67°F)	155	325	3.3	11 300	0.86	.47	.58	.74	3.2	10 900	0.95	.47	.59	.77	3.0	10 400	1.05	.48	.60	.80	2.9	10 000	1.16	.49	.62	.83
	190	400	3.4	11 600	0.86	.49	.63	.86	3.3	11 200	0.96	.50	.64	.89	3.1	10 700	1.06	.51	.66	.92	3.0	10 300	1.16	.52	.69	.95
	225	475	3.5	11 900	0.87	.52	.70	.95	3.3	11 400	0.96	.53	.72	.98	3.2	11 000	1.06	.54	.75	1.00	3.1	10 500	1.17	.55	.79	1.00
21.7°C (71°F)	155	325	3.5	12 100	0.87	.35	.45	.56	3.4	11 600	0.97	.35	.46	.57	3.3	11 200	1.07	.35	.47	.58	3.1	10 700	1.17	.35	.47	.59
	190	400	3.6	12 400	0.88	.36	.48	.61	3.5	11 900	0.98	.36	.49	.62	3.4	11 500	1.08	.36	.50	.63	3.2	11 000	1.18	.37	.51	.65
	225	475	3.7	12 600	0.89	.37	.51	.66	3.5	12 100	0.98	.37	.52	.69	3.4	11 700	1.08	.37	.53	.72	3.3	11 100	1.19	.38	.54	.75

HS23-141 – 12HXO

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)					35°C (95°F)					41°C (105°F)					46°C (115°F)								
			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		
						Dry Bulb						Dry Bulb						Dry Bulb						Dry Bulb		
L/s	cfm	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	
17.2°C (63°F)	120	250	3.1	10 600	0.77	.57	.72	.89	3.0	10 200	0.85	.57	.74	.91	2.9	9800	0.94	.58	.76	.94	2.8	9400	1.04	.60	.78	.97
	140	300	3.2	11 000	0.77	.60	.79	.97	3.1	10 600	0.86	.61	.81	.99	3.0	10 200	0.95	.63	.83	1.00	2.8	9700	1.04	.65	.86	1.00
	165	350	3.3	11 300	0.78	.65	.86	1.00	3.2	10 900	0.86	.66	.88	1.00	3.1	10 500	0.96	.68	.91	1.00	2.9	10 000	1.05	.71	.94	1.00
19.4°C (67°F)	120	250	3.3	11 400	0.78	.45	.54	.67	3.2	11 000	0.87	.45	.55	.68	3.1	10 500	0.96	.46	.56	.70	3.0	10 100	1.05	.46	.57	.73
	140	300	3.5	11 800	0.79	.46	.57	.74	3.3	11 300	0.87	.47	.58	.76	3.2	10 900	0.96	.47	.60	.78	3.0	10 400	1.06	.48	.61	.81
	165	350	3.5	12 100	0.79	.48	.61	.81	3.4	11 600	0.88	.49	.63	.83	3.3	11 200	0.97	.49	.65	.86	3.1	10 700	1.06	.50	.67	.89
21.7°C (71°F)	120	250	3.6	12 200	0.79	.35	.43	.52	3.5	11 800	0.88	.35	.44	.53	3.3	11 300	0.97	.35	.44	.54	3.2	10 900	1.07	.35	.45	.54
	140	300	3.7	12 600	0.80	.35	.45	.55	3.6	12 200	0.89	.35	.45	.56	3.4	11 700	0.98	.35	.46	.57	3.3	11 200	1.08	.35	.47	.58
	165	350	3.8	12 900	0.81	.35	.47	.58	3.6	12 400	0.89	.36	.47	.60	3.5	11 900	0.99	.36	.48	.62	3.3	11 400	1.08	.36	.49	.64

HS23-141 – 15HXO

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)					35°C (95°F)					41°C (105°F)					46°C (115°F)								
			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		
						Dry Bulb						Dry Bulb						Dry Bulb						Dry Bulb		
L/s	cfm	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	
17.2°C (63°F)	120	250	3.3	11 200	0.79	.59	.73	.89	3.2	10 800	0.87	.59	.75	.92	3.0	10 400	0.97	.60	.77	.94	2.9	10 000	1.06	.62	.79	.97
	140	300	3.4	11 700	0.79	.62	.80	.97	3.3	11 200	0.88	.63	.82	.99	3.2	10 800	0.97	.65	.84	1.00	3.0	10 300	1.07	.67	.87	1.00
	165	350	3.5	12 000	0.80	.66	.87	1.00	3.4	11 600	0.89	.68	.89	1.00	3.3	11 100	0.98	.70	.92	1.00	3.1	10 600	1.08	.72	.95	1.00
19.4°C (67°F)	120	250	3.5	12 100	0.80	.47	.56	.69	3.4	11 600	0.89	.47	.57	.70	3.3	11 200	0.98	.47	.58	.72	3.1	10 700	1.08	.48	.59	.74
	140	300	3.7	12 500	0.80	.48	.59	.75	3.5	12 000	0.89	.49	.60	.77	3.4	11 600	0.99	.49	.62	.79	3.2	11 000	1.09	.50	.63	.82
	165	350	3.8	12 800	0.81	.50	.63	.82	3.6	12 300	0.90	.50	.65	.84	3.5	11 800	0.99	.51	.67	.87	3.3	11 300	1.09	.52	.69	.90
21.7°C (71°F)	120	250	3.8	13 000	0.81	.36	.45	.54	3.7	12 500	0.90	.36	.45	.55	3.5	12 000	0.99	.36	.46	.55	3.4	11 500	1.09	.36	.46	.56
	140	300	3.9	13 400	0.82	.36	.47	.57	3.8	12 900	0.91	.36	.47	.58	3.6	12 400	1.00	.36	.48	.59	3.5	11 900	1.10	.37	.48	.60
	165	350	4.0	13 700	0.83	.37	.48	.60	3.9	13 200	0.92	.37	.49	.62	3.7	12 700	1.01	.37	.50	.64	3.5	12 100	1.11	.38	.51	.66

HS23-141 – C23-26(W)(FC)

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)					35°C (95°F)					41°C (105°F)					46°C (115°F)								
			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		
						Dry Bulb						Dry Bulb						Dry Bulb						Dry Bulb		
L/s	cfm	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	
17.2°C (63°F)	155	325	3.4	11 600	0.80	.61	.80	1.00	3.3	11 200	0.89	.62	.83	1.00	3.1	10 700	0.98	.63	.86	1.00	3.0	10 300	1.08	.64	.89	1.00
	190	400	3.5	12 100	0.81	.66	.91	1.00	3.4	11 600	0.90	.68	.94	1.00	3.3	11 200	0.99	.71	.97	1.00	3.1	10 700	1.09	.74	1.00	1.00
	225	475	3.7	12 500	0.81	.74	1.00	1.00	3.5	12 100	0.90	.76	1.00	1.00	3.4	11 600	1.00	.79	1.00	1.00	3.3	11 200	1.10	.83	1.00	1.00
19.4°C (67°F)	155	325	3.6	12 400	0.81	.47	.59	.74	3.5	12 000	0.90	.48	.60	.77	3.4	11 500	1.00	.48	.61	.80	3.2	11 000	1.10	.49	.62	.83
	190	400	3.8	12 800	0.82	.50	.63	.86	3.6	12 300	0.91	.51	.64	.89	3.5	11 800	1.00	.51	.67	.92	3.3	11 300	1.10	.52	.70	.96
	225	475	3.8	13 100	0.83	.52	.70	.96	3.7	12 600	0.92	.53	.73	.99	3.5	12 100	1.01	.54	.76	1.00	3.4	11 500	1.11	.56	.79	1.00
21.7°C (71°F)	155	325	3.9	13 300	0.83	.35	.46	.56	3.8	12 800	0.92	.35	.46	.57	3.6	12 300	1.01	.36	.47	.59	3.5	11 800	1.11	.36	.48	.60
	190	400	4.0	13 700	0.84	.36	.49	.61	3.9	13 200	0.93	.36	.49	.62	3.7	12 600	1.02	.37	.50	.64	3.5	12 100	1.12	.37	.51	.66
	225	475	4.1	13 900	0.84	.37	.52	.67	3.9	13 400	0.93	.38	.52	.69	3.8	12 800	1.03	.38	.54	.72	3.6	12 300	1.13	.38	.55	.76

RATINGS – 50hz

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 – CR18-21

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)					35°C (95°F)					41°C (105°F)					46°C (115°F)								
			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		
			kW	Btuh		Dry Bulb			kW	Btuh		Dry Bulb			kW	Btuh		Dry Bulb			kW	Btuh		Dry Bulb		
24°C 75°F	27°C 80°F	29°C 85°F			24°C 75°F	27°C 80°F	29°C 85°F	24°C 75°F			27°C 80°F	29°C 85°F	24°C 75°F	27°C 80°F			29°C 85°F	24°C 75°F	27°C 80°F	29°C 85°F			24°C 75°F	27°C 80°F	29°C 85°F	
17.2°C (63°F)	155	325	3.4	11 700	0.83	.61	.80	1.00	3.3	11 300	0.92	.62	.83	1.00	3.2	10 800	1.02	.63	.86	1.00	3.0	10 400	1.12	.64	.89	1.00
	190	400	3.6	12 200	0.84	.66	.91	1.00	3.4	11 700	0.93	.68	.94	1.00	3.3	11 300	1.03	.71	.97	1.00	3.2	10 800	1.13	.74	1.00	1.00
	225	475	3.7	12 600	0.85	.74	1.00	1.00	3.6	12 200	0.94	.76	1.00	1.00	3.5	11 800	1.04	.79	1.00	1.00	3.3	11 300	1.14	.83	1.00	1.00
19.4°C (67°F)	155	325	3.7	12 500	0.85	.47	.59	.74	3.5	12 100	0.94	.48	.60	.77	3.4	11 600	1.04	.48	.61	.80	3.3	11 100	1.14	.49	.62	.83
	190	400	3.8	12 900	0.85	.50	.63	.86	3.6	12 400	0.95	.51	.64	.89	3.5	11 900	1.04	.51	.67	.92	3.3	11 400	1.15	.52	.70	.96
	225	475	3.9	13 200	0.86	.52	.70	.96	3.7	12 700	0.95	.53	.73	.99	3.6	12 200	1.05	.54	.76	1.00	3.4	11 700	1.15	.56	.79	1.00
21.7°C (71°F)	155	325	3.9	13 400	0.86	.35	.46	.56	3.8	12 900	0.96	.35	.46	.57	3.6	12 400	1.05	.36	.47	.59	3.5	11 900	1.16	.36	.48	.60
	190	400	4.0	13 800	0.87	.36	.49	.61	3.9	13 300	0.96	.36	.49	.62	3.7	12 700	1.06	.37	.50	.64	3.6	12 200	1.17	.37	.51	.66
	225	475	4.1	14 100	0.88	.37	.52	.67	4.0	13 500	0.97	.38	.52	.69	3.8	13 000	1.07	.38	.54	.72	3.6	12 400	1.17	.38	.55	.76

HS23-141 – C26-21(FC) – CH22-21

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)					35°C (95°F)					41°C (105°F)					46°C (115°F)								
			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		
			kW	Btuh		Dry Bulb			kW	Btuh		Dry Bulb			kW	Btuh		Dry Bulb			kW	Btuh		Dry Bulb		
24°C 75°F	27°C 80°F	29°C 85°F			24°C 75°F	27°C 80°F	29°C 85°F	24°C 75°F			27°C 80°F	29°C 85°F	24°C 75°F	27°C 80°F			29°C 85°F	24°C 75°F	27°C 80°F	29°C 85°F			24°C 75°F	27°C 80°F	29°C 85°F	
17.2°C (63°F)	155	325	3.5	11 900	0.80	.61	.80	1.00	3.4	11 500	0.89	.62	.83	1.00	3.2	11 000	0.98	.63	.86	1.00	3.1	10 500	1.08	.64	.90	1.00
	190	400	3.6	12 400	0.81	.66	.92	1.00	3.5	11 900	0.90	.68	.95	1.00	3.4	11 500	0.99	.71	.98	1.00	3.2	11 000	1.09	.74	1.00	1.00
	225	475	3.8	12 800	0.82	.74	1.00	1.00	3.6	12 400	0.91	.77	1.00	1.00	3.5	11 900	1.00	.80	1.00	1.00	3.4	11 500	1.10	.84	1.00	1.00
19.4°C (67°F)	155	325	3.7	12 700	0.81	.47	.59	.74	3.6	12 300	0.90	.48	.60	.77	3.5	11 800	1.00	.49	.61	.80	3.3	11 200	1.10	.49	.62	.84
	190	400	3.8	13 100	0.82	.50	.63	.86	3.7	12 600	0.91	.51	.65	.90	3.5	12 100	1.01	.52	.67	.93	3.4	11 600	1.10	.53	.70	.97
	225	475	3.9	13 400	0.83	.53	.71	.97	3.8	12 900	0.92	.54	.73	.99	3.6	12 400	1.01	.55	.76	1.00	3.5	11 800	1.11	.56	.80	1.00
21.7°C (71°F)	155	325	4.0	13 600	0.83	.35	.46	.57	3.8	13 100	0.92	.35	.46	.58	3.7	12 600	1.02	.36	.47	.59	3.5	12 000	1.12	.36	.48	.60
	190	400	4.1	14 000	0.84	.36	.49	.61	4.0	13 500	0.93	.36	.50	.63	3.8	12 900	1.02	.37	.50	.64	3.6	12 300	1.12	.37	.51	.66
	225	475	4.2	14 300	0.84	.37	.52	.67	4.0	13 700	0.93	.38	.53	.70	3.9	13 200	1.03	.38	.54	.73	3.7	12 600	1.13	.39	.55	.76

HS23-141 – C26-26(W)(FC)

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)					35°C (95°F)					41°C (105°F)					46°C (115°F)								
			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		
			kW	Btuh		Dry Bulb			kW	Btuh		Dry Bulb			kW	Btuh		Dry Bulb			kW	Btuh		Dry Bulb		
24°C 75°F	27°C 80°F	29°C 85°F			24°C 75°F	27°C 80°F	29°C 85°F	24°C 75°F			27°C 80°F	29°C 85°F	24°C 75°F	27°C 80°F			29°C 85°F	24°C 75°F	27°C 80°F	29°C 85°F			24°C 75°F	27°C 80°F	29°C 85°F	
17.2°C (63°F)	155	325	3.7	12 700	0.82	.61	.80	1.00	3.6	12 200	0.91	.62	.83	1.00	3.4	11 700	1.01	.63	.86	1.00	3.3	11 200	1.11	.64	.90	1.00
	190	400	3.9	13 200	0.83	.66	.92	1.00	3.7	12 700	0.92	.68	.95	1.00	3.6	12 200	1.02	.71	.98	1.00	3.4	11 700	1.12	.74	1.00	1.00
	225	475	4.0	13 600	0.83	.74	1.00	1.00	3.9	13 200	0.93	.77	1.00	1.00	3.7	12 700	1.03	.80	1.00	1.00	3.6	12 200	1.13	.84	1.00	1.00
19.4°C (67°F)	155	325	4.0	13 500	0.83	.47	.59	.74	3.8	13 000	0.92	.48	.60	.77	3.7	12 500	1.02	.49	.61	.80	3.5	12 000	1.12	.49	.62	.84
	190	400	4.1	13 900	0.84	.50	.63	.86	3.9	13 400	0.93	.51	.65	.90	3.8	12 900	1.03	.52	.67	.93	3.6	12 300	1.13	.53	.70	.97
	225	475	4.2	14 300	0.85	.53	.71	.97	4.0	13 700	0.94	.54	.73	.99	3.9	13 200	1.03	.55	.76	1.00	3.7	12 600	1.14	.56	.80	1.00
21.7°C (71°F)	155	325	4.2	14 500	0.85	.35	.46	.57	4.1	13 900	0.94	.35	.46	.58	3.9	13 400	1.04	.36	.47	.59	3.8	12 800	1.14	.36	.48	.60
	190	400	4.4	14 900	0.86	.36	.49	.61	4.2	14 300	0.95	.36	.50	.63	4.0	13 800	1.05	.37	.50	.64	3.8	13 100	1.15	.37	.51	.66
	225	475	4.5	15 200	0.86	.37	.52	.67	4.3	14 600	0.96	.38	.53	.70	4.1	14 000	1.05	.38	.54	.73	3.9	13 400	1.16	.39	.55	.76

