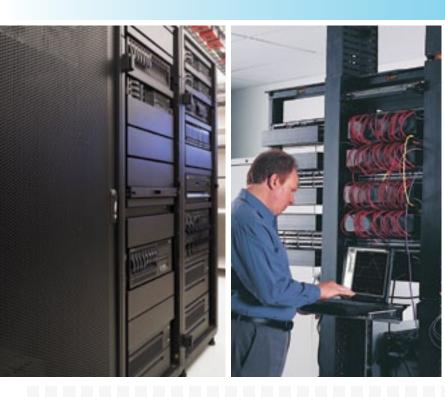
Precision Cooling
For Business-Critical Continuity™

Liebert Mini-Mate2™ 1 To 8 Tons Overhead Precision Cooling And Humidity Control







Precision Cooling In A Space-Saving, Ceiling-Installed System

When IT equipment needs precision cooling and humidity control, but floor space is limited, the Liebert Mini-Mate2™ can provide the overhead answer. This flexible, space-saving system is the ideal solution for small areas where space is at a premium:

- Network Closets
- VolP
- IDF
- Telecommunications Equipment
- Data Processing
- Control Rooms
- Desktop Publishing
- Network Facilities
- Laboratories
- Other Critical Electronic Systems

The components in units are located for easy service (1 ton self-contained unit shown)





Liebert Mini-Mate2 Offers:

Higher Reliability:

High Sensible Cooling Capacity. Unlike "comfort" air conditioners, Liebert systems are designed for the cooling requirements of electronic equipment – 80% of the capacity dedicated to the removal of dry "sensible" heat, and 20% for the control of humidity.

Reliable. Based on a field-proven system, the Liebert Mini-Mate2 is manufactured with rugged, efficient components. To ensure 365 days x 24 hours operation at your site, each system is factory tested.

Warranty Protection. In addition to the standard one-year warranty, your Liebert Representative can offer extended warranties on the unit, compressor, parts and labor.

Preventive Maintenance Programs. Liebert factory-certified personnel provide regular inspections and service to extend the life of the system.

Liebert Spare Parts. Highest-quality parts, designed for your system, are easily available through your Liebert service representative.

Flexibility:

Uses Zero Floor Space. The evaporator and indoor condensing units are mounted above the dropped ceiling, requiring minimal site disturbance.

Simple Control. Split systems require simple thermostat-type wiring to controls and condensing units.

Designed For Easy Component Access. Most units can be serviced from the front.

Option Kits. Single-point power kits, sweat adapters, condensate pumps, duct adapters and other options are ordered as kits, ensuring availability of required parts and complete compatibility with your system.

Agency Listed. Standard 60Hz units are CSA certified to the harmonized U.S. and Canadian product safety standard, CSA C22.2 No 236/UL1995 for "Heating and Cooling Equipment" and are marked with the CSA c-us logo.

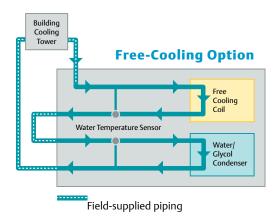


Liebert Monitoring Solutions: When You Need To Know

Low Total Cost Of Ownership:

High-Efficiency Compressor. The rotary or scroll compressors are both energy-efficient and rugged, to ensure continuous operation.

Free-Cooling Option. A second cooling coil allows the system to take advantage of colder outdoor temperatures and bypass compressor operation.



When water temperature goes below 45°F, cooling switches over to Free-Cooling operation. A separate chilled water source can also be used with Air-Cooled system. Note: Special cupro-nickel free-cooling coil must be specified when applied to open cooling tower.

You will find a full-range of monitoring and control systems, communications modules designed to interface Liebert equipment with a variety of building management systems, plus stand-alone monitoring, control and leak detection devices.

Local And Remote Monitoring Panels

These units provide basic monitoring and control for a single unit or small groups of equipment either at the equipment location or to a remote site.

Products include:

- Liebert Universal Monitor
- Liebert Controllers

Leak Detection

Liebert Liqui-tect® leak detection systems alert facility personnel to the presence of leaking fluids before serious damage results. They provide quick sensing and accurate reporting of leaks below the floor, above the ceiling or at the perimeter of a room.