HS23-211 – CH23-21

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)					35°C (95°F)					41°C (105°F)					46°C (115°F)								
			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		
			kW	Btuh		Dry Bulb			kW	Btuh		Dry Bulb			kW	Btuh		Dry Bulb			kW	Btuh		Dry Bulb		
24°C 75°F	27°C 80°F	29°C 85°F			24°C 75°F	27°C 80°F	29°C 85°F	24°C 75°F			27°C 80°F	29°C 85°F	24°C 75°F	27°C 80°F			29°C 85°F	24°C 75°F	27°C 80°F	29°C 85°F			24°C 75°F	27°C 80°F	29°C 85°F	
17.2°C (63°F)	190	400	4.7	16 000	1.44	.61	.76	.92	4.4	15 100	1.55	.63	.79	.95	4.2	14 200	1.66	.64	.82	.98	3.9	13 300	1.76	.66	.86	1.00
	260	550	5.0	17 000	1.46	.67	.88	1.00	4.7	16 100	1.58	.70	.91	1.00	4.4	15 100	1.69	.73	.95	1.00	4.2	14 200	1.80	.77	.99	1.00
	330	700	5.2	17 800	1.47	.76	.97	1.00	4.9	16 800	1.59	.79	.99	1.00	4.7	15 900	1.72	.83	1.00	1.00	4.4	15 000	1.83	.87	1.00	1.00
19.4°C (67°F)	190	400	5.0	17 200	1.46	.48	.59	.71	4.8	16 300	1.58	.49	.60	.73	4.5	15 300	1.69	.50	.62	.77	4.2	14 300	1.80	.51	.64	.80
	260	550	5.3	18 100	1.47	.52	.65	.83	5.0	17 100	1.60	.53	.67	.87	4.7	16 000	1.72	.54	.70	.91	4.4	15 000	1.83	.55	.73	.95
	330	700	5.5	18 700	1.48	.55	.73	.94	5.2	17 600	1.61	.56	.76	.97	4.8	16 500	1.73	.58	.80	.99	4.5	15 500	1.85	.60	.84	1.00
21.7°C (71°F)	190	400	5.4	18 500	1.48	.37	.47	.56	5.1	17 500	1.61	.37	.47	.58	4.8	16 500	1.73	.37	.48	.59	4.5	15 500	1.85	.37	.49	.61
	260	550	5.7	19 400	1.49	.38	.50	.62	5.4	18 300	1.62	.38	.51	.64	5.0	17 200	1.75	.39	.53	.66	4.7	16 100				

RATINGS – 50hz

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 – 15HXO

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)					35°C (95°F)					41°C (105°F)					46°C (115°F)								
			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		
						Dry Bulb						Dry Bulb						Dry Bulb						Dry Bulb		
L/s	cfm	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	
17.2°C (63°F)	155	325	4.7	16 000	1.26	.60	.72	.85	4.4	15 100	1.36	.61	.74	.88	4.2	14 200	1.45	.63	.77	.91	3.9	13 300	1.54	.64	.80	.94
	190	400	4.9	16 800	1.27	.63	.78	.92	4.7	15 900	1.37	.65	.80	.95	4.4	14 900	1.47	.67	.83	.98	4.1	13 900	1.56	.69	.87	1.00
	225	475	5.1	17 500	1.28	.66	.83	.98	4.8	16 500	1.39	.69	.86	1.00	4.5	15 400	1.49	.71	.89	1.00	4.2	14 400	1.58	.74	.93	1.00
19.4°C (67°F)	155	325	5.1	17 300	1.28	.48	.57	.68	4.8	16 400	1.38	.49	.58	.70	4.5	15 400	1.49	.49	.60	.72	4.2	14 400	1.58	.50	.61	.75
	190	400	5.3	18 200	1.29	.50	.60	.73	5.0	17 100	1.40	.50	.61	.75	4.7	16 100	1.51	.51	.63	.78	4.4	15 000	1.61	.52	.66	.82
	225	475	5.5	18 800	1.29	.51	.63	.78	5.2	17 700	1.41	.52	.65	.81	4.9	16 600	1.52	.53	.68	.85	4.5	15 500	1.62	.54	.71	.89
21.7°C (71°F)	155	325	5.5	18 700	1.30	.38	.46	.55	5.2	17 700	1.41	.38	.47	.56	4.9	16 700	1.52	.38	.47	.57	4.6	15 700	1.63	.38	.48	.58
	190	400	5.7	19 600	1.30	.38	.48	.57	5.4	18 500	1.42	.38	.48	.59	5.1	17 400	1.54	.38	.49	.60	4.8	16 300	1.65	.39	.50	.62
	225	475	5.9	20 200	1.31	.38	.49	.60	5.6	19 100	1.43	.39	.50	.62	5.2	17 900	1.55	.39	.51	.65	4.9	16 700	1.66	.39	.53	.67

HS23-211 – 18HXO

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)					35°C (95°F)					41°C (105°F)					46°C (115°F)								
			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		
						Dry Bulb						Dry Bulb						Dry Bulb						Dry Bulb		
L/s	cfm	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	
17.2°C (63°F)	210	450	5.0	16 900	1.30	.60	.77	.95	4.7	16 000	1.40	.62	.80	.98	4.4	15 000	1.51	.63	.84	1.00	4.1	14 000	1.60	.67	.89	1.00
	260	550	5.2	17 600	1.31	.64	.85	1.00	4.9	16 600	1.42	.67	.89	1.00	4.6	15 600	1.52	.70	.94	1.00	4.3	14 600	1.63	.74	.98	1.00
	305	650	5.3	18 200	1.31	.70	.93	1.00	5.0	17 100	1.43	.73	.97	1.00	4.7	16 200	1.54	.77	1.00	1.00	4.5	15 200	1.65	.82	1.00	1.00
19.4°C (67°F)	210	450	5.3	18 200	1.31	.47	.58	.72	5.0	17 200	1.43	.48	.59	.75	4.7	16 100	1.54	.49	.61	.79	4.4	15 000	1.64	.50	.63	.83
	260	550	5.5	18 800	1.32	.49	.62	.80	5.2	17 700	1.44	.50	.63	.84	4.9	16 600	1.55	.51	.67	.89	4.5	15 500	1.66	.53	.70	.93
	305	650	5.7	19 300	1.32	.51	.66	.88	5.3	18 200	1.45	.53	.70	.92	5.0	17 000	1.56	.54	.74	.97	4.7	15 900	1.67	.56	.78	1.00
21.7°C (71°F)	210	450	5.7	19 600	1.33	.36	.46	.55	5.4	18 500	1.45	.36	.46	.57	5.1	17 400	1.57	.36	.47	.58	4.8	16 300	1.68	.37	.49	.60
	260	550	5.9	20 200	1.33	.36	.48	.59	5.6	19 100	1.46	.37	.49	.61	5.2	17 900	1.58	.37	.50	.63	4.9	16 700	1.70	.38	.52	.67
	305	650	6.1	20 700	1.33	.37	.50	.63	5.7	19 500	1.46	.38	.51	.66	5.4	18 300	1.59	.38	.53	.70	5.0	17 000	1.71	.39	.55	.74

HS23-211 – CH23-31

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)					35°C (95°F)					41°C (105°F)					46°C (115°F)								
			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		
						Dry Bulb						Dry Bulb						Dry Bulb						Dry Bulb		
L/s	cfm	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	
17.2°C (63°F)	190	400	4.9	16 800	1.45	.61	.75	.91	4.7	15 900	1.57	.62	.78	.95	4.4	14 900	1.68	.64	.81	.98	4.1	13 900	1.78	.66	.85	1.00
	260	550	5.2	17 900	1.47	.67	.87	1.00	5.0	16 900	1.59	.70	.91	1.00	4.7	15 900	1.71	.73	.95	1.00	4.4	14 900	1.83	.77	.99	1.00
	330	700	5.5	18 700	1.48	.75	.97	1.00	5.2	17 800	1.61	.79	1.00	1.00	4.9	16 800	1.74	.83	1.00	1.00	4.6	15 800	1.87	.87	1.00	1.00
19.4°C (67°F)	190	400	5.3	18 100	1.47	.48	.58	.70	5.0	17 100	1.60	.49	.60	.73	4.7	16 100	1.72	.50	.61	.76	4.4	15 000	1.83	.51	.63	.80
	260	550	5.6	19 100	1.49	.51	.64	.82	5.3	18 000	1.62	.52	.66	.86	5.0	16 900	1.74	.54	.69	.90	4.6	15 800	1.86	.55	.73	.94
	330	700	5.8	19 800	1.49	.55	.72	.93	5.5	18 600	1.63	.56	.75	.97	5.1	17 500	1.76	.58	.79	1.00	4.8	16 300	1.88	.60	.84	1.00
21.7°C (71°F)	190	400	5.7	19 500	1.49	.37	.46	.56	5.4	18 400	1.62	.37	.47	.57	5.1	17 300	1.76	.37	.48	.59	4.7	16 200	1.88	.37	.49	.60
	260	550	6.0	20 500	1.50	.38	.50	.62	5.7	19 400	1.64	.38	.51	.64	5.3	18 200	1.78	.38	.52	.66	5.0	17 000	1.91	.39	.54	.69
	330	700	6.2	21 100	1.50	.39	.53	.69	5.8	19 900	1.65	.40	.55	.72	5.5	18 700	1.79	.40	.57	.76	5.1	17 400	1.92	.41	.59	.80

HS23-211 – CR18-21

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)					35°C (95°F)					41°C (105°F)					46°C (115°F)								
			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		
						Dry Bulb						Dry Bulb						Dry Bulb						Dry Bulb		
L/s	cfm	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	
17.2°C (63°F)	190	400	5.0	17 000	1.39	.58	.72	.90	4.7	16 000	1.50	.59	.75	.93	4.4	15 000	1.60	.60	.79	.97	4.1	14 100	1.70	.62	.83	1.00
	260	550	5.3	18 100	1.40	.63	.85	1.00	5.0	17 100	1.52	.66	.89	1.00	4.7	16 000	1.63	.70	.94	1.00	4.4	15 000	1.74	.74	.98	1.00
	330	700	5.6	19 000	1.41	.72	.96	1.00	5.2	17 900	1.53	.76	.99	1.00	5.0	17 000	1.66	.80	1.00	1.00	4.7	16 000	1.78	.85	1.00	1.00
19.4°C (67°F)	190	400	5.4	18 300	1.40	.46	.55	.67	5.1	17 300	1.52	.46	.57	.70	4.8	16 300	1.64	.47	.58	.73	4.5	15 200	1.75	.48	.60	.77
	260	550	5.7	19 400	1.41	.49	.61	.80	5.4	18 300	1.54	.50	.63	.84	5.0	17 100	1.66	.51	.66	.88	4.7	16 000	1.78	.52	.70	.93
	330	700	5.9	20 100	1.42	.52	.69	.92	5.5	18 900	1.55	.53	.72	.96	5.2	17 700	1.68	.55	.77	.99	4.8	16 500	1.80	.56	.81	1.00
21.7°C (71°F)	190	400	5.8	19 800	1.42	.35	.44	.53	5.5	18 700	1.55	.35	.45	.54	5.2	17 600	1.67	.35	.45	.56	4.8	16 400	1.79	.36	.46	.57
	260	550	6.1	20 800	1.43	.36	.47	.59	5.7	19 600	1.56	.36	.48	.60	5.4	18 400	1.69	.37	.49	.62	5.0	17 200	1.82	.37	.51	.66
	330	700	6.3	21 500	1.43	.37	.51	.65	5.9	20 200	1.57	.38	.52	.69	5.6	19 000	1.70	.38	.54	.73	5.2	17 700	1.83	.39	.55	.78

RATINGS – 50hz

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 – C23-41(W)(FC) – CH23-41

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)			35°C (95°F)			41°C (105°F)			46°C (115°F)														
			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)										
			kW	Btuh		Dry Bulb		kW	Btuh		Dry Bulb		kW	Btuh		Dry Bulb		kW	Btuh	Dry Bulb						
24°C 75°F	27°C 80°F	29°C 85°F			24°C 75°F	27°C 80°F	29°C 85°F			24°C 75°F	27°C 80°F	29°C 85°F			24°C 75°F	27°C 80°F	29°C 85°F									
17.2°C (63°F)	355	750	7.5	25 700	1.98	.69	.84	.98	7.2	24 400	2.13	.71	.87	.99	6.7	23 000	2.27	.73	.90	1.00	6.3	21 600	2.41	.75	.93	1.00
	425	900	7.8	26 600	2.00	.73	.90	1.00	7.4	25 200	2.16	.75	.93	1.00	7.0	23 800	2.31	.78	.96	1.00	6.6	22 400	2.45	.81	.99	1.00
	495	1050	8.0	27 400	2.02	.78	.95	1.00	7.6	26 000	2.18	.80	.98	1.00	7.2	24 600	2.34	.83	1.00	1.00	6.8	23 200	2.49	.86	1.00	1.00
19.4°C (67°F)	355	750	8.1	27 600	2.02	.54	.67	.80	7.7	26 200	2.19	.55	.68	.83	7.2	24 600	2.34	.56	.70	.86	6.8	23 100	2.48	.57	.72	.89
	425	900	8.3	28 400	2.04	.56	.71	.86	7.9	26 900	2.21	.57	.73	.89	7.4	25 300	2.37	.59	.75	.92	6.9	23 700	2.51	.60	.78	.96
	495	1050	8.5	29 000	2.06	.58	.75	.92	8.0	27 400	2.23	.60	.77	.95	7.6	25 800	2.39	.61	.80	.97	7.1	24 100	2.54	.63	.84	1.00
21.7°C (71°F)	355	750	8.7	29 700	2.07	.40	.52	.64	8.2	28 100	2.25	.41	.53	.66	7.8	26 500	2.41	.41	.54	.67	7.3	24 900	2.57	.42	.56	.70
	425	900	8.9	30 500	2.09	.41	.55	.68	8.5	28 900	2.27	.42	.56	.70	8.0	27 200	2.44	.42	.57	.72	7.5	25 500	2.60	.43	.59	.75
	495	1050	9.1	31 000	2.11	.42	.57	.72	8.6	29 400	2.29	.43	.58	.74	8.1	27 700	2.46	.43	.60	.77	7.6	25 900	2.62	.44	.62	.81

HS23-311 – C23-46(FC)

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)			35°C (95°F)			41°C (105°F)			46°C (115°F)														
			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)										
			kW	Btuh		Dry Bulb		kW	Btuh		Dry Bulb		kW	Btuh		Dry Bulb		kW	Btuh	Dry Bulb						
24°C 75°F	27°C 80°F	29°C 85°F			24°C 75°F	27°C 80°F	29°C 85°F			24°C 75°F	27°C 80°F	29°C 85°F			24°C 75°F	27°C 80°F	29°C 85°F									
17.2°C (63°F)	355	750	7.7	26 300	1.99	.69	.84	.98	7.3	24 900	2.14	.71	.87	1.00	6.9	23 500	2.29	.73	.90	1.00	6.4	22 000	2.43	.76	.94	1.00
	425	900	8.0	27 200	2.01	.73	.91	1.00	7.6	25 800	2.17	.76	.94	1.00	7.1	24 300	2.32	.78	.97	1.00	6.7	22 900	2.47	.82	.99	1.00
	495	1050	8.2	28 000	2.03	.78	.96	1.00	7.8	26 600	2.20	.81	.98	1.00	7.4	25 100	2.36	.84	1.00	1.00	7.0	23 800	2.52	.87	1.00	1.00
19.4°C (67°F)	355	750	8.3	28 200	2.04	.54	.67	.80	7.8	26 700	2.20	.55	.68	.83	7.4	25 100	2.36	.56	.70	.86	6.9	23 500	2.50	.57	.72	.89
	425	900	8.5	29 100	2.06	.56	.71	.87	8.1	27 500	2.22	.57	.73	.90	7.6	25 800	2.39	.59	.75	.93	7.1	24 100	2.54	.60	.78	.96
	495	1050	8.7	29 700	2.07	.59	.75	.92	8.2	28 000	2.24	.60	.78	.95	7.7	26 400	2.41	.62	.81	.98	7.2	24 700	2.56	.63	.84	1.00
21.7°C (71°F)	355	750	8.9	30 400	2.09	.40	.52	.64	8.4	28 800	2.27	.41	.53	.66	7.9	27 100	2.44	.41	.54	.68	7.4	25 400	2.59	.42	.56	.70
	425	900	9.1	31 200	2.11	.41	.55	.68	8.6	29 500	2.29	.42	.56	.70	8.1	27 800	2.46	.42	.57	.72	7.6	26 000	2.62	.43	.59	.75
	495	1050	9.3	31 800	2.12	.42	.57	.72	8.8	30 100	2.31	.43	.59	.75	8.3	28 300	2.48	.43	.60	.78	7.8	26 500	2.65	.44	.62	.81

HS23-311 – CR18-31

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)			35°C (95°F)			41°C (105°F)			46°C (115°F)														
			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)										
			kW	Btuh		Dry Bulb		kW	Btuh		Dry Bulb		kW	Btuh		Dry Bulb		kW	Btuh	Dry Bulb						
24°C 75°F	27°C 80°F	29°C 85°F			24°C 75°F	27°C 80°F	29°C 85°F			24°C 75°F	27°C 80°F	29°C 85°F			24°C 75°F	27°C 80°F	29°C 85°F									
17.2°C (63°F)	355	750	7.7	26 300	2.04	.69	.84	.98	7.3	24 900	2.20	.71	.87	1.00	6.9	23 500	2.35	.73	.90	1.00	6.4	22 000	2.50	.76	.94	1.00
	425	900	8.0	27 200	2.07	.73	.91	1.00	7.6	25 800	2.23	.76	.94	1.00	7.1	24 300	2.39	.78	.97	1.00	6.7	22 900	2.54	.82	.99	1.00
	495	1050	8.2	28 000	2.09	.78	.96	1.00	7.8	26 600	2.26	.81	.98	1.00	7.4	25 100	2.42	.84	1.00	1.00	7.0	23 800	2.59	.87	1.00	1.00
19.4°C (67°F)	355	750	8.3	28 200	2.09	.54	.67	.80	7.8	26 700	2.26	.55	.68	.83	7.4	25 100	2.42	.56	.70	.86	6.9	23 500	2.57	.57	.72	.89
	425	900	8.5	29 100	2.11	.56	.71	.87	8.1	27 500	2.29	.57	.73	.90	7.6	25 800	2.45	.59	.75	.93	7.1	24 100	2.61	.60	.78	.96
	495	1050	8.7	29 700	2.13	.59	.75	.92	8.2	28 000	2.31	.60	.78	.95	7.7	26 400	2.47	.62	.81	.98	7.2	24 700	2.63	.63	.84	1.00
21.7°C (71°F)	355	750	8.9	30 400	2.14	.40	.52	.64	8.4	28 800	2.33	.41	.53	.66	7.9	27 100	2.50	.41	.54	.67	7.4	25 400	2.67	.42	.56	.70
	425	900	9.1	31 200	2.17	.41	.55	.68	8.6	29 500	2.35	.42	.56	.70	8.1	27 800	2.53	.42	.57	.72	7.6	26 000	2.70	.43	.59	.75
	495	1050	9.3	31 800	2.18	.42	.57	.72	8.8	30 100	2.37	.43	.59	.75	8.3	28 300	2.55	.43	.60	.78	7.8	26 500	2.72	.44	.62	.81

HS23-311 – C26-31(W)(FC) – CH22-31

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)			35°C (95°F)			41°C (105°F)			46°C (115°F)														
			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)										
			kW	Btuh		Dry Bulb		kW	Btuh		Dry Bulb		kW	Btuh		Dry Bulb		kW	Btuh	Dry Bulb						
24°C 75°F	27°C 80°F	29°C 85°F			24°C 75°F	27°C 80°F	29°C 85°F			24°C 75°F	27°C 80°F	29°C 85°F			24°C 75°F	27°C 80°F	29°C 85°F									
17.2°C (63°F)	355	750	7.8	26 500	2.01	.71	.85	.98	7.3	25 000	2.16	.72	.88	1.00	6.9	23 600	2.31	.74	.91	1.00	6.5	22 100	2.46	.77	.94	1.00
	425	900	8.0	27 400	2.03	.75	.91	1.00	7.6	25 900	2.19	.77	.94	1.00	7.2	24 400	2.35	.80	.97	1.00	6.7	23 000	2.50	.83	1.00	1.00
	495	1050	8.3	28 200	2.05	.79	.96	1.00	7.9	26 800	2.22	.82	.99	1.00	7.4	25 300	2.39	.85	1.00	1.00	7.0	23 900	2.55	.88	1.00	1.00
19.4°C (67°F)	355	750	8.3	28 400	2.05	.55	.68	.81	7.9	26 900	2.22	.56	.70	.84	7.4	25 300	2.38	.57	.72	.87	6.9	23 600	2.53	.58	.74	.90
	425	900	8.6	29 300	2.08	.58	.72	.87	8.1	27 700	2.25	.59	.74	.90	7.6	26 000	2.41	.60	.77	.93	7.1	24 300	2.57	.62	.80	.97
	495	1050	8.8	29 900	2.09	.60	.77	.93	8.3	28 300	2.27	.61	.79	.96	7.8	26 600	2.44	.63	.82	.99	7.3	24 800	2.59	.65	.85	1.00
21.7°C (71°F)	355	750	9.0	30 600	2.11	.41	.53	.65	8.5	29 000	2.29	.42	.54	.67	8.0	27 300	2.46	.42	.55	.69	7.5	25 600	2.63	.42	.57	.71
	425	900	9.2	31 500	2.13	.42	.56	.70	8.7	29 800	2.32	.43	.57	.72	8.2	28 000	2.49	.43	.58	.74	7.7	26 200	2.66	.44	.60	.77
	495	1050	9.4	32 100	2.15	.43	.58	.74	8.9	30 400	2.34	.44	.60	.76	8.4	28 500	2.51	.44	.62	.79	7.8	26 700	2.68	.45	.64	.82

RATINGS – 50hz

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 – C26-41(FC) – CH22-41

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)					35°C (95°F)					41°C (105°F)					46°C (115°F)								
			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		
						Dry Bulb						Dry Bulb						Dry Bulb						Dry Bulb		
L/s	cfm	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	
17.2°C (63°F)	355	750	7.9	26 800	2.01	.71	.85	.98	7.4	25 300	2.17	.72	.88	1.00	7.0	23 800	2.32	.74	.91	1.00	6.5	22 300	2.47	.77	.94	1.00
	425	900	8.1	27 800	2.04	.75	.91	1.00	7.7	26 300	2.20	.77	.94	1.00	7.2	24 700	2.36	.80	.97	1.00	6.8	23 200	2.51	.83	1.00	1.00
	495	1050	8.4	28 600	2.06	.79	.97	1.00	7.9	27 100	2.23	.82	.99	1.00	7.5	25 600	2.40	.85	1.00	1.00	7.1	24 200	2.56	.88	1.00	1.00
19.4°C (67°F)	355	750	8.4	28 800	2.07	.55	.68	.81	8.0	27 200	2.24	.56	.69	.84	7.5	25 600	2.40	.57	.71	.87	7.0	23 900	2.55	.58	.74	.90
	425	900	8.7	29 700	2.09	.57	.72	.87	8.2	28 100	2.26	.59	.74	.90	7.7	26 300	2.43	.60	.77	.93	7.2	24 600	2.58	.62	.80	.97
	495	1050	8.9	30 400	2.10	.60	.76	.93	8.4	28 700	2.28	.61	.79	.96	7.9	26 900	2.45	.63	.82	.99	7.4	25 100	2.61	.65	.85	1.00
21.7°C (71°F)	355	750	9.1	31 100	2.12	.41	.53	.65	8.6	29 400	2.30	.42	.54	.67	8.1	27 700	2.48	.42	.55	.69	7.6	25 900	2.64	.42	.57	.71
	425	900	9.4	32 000	2.14	.42	.56	.69	8.9	30 200	2.33	.43	.57	.71	8.3	28 400	2.51	.43	.58	.74	7.8	26 500	2.68	.44	.60	.77
	495	1050	9.6	32 600	2.16	.43	.58	.74	9.0	30 800	2.35	.44	.60	.76	8.5	28 900	2.53	.44	.62	.79	7.9	27 000	2.70	.45	.64	.82

HS23-311 – CR18-41

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)					35°C (95°F)					41°C (105°F)					46°C (115°F)								
			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		
						Dry Bulb						Dry Bulb						Dry Bulb						Dry Bulb		
L/s	cfm	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	
17.2°C (63°F)	355	750	8.0	27 400	2.08	.69	.84	.98	7.6	25 900	2.24	.71	.87	1.00	7.2	24 400	2.39	.73	.90	1.00	6.7	22 900	2.54	.76	.94	1.00
	425	900	8.3	28 300	2.10	.73	.91	1.00	7.9	26 800	2.27	.76	.94	1.00	7.4	25 300	2.43	.78	.97	1.00	7.0	23 800	2.58	.82	.99	1.00
	495	1050	8.5	29 100	2.12	.78	.96	1.00	8.1	27 600	2.30	.81	.98	1.00	7.6	26 100	2.47	.84	1.00	1.00	7.2	24 700	2.63	.87	1.00	1.00
19.4°C (67°F)	355	750	8.6	29 400	2.13	.54	.67	.80	8.1	27 800	2.30	.55	.68	.83	7.6	26 100	2.47	.56	.70	.86	7.2	24 500	2.62	.57	.72	.89
	425	900	8.9	30 200	2.15	.56	.71	.87	8.4	28 600	2.33	.57	.73	.90	7.9	26 900	2.49	.59	.75	.93	7.4	25 100	2.65	.60	.78	.96
	495	1050	9.1	30 900	2.16	.59	.75	.92	8.6	29 200	2.35	.60	.78	.95	8.0	27 400	2.52	.62	.81	.98	7.5	25 700	2.68	.63	.84	1.00
21.7°C (71°F)	355	750	9.3	31 600	2.18	.40	.52	.64	8.8	29 900	2.37	.41	.53	.66	8.3	28 200	2.55	.41	.54	.68	7.7	26 400	2.71	.42	.56	.70
	425	900	9.5	32 500	2.21	.41	.55	.68	9.0	30 700	2.39	.42	.56	.70	8.5	28 900	2.57	.42	.57	.72	7.9	27 100	2.74	.43	.59	.75
	495	1050	9.7	33 100	2.22	.42	.57	.72	9.2	31 300	2.41	.43	.59	.75	8.6	29 400	2.60	.43	.60	.78	8.1	27 500	2.77	.44	.62	.81

HS23-311 – CB18-41 – CBS18-41

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)					35°C (95°F)					41°C (105°F)					46°C (115°F)								
			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		
						Dry Bulb						Dry Bulb						Dry Bulb						Dry Bulb		
L/s	cfm	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	
17.2°C (63°F)	400	850	8.2	27 900	2.05	.73	.89	1.00	7.7	26 400	2.22	.75	.91	1.00	7.3	24 800	2.37	.77	.94	1.00	6.8	23 300	2.52	.80	.97	1.00
	470	1000	8.4	28 700	2.08	.77	.94	1.00	8.0	27 200	2.24	.80	.97	1.00	7.5	25 700	2.40	.82	.99	1.00	7.1	24 300	2.56	.86	1.00	1.00
	545	1150	8.6	29 500	2.09	.81	.98	1.00	8.2	28 000	2.27	.84	1.00	1.00	7.8	26 600	2.44	.87	1.00	1.00	7.4	25 100	2.61	.91	1.00	1.00
19.4°C (67°F)	400	850	8.7	29 800	2.10	.56	.70	.85	8.3	28 200	2.27	.58	.72	.88	7.8	26 500	2.44	.59	.74	.91	7.3	24 800	2.59	.60	.77	.94
	470	1000	9.0	30 600	2.12	.59	.75	.91	8.5	28 900	2.30	.60	.77	.93	7.9	27 100	2.46	.62	.79	.96	7.4	25 400	2.62	.63	.83	.99
	545	1150	9.1	31 200	2.13	.61	.79	.95	8.6	29 400	2.31	.63	.81	.98	8.1	27 700	2.48	.64	.84	1.00	7.6	25 900	2.64	.67	.88	1.00
21.7°C (71°F)	400	850	9.4	32 100	2.16	.42	.55	.68	8.9	30 400	2.34	.42	.56	.70	8.4	28 600	2.52	.43	.57	.72	7.9	26 800	2.68	.43	.59	.74
	470	1000	9.6	32 800	2.17	.43	.57	.72	9.1	31 000	2.36	.43	.59	.74	8.6	29 200	2.54	.44	.60	.77	8.0	27 300	2.71	.44	.62	.80
	545	1150	9.8	33 400	2.19	.44	.60	.76	9.2	31 500	2.38	.44	.61	.79	8.7	29 700	2.56	.45	.63	.82	8.1	27 700	2.73	.46	.65	.85

HS23-411-413 – C23-41(W)(FC) – CH23-41

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)					35°C (95°F)					41°C (105°F)					46°C (115°F)								
			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		
						Dry Bulb						Dry Bulb						Dry Bulb						Dry Bulb		
L/s	cfm	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	
17.2°C (63°F)	380	800	9.6	32 600	2.63	.64	.79	.94	9.1	31 000	2.83	.65	.82	.97	8.6	29 300	3.04	.67	.85	.99	8.1	27 500	3.24	.69	.88	1.00
	470	1000	10.0	34 000	2.67	.68	.87	1.00	9.5	32 300	2.88	.71	.90	1.00	8.9	30 500	3.09	.73	.93	1.00	8.4	28 700	3.30	.76	.97	1.00
	565	1200	10.3	35 100	2.70	.74	.94	1.00	9.8	33 300	2.92	.77	.96	1.00	9.2	31 500	3.14	.80	.99	1.00	8.7	29 800	3.37	.83	1.00	1.00
19.4°C (67°F)	380	800	10.3	35 000	2.70	.50	.62	.75	9.7	33 200	2.92	.51	.63	.77	9.2	31 400	3.13	.52	.64	.80	8.6	29 400	3.35	.53	.66	.84
	470	1000	10.6	36 200	2.73	.53	.66	.82	10.1	34 300	2.96	.54	.67	.86	9.5	32 400	3.18	.55	.70	.89	8.9	30 300	3.40	.56	.73	.93
	565	1200	10.9	37 100	2.76	.55	.71	.90	10.3	35 100	2.99	.56	.73	.93	9.7	33 100	3.21	.58	.77	.96	9.1	30 900	3.43	.59	.80	.99
21.7°C (71°F)	380	800	11.0	37 600	2.77	.38	.49	.59	10.5	35 700	3.01	.38	.49	.60	9.9	33 700	3.24	.39	.50	.62	9.3	31 600	3.47	.39	.51	.64
	470	1000	11.4	38 800	2.81	.39	.51	.63	10.8	36 800	3.05	.39	.52	.65	10.1	34 600	3.28	.40	.53	.67	9.5	32 400	3.52	.40	.55	.70
	565	1200	11.6	39 600	2.83	.40	.54	.68	11.0	37 500	3.08	.40	.55	.71	10.3	35 300	3.32	.41	.56	.74	9.7	33 000	3.55	.41	.58	.77

RATINGS – 50hz

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 – CH23-51

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)					35°C (95°F)					41°C (105°F)					46°C (115°F)								
			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		
			kW	Btuh		Dry Bulb			kW	Btuh		Dry Bulb			kW	Btuh		Dry Bulb			kW	Btuh		Dry Bulb		
24°C 75°F	27°C 80°F	29°C 85°F			24°C 75°F	27°C 80°F	29°C 85°F	24°C 75°F			27°C 80°F	29°C 85°F	24°C 75°F	27°C 80°F			29°C 85°F	24°C 75°F	27°C 80°F	29°C 85°F						
17.2°C (63°F)	380	800	9.8	33 400	2.66	.65	.80	.94	9.3	31 700	2.88	.66	.82	.97	8.8	29 900	3.09	.68	.85	1.00	8.2	27 900	3.29	.70	.89	1.00
	470	1000	10.2	34 800	2.71	.69	.87	1.00	9.7	33 000	2.93	.71	.90	1.00	9.1	31 100	3.15	.74	.94	1.00	8.6	29 200	3.36	.77	.97	1.00
	565	1200	10.6	36 000	2.74	.75	.94	1.00	10.0	34 100	2.97	.78	.97	1.00	9.5	32 300	3.20	.81	1.00	1.00	8.9	30 400	3.44	.85	1.00	1.00
19.4°C (67°F)	380	800	10.5	35 900	2.73	.51	.62	.75	10.0	34 000	2.96	.52	.64	.77	9.4	32 000	3.19	.53	.65	.81	8.8	29 900	3.41	.54	.67	.84
	470	1000	10.9	37 100	2.78	.53	.67	.83	10.3	35 200	3.01	.54	.68	.86	9.7	33 000	3.24	.56	.71	.90	9.0	30 800	3.46	.57	.74	.94
	565	1200	11.2	38 100	2.80	.56	.72	.90	10.6	36 000	3.04	.57	.75	.94	9.9	33 800	3.27	.59	.78	.97	9.3	31 600	3.50	.60	.82	1.00
21.7°C (71°F)	380	800	11.3	38 500	2.81	.39	.49	.60	10.7	36 400	3.06	.39	.50	.61	10.1	34 300	3.30	.39	.51	.63	9.4	32 100	3.53	.39	.52	.65
	470	1000	11.7	39 800	2.85	.39	.52	.64	11.0	37 600	3.10	.40	.53	.66	10.4	35 400	3.35	.40	.54	.68	9.7	33 000	3.59	.41	.56	.71
	565	1200	11.9	40 700	2.88	.40	.55	.69	11.3	38 400	3.13	.41	.56	.72	10.6	36 100	3.38	.41	.57	.75	9.9	33 700	3.62	.42	.59	.79

HS23-411-413 – C23-46(FC)

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)					35°C (95°F)					41°C (105°F)					46°C (115°F)								
			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		
			kW	Btuh		Dry Bulb			kW	Btuh		Dry Bulb			kW	Btuh		Dry Bulb			kW	Btuh		Dry Bulb		
24°C 75°F	27°C 80°F	29°C 85°F			24°C 75°F	27°C 80°F	29°C 85°F	24°C 75°F			27°C 80°F	29°C 85°F	24°C 75°F	27°C 80°F			29°C 85°F	24°C 75°F	27°C 80°F	29°C 85°F						
17.2°C (63°F)	380	800	9.8	33 500	2.65	.65	.80	.94	9.3	31 800	2.86	.66	.82	.97	8.8	30 000	3.07	.68	.85	.99	8.2	28 100	3.27	.70	.89	1.00
	470	1000	10.3	35 000	2.69	.69	.87	1.00	9.7	33 200	2.91	.72	.91	1.00	9.2	31 300	3.13	.74	.94	1.00	8.6	29 300	3.34	.77	.97	1.00
	565	1200	10.6	36 100	2.72	.75	.94	1.00	10.1	34 300	2.95	.78	.97	1.00	9.5	32 400	3.18	.81	.99	1.00	9.0	30 600	3.41	.85	1.00	1.00
19.4°C (67°F)	380	800	10.6	36 000	2.72	.51	.62	.75	10.0	34 100	2.95	.52	.64	.78	9.4	32 100	3.17	.53	.65	.81	8.8	30 100	3.38	.54	.67	.84
	470	1000	10.9	37 300	2.76	.53	.67	.83	10.3	35 300	2.99	.54	.68	.86	9.7	33 200	3.22	.56	.71	.90	9.1	31 000	3.44	.57	.74	.94
	565	1200	11.2	38 200	2.78	.56	.72	.91	10.6	36 100	3.02	.57	.75	.94	9.9	33 900	3.25	.59	.78	.97	9.3	31 700	3.48	.60	.82	1.00
21.7°C (71°F)	380	800	11.3	38 600	2.80	.39	.49	.60	10.7	36 600	3.04	.39	.50	.61	10.1	34 500	3.28	.39	.51	.63	9.5	32 300	3.51	.39	.52	.65
	470	1000	11.7	39 900	2.84	.39	.52	.64	11.0	37 700	3.08	.40	.53	.66	10.4	35 500	3.32	.40	.54	.68	9.7	33 200	3.56	.41	.56	.71
	565	1200	12.0	40 800	2.86	.40	.55	.69	11.3	38 600	3.11	.41	.56	.72	10.6	36 200	3.36	.41	.57	.75	9.9	33 800	3.60	.42	.59	.79