Products include:

- Liebert Liqui-tect Panel
 Two Channel Direct Read
 Leak Detection
- Liebert Zone Leak Detection Kits
- Liebert Point Leak Detection Sensor

Fundamental Monitoring

Liebert Nform™ is a centralized monitoring and communications software package that combines full-scale monitoring with cost-effective deployment through the use of the existing network infrastructure.

Products include:

- Liebert Nform Software
- Liebert IntelliSlot Web/485 Card ADPT

Advanced Monitoring

Liebert SiteScan® Web offers comprehensive, centralized monitoring, control, data analysis and reporting for a full-range of computer support systems. It provides web-based site monitoring, alarm management and trending/analysis for critical sites.



For further information, please refer to www.liebert.com

Third Party Monitoring System Connectivity

The use of open protocols allows you to interface Liebert units and monitoring systems with other types and brands of control equipment including BMS, NMS, SCADA and fire alarm systems.

Protocols supported:

- Modbus
- BACnet
- SNMP

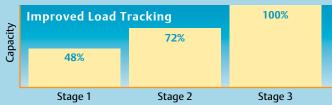
The Right Size To Fit Your Space And Application

With more than 10,000 possible configurations, there is a Liebert Mini-Mate2 system available to fit the needs of many room cooling or spot cooling requirements.

Liebert Mini-Mate2™ Product Features Include:

- Available in 1,1.5, 2, 3, 5 & 8 ton capacities (3-stage cooling on 8-ton)
- Self-contained or split systems allow for fitting systems with a variety of architectures
- Reliable refrigeration components featuring rotary or scroll compressors with copper tube aluminum fin coils provide high-efficiency
- Units are fully charged with refrigerant and come standard with quick-connect fittings to reduce installation time.
- Available in air-cooled, water-cooled, glycol-cooled or chilled-water configurations
- Easy-to-use menu-driven microprocessor control
- Optional room sensors available
- Hot gas bypass for low load applications

3-Stage Cooling (8 ton system only)



A unique compressor staging system utilizes independent 3-ton and 5-ton circuits to provide better control of room conditions. The unit microprocessor continuously monitors recent cooling operation, and selects the most economical cooling stage to satisfy demand.

Microprocessor Control Features:

- User-friendly wall-mount display
- Provides precise control of all unit functions
- Temperature Control
- Humidity Control
- Alarm Indication
- Programming
- Auto Restart

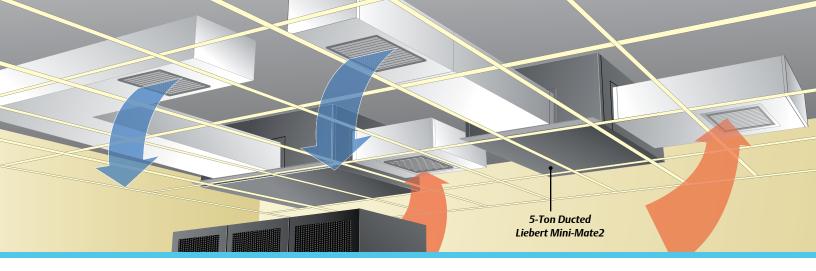


A Variety Of Options Help You Meet Numerous Applications:

- Grille (1-1.5 tons) or Plenum (2-3 tons) that fits 2'x4' ceiling grid for direct supply & return air distribution
- Fan speed and/or blower options to handle supply air ductwork with higher external static pressures
- Filter box or duct kits to connect to ducted sites
- Hot water reheat to utilize building hot water for energy savings
- Stainless steel electric reheat and/or canister humidifier for humidity control
- High-pressure chilled water systems
- Single-point power connection kit to facilitate close coupled evaporator & condensing unit wiring
- Multiple air-cooled heat rejection solutions: indoor ducted and outdoor (standard ambient, high ambient and Quiet-Line)
- 2-way or 3-way water regulating valves rated for standard or high-pressure applications
- Unit disconnect, smoke sensor, and/or high-temp sensor options
- Site monitoring and communication devices to meet monitoring needs
- R407C refrigerant