HS23-411-413 – 36HXO

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)					35°C (95°F)					41°C (105°F)					46°C (115°F)								
			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		
			kW	Btuh		Dry Bulb			kW	Btuh		Dry Bulb			kW	Btuh		Dry Bulb			kW	Btuh		Dry Bulb		
24°C 75°F	27°C 80°F	29°C 85°F			24°C 75°F	27°C 80°F	29°C 85°F	24°C 75°F			27°C 80°F	29°C 85°F	24°C 75°F	27°C 80°F			29°C 85°F	24°C 75°F	27°C 80°F	29°C 85°F						
17.2°C (63°F)	470	1000	10.2	34 700	2.67	.71	.88	1.00	9.6	32 800	2.89	.73	.90	1.00	9.1	30 900	3.11	.75	.94	1.00	8.5	28 900	3.32	.78	.97	1.00
	520	1100	10.3	35 300	2.69	.73	.91	1.00	9.8	33 400	2.91	.75	.94	1.00	9.2	31 500	3.13	.78	.97	1.00	8.6	29 500	3.36	.82	1.00	1.00
	565	1200	10.5	35 800	2.70	.76	.94	1.00	9.9	33 900	2.93	.78	.97	1.00	9.4	32 000	3.16	.81	.99	1.00	8.9	30 200	3.39	.85	1.00	1.00
19.4°C (67°F)	470	1000	10.8	37 000	2.74	.55	.68	.83	10.3	35 000	2.97	.56	.70	.86	9.6	32 900	3.20	.57	.72	.90	9.0	30 700	3.42	.59	.75	.94
	520	1100	11.0	37 600	2.76	.56	.70	.87	10.4	35 500	2.99	.57	.72	.90	9.8	33 300	3.22	.59	.75	.94	9.1	31 100	3.44	.60	.79	.97
	565	1200	11.1	38 000	2.77	.57	.73	.90	10.5	35 800	3.01	.59	.75	.94	9.9	33 700	3.24	.60	.78	.97	9.2	31 400	3.46	.62	.82	1.00
21.7°C (71°F)	470	1000	11.6	39 700	2.82	.40	.53	.66	11.0	37 500	3.07	.41	.54	.68	10.3	35 200	3.31	.41	.56	.70	9.6	32 900	3.55	.42	.57	.72
	520	1100	11.8	40 200	2.83	.41	.55	.68	11.1	37 900	3.08	.41	.56	.70	10.4	35 600	3.33	.42	.57	.72	9.7	33 200	3.57	.43	.59	.76
	565	1200	11.9	40 600	2.85	.41	.56	.70	11.2	38 300	3.10	.42	.57	.73	10.6	36 000	3.34	.43	.59	.76	9.8	33 500	3.59	.43	.61	.79

HS23-411-413 – CR18-41

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)					35°C (95°F)					41°C (105°F)					46°C (115°F)								
			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		
			kW	Btuh		Dry Bulb			kW	Btuh		Dry Bulb			kW	Btuh		Dry Bulb			kW	Btuh		Dry Bulb		
24°C 75°F	27°C 80°F	29°C 85°F			24°C 75°F	27°C 80°F	29°C 85°F	24°C 75°F			27°C 80°F	29°C 85°F	24°C 75°F	27°C 80°F			29°C 85°F	24°C 75°F	27°C 80°F	29°C 85°F						
17.2°C (63°F)	380	800	9.9	33 800	2.53	.64	.79	.94	9.4	32 000	2.74	.66	.82	.97	8.9	30 200	2.94	.67	.85	.99	8.3	28 300	3.13	.70	.88	1.00
	470	1000	10.3	35 300	2.57	.69	.87	1.00	9.8	33 400	2.79	.71	.90	1.00	9.2	31 500	3.00	.74	.93	1.00	8.6	29 500	3.20	.77	.97	1.00
	565	1200	10.7	36 500	2.61	.74	.94	1.00	10.1	34 500	2.83	.77	.97	1.00	9.6	32 600	3.05	.80	.99	1.00	9.0	30 700	3.27	.84	1.00	1.00
19.4°C (67°F)	380	800	10.7	36 400	2.60	.51	.62	.74	10.1	34 400	2.82	.51	.63	.77	9.5	32 400	3.04	.52	.65	.80	8.9	30 300	3.25	.53	.67	.84
	470	1000	11.0	37 700	2.64	.53	.66	.82	10.4	35 600	2.87	.54	.68	.85	9.8	33 500	3.09	.55	.71	.89	9.1	31 200	3.30	.57	.74	.93
	565	1200	11.3	38 700	2.67	.55	.71	.90	10.7	36 500	2.90	.57	.74	.93	10.1	34 300	3.12	.58	.77	.97	9.4	32 000	3.34	.60	.81	1.00
21.7°C (71°F)	380	800	11.4	39 000	2.68	.39	.49	.59	10.8	37 000	2.91	.39	.50	.61	10.2	34 800	3.14	.39	.51	.62	9.6	32 600	3.37	.39	.52	.64
	470	1000	11.8	40 400	2.72	.39	.51	.64	11.2	38 200	2.96	.40	.53	.65	10.5	35 900	3.19	.40	.54	.68	9.8	33 500	3.42	.41	.55	.71
	565	1200	12.1	41 300	2.75	.40	.54	.68	11.4																	

RATINGS – 50hz

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 – C23-51(FC)

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)					35°C (95°F)					41°C (105°F)					46°C (115°F)								
			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		
			kW	Btuh		Dry Bulb			kW	Btuh		Dry Bulb			kW	Btuh		Dry Bulb			kW	Btuh		Dry Bulb		
24°C 75°F	27°C 80°F	29°C 85°F			24°C 75°F	27°C 80°F	29°C 85°F	24°C 75°F			27°C 80°F	29°C 85°F	24°C 75°F	27°C 80°F			29°C 85°F	24°C 75°F	27°C 80°F	29°C 85°F			24°C 75°F	27°C 80°F	29°C 85°F	
17.2°C (63°F)	380	800	9.9	33 800	2.67	.64	.79	.94	9.4	32 000	2.89	.66	.82	.97	9.2	31 500	3.16	.74	.93	1.00	8.6	29 500	3.38	.77	.97	1.00
	470	1000	10.3	35 300	2.72	.69	.87	1.00	9.8	33 400	2.94	.71	.90	1.00	9.6	32 600	3.22	.80	.99	1.00	9.0	30 700	3.45	.84	1.00	1.00
	565	1200	10.7	36 500	2.75	.74	.94	1.00	10.1	34 500	2.99	.77	.97	1.00	9.6	32 600	3.22	.80	.99	1.00	9.0	30 700	3.45	.84	1.00	1.00
19.4°C (67°F)	380	800	10.7	36 400	2.75	.51	.62	.75	10.1	34 400	2.98	.51	.63	.77	9.5	32 400	3.21	.52	.65	.80	8.9	30 300	3.43	.53	.67	.84
	470	1000	11.0	37 700	2.79	.53	.66	.82	10.4	35 600	3.03	.54	.68	.85	9.8	33 500	3.26	.55	.71	.89	9.1	31 200	3.48	.57	.74	.93
	565	1200	11.3	38 700	2.82	.55	.71	.90	10.7	36 500	3.06	.57	.74	.93	10.1	34 300	3.30	.58	.77	.97	9.4	32 000	3.52	.60	.81	1.00
21.7°C (71°F)	380	800	11.4	39 000	2.83	.39	.49	.59	10.8	37 000	3.08	.39	.50	.61	10.2	34 800	3.32	.39	.51	.62	9.5	32 500	3.56	.39	.52	.64
	470	1000	11.8	40 400	2.87	.39	.51	.64	11.2	38 200	3.12	.40	.53	.65	10.5	35 900	3.37	.40	.54	.68	9.8	33 500	3.61	.41	.55	.71
	565	1200	12.1	41 300	2.90	.40	.54	.68	11.4	39 000	3.15	.41	.55	.71	10.7	36 600	3.40	.41	.57	.74	10.0	34 200	3.65	.42	.59	.78

HS23-411-413 – C26-41(FC) – CH22-41

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)					35°C (95°F)					41°C (105°F)					46°C (115°F)								
			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		
			kW	Btuh		Dry Bulb			kW	Btuh		Dry Bulb			kW	Btuh		Dry Bulb			kW	Btuh		Dry Bulb		
24°C 75°F	27°C 80°F	29°C 85°F			24°C 75°F	27°C 80°F	29°C 85°F	24°C 75°F			27°C 80°F	29°C 85°F	24°C 75°F	27°C 80°F			29°C 85°F	24°C 75°F	27°C 80°F	29°C 85°F			24°C 75°F	27°C 80°F	29°C 85°F	
17.2°C (63°F)	380	800	10.1	34 400	2.67	.65	.79	.94	9.6	32 600	2.89	.66	.82	.97	9.0	30 700	3.10	.68	.85	1.00	8.4	28 700	3.31	.70	.89	1.00
	470	1000	10.5	35 900	2.71	.69	.87	1.00	10.0	34 000	2.94	.71	.91	1.00	9.4	32 000	3.16	.74	.94	1.00	8.8	30 000	3.38	.78	.98	1.00
	565	1200	10.9	37 100	2.75	.75	.95	1.00	10.3	35 200	2.98	.78	.98	1.00	9.7	33 200	3.22	.81	1.00	1.00	9.2	31 300	3.45	.85	1.00	1.00
19.4°C (67°F)	380	800	10.8	36 900	2.74	.51	.62	.75	10.3	35 000	2.97	.52	.63	.77	9.6	32 900	3.20	.52	.65	.80	9.0	30 700	3.42	.54	.67	.84
	470	1000	11.2	38 300	2.79	.53	.67	.83	10.6	36 200	3.02	.54	.68	.86	10.0	34 000	3.25	.56	.71	.90	9.3	31 700	3.48	.57	.74	.94
	565	1200	11.5	39 300	2.81	.56	.72	.91	10.9	37 100	3.05	.57	.75	.94	10.2	34 800	3.29	.59	.78	.97	9.5	32 400	3.52	.60	.82	1.00
21.7°C (71°F)	380	800	11.6	39 700	2.82	.39	.49	.60	11.0	37 500	3.07	.39	.50	.61	10.3	35 300	3.31	.39	.51	.63	9.7	33 000	3.55	.39	.52	.65
	470	1000	12.0	41 000	2.87	.39	.52	.64	11.4	38 800	3.12	.40	.53	.66	10.7	36 400	3.36	.40	.54	.68	10.0	34 000	3.61	.41	.56	.71
	565	1200	12.3	42 000	2.89	.40	.55	.69	11.6	39 600	3.15	.41	.56	.72	10.9	37 100	3.40	.41	.58	.75	10.1	34 600	3.64	.42	.60	.79

HS23-411-413 – CR18-51

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)					35°C (95°F)					41°C (105°F)					46°C (115°F)								
			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		
			kW	Btuh		Dry Bulb			kW	Btuh		Dry Bulb			kW	Btuh		Dry Bulb			kW	Btuh		Dry Bulb		
24°C 75°F	27°C 80°F	29°C 85°F			24°C 75°F	27°C 80°F	29°C 85°F	24°C 75°F			27°C 80°F	29°C 85°F	24°C 75°F	27°C 80°F			29°C 85°F	24°C 75°F	27°C 80°F	29°C 85°F			24°C 75°F	27°C 80°F	29°C 85°F	
17.2°C (63°F)	380	800	10.2	34 700	2.60	.64	.79	.94	9.6	32 900	2.81	.66	.82	.97	9.1	31 000	3.02	.67	.85	.99	8.5	29 000	3.22	.70	.88	1.00
	470	1000	10.6	36 300	2.65	.69	.87	1.00	10.1	34 300	2.86	.71	.90	1.00	9.5	32 300	3.08	.74	.93	1.00	8.9	30 300	3.29	.77	.97	1.00
	565	1200	11.0	37 500	2.68	.74	.94	1.00	10.4	35 500	2.91	.77	.97	1.00	9.8	33 500	3.13	.80	.99	1.00	9.3	31 600	3.36	.84	1.00	1.00
19.4°C (67°F)	380	800	10.9	37 300	2.68	.51	.62	.74	10.4	35 400	2.90	.51	.63	.77	9.8	33 300	3.12	.52	.65	.80	9.1	31 100	3.34	.53	.67	.84
	470	1000	11.3	38 700	2.72	.53	.66	.82	10.7	36 600	2.95	.54	.68	.85	10.1	34 400	3.17	.55	.71	.89	9.4	32 100	3.39	.57	.74	.93
	565	1200	11.6	39 700	2.74	.55	.71	.90	11.0	37 500	2.98	.57	.74	.93	10.3	35 200	3.21	.58	.77	.97	9.6	32 800	3.43	.60	.81	1.00
21.7°C (71°F)	380	800	11.8	40 100	2.76	.39	.49	.59	11.1	38 000	2.99	.39	.50	.61	10.5	35 700	3.23	.39	.51	.62	9.8	33 400	3.46	.39	.52	.64
	470	1000	12.2	41 500	2.80	.39	.51	.64	11.5	39 200	3.04	.40	.53	.65	10.8	36 900	3.28	.40	.54	.68	10.1	34 400	3.52	.41	.55	.71
	565	1200	12.5	42 500	2.82	.40	.54	.68	11.8	40 100	3.07	.41	.55	.71	11.0	37 600	3.31	.41	.57	.74	10.3	35 100	3.55	.42	.59	.78

HS23-411-413 – CB18-41 – CBS18-41

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)					35°C (95°F)					41°C (105°F)					46°C (115°F)								
			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		
			kW	Btuh		Dry Bulb			kW	Btuh		Dry Bulb			kW	Btuh		Dry Bulb			kW	Btuh		Dry Bulb		
24°C 75°F	27°C 80°F	29°C 85°F			24°C 75°F	27°C 80°F	29°C 85°F	24°C 75°F			27°C 80°F	29°C 85°F	24°C 75°F	27°C 80°F			29°C 85°F	24°C 75°F	27°C 80°F	29°C 85°F			24°C 75°F	27°C 80°F	29°C 85°F	
17.2°C (63°F)	470	1000	10.5	35 700	2.71	.69	.86	1.00	9.9	33 900	2.93	.70	.89	1.00	9.3	31 900	3.15	.72	.93	1.00	8.8	30 000	3.36	.76	.97	1.00
	565	1200	10.8	36 900	2.74	.73	.94	1.00	10.3	35 000	2.97	.76	.97	1.00	9.7	33 100	3.20	.79	.99	1.00	9.1	31 200	3.43	.83	1.00	1.00
	660	1400	11.2	38 100	2.78	.79	.99	1.00	10.6	36 200	3.02	.82	1.00	1.00	10.1	34 300	3.26	.86	1.00	1.00	9.5	32 400	3.50	.90	1.00	1.00
19.4°C (67°F)	470	1000	11.2	38 100	2.78	.53	.66	.82	10.6	36 100	3.01	.54	.68	.85	9.9	33 900	3.24	.55	.70	.88	9.3	31 700	3.46	.57	.73	.93
	565	1200	11.5	39 100	2.81	.56	.71	.89	10.8	37 000	3.04	.57	.73	.93	10.2	34 700	3.28	.58	.76	.96	9.5	32 500	3.50	.60	.80	.99
	660	1400	11.7	39 900	2.83	.58	.76	.96	11.0	37 700	3.07	.60	.79	.99	10.4	35 400	3.31	.61	.83	1.00	9.7	33 100	3.54	.63	.87	1.00
21.7°C (71°F)	470	1000	12.0	40 800	2.86	.39	.52	.64	11.3	38 600	3.10	.40	.53	.66	10.7	36 400	3.35	.40	.54	.68	10.0	34 000	3.59	.41	.55	.70
	565	1200	12.3	41 800	2.89	.40	.54	.68	11.6	39 500	3.13	.41	.56													

RATINGS – 50hz

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 – C26-46(FC)

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)						35°C (95°F)						41°C (105°F)						46°C (115°F)					
			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		
			kW	Btuh		Dry Bulb			kW	Btuh		kW	Dry Bulb			kW		Btuh	kW	Dry Bulb				kW	Btuh	kW
24°C 75°F	27°C 80°F	29°C 85°F			24°C 75°F	27°C 80°F	29°C 85°F	24°C 75°F			27°C 80°F		29°C 85°F	24°C 75°F	27°C 80°F		29°C 85°F			24°C 75°F	27°C 80°F	29°C 85°F				
17.2°C (63°F)	380	800	10.2	34 700	2.67	.65	.79	.94	9.6	32 900	2.89	.66	.82	.97	9.1	30 900	3.10	.68	.85	1.00	8.5	28 900	3.31	.70	.89	1.00
	470	1000	10.6	36 200	2.71	.69	.87	1.00	10.1	34 300	2.94	.71	.91	1.00	9.5	32 300	3.16	.74	.94	1.00	8.9	30 200	3.38	.78	.98	1.00
	565	1200	11.0	37 500	2.75	.75	.95	1.00	10.4	35 500	2.98	.78	.98	1.00	9.8	33 500	3.22	.81	1.00	1.00	9.3	31 600	3.45	.85	1.00	1.00
19.4°C (67°F)	380	800	10.9	37 300	2.74	.51	.62	.75	10.3	35 300	2.97	.52	.63	.77	9.7	33 200	3.20	.52	.65	.80	9.1	31 000	3.42	.54	.67	.84
	470	1000	11.3	38 700	2.79	.53	.67	.83	10.7	36 500	3.02	.54	.68	.86	10.1	34 300	3.25	.56	.71	.90	9.4	32 000	3.48	.57	.74	.94
	565	1200	11.6	39 700	2.81	.56	.72	.91	11.0	37 400	3.05	.57	.75	.94	10.3	35 100	3.29	.59	.78	.97	9.6	32 700	3.52	.60	.82	1.00
21.7°C (71°F)	380	800	11.7	40 000	2.82	.39	.49	.60	11.1	37 900	3.07	.39	.50	.61	10.4	35 600	3.31	.39	.51	.63	9.8	33 300	3.55	.39	.52	.65
	470	1000	12.1	41 400	2.87	.39	.52	.64	11.5	39 100	3.12	.40	.53	.66	10.8	36 700	3.36	.40	.54	.68	10.1	34 300	3.61	.41	.56	.71
	565	1200	12.4	42 400	2.89	.40	.55	.69	11.7	40 000	3.15	.41	.56	.72	11.0	37 500	3.40	.41	.58	.75	10.2	34 900	3.64	.42	.60	.79

HS23-411-413 – C26-65(FC)

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)						35°C (95°F)						41°C (105°F)						46°C (115°F)					
			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		
			kW	Btuh		Dry Bulb			kW	Btuh		kW	Dry Bulb			kW		Btuh	kW	Dry Bulb				kW	Btuh	kW
24°C 75°F	27°C 80°F	29°C 85°F			24°C 75°F	27°C 80°F	29°C 85°F	24°C 75°F			27°C 80°F		29°C 85°F	24°C 75°F	27°C 80°F		29°C 85°F			24°C 75°F	27°C 80°F	29°C 85°F				
17.2°C (63°F)	380	800	10.6	36 000	2.76	.64	.78	.93	10.0	34 100	2.99	.65	.80	.96	9.4	32 000	3.21	.66	.83	.99	8.8	29 900	3.42	.69	.87	1.00
	470	1000	10.8	37 000	2.81	.68	.86	1.00	10.4	35 600	3.04	.70	.89	1.00	9.8	33 400	3.27	.73	.92	1.00	9.1	31 200	3.50	.76	.97	1.00
	565	1200	11.4	39 000	2.85	.73	.93	1.00	10.8	36 800	3.09	.76	.96	1.00	10.2	34 700	3.33	.79	.99	1.00	9.6	32 600	3.58	.83	1.00	1.00
19.4°C (67°F)	380	800	11.4	38 900	2.84	.50	.61	.73	10.8	36 700	3.09	.51	.62	.76	10.1	34 500	3.32	.52	.64	.79	9.4	32 200	3.55	.53	.66	.82
	470	1000	11.9	40 500	2.89	.52	.65	.81	11.2	38 200	3.14	.53	.67	.84	10.5	35 800	3.38	.55	.69	.88	9.8	33 300	3.62	.56	.73	.92
	565	1200	12.2	41 600	2.93	.55	.70	.89	11.5	39 200	3.18	.56	.73	.92	10.8	36 700	3.43	.58	.76	.96	10.0	34 200	3.66	.59	.80	1.00
21.7°C (71°F)	380	800	12.3	41 800	2.93	.38	.48	.58	11.6	39 600	3.19	.39	.49	.60	10.9	37 200	3.44	.39	.50	.61	10.2	34 700	3.69	.39	.51	.63
	470	1000	12.8	43 500	2.98	.39	.51	.63	12.0	41 000	3.25	.39	.52	.64	11.3	38 500	3.51	.40	.53	.66	10.5	35 900	3.76	.40	.55	.70
	565	1200	13.1	44 700	3.02	.40	.53	.67	12.3	42 100	3.28	.40	.55	.70	11.5	39 400	3.55	.41	.56	.73	10.8	36 600	3.80	.42	.58	.77

HS23-411-413 – C26-51(FC) – CH22-51

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)						35°C (95°F)						41°C (105°F)						46°C (115°F)					
			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		
			kW	Btuh		Dry Bulb			kW	Btuh		kW	Dry Bulb			kW		Btuh	kW	Dry Bulb				kW	Btuh	kW
24°C 75°F	27°C 80°F	29°C 85°F			24°C 75°F	27°C 80°F	29°C 85°F	24°C 75°F			27°C 80°F		29°C 85°F	24°C 75°F	27°C 80°F		29°C 85°F			24°C 75°F	27°C 80°F	29°C 85°F				
17.2°C (63°F)	380	800	10.5	35 800	2.72	.66	.80	.95	9.9	33 900	2.94	.67	.83	.98	9.3	31 900	3.16	.69	.86	1.00	8.7	29 800	3.37	.71	.89	1.00
	470	1000	11.0	37 400	2.76	.71	.88	1.00	10.4	35 400	3.00	.73	.91	1.00	9.8	33 300	3.22	.76	.95	1.00	9.1	31 100	3.44	.79	.98	1.00
	565	1200	11.3	38 700	2.80	.76	.95	1.00	10.8	36 700	3.04	.79	.98	1.00	10.1	34 600	3.28	.82	1.00	1.00	9.6	32 600	3.53	.86	1.00	1.00
19.4°C (67°F)	380	800	11.3	38 500	2.79	.52	.63	.76	10.7	36 400	3.03	.53	.65	.78	10.0	34 200	3.26	.54	.66	.81	9.3	31 900	3.49	.55	.69	.85
	470	1000	11.7	40 000	2.84	.54	.68	.84	11.0	37 700	3.08	.55	.70	.87	10.4	35 400	3.32	.57	.73	.91	9.7	33 000	3.55	.58	.76	.95
	565	1200	12.0	41 000	2.87	.57	.73	.91	11.3	38 700	3.12	.58	.76	.95	10.6	36 200	3.36	.60	.79	.98	9.9	33 700	3.59	.62	.83	1.00
21.7°C (71°F)	380	800	12.1	41 300	2.88	.39	.50	.61	11.5	39 100	3.13	.40	.51	.62	10.8	36 700	3.38	.40	.52	.64	10.1	34 300	3.62	.40	.53	.66
	470	1000	12.5	42 800	2.92	.40	.53	.65	11.8	40 400	3.18	.41	.54	.67	11.1	37 900	3.43	.41	.55	.70	10.3	35 300	3.68	.42	.57	.73
	565	1200	12.8	43 800	2.95	.41	.56	.70	12.1	41 300	3.21	.42	.57	.73	11.3	38 700	3.47	.42	.59	.77	10.6	36 000	3.72	.43	.61	.80

HS23-411-413 – CB18-51 – CBS18-51

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)						35°C (95°F)						41°C (105°F)						46°C (115°F)					
			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		
			kW	Btuh		Dry Bulb			kW	Btuh		kW	Dry Bulb			kW		Btuh	kW	Dry Bulb				kW	Btuh	kW
24°C 75°F	27°C 80°F	29°C 85°F			24°C 75°F	27°C 80°F	29°C 85°F	24°C 75°F			27°C 80°F		29°C 85°F	24°C 75°F	27°C 80°F		29°C 85°F			24°C 75°F	27°C 80°F	29°C 85°F				
17.2°C (63°F)	470	1000	10.8	36 800	2.75	.69	.86	1.00	10.2	34 800	2.97	.70	.89	1.00	9.6	32 700	3.20	.72	.93	1.00	9.0	30 700	3.42	.76	.97	1.00
	565	1200	11.2	38 100	2.78	.73	.94	1.00	10.6	36 100	3.02	.76	.97	1.00	10.0	34 000	3.26	.79	1.00	1.00	9.4	32 100	3.50	.84	1.00	1.00
	660	1400	11.5	39 300	2.82	.79	.99	1.00	10.9	37 300	3.07	.82	1.00	1.00	10.4	35 400	3.32	.86	1.00	1.00	9.8	33 300	3.56	.91	1.00	1.00
19.4°C (67°F)	470	1000	11.5	39 300	2.82	.53	.66	.81	10.9	37 200	3.06	.54	.68	.85	10.2	34 900	3.29	.55	.70	.89	9.5	32 500	3.52	.57	.73	.93
	565	1200	11.8	40 400	2.85	.56	.71	.90	11.2	38 100	3.10	.57	.73	.93	10.5	35 700	3.33	.58	.76	.97	9.8	33 300	3.57	.60	.80	1.00
	660	1400	12.1	41 200	2.87	.58	.76	.96	11.4	38 900	3.12	.60	.79	.99	10.7	36 400	3.37	.62	.83	1.00	9.9	33 900	3.60	.64	.88	1.00
21.7°C (71°F)	470	1000	12.4	42 200	2.90	.39	.52	.64	11.7	39 800	3.16	.40	.53	.66	11.0	37 400	3.41	.40	.54	.68	10.2	34 800	3.65	.41	.55	.70
	565	1200	12.7	43 200	2.93	.40	.54	.68	11.9	40 700	3.19	.41	.56	.71	11.2	38 200	3.45	.41	.57	.73	10.4	35 500	3.69	.42	.59	.77
	660	1400	12.9	43																						

RATINGS – 50hz

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

HS23-513 – C23-46(FC)

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)					35°C (95°F)					41°C (105°F)					46°C (115°F)								
			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		
						Dry Bulb						Dry Bulb						Dry Bulb						Dry Bulb		
L/s	cfm	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	
17.2°C (63°F)	520	1100	11.6	39 500	3.49	.64	.80	.94	11.0	37 600	3.74	.65	.82	.97	10.4	35 600	3.99	.67	.85	.99	9.8	33 500	4.24	.70	.88	1.00
	615	1300	11.9	40 700	3.53	.67	.85	.99	11.3	38 700	3.79	.69	.88	1.00	10.7	36 600	4.05	.72	.91	1.00	10.1	34 500	4.30	.75	.94	1.00
	710	1500	12.2	41 700	3.56	.71	.90	1.00	11.6	39 600	3.83	.74	.93	1.00	11.0	37 600	4.09	.76	.96	1.00	10.4	35 500	4.36	.80	.99	1.00
19.4°C (67°F)	520	1100	12.4	42 200	3.58	.51	.62	.75	11.8	40 200	3.85	.51	.63	.77	11.1	38 000	4.11	.52	.64	.80	10.5	35 700	4.37	.53	.66	.84
	615	1300	12.7	43 300	3.61	.52	.65	.81	12.0	41 100	3.88	.53	.66	.84	11.4	38 900	4.15	.54	.69	.87	10.7	36 600	4.42	.55	.72	.90
	710	1500	12.9	44 100	3.64	.54	.68	.86	12.3	41 900	3.92	.55	.71	.89	11.6	39 600	4.19	.56	.74	.92	10.9	37 200	4.46	.58	.77	.96
21.7°C (71°F)	520	1100	13.2	45 200	3.67	.38	.49	.59	12.6	43 000	3.96	.38	.49	.61	12.0	40 800	4.24	.39	.50	.62	11.3	38 400	4.52	.39	.51	.64
	615	1300	13.5	46 200	3.70	.39	.51	.63	12.9	44 000	3.99	.39	.52	.64	12.2	41 700	4.28	.39	.53	.66	11.5	39 200	4.56	.40	.54	.68
	710	1500	13.8	47 100	3.73	.39	.53	.66	13.1	44 800	4.02	.40	.54	.68	12.4	42 300	4.31	.40	.55	.70	11.7	39 800	4.60	.41	.56	.74

HS23-513 – CH23-51

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)					35°C (95°F)					41°C (105°F)					46°C (115°F)								
			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		
						Dry Bulb						Dry Bulb						Dry Bulb						Dry Bulb		
L/s	cfm	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	
17.2°C (63°F)	520	1100	12.1	41 300	3.61	.66	.80	.94	11.5	39 300	3.87	.67	.83	.97	10.9	37 200	4.13	.68	.85	.99	10.3	35 000	4.38	.71	.89	1.00
	615	1300	12.5	42 600	3.65	.69	.86	.99	11.9	40 500	3.92	.71	.88	1.00	11.3	38 400	4.18	.73	.91	1.00	10.6	36 100	4.45	.76	.95	1.00
	710	1500	12.8	43 700	3.68	.73	.91	1.00	12.2	41 500	3.96	.75	.93	1.00	11.5	39 400	4.23	.77	.96	1.00	10.9	37 100	4.51	.81	.99	1.00
19.4°C (67°F)	520	1100	13.0	44 200	3.70	.52	.63	.76	12.3	42 100	3.98	.52	.64	.78	11.7	39 800	4.25	.53	.66	.81	11.0	37 400	4.52	.54	.68	.84
	615	1300	13.3	45 400	3.73	.53	.66	.82	12.6	43 100	4.02	.54	.68	.84	12.0	40 800	4.30	.55	.70	.87	11.2	38 300	4.57	.56	.73	.91
	710	1500	13.6	46 300	3.76	.55	.70	.87	12.9	43 900	4.05	.56	.72	.90	12.2	41 500	4.33	.57	.75	.93	11.4	39 000	4.61	.59	.78	.96
21.7°C (71°F)	520	1100	13.9	47 400	3.79	.39	.50	.61	13.2	45 100	4.09	.39	.50	.62	12.5	42 700	4.39	.39	.51	.63	11.8	40 200	4.68	.40	.52	.65
	615	1300	14.2	48 500	3.83	.39	.52	.64	13.5	46 200	4.13	.40	.53	.65	12.8	43 700	4.43	.40	.54	.67	12.0	41 100	4.72	.41	.55	.70
	710	1500	14.5	49 400	3.85	.40	.54	.67	13.8	47 000	4.16	.41	.55	.69	13.0	44 400	4.47	.41	.56	.72	12.2	41 700	4.76	.42	.58	.75

HS23-513 – C23-51(FC)

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)					35°C (95°F)					41°C (105°F)					46°C (115°F)								
			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		
						Dry Bulb						Dry Bulb						Dry Bulb						Dry Bulb		
L/s	cfm	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	
17.2°C (63°F)	520	1100	12.3	42 000	3.63	.65	.80	.94	11.7	40 000	3.89	.66	.82	.96	11.1	37 800	4.16	.68	.85	.99	10.4	35 500	4.41	.70	.88	1.00
	615	1300	12.7	43 400	3.67	.68	.85	.99	12.1	41 200	3.94	.70	.88	1.00	11.4	39 000	4.21	.72	.91	1.00	10.7	36 600	4.48	.75	.94	1.00
	710	1500	13.0	44 400	3.70	.72	.90	1.00	12.4	42 200	3.98	.74	.93	1.00	11.7	40 000	4.26	.77	.96	1.00	11.0	37 700	4.54	.80	.98	1.00
19.4°C (67°F)	525	1100	13.2	45 100	3.72	.51	.63	.75	12.6	42 900	4.01	.52	.64	.78	11.9	40 500	4.29	.53	.65	.80	11.1	38 000	4.56	.54	.67	.83
	610	1300	13.6	46 300	3.76	.53	.66	.81	12.9	44 000	4.05	.54	.67	.83	12.2	41 500	4.33	.55	.69	.86	11.4	39 000	4.61	.56	.72	.90
	715	1500	13.8	47 200	3.79	.55	.69	.86	13.1	44 800	4.08	.56	.71	.89	12.4	42 300	4.37	.57	.74	.92	11.6	39 700	4.65	.58	.77	.95
21.7°C (71°F)	520	1100	14.2	48 300	3.82	.39	.49	.60	13.5	45 900	4.13	.39	.50	.61	12.7	43 500	4.42	.39	.51	.63	12.0	40 900	4.72	.40	.52	.65
	615	1300	14.5	49 500	3.86	.39	.51	.63	13.8	47 100	4.17	.40	.52	.65	13.0	44 500	4.47	.40	.53	.66	12.3	41 900	4.77	.40	.55	.69
	710	1500	14.8	50 400	3.89	.40	.53	.66	14.0	47 900	4.20	.40	.54	.68	13.3	45 300	4.51	.41	.55	.71	12.5	42 500	4.80	.41	.57	.74

HS23-513 – C23-51/65(FC)