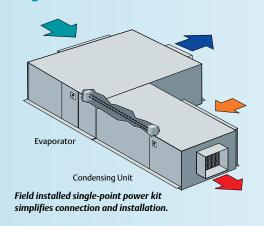
1-1.5 Ton with grille





	Product Option Availability	Capacity (Tons)						
	-1	1	1.5	2	3	5	8	
	Chilled Water (rated @ 300 psi static pressure)		•		•	•		
	Chilled Water (rated @ 400 psi static pressure)					•	•	
System Types	Self-Contained Air-Cooled	•	•					
	Self-Contained Water/Glycol-Cooled	•	•					
E	Split System Air-Cooled w/Centrifugal Indoor Condensing Unit			•	•	•	•	
ste	Split System Air-Cooled w/Outdoor High Ambient Prop Fan Condensing Unit			•	•	•		
S	Split System Air-Cooled w/Outdoor Prop Fan Condensing Unit	•	•	•	•	•	•	
	Split System Air-Cooled w/Outdoor Quiet-Line Prop Fan Condensing Unit			•	•	•		
	Split System Water/Glycol-Cooled (2- or 3-way Valve, 150 or 350 psi)			•	•	•	•	
	50 & 60 Hz voltages	•	•	•	•	•	•	
	Canister Humidifier	•	•	•	•	•	•	
-S	Chilled Water w/High Close-Off Pressure Valve		•		•	•	•	
<u>.</u>	Direct-Drive Motor/Two-Speed	•	•	•	•			
ρŢ	Filter Clog Alarm	•	•	•	•	•	•	
P	High Temp Sensor (Firestat)	•	•	•	•	•	•	
e e	Free-Cooling Coil	•	•	•	•	•	•	
ste	Hot Gas Reheat (self-contained systems only)	•	•					
든	Hot Water Reheat (chilled water systems only)		•		•	•	•	
Factory Installed Options¹	Internal Disconnect Switch	•	•	•	•	•	•	
act	SCR Reheat	•	•	•	•	•	•	
ш	Smoke Sensor	•	•	•	•	•	•	
	Stainless Steel Electric Reheat	•	•	•	•	•	•	
	R407C	•	•	•	•	•	•	
	High External Static Option			•	•	•	•	
	15' or 30' Refrigerant Line Sets (R-407C)	•	•	•	•			
e s	Condensate Pump Kit	•	•	•	•	•	•	
os	Duct Kit	•	•	•	•	•	•	
) Lc	Filter Box	•	•	•	•	•	•	
Ship Loose Accessories	Remote Sensors	•	•	•	•	•	•	
N.A	Single Point Power Kit			•	•	•	•	
	Supply & Return Grille/Plenum	•	•	•	•			
	Liebert Liqui-tect 410 Point Detection Leak Detection Sensor	•	•	•	•	•	•	
	Liebert LT460-K Zone Leak Detection Kits	•	•	•	•	•	•	
~_	Liebert IntelliSlot Web/485 Card ADPT	•	•	•	•	•	•	
Monitoring ²	Liebert ENV-DO Environmental Interface Card	•	•	•	•	•	•	
ΙŌ	Liebert AC8 Controller	•	•	•	•	•	•	
Ē	Liebert RCM4 Four-Point Dry Contact Monitor	•	•	•	•	•	•	
ž	Liebert Universal Monitor Remote Dry Contact Monitor	•	•	•	•	•	•	
	Liebert Site Scan Monitoring	•	•	•	•	•	•	
	Liebert AC4 Autochangeover Controller	•	•	•	•	•	•	

Single-Point Power Kit



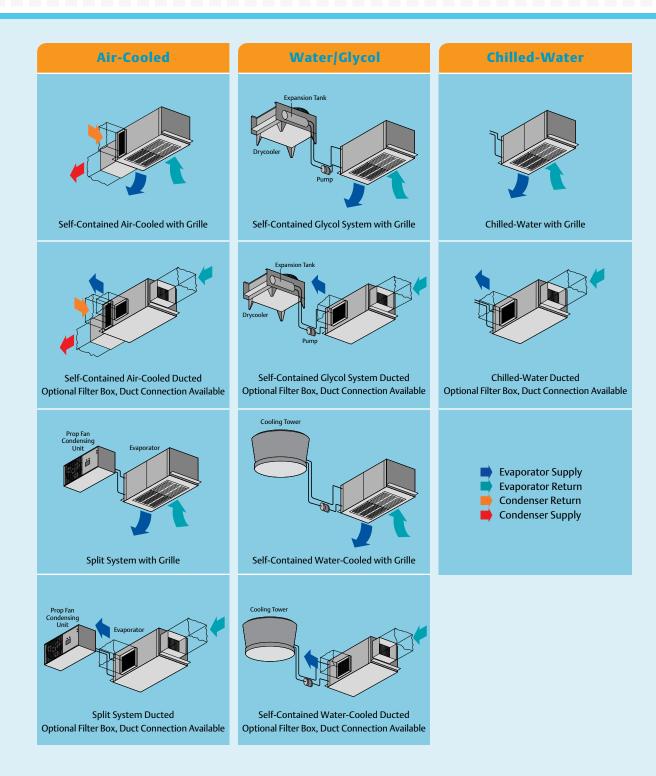
High Static Pressure Option 2-3 Ton Shown