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)					35°C (95°F)					41°C (105°F)					46°C (115°F)								
			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		
						Dry Bulb						Dry Bulb						Dry Bulb						Dry Bulb		
L/s	cfm	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	
17.2°C (63°F)	520	1100	12.5	42 700	3.58	.67	.81	.94	11.9	40 600	3.85	.68	.83	.96	11.2	38 300	4.11	.70	.86	.99	10.6	36 000	4.36	.72	.89	1.00
	615	1300	12.9	44 100	3.62	.70	.86	.99	12.3	41 800	3.90	.72	.88	1.00	11.6	39 500	4.16	.74	.91	1.00	10.9	37 100	4.43	.77	.94	1.00
	710	1500	13.2	45 200	3.66	.74	.91	1.00	12.6	42 900	3.94	.76	.93	1.00	11.9	40 600	4.21	.78	.96	1.00	11.2	38 200	4.49	.81	.99	1.00
19.4°C (67°F)	525	1100	13.5	45 900	3.67	.53	.64	.77	12.7	43 500	3.96	.53	.66	.79	12.0	41 100	4.24	.54	.67	.81	11.3	38 600	4.51	.55	.69	.84
	610	1300	13.8	47 100	3.72	.54	.67	.82	13.1	44 700	4.00	.55	.69	.84	12.4	42 200	4.29	.56	.71	.87	11.6	39 500	4.57	.58	.74	.91
	715	1500	14.1	48 100	3.75	.56	.71	.87	13.4	45 600	4.04	.57	.73	.90	12.6	43 000	4.33	.59	.75	.93	11.8	40 300	4.61	.60	.78	.96
21.7°C (71°F)	520	1100	14.4	49 100	3.78	.40	.51	.62	13.7	46 700	4.08	.40	.52	.63	13.0	44 200	4.38	.41	.53	.65	12.2	41 500	4.67	.41	.54	.66
	615	1300	14.8	50 400	3.81	.41	.53	.65	14.0	47 900	4.12	.41	.54	.67	13.3	45 300	4.43	.41	.55	.68	12.5	42 500	4.72	.42	.56	.71
	710	1500	15.1	51 400	3.84	.41	.55	.68	14.3	48 800	4.16	.42	.56	.70	13.5	46 100	4.46	.42	.57	.73	12.7	43 200	4.76	.43	.59	

RATINGS – 50hz

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

HS23-513 – C26-46(FC)

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)			35°C (95°F)			41°C (105°F)			46°C (115°F)														
			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)										
			kW	Btuh		Dry Bulb		kW	Btuh		Dry Bulb		kW	Btuh		Dry Bulb		kW	Btuh	Dry Bulb						
24°C 75°F	27°C 80°F	29°C 85°F			24°C 75°F	27°C 80°F	29°C 85°F			24°C 75°F	27°C 80°F	29°C 85°F			24°C 75°F	27°C 80°F	29°C 85°F									
17.2°C (63°F)	520	1100	12.6	43 000	3.60	.64	.79	.94	12.0	40 900	3.87	.65	.81	.97	11.3	38 600	4.14	.67	.84	.99	10.6	36 200	4.40	.69	.88	1.00
	615	1300	13.0	44 400	3.65	.67	.85	.99	12.4	42 200	3.93	.69	.88	1.00	11.7	39 900	4.20	.72	.91	1.00	11.0	37 400	4.47	.75	.95	1.00
	710	1500	13.4	45 600	3.68	.72	.91	1.00	12.7	43 300	3.97	.74	.94	1.00	12.0	41 000	4.25	.77	.97	1.00	11.3	38 600	4.53	.80	1.00	1.00
19.4°C (67°F)	520	1100	13.5	46 100	3.70	.50	.62	.75	12.8	43 800	3.98	.51	.63	.77	12.1	41 300	4.27	.52	.64	.80	11.4	38 800	4.54	.53	.66	.83
	615	1300	13.9	47 400	3.74	.52	.65	.81	13.2	44 900	4.03	.53	.66	.84	12.4	42 400	4.32	.54	.69	.87	11.6	39 700	4.60	.55	.72	.91
	710	1500	14.2	48 400	3.77	.54	.69	.87	13.4	45 800	4.06	.55	.71	.90	12.7	43 200	4.36	.56	.74	.93	11.9	40 500	4.64	.58	.77	.97
21.7°C (71°F)	520	1100	14.5	49 400	3.80	.38	.49	.59	13.7	46 900	4.10	.38	.49	.60	13.0	44 400	4.41	.39	.50	.62	12.2	41 700	4.70	.39	.51	.64
	615	1300	14.9	50 700	3.83	.39	.51	.62	14.1	48 100	4.15	.39	.51	.64	13.3	45 400	4.45	.39	.53	.66	12.5	42 600	4.75	.40	.54	.68
	710	1500	15.1	51 600	3.86	.39	.53	.66	14.4	49 000	4.18	.40	.54	.68	13.5	46 200	4.49	.40	.55	.71	12.7	43 300	4.79	.41	.57	.74

HS23-513 – CH22-51

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)			35°C (95°F)			41°C (105°F)			46°C (115°F)														
			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)										
			kW	Btuh		Dry Bulb		kW	Btuh		Dry Bulb		kW	Btuh		Dry Bulb		kW	Btuh	Dry Bulb						
24°C 75°F	27°C 80°F	29°C 85°F			24°C 75°F	27°C 80°F	29°C 85°F			24°C 75°F	27°C 80°F	29°C 85°F			24°C 75°F	27°C 80°F	29°C 85°F									
17.2°C (63°F)	520	1100	12.7	43 300	3.60	.67	.81	.95	12.0	41 100	3.87	.69	.84	.97	11.4	38 900	4.13	.70	.86	.99	10.7	36 500	4.39	.73	.89	1.00
	615	1300	13.1	44 800	3.64	.71	.87	.99	12.5	42 500	3.92	.73	.89	1.00	11.8	40 100	4.19	.75	.92	1.00	11.0	37 700	4.46	.77	.95	1.00
	710	1500	13.5	45 900	3.68	.75	.92	1.00	12.8	43 600	3.96	.77	.94	1.00	12.1	41 200	4.24	.79	.97	1.00	11.4	38 800	4.52	.82	.99	1.00
19.4°C (67°F)	520	1100	13.6	46 500	3.69	.53	.65	.77	12.9	44 100	3.98	.54	.66	.80	12.2	41 600	4.26	.55	.68	.82	11.4	39 000	4.54	.56	.70	.85
	615	1300	14.0	47 700	3.73	.55	.68	.83	13.3	45 300	4.03	.56	.70	.85	12.5	42 700	4.31	.57	.72	.88	11.7	40 000	4.59	.58	.75	.92
	710	1500	14.3	48 700	3.76	.57	.72	.88	13.5	46 200	4.06	.58	.74	.91	12.7	43 500	4.35	.59	.76	.94	12.0	40 800	4.63	.61	.79	.97
21.7°C (71°F)	520	1100	14.6	49 800	3.79	.40	.51	.62	13.9	47 300	4.10	.40	.52	.63	13.1	44 700	4.40	.41	.53	.65	12.3	42 000	4.70	.41	.54	.67
	615	1300	15.0	51 100	3.83	.41	.53	.66	14.2	48 500	4.14	.41	.54	.67	13.4	45 800	4.45	.41	.55	.69	12.6	43 000	4.75	.42	.57	.72
	710	1500	15.3	52 100	3.86	.41	.55	.69	14.5	49 400	4.18	.42	.56	.71	13.7	46 600	4.49	.42	.58	.74	12.8	43 700	4.79	.43	.60	.77

HS23-513 – CH23-65

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)			35°C (95°F)			41°C (105°F)			46°C (115°F)														
			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)										
			kW	Btuh		Dry Bulb		kW	Btuh		Dry Bulb		kW	Btuh		Dry Bulb		kW	Btuh	Dry Bulb						
24°C 75°F	27°C 80°F	29°C 85°F			24°C 75°F	27°C 80°F	29°C 85°F			24°C 75°F	27°C 80°F	29°C 85°F			24°C 75°F	27°C 80°F	29°C 85°F									
17.2°C (63°F)	520	1100	12.8	43 600	3.61	.67	.81	.95	12.1	41 400	3.88	.69	.84	.97	11.5	39 100	4.15	.70	.86	.99	10.8	36 700	4.41	.73	.89	1.00
	615	1300	13.2	45 100	3.65	.71	.87	.99	12.5	42 800	3.93	.73	.89	1.00	11.8	40 400	4.21	.75	.92	1.00	11.1	37 900	4.48	.77	.95	1.00
	710	1500	13.6	46 300	3.69	.74	.92	1.00	12.9	43 900	3.98	.77	.94	1.00	12.2	41 500	4.26	.79	.97	1.00	11.5	39 100	4.54	.82	.99	1.00
19.4°C (67°F)	520	1100	13.7	46 800	3.71	.53	.65	.77	13.0	44 400	3.99	.54	.66	.79	12.3	41 900	4.28	.55	.68	.82	11.5	39 400	4.55	.56	.70	.85
	615	1300	14.1	48 100	3.75	.55	.68	.83	13.4	45 600	4.04	.56	.70	.85	12.6	43 000	4.33	.57	.72	.88	11.8	40 300	4.61	.58	.75	.92
	710	1500	14.4	49 100	3.77	.57	.72	.88	13.6	46 500	4.07	.58	.74	.91	12.9	43 900	4.37	.59	.76	.94	12.0	41 100	4.65	.61	.79	.97
21.7°C (71°F)	520	1100	14.7	50 200	3.81	.40	.51	.62	14.0	47 700	4.11	.40	.52	.63	13.2	45 100	4.42	.41	.53	.65	12.4	42 300	4.71	.41	.54	.67
	615	1300	15.1	51 500	3.84	.41	.53	.66	14.3	48 900	4.16	.41	.54	.67	13.5	46 200	4.47	.41	.55	.69	12.7	43 300	4.76	.42	.57	.72
	710	1500	15.4	52 500	3.87	.41	.55	.69	14.6	49 800	4.19	.42	.56	.71	13.8	47 000	4.50	.42	.58	.74	12.9	44 000	4.80	.43	.59	.77

HS23-513 – CR18-51

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)			35°C (95°F)			41°C (105°F)			46°C (115°F)														
			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)										
			kW	Btuh		Dry Bulb		kW	Btuh		Dry Bulb		kW	Btuh		Dry Bulb		kW	Btuh	Dry Bulb						
24°C 75°F	27°C 80°F	29°C 85°F			24°C 75°F	27°C 80°F	29°C 85°F			24°C 75°F	27°C 80°F	29°C 85°F			24°C 75°F	27°C 80°F	29°C 85°F									
17.2°C (63°F)	520	1100	13.0	44 200	3.63	.66	.80	.93	12.3	42 000	3.90	.68	.82	.96	11.6	39 600	4.17	.69	.84	.98	10.9	37 100	4.43	.71	.88	1.00
	615	1300	13.4	45 700	3.68	.69	.85	.98	12.7	43 400	3.96	.71	.87	1.00	12.0	40 900	4.23	.73	.90	1.00	11.3	38 400	4.50	.76	.93	1.00
	710	1500	13.8	47 000	3.72	.73	.89	1.00	13.0	44 500	4.00	.75	.92	1.00	12.3	42 000	4.28	.77	.95	1.00	11.6	39 500	4.56	.80	.98	1.00
19.4°C (67°F)	520	1100	14.0	47 700	3.74	.52	.64	.76	13.2	45 200	4.03	.53	.65	.78	12.5	42 700	4.31	.54	.66	.80	11.8	40 100	4.59	.55	.68	.83
	615	1300	14.4	49 100	3.78	.54	.66	.81	13.7	46 600	4.08	.55	.68	.83	12.9	43 900	4.37	.56	.70	.86	12.1	41 200	4.65	.57	.73	.89
	710	1500	14.7	50 200	3.81	.56	.70	.86	14.0	47 600	4.11	.57	.72	.88	13.1	44 800	4.41	.58	.74	.91	12.3	42 000	4.70	.59	.77	.95
21.7°C (71°F)	520	1100	15.0	51 200	3.84	.40	.50	.61	14.3	48 700	4.15	.40	.51	.62	13.5	46 000	4.46	.40	.52	.64	12.7	43 200	4.76	.41	.53	.65
	615	1300	15.5	52 800	3.88	.40	.52	.64	14.7	50 100	4.20	.41	.53	.65	13.9	47 300	4.51	.41	.54	.67	13.0	44 300	4.82	.42	.55	.70
	710	1500	15.8	53 900	3.92	.41	.54	.67	15.0	51 100	4.24	.41	.55	.69	14.1	48 200	4.56	.42	.56	.71	13.2	45 200	4.86	.42	.58	.74

RATINGS – 50hz

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

HS23-513 – CR18-65

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)					35°C (95°F)					41°C (105°F)					46°C (115°F)								
			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		
						Dry Bulb						Dry Bulb						Dry Bulb						Dry Bulb		
L/s	cfm	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	
17.2°C (63°F)	520	1100	13.2	45 000	3.54	.66	.80	.93	12.5	42 800	3.80	.68	.82	.96	11.8	40 400	4.06	.69	.84	.98	11.1	37 900	4.31	.71	.88	1.00
	615	1300	13.7	46 600	3.58	.69	.85	.98	13.0	44 200	3.85	.71	.87	1.00	12.2	41 700	4.12	.73	.90	1.00	11.5	39 100	4.38	.76	.93	1.00
	710	1500	14.0	47 900	3.62	.73	.89	1.00	13.3	45 400	3.90	.75	.92	1.00	12.5	42 800	4.17	.77	.95	1.00	11.8	40 300	4.44	.80	.98	1.00
19.4°C (67°F)	520	1100	14.2	48 600	3.64	.52	.64	.76	13.5	46 100	3.92	.53	.65	.78	12.7	43 500	4.20	.54	.66	.80	12.0	40 800	4.47	.55	.68	.83
	615	1300	14.7	50 100	3.68	.54	.66	.81	13.9	47 500	3.97	.55	.68	.83	13.1	44 800	4.25	.56	.70	.86	12.3	42 000	4.53	.57	.73	.89
	710	1500	15.0	51 200	3.71	.56	.70	.86	14.2	48 500	4.01	.57	.72	.88	13.4	45 700	4.29	.58	.74	.91	12.5	42 800	4.57	.59	.77	.95
21.7°C (71°F)	520	1100	15.3	52 200	3.74	.40	.50	.61	14.5	49 600	4.04	.40	.51	.62	13.7	46 900	4.34	.40	.52	.64	12.9	44 100	4.63	.41	.53	.65
	615	1300	15.8	53 800	3.78	.40	.52	.64	14.9	51 000	4.09	.41	.53	.65	14.1	48 200	4.40	.41	.54	.67	13.2	45 200	4.69	.42	.55	.70
	710	1500	16.1	55 000	3.81	.41	.54	.67	15.3	52 100	4.13	.41	.55	.69	14.4	49 100	4.44	.42	.56	.71	13.5	46 100	4.73	.42	.58	.74

HS23-513 – CB18-51 – CBS18-51

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)					35°C (95°F)					41°C (105°F)					46°C (115°F)								
			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		
						Dry Bulb						Dry Bulb						Dry Bulb						Dry Bulb		
L/s	cfm	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	
17.2°C (63°F)	660	1400	13.3	45 400	3.67	.71	.88	1.00	12.6	43 100	3.95	.73	.91	1.00	11.9	40 700	4.22	.75	.94	1.00	11.2	38 300	4.49	.78	.97	1.00
	755	1600	13.6	46 500	3.70	.74	.93	1.00	13.0	44 200	3.99	.77	.96	1.00	12.3	41 800	4.27	.80	.98	1.00	11.5	39 400	4.56	.83	1.00	1.00
	850	1800	13.9	47 500	3.73	.78	.97	1.00	13.2	45 200	4.03	.81	.99	1.00	12.6	42 900	4.32	.84	1.00	1.00	11.9	40 600	4.62	.88	1.00	1.00
19.4°C (67°F)	660	1400	14.2	48 300	3.76	.55	.69	.84	13.4	45 800	4.05	.56	.70	.87	12.7	43 200	4.34	.57	.72	.90	11.9	40 500	4.62	.59	.75	.93
	755	1600	14.4	49 200	3.78	.57	.72	.89	13.7	46 700	4.08	.58	.74	.92	12.9	44 000	4.37	.59	.77	.95	12.1	41 300	4.66	.61	.80	.98
	850	1800	14.7	50 000	3.81	.59	.76	.94	13.9	47 400	4.11	.60	.78	.96	13.1	44 700	4.40	.62	.81	.99	12.3	41 900	4.69	.64	.85	1.00
21.7°C (71°F)	660	1400	15.2	51 700	3.85	.41	.53	.66	14.4	49 100	4.17	.41	.54	.68	13.6	46 300	4.47	.41	.56	.70	12.7	43 500	4.77	.42	.57	.72
	755	1600	15.4	52 600	3.88	.41	.56	.70	14.6	49 900	4.20	.42	.57	.72	13.8	47 100	4.51	.42	.58	.74	12.9	44 100	4.81	.43	.60	.77
	850	1800	15.6	53 300	3.90	.42	.58	.73	14.8	50 600	4.22	.43	.59	.76	14.0	47 700	4.53	.43	.61	.79	13.1	44 700	4.84	.44	.63	.82