Evaporator (or chilled water)

High Static Blower Box

Evaporator Supply Evaporator Return Condenser Return Condenser Supply

1 And 1-1/2 Ton Systems



Specifications 1 And 1-1/2 Ton Systems

75°F DB, 61°F WB (23.9°C

72°F DB, 60°F WB (22.2°C DB,15.5°C WB) 50% RH

DB,16.1°C WB) 45% RH

Total

Total

Sensible

Sensible

3.85 (13,100)

3.45 (11,800)

3.80 (12,900)

3.15 (10,800)

			AIR COOLE	D SYSTEM		
		Split S with Outdoor C		Self-Cor	ntained	
		1 Ton	1.5 Tons	1 Ton	1.5 Tons	
Evaporator		MMD12E	MMD18E	MMD12A	MMD18A	
Condensing Unit or Fan		PFH014A	PFH020A	MM2CF	MM2CF	
Net Capacity Data*- kW (Bt	tuh) @ High I	Fan Speed CFM				
80°F DB, 62.8°F WB (26.7°C	Total	4.45 (15,200)	5.65 (19,300)	3.70 (12,600)	5.55 (18,900)	
DB,17.1°C WB) 38% RH	Sensible	4.10 (14,000)	5.35 (18,300)	3.60 (12,300)	5.30 (18,100)	
75°F DB, 61°F WB (23.9°C	Total	4.25 (14,500)	5.35 (18,300)	3.50 (12,000)	5.30 (18,100)	
DB,16.1°C WB) 45% RH	Sensible	3.65 (12,500)	4.85 (16,500)	3.20 (11,000)	4.75 (16,200)	
72°F DB, 60°F WB (22.2°C	Total	4.15 (14,100)	5.25 (18,000)	3.45 (11,700)	5.15 (17,600)	
DB,15.5°C WB) 50% RH	Sensible	3.35 (11,500)	4.45 (15,200)	3.00 (10,200)	4.40 (15,000)	
			60HZ	Only		
		WATER-	COOLED	GLYCOL-	COOLED	
		Self-Cor	ntained	Self-Co	ntained	
		1 Ton	1.5 Tons	1 Ton	1.5 Tons	
Unit		MMD14W	MMD20W	MMD14W	MMD20W	
Net Capacity Data* - kW (Bt	uh) @ High I	an Speed CFM				
80°F DB, 62.8°F WB (26.7°C	Total	4.05 (13,800)	6.40 (21,800)	3.50 (11,900)	5.20 (17,800)	
DB,17.1℃ WB) 38% RH	Sensible	3.85 (13,100)	5.80 (19,800)	3.45 (11,800)	5.10 (17,400)	

60HZ Only

		60HZ	50HZ		
		CHILLED	WATER		
		Self-Contained	Self-Contained		
		1.5 Tons	1.5 Tons		
Chilled Water Unit		MMD23C	MMD22C		
Net Capacity Data* - kW (Bt	uh) 45°F (7	2°C) EWT & 10°F (5.6°C) temp. rise - High Fan Speed CFM			
80°F DB, 62.8°F WB (26.7°C	Total	4.85 (16,500)	4.85 (16,500)		
DB,17.1°C WB) 38% RH	Sensible	4.80 (16,300)	4.80 (16,300)		
75°F DB, 61°F WB (23.9°C Total		3.80 (13,000)	3.80 (13,000)		
DB,16.1°C WB) 45% RH	Sensible	3.80 (13,000)	3.80 (13,000)		
72°F DB, 60°F WB (22.2°C	Total	3.20 (11,000)	3.20 (11,000)		
DB,15.5°C WB) 50% RH	Sensible	3.20 (10,900)	3.20 (10,900)		

6.15 (21,000)

5.20 (17,700)

6.00 (20,500)

4.80 (16,400)

3.30 (11,300)

3.10 (10,600)

3.20 (11,000)

2.90 (9,800)

5.00 (17,000)

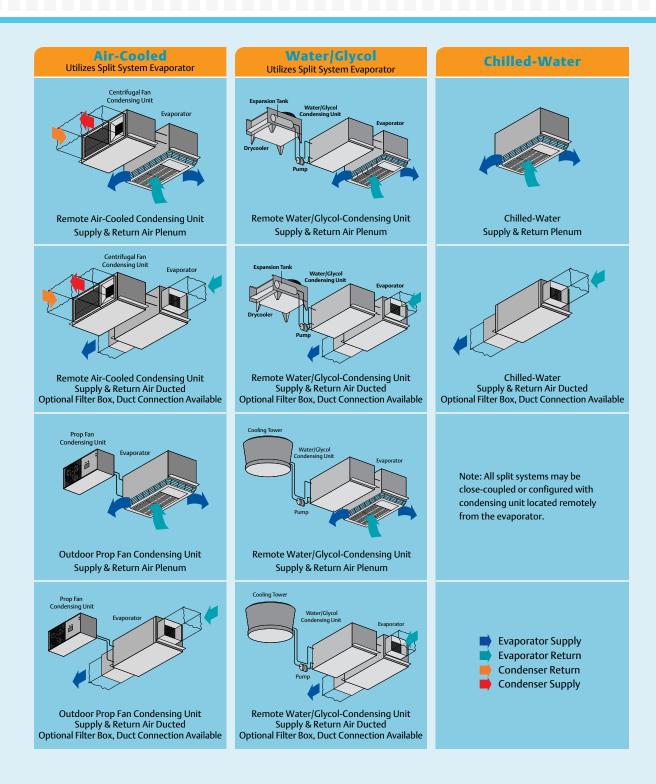
4.55 (15,600)

4.85 (16,600)

4.10 (14,000)

^{*}The net capacity data has fan motor heat factored in for all ratings and the entering air conditions of 75°F (23.9°C), 45% RH, is the standard rating condition for ASHRAE 127-2007. All capacities are nominal values; actual performance will be ±5%.

2 And 3 Ton Systems



Specifications 2 And 3 Ton Systems

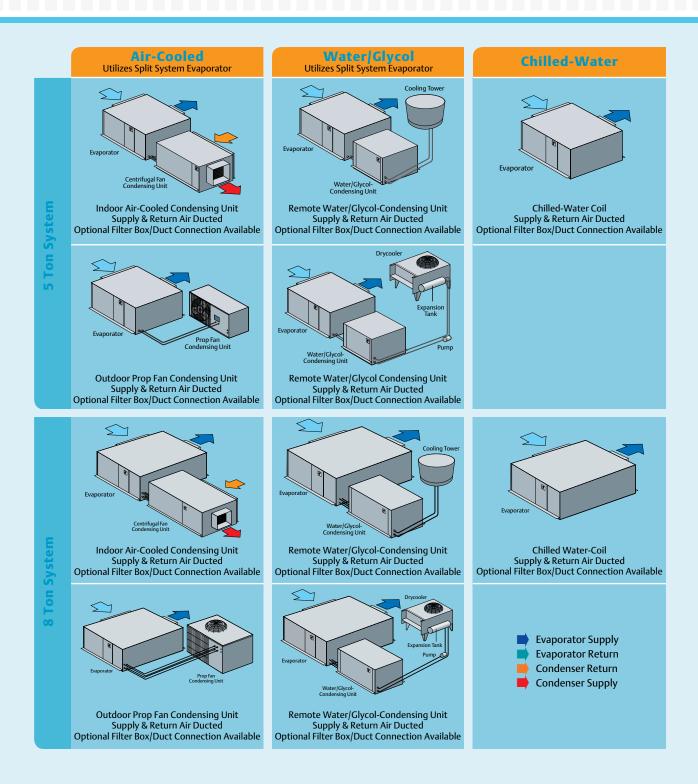
			60	117		F0	HZ
		60		50	HZ		
				AIR COOL	ED SYSTEM		
		with Outdoor C	ondensing Unit	with Centrifugal	Condensing Unit	with Outdoor Condensing Unit	with Centrifugal Condensing Unit
	2 Tons	3 Tons	2 Tons	3 Tons	3 Tons	3 Tons	
Evaporator		MMD24E	MMD36E	MMD24E	MMD36E	MMD35E	MMD35E
Condensing Unit	PFH - Outdoor	PFH - Outdoor	MCD - Indoor	MCD - Indoor	PFH - Outdoor	MCD - Indoor	
Net Capacity Data* - kW (Btuh) @ I	High Fan Speed CFM						
80°F DB, 62.8°F WB (26.7°C	Total	6.70 (22,900)	9.90 (33,800)	6.50 (22,200)	9.35 (31,900)	9.95 (34,000)	9.50 (32,400)
DB, 17.1°C WB) 38 %RH	Sensible	6.50 (22,200)	9.40 (32,100)	6.35 (21,700)	9.10 (31,000)	9.40 (32,100)	9.15 (31,300)
75°F DB, 61°F WB (23.9°C Total		6.40 (21,800)	9.55 (32,500)	6.15 (20,900)	8.95 (30,600)	9.60 (32,700)	9.10 (31,100)
DB, 16.1°C WB) 45 %RH	Sensible	5.70 (19,500)	8.30 (28,400)	5.60 (19,100)	8.05 (27,500)	8.35 (28,500)	8.15 (27,800)
72°F DB, 60°F WB (22.2°C	Total	6.20 (21,200)	9.30 (31,800)	5.95 (20,300)	8.75 (29,900)	9.35 (31,900)	8.90 (30,400)
DB, 15.5°C WB) 50 %RH	Sensible	5.20 (17,800)	7.70 (26,200)	5.10 (17,400)	7.40 (25,300)	7.70 (26,200)	7.45 (25,500)