HS23-513 – C26-65(FC)EAP – CH22-65

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)					35°C (95°F)					41°C (105°F)					46°C (115°F)								
			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		
						Dry Bulb						Dry Bulb						Dry Bulb						Dry Bulb		
L/s	cfm	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	
17.2°C (63°F)	520	1100	13.1	44 800	3.66	.66	.80	.94	12.5	42 500	3.94	.67	.82	.97	11.8	40 100	4.21	.69	.85	.99	11.0	37 600	4.47	.71	.89	1.00
	615	1300	13.6	46 400	3.71	.69	.86	.99	12.9	43 900	3.99	.71	.88	1.00	12.1	41 400	4.27	.74	.91	1.00	11.4	38 800	4.55	.76	.95	1.00
	710	1500	14.0	47 600	3.74	.73	.91	1.00	13.2	45 100	4.04	.76	.94	1.00	12.5	42 600	4.33	.78	.97	1.00	11.7	40 000	4.61	.81	1.00	1.00
19.4°C (67°F)	520	1100	14.1	48 200	3.76	.52	.64	.76	13.4	45 700	4.06	.53	.65	.78	12.6	43 100	4.35	.54	.66	.81	11.8	40 300	4.63	.55	.68	.84
	615	1300	14.5	49 600	3.80	.54	.67	.81	13.8	47 000	4.11	.55	.68	.84	13.0	44 300	4.40	.56	.71	.87	12.1	41 400	4.69	.57	.73	.91
	710	1500	14.9	50 700	3.84	.56	.70	.87	14.1	48 000	4.14	.57	.73	.90	13.2	45 200	4.44	.58	.75	.93	12.4	42 300	4.73	.60	.78	.97
21.7°C (71°F)	520	1100	15.2	51 700	3.87	.40	.50	.61	14.4	49 100	4.18	.40	.51	.62	13.6	46 400	4.49	.40	.52	.64	12.7	43 500	4.80	.40	.53	.66
	615	1300	15.6	53 200	3.91	.40	.52	.64	14.8	50 400	4.23	.41	.53	.66	13.9	47 500	4.55	.41	.54	.68	13.0	44 500	4.85	.41	.56	.70
	710	1500	15.9	54 300	3.94	.41	.54	.68	15.1	51 400	4.27	.41	.55	.70	14.2	48 400	4.59	.42	.57	.72	13.3	45 300	4.89	.42	.59	.75

HS23-513 – CB18-65 – CBS18-65

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)					35°C (95°F)					41°C (105°F)					46°C (115°F)								
			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		
						Dry Bulb						Dry Bulb						Dry Bulb						Dry Bulb		
L/s	cfm	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	
17.2°C (63°F)	660	1400	13.5	46 100	3.77	.73	.89	1.00	12.8	43 700	4.06	.75	.92	1.00	12.1	41 300	4.34	.77	.95	1.00	11.4	38 800	4.62	.80	.98	1.00
	755	1600	13.8	47 200	3.80	.76	.94	1.00	13.1	44 800	4.10	.79	.96	1.00	12.4	42 400	4.39	.81	.99	1.00	11.7	40 000	4.69	.85	1.00	1.00
	850	1800	14.2	48 300	3.83	.80	.98	1.00	13.5	45 900	4.14	.83	1.00	1.00	12.8	43 600	4.45	.86	1.00	1.00	12.1	41 300	4.76	.89	1.00	1.00
19.4°C (67°F)	660	1400	14.4	49 000	3.86	.56	.70	.85	13.6	46 500	4.16	.57	.72	.88	12.8	43 800	4.46	.59	.74	.91	12.0	41 100	4.75	.60	.77	.94
	755	1600	14.7	50 000	3.89	.58	.74	.90	13.9	47 400	4.20	.60	.76	.93	13.1	44 600	4.50	.61	.79	.96	12.3	41 800	4.79	.63	.82	.99
	850	1800	14.9	50 800	3.91	.60	.77	.95	14.1	48 100	4.22	.62	.80	.97	13.3	45 300	4.53	.63	.83	.99	12.5	42 500	4.82	.65	.86	1.00
21.7°C (71°F)	660	1400	15.4	52 500	3.96	.41	.55	.68	14.6	49 800	4.28	.42	.56	.70	13.8	47 000	4.60	.42	.57	.72	12.9	44 100	4.91	.43	.59	.74
	755	1600	15.6	53 400	3.99	.42	.57	.72	14.8	50 600	4.31	.43	.58	.74	14.0	47 700	4.63	.43	.60	.76	13.1	44 700	4.94	.44	.61	.79
	850	1800	15.9	54 100	4.01	.43	.59	.75	15.0	51 300	4.34	.44	.61	.77	14.2	48 300	4.66	.44	.62							

RATINGS – 50hz

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

HS23-513 – C26-51(FC)

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)					35°C (95°F)					41°C (105°F)					46°C (115°F)								
			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		
			kW	Btuh		Dry Bulb			kW	Btuh		kW	Dry Bulb			kW		Btuh	kW	Dry Bulb				kW	Btuh	kW
24°C 75°F	27°C 80°F	29°C 85°F			24°C 75°F	27°C 80°F	29°C 85°F	24°C 75°F			27°C 80°F		29°C 85°F	24°C 75°F	27°C 80°F		29°C 85°F			24°C 75°F	27°C 80°F	29°C 85°F				
17.2°C (63°F)	520	1100	13.3	45 500	3.74	.65	.80	.94	12.6	43 100	4.02	.66	.82	.97	11.9	40 700	4.29	.68	.85	.99	11.2	38 200	4.57	.70	.88	1.00
	615	1300	13.8	47 000	3.78	.68	.85	1.00	13.1	44 600	4.07	.70	.88	1.00	12.3	42 100	4.36	.73	.92	1.00	11.6	39 500	4.64	.76	.95	1.00
	710	1500	14.2	48 300	3.82	.73	.91	1.00	13.4	45 800	4.12	.75	.94	1.00	12.7	43 300	4.41	.78	.97	1.00	11.9	40 700	4.71	.81	1.00	1.00
19.4°C (67°F)	520	1100	14.3	48 800	3.84	.51	.63	.75	13.5	46 200	4.14	.52	.64	.78	12.8	43 600	4.43	.53	.65	.80	12.0	40 900	4.72	.54	.67	.84
	615	1300	14.7	50 200	3.88	.53	.66	.81	14.0	47 600	4.18	.54	.67	.84	13.1	44 800	4.49	.55	.70	.87	12.3	42 000	4.78	.56	.73	.91
	710	1500	15.0	51 300	3.91	.55	.70	.87	14.2	48 500	4.22	.56	.72	.90	13.4	45 700	4.53	.57	.75	.93	12.5	42 800	4.82	.59	.78	.97
21.7°C (71°F)	520	1100	15.3	52 300	3.94	.39	.49	.60	14.6	49 700	4.26	.39	.50	.61	13.7	46 900	4.58	.39	.51	.63	12.9	44 000	4.89	.40	.52	.65
	615	1300	15.7	53 700	3.98	.39	.51	.63	14.9	51 000	4.31	.40	.52	.65	14.1	48 100	4.63	.40	.54	.67	13.2	45 100	4.94	.41	.55	.70
	710	1500	16.1	54 800	4.01	.40	.54	.67	15.2	51 900	4.34	.41	.55	.69	14.4	49 000	4.67	.41	.56	.72	13.4	45 800	4.98	.42	.58	.75

HS23-513 – C26-65(FC)

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)					35°C (95°F)					41°C (105°F)					46°C (115°F)								
			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		
			kW	Btuh		Dry Bulb			kW	Btuh		kW	Dry Bulb			kW		Btuh	kW	Dry Bulb				kW	Btuh	kW
24°C 75°F	27°C 80°F	29°C 85°F			24°C 75°F	27°C 80°F	29°C 85°F	24°C 75°F			27°C 80°F		29°C 85°F	24°C 75°F	27°C 80°F		29°C 85°F			24°C 75°F	27°C 80°F	29°C 85°F				
17.2°C (63°F)	520	1100	13.3	45 500	3.76	.66	.80	.93	12.7	43 200	4.04	.68	.82	.96	11.9	40 700	4.32	.69	.84	.98	11.2	38 200	4.59	.71	.88	1.00
	615	1300	13.8	47 000	3.81	.69	.85	.98	13.1	44 600	4.10	.71	.87	1.00	12.3	42 100	4.38	.73	.90	1.00	11.6	39 500	4.66	.76	.93	1.00
	710	1500	14.2	48 300	3.85	.73	.89	1.00	13.4	45 800	4.14	.75	.92	1.00	12.7	43 200	4.43	.77	.95	1.00	11.9	40 600	4.72	.80	.98	1.00
19.4°C (67°F)	520	1100	14.4	49 000	3.87	.52	.64	.76	13.6	46 500	4.17	.53	.65	.78	12.9	44 000	4.46	.54	.66	.80	12.1	41 200	4.75	.55	.68	.83
	615	1300	14.8	50 600	3.91	.54	.66	.81	14.0	47 900	4.22	.55	.68	.83	13.2	45 200	4.52	.56	.70	.86	12.4	42 300	4.81	.57	.73	.89
	710	1500	15.2	51 700	3.95	.56	.70	.86	14.4	49 000	4.26	.57	.72	.88	13.5	46 100	4.57	.58	.74	.91	12.7	43 200	4.86	.59	.77	.95
21.7°C (71°F)	520	1100	15.4	52 700	3.98	.40	.50	.61	14.7	50 100	4.30	.40	.51	.62	13.9	47 400	4.62	.40	.52	.64	13.0	44 500	4.93	.41	.53	.65
	615	1300	15.9	54 300	4.02	.40	.52	.64	15.1	51 500	4.35	.41	.53	.65	14.2	48 600	4.67	.41	.54	.67	13.4	45 600	4.99	.42	.55	.70
	710	1500	16.3	55 500	4.05	.41	.54	.67	15.4	52 600	4.39	.41	.55	.69	14.5	49 600	4.72	.42	.56	.71	13.6	46 500	5.03	.42	.58	.74

HS23-653 – C23-51(FC)

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)					35°C (95°F)					41°C (105°F)					46°C (115°F)								
			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		
			kW	Btuh		Dry Bulb			kW	Btuh		kW	Dry Bulb			kW		Btuh	kW	Dry Bulb				kW	Btuh	kW
24°C 75°F	27°C 80°F	29°C 85°F			24°C 75°F	27°C 80°F	29°C 85°F	24°C 75°F			27°C 80°F		29°C 85°F	24°C 75°F	27°C 80°F		29°C 85°F			24°C 75°F	27°C 80°F	29°C 85°F				
17.2°C (63°F)	520	1100	12.3	42 000	3.63	.65	.80	.94	11.7	40 000	3.89	.66	.82	.96	11.1	37 800	4.16	.68	.85	.99	10.4	35 500	4.41	.70	.88	1.00
	615	1300	12.7	43 400	3.67	.68	.85	.99	12.1	41 200	3.94	.70	.88	1.00	11.4	39 000	4.21	.72	.91	1.00	10.7	36 600	4.48	.75	.94	1.00
	710	1500	13.0	44 400	3.70	.72	.90	1.00	12.4	42 200	3.98	.74	.93	1.00	11.7	40 000	4.26	.77	.96	1.00	11.0	37 700	4.54	.80	.98	1.00
19.4°C (67°F)	525	1100	13.2	45 100	3.72	.51	.63	.75	12.6	42 900	4.01	.52	.64	.78	11.9	40 500	4.29	.53	.65	.80	11.1	38 000	4.56	.54	.67	.83
	610	1300	13.6	46 300	3.76	.53	.66	.81	12.9	44 000	4.05	.54	.67	.83	12.2	41 500	4.33	.55	.69	.86	11.4	39 000	4.61	.56	.72	.90
	715	1500	13.8	47 200	3.79	.55	.69	.86	13.1	44 800	4.08	.56	.71	.89	12.4	42 300	4.37	.57	.74	.92	11.6	39 700	4.65	.58	.77	.95
21.7°C (71°F)	520	1100	14.2	48 300	3.82	.39	.49	.60	13.5	45 900	4.13	.39	.50	.61	12.7	43 500	4.42	.39	.51	.63	12.0	40 900	4.72	.40	.52	.65
	615	1300	14.5	49 500	3.86	.39	.51	.63	13.8	47 100	4.17	.40	.52	.65	13.0	44 500	4.47	.40	.53	.66	12.3	41 900	4.77	.40	.55	.69
	710	1500	14.8	50 400	3.89	.40	.53	.66	14.0	47 900	4.20	.40	.54	.68	13.3	45 300	4.51	.41	.55	.71	12.5	42 500	4.80	.41	.57	.74

HS23-653 – C23-51/65(FC)

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)					35°C (95°F)					41°C (105°F)					46°C (115°F)								
			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		
			kW	Btuh		Dry Bulb			kW	Btuh		kW	Dry Bulb			kW		Btuh	kW	Dry Bulb				kW	Btuh	kW
24°C 75°F	27°C 80°F	29°C 85°F			24°C 75°F	27°C 80°F	29°C 85°F	24°C 75°F			27°C 80°F		29°C 85°F	24°C 75°F	27°C 80°F		29°C 85°F			24°C 75°F	27°C 80°F	29°C 85°F				
17.2°C (63°F)	660	1400	14.3	48 800	4.00	.68	.82	.95	13.7	46 700	4.32	.69	.84	.97	13.0	44 500	4.64	.70	.86	.99	12.4	42 300	4.96	.72	.88	1.00
	780	1650	14.7	50 200	4.04	.71	.87	.99	14.1	48 000	4.37	.72	.89	1.00	13.4	45 800	4.70	.74	.91	1.00	12.7	43 500	5.03	.76	.94	1.00
	895	1900	15.1	51 400	4.08	.74	.92	1.00	14.4	49 200	4.41	.76	.94	1.00	13.7	46 900	4.75	.78	.96	1.00	13.1	44 700	5.09	.81	.98	1.00
19.4°C (67°F)	660	1400	15.3	52 200	4.10	.53	.65	.78	14.6	49 900	4.43	.54	.66	.80	14.0	47 600	4.77	.55	.68	.82	13.2	45 200	5.12	.55	.69	.84
	780	1650	15.7	53 500	4.13	.55	.68	.83	15.0	51 100	4.47	.56	.70	.85	14.3	48 700	4.82	.57	.72	.88	13.6	46 300	5.17	.58	.74	.90
	895	1900	16.0	54 500	4.16	.57	.72	.88	15.3	52 100	4.51	.58	.74	.90	14.5	49 600	4.86	.59	.76	.93	13.8	47 100	5.21	.60	.78	.95
21.7°C (71°F)	660	1400	16.4	55 800	4.20	.40	.51	.63	15.6	53 400	4.55	.40	.52	.64	14.9	51 000	4.92	.41	.53	.65	14.2	48 500	5.28	.41	.54	.67
	780	1650	16.7	57 100	4.23	.41	.53	.66	16.0	54 600	4.59	.41	.54	.67	15.3	52 100	4.96	.41	.55	.69	14.5	49 600	5.34	.42	.56	.71
	895	1900	17.0	58 100	4.26	.41	.5																			

RATINGS – 50hz

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

HS23-653 – CH22-51

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)						35°C (95°F)						41°C (105°F)						46°C (115°F)					
			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		
						Dry Bulb						Dry Bulb						Dry Bulb						Dry Bulb		
L/s	cfm	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	
17.2°C (63°F)	660	1400	14.5	49 600	4.03	.67	.82	.96	13.9	47 400	4.34	.69	.84	.98	13.2	45 200	4.67	.70	.86	.99	12.6	43 000	5.00	.72	.89	1.00
	780	1650	14.9	51 000	4.07	.71	.88	1.00	14.3	48 800	4.40	.73	.90	1.00	13.6	46 500	4.73	.75	.92	1.00	13.0	44 300	5.07	.77	.95	1.00
	895	1900	15.3	52 300	4.10	.75	.92	1.00	14.7	50 000	4.44	.77	.95	1.00	14.0	47 800	4.78	.79	.97	1.00	13.3	45 500	5.13	.82	.99	1.00
19.4°C (67°F)	660	1400	15.5	52 900	4.12	.53	.65	.78	14.8	50 600	4.46	.54	.66	.80	14.1	48 200	4.80	.54	.68	.82	13.4	45 800	5.15	.55	.69	.85
	780	1650	15.9	54 200	4.15	.55	.68	.84	15.2	51 800	4.50	.56	.70	.86	14.4	49 300	4.85	.57	.72	.89	13.7	46 900	5.20	.58	.74	.91
	895	1900	16.2	55 200	4.18	.57	.72	.89	15.4	52 700	4.53	.58	.74	.91	14.7	50 200	4.89	.59	.76	.94	14.0	47 700	5.24	.60	.79	.96
21.7°C (71°F)	660	1400	16.6	56 600	4.22	.40	.51	.62	15.9	54 100	4.58	.40	.52	.64	15.1	51 600	4.94	.40	.53	.65	14.4	49 100	5.31	.41	.54	.67
	780	1650	17.0	57 900	4.25	.41	.53	.66	16.2	55 400	4.62	.41	.54	.67	15.5	52 800	4.99	.41	.55	.69	14.7	50 200	5.37	.42	.56	.71
	895	1900	17.3	58 900	4.28	.41	.55	.70	16.5	56 300	4.65	.42	.56	.71	15.7	53 600	5.03	.42	.58	.74	14.9	50 900	5.41	.43	.59	.76

HS23-653 – CR18-51

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)						35°C (95°F)						41°C (105°F)						46°C (115°F)					
			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		
						Dry Bulb						Dry Bulb						Dry Bulb						Dry Bulb		
L/s	cfm	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	
17.2°C (63°F)	660	1400	14.5	49 500	3.84	.68	.82	.95	13.9	47 300	4.15	.69	.84	.98	13.2	45 000	4.47	.71	.86	.99	12.5	42 700	4.78	.73	.89	1.00
	780	1650	15.0	51 100	3.88	.72	.87	1.00	14.3	48 700	4.20	.73	.90	1.00	13.6	46 400	4.52	.75	.92	1.00	12.9	44 000	4.85	.77	.95	1.00
	895	1900	15.3	52 300	3.91	.75	.92	1.00	14.6	49 900	4.24	.77	.95	1.00	14.0	47 600	4.57	.80	.97	1.00	13.3	45 300	4.92	.82	.99	1.00
19.4°C (67°F)	660	1400	15.5	53 000	3.93	.54	.66	.78	14.8	50 600	4.26	.54	.67	.80	14.1	48 200	4.60	.55	.68	.83	13.4	45 700	4.94	.56	.70	.85
	780	1650	15.9	54 400	3.97	.56	.69	.84	15.2	51 900	4.31	.56	.71	.86	14.5	49 400	4.65	.57	.72	.88	13.7	46 800	4.99	.58	.75	.91
	895	1900	16.3	55 500	4.00	.58	.73	.89	15.5	52 900	4.34	.59	.75	.91	14.7	50 300	4.69	.60	.77	.94	14.0	47 700	5.04	.61	.79	.96
21.7°C (71°F)	660	1400	16.6	56 700	4.03	.41	.52	.63	15.9	54 200	4.39	.41	.53	.64	15.2	51 700	4.74	.41	.53	.66	14.4	49 100	5.10	.41	.54	.67
	780	1650	17.0	58 100	4.07	.41	.54	.67	16.3	55 500	4.43	.42	.55	.68	15.5	52 900	4.79	.42	.56	.70	14.7	50 200	5.16	.42	.57	.72
	895	1900	17.3	59 200	4.10	.42	.56	.70	16.6	56 600	4.46	.42	.57	.72	15.8	53 800	4.83	.43	.58	.74	15.0	51 100	5.20	.43	.60	.77

HS23-653 – CH23-65

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)						35°C (95°F)						41°C (105°F)						46°C (115°F)					
			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		
						Dry Bulb						Dry Bulb						Dry Bulb						Dry Bulb		
L/s	cfm	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	
17.2°C (63°F)	660	1400	14.7	50 000	4.04	.68	.83	.96	14.0	47 800	4.36	.69	.84	.98	13.4	45 600	4.69	.71	.87	.99	12.7	43 300	5.02	.73	.89	1.00
	780	1650	15.1	51 500	4.08	.72	.88	1.00	14.4	49 200	4.41	.73	.90	1.00	13.7	46 900	4.75	.75	.92	1.00	13.1	44 600	5.09	.77	.95	1.00
	895	1900	15.5	52 800	4.11	.75	.93	1.00	14.8	50 500	4.45	.77	.95	1.00	14.1	48 200	4.80	.80	.97	1.00	13.5	45 900	5.15	.82	.99	1.00
19.4°C (67°F)	660	1400	15.6	53 400	4.13	.54	.66	.79	14.9	51 000	4.47	.54	.67	.81	14.2	48 600	4.82	.55	.68	.83	13.5	46 200	5.17	.56	.70	.85
	780	1650	16.0	54 700	4.17	.55	.69	.84	15.3	52 300	4.52	.56	.70	.86	14.6	49 800	4.87	.57	.72	.89	13.9	47 300	5.22	.58	.75	.91
	895	1900	16.4	55 800	4.20	.57	.73	.89	15.6	53 200	4.55	.58	.75	.92	14.9	50 700	4.91	.59	.77	.94	14.1	48 100	5.27	.61	.79	.96
21.7°C (71°F)	660	1400	16.7	57 100	4.23	.40	.52	.63	16.0	54 600	4.59	.41	.52	.64	15.3	52 100	4.96	.41	.53	.66	14.5	49 600	5.34	.41	.54	.67
	780	1650	17.1	58 400	4.27	.41	.54	.67	16.4	55 900	4.64	.41	.55	.68	15.6	53 300	5.01	.42	.56	.70	14.8	50 600	5.39	.42	.57	.72
	895	1900	17.4	59 400	4.30	.42	.56	.70	16.6	56 800	4.67	.42	.57	.72	15.9	54 100	5.05	.42	.58	.74	15.1	51 400	5.43	.43	.60	.77

HS23-653 – CR18-65

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)						35°C (95°F)						41°C (105°F)						46°C (115°F)					
			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		
						Dry Bulb						Dry Bulb						Dry Bulb						Dry Bulb		
L/s	cfm	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	kW	Btuh	kW	24°C 75°F	27°C 80°F	29°C 85°F	
17.2°C (63°F)	660	1400	15.1	51 600	3.99	.68	.82	.95	14.4	49 300	4.31	.69	.84	.98	13.8	47 000	4.64	.71	.86	.99	13.1	44 600	4.97	.73	.89	1.00
	780	1650	15.6	53 200	4.03	.72	.87	1.00	14.9	50 800	4.36	.73	.90	1.00	14.2	48 400	4.70	.75	.92	1.00	13.5	46 000	5.04	.77	.95	1.00
	895	1900	16.0	54 600	4.07	.75	.92	1.00	15.3	52 100	4.41	.77	.95	1.00	14.6	49 700	4.75	.80	.97	1.00	13.9	47 300	5.11	.82	.99	1.00
19.4°C (67°F)	660	1400	16.2	55 300	4.08	.54	.66	.78	15.5	52 800	4.43	.54	.67	.80	14.7	50 300	4.78	.55	.68	.83	14.0	47 700	5.13	.56	.70	.85
	780	1650	16.6	56 700	4.12	.56	.69	.84	15.9	54 200	4.47	.56	.71	.86	15.1	51 500	4.83	.57	.72	.88	14.3	48 900	5.19	.58	.75	.91
	895	1900	17.0	57 900	4.15	.58	.73	.89	16.2	55 200	4.51	.59	.75	.91	15.4	52 500	4.87	.60	.77	.94	14.6	49 800	5.23	.61	.79	.96
21.7°C (71°F)	660	1400	17.3	59 200	4.19	.41	.52	.63	16.0	56 600	4.55	.41	.53	.64	15.8	53 900	4.93	.41	.53	.66	15.0	51 200	5.30	.41	.54	.67
	780	1650	17.8	60 700	4.23	.41	.54	.67	17.0	58 000	4.60	.42	.55	.68	16.2	55 200	4.98	.42	.56	.70	15.4	52 400	5.36	.42	.57	.72
	895	1900	18.1	61 800	4.26	.42	.56	.70	17.3	59 000	4.63	.42	.57	.72	16.5	56 200	5.02	.43	.58	.74	15.6	53 300	5.40	.43	.60	

RATINGS – 50hz

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

HS23-653 – C26-65(FC)EAP – CH22-65

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)						35°C (95°F)						41°C (105°F)						46°C (115°F)					
			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		
						Dry Bulb						Dry Bulb						Dry Bulb						Dry Bulb		
L/s	cfm	kW	Btuh	kW	24°C/75°F	27°C/80°F	29°C/85°F	kW	Btuh	kW	24°C/75°F	27°C/80°F	29°C/85°F	kW	Btuh	kW	24°C/75°F	27°C/80°F	29°C/85°F	kW	Btuh	kW	24°C/75°F	27°C/80°F	29°C/85°F	
17.2°C (63°F)	660	1400	15.1	51 600	3.91	.68	.82	.95	14.4	49 300	4.23	.69	.84	.98	13.8	47 000	4.55	.71	.86	.99	13.1	44 600	4.88	.73	.89	1.00
	780	1650	15.6	53 300	3.96	.72	.87	1.00	14.9	50 800	4.28	.73	.90	1.00	14.2	48 400	4.61	.75	.92	1.00	13.5	46 000	4.95	.77	.95	1.00
	895	1900	16.0	54 600	3.99	.75	.92	1.00	15.3	52 100	4.32	.77	.95	1.00	14.6	49 700	4.66	.80	.97	1.00	13.9	47 300	5.01	.82	.99	1.00
19.4°C (67°F)	660	1400	16.2	55 300	4.01	.54	.66	.78	15.5	52 800	4.35	.54	.67	.80	14.7	50 300	4.69	.55	.68	.83	14.0	47 700	5.03	.56	.70	.85
	780	1650	16.6	56 700	4.05	.56	.69	.84	15.9	54 200	4.39	.56	.71	.86	15.1	51 500	4.74	.57	.72	.88	14.3	48 900	5.09	.58	.75	.91
	895	1900	17.0	57 900	4.08	.58	.73	.89	16.2	55 200	4.43	.59	.75	.91	15.4	52 500	4.78	.60	.77	.94	14.6	49 800	5.13	.61	.79	.96
21.7°C (71°F)	660	1400	17.3	59 200	4.11	.41	.52	.63	16.6	56 600	4.47	.41	.53	.64	15.8	53 900	4.83	.41	.53	.66	15.0	51 200	5.20	.41	.54	.67
	780	1650	17.8	60 700	4.15	.41	.54	.67	17.0	58 000	4.51	.42	.55	.68	16.2	55 200	4.89	.42	.56	.70	15.4	52 400	5.26	.42	.57	.72
	895	1900	18.1	61 800	4.18	.42	.56	.70	17.3	59 000	4.55	.42	.57	.72	16.5	56 200	4.92	.43	.58	.74	15.6	53 300	5.30	.43	.60	.77

HS23-653 – C26-51(FC)

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)						35°C (95°F)						41°C (105°F)						46°C (115°F)					
			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		
						Dry Bulb						Dry Bulb						Dry Bulb						Dry Bulb		
L/s	cfm	kW	Btuh	kW	24°C/75°F	27°C/80°F	29°C/85°F	kW	Btuh	kW	24°C/75°F	27°C/80°F	29°C/85°F	kW	Btuh	kW	24°C/75°F	27°C/80°F	29°C/85°F	kW	Btuh	kW	24°C/75°F	27°C/80°F	29°C/85°F	
17.2°C (63°F)	660	1400	15.3	52 300	4.07	.67	.81	.96	14.7	50 000	4.40	.68	.84	.98	14.0	47 600	4.74	.69	.86	1.00	13.3	45 300	5.07	.71	.89	1.00
	780	1650	15.8	53 900	4.12	.70	.87	1.00	15.1	51 500	4.45	.72	.90	1.00	14.4	49 100	4.80	.74	.92	1.00	13.7	46 700	5.14	.76	.95	1.00
	895	1900	16.2	55 300	4.15	.74	.92	1.00	15.5	52 900	4.50	.76	.95	1.00	14.8	50 400	4.85	.79	.97	1.00	14.1	48 100	5.21	.81	.99	1.00
19.4°C (67°F)	660	1400	16.4	55 900	4.17	.52	.64	.77	15.7	53 400	4.52	.53	.65	.79	14.9	50 900	4.87	.54	.67	.82	14.2	48 300	5.22	.55	.68	.84
	780	1650	16.8	57 400	4.21	.54	.68	.83	16.0	54 700	4.56	.55	.69	.86	15.3	52 100	4.92	.56	.71	.88	14.5	49 400	5.28	.57	.73	.91
	895	1900	17.1	58 500	4.24	.56	.72	.89	16.4	55 800	4.60	.57	.74	.91	15.6	53 100	4.96	.58	.76	.94	14.8	50 400	5.33	.60	.78	.97
21.7°C (71°F)	660	1400	17.5	59 800	4.27	.39	.51	.62	16.8	57 200	4.64	.40	.51	.63	16.0	54 500	5.02	.40	.52	.64	15.2	51 800	5.40	.40	.53	.66
	780	1650	17.9	61 200	4.31	.40	.53	.65	17.2	58 600	4.69	.40	.54	.67	16.3	55 700	5.07	.41	.55	.68	15.5	52 900	5.45	.41	.56	.70
	895	1900	18.3	62 300	4.34	.41	.55	.69	17.4	59 500	4.72	.41	.56	.71	16.6	56 700	5.11	.42	.57	.73	15.8	53 800	5.50	.42	.58	.76

HS23-653 – CB18-65 – CBS18-65

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)						35°C (95°F)						41°C (105°F)						46°C (115°F)					
			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		
						Dry Bulb						Dry Bulb						Dry Bulb						Dry Bulb		
L/s	cfm	kW	Btuh	kW	24°C/75°F	27°C/80°F	29°C/85°F	kW	Btuh	kW	24°C/75°F	27°C/80°F	29°C/85°F	kW	Btuh	kW	24°C/75°F	27°C/80°F	29°C/85°F	kW	Btuh	kW	24°C/75°F	27°C/80°F	29°C/85°F	
17.2°C (63°F)	755	1600	15.6	53 300	3.92	.71	.87	.99	14.9	50 900	4.24	.72	.89	1.00	14.2	48 500	4.56	.74	.91	1.00	13.5	46 200	4.89	.76	.94	1.00
	850	1800	15.9	54 400	3.95	.74	.91	1.00	15.2	52 000	4.27	.75	.93	1.00	14.5	49 600	4.60	.78	.95	1.00	13.8	47 200	4.94	.80	.98	1.00
	945	2000	16.2	55 400	3.98	.77	.94	1.00	15.5	53 000	4.31	.79	.97	1.00	14.9	50 700	4.65	.81	.99	1.00	14.2	48 300	4.99	.84	1.00	1.00
19.4°C (67°F)	755	1600	16.6	56 700	4.01	.55	.68	.83	15.9	54 100	4.34	.56	.70	.85	15.1	51 600	4.68	.57	.71	.87	14.4	49 000	5.02	.58	.73	.90
	850	1800	16.9	57 700	4.03	.57	.71	.87	16.1	55 000	4.37	.57	.73	.89	15.4	52 400	4.71	.59	.75	.92	14.6	49 700	5.06	.60	.77	.95
	945	2000	17.1	58 400	4.05	.58	.74	.91	16.4	55 800	4.40	.59	.76	.93	15.6	53 100	4.74	.60	.78	.96	14.8	50 400	5.09	.62	.81	.98
21.7°C (71°F)	755	1600	17.7	60 500	4.11	.41	.53	.66	17.0	57 900	4.46	.41	.54	.67	16.2	55 200	4.82	.41	.55	.69	15.4	52 400	5.18	.42	.56	.71
	850	1800	18.0	61 500	4.13	.41	.55	.69	17.2	58 700	4.49	.42	.56	.70	16.4	56 000	4.85	.42	.57	.72	15.6	53 200	5.22	.43	.58	.74
	945	2000	18.2	62 200	4.15	.42	.57	.72	17.4	59 500	4.51	.42	.58	.74	16.6	56 600	4.88	.43	.59	.76	15.8	53 800	5.25	.43	.61	.78

HS23-653 – C26-65(FC)

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Temperature																							
			29°C (85°F)						35°C (95°F)						41°C (105°F)						46°C (115°F)					
			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor	Sensible To Total Ratio (S/T)		
						Dry Bulb						Dry Bulb						Dry Bulb						Dry Bulb		
L/s	cfm	kW	Btuh	kW	24°C/75°F	27°C/80°F	29°C/85°F	kW	Btuh	kW	24°C/75°F	27°C/80°F	29°C/85°F	kW	Btuh	kW	24°C/75°F	27°C/80°F	29°C/85°F	kW	Btuh	kW	24°C/75°F	27°C/80°F	29°C/85°F	
17.2°C (63°F)	660	1400	15.4	52 400	4.11	.67	.81	.94	14.7	50 100	4.43	.68	.83	.96	14.0	47 700	4.76	.69	.85	.98	13.3	45 300	5.10	.71	.87	1.00
	780	1650	15.8	54 000	4.15	.70	.86	.99	15.1	51 600	4.48	.71	.88	1.00	14.4	49 200	4.82	.73	.90	1.00	13.7	46 700	5.17	.75	.93	1.00
	895	1900	16.2	55 400	4.19	.73	.90	1.00	15.5	52 900	4.53	.75	.93	1.00	14.8	50 400	4.88	.77	.95	1.00	14.1	48 000	5.23	.80	.97	1.00
19.4°C (67°F)	660	1400	16.5	56 300	4.21	.53	.64	.77	15.8	53 800	4.56	.53	.65	.79	15.0	51 300	4.91	.54	.67	.81	14.3	48 700	5.27	.55	.68	.83
	780	1650	17.0	57 900	4.25	.54	.67	.82	16.2	55 300	4.61	.55	.69	.84	15.4	52 600	4.97	.56	.70	.86	14.6	49 900	5.33	.57	.72	.89
	895	1900	17.3	59 100	4.28	.56	.71	.87	16.5	56 400	4.64	.57	.72	.89	15.7	53 600	5.01	.58	.75	.92	14.9	50 900	5.38	.59	.77	.94
21.7°C (71°F)	660	1400	17.7	60 400	4.32	.40	.51	.62	16.9	57 800	4.69	.40	.52	.63	16.1	55 100	5.07	.40	.52	.64	15.4	52 400	5.45	.41	.53	.65
	780	1650	18.2	62 000	4.36	.41	.53	.65	17.4	59 300	4.74	.41	.53	.66	16.6	56 500	5.12	.41	.54	.68	15.7	53 700	5.51	.41	.55	.69
	895	1900	18.5	63 200	4.39	.41	.55	.68	17.7	60 400	4.77	.42	.56	.70	16.9	57 500	5.16	.42	.57	.72	16.0	54 600	5.56	.42	.58	.74