		60		50	HZ		
		WATER	-COOLED	GLYCOL-COOLED		WATER-COOLED	GLYCOL-COOLED
		2 Tons	3 Tons	2 Tons	3 Tons	3 Tons	3 Tons
Evaporator		MMD24E	MMD36E	MMD24E	MMD36E	MMD35E	MMD35E
Condensing Unit		MCD26W	MCD38W	MCD26W	MCD38W	MCD37W	MCD37W
Net Capacity Data* - kW (Btuh) @ High Fan Speed CFM							
80°F DB, 62.8°F WB (26.7°C	Total	7.60 (26,000)	11.0 (37,600)	6.25 (21,300)	9.05 (30,900)	11.3 (38,700)	9.20 (31,400)
DB,17.1°C WB) 38 %RH	Sensible	6.95 (23,700)	9.95 (33,900)	6.20 (21,200)	8.95 (30,500)	10.1 (34,400)	9.00 (30,700)
75°F DB, 61°F WB (23.9°C	Total	7.30 (24,900)	10.6 (36,300)	5.90 (20,200)	8.70 (29,600)	11.0 (37,400)	8.80 (30,100)
DB, 16.1°CWB) 45 %RH	Sensible	6.15 (20,900)	8.85 (30,200)	5.50 (18,800)	7.95 (27,100)	9.00 (30,700)	8.00 (27,300)
72°F DB, 60°F WB (22.2°C	Total	7.10 (24,300)	10.4 (35,500)	5.75 (19,700)	8.45 (28,900)	10.7 (36,600)	8.60 (29,400)
DB, 15.5°CWB) 50 %RH	Sensible	5.65 (19,300)	8.20 (27,900)	5.00 (17,100)	7.30 (24,900)	8.30 (28,400)	7.35 (25,100)

		60HZ	50HZ
		CHILLED	DWATER
		3 Tons	3 Tons
Chilled Water Unit		MMD40C	MMD39C
Net Capacity Data* - kW (Btuh) 45	5°F (7.2°C) EWT & 10°	F (5.6°C) temp. rise - High Fan Speed CFM	
80°F DB, 62.8°F WB (26.7°C	Total	10.1 (34,600)	10.1 (34,600)
DB, 17.1°C WB) 38 %RH	Sensible	9.40 (32,100)	9.40 (32,100)
75°F DB, 61°F WB (23.9°C	Total	8.25 (28,200)	8.25 (28,200)
DB, 16.1°C WB) 45 %RH	Sensible	7.60 (26,000)	7.60 (26,000)
72°F DB, 60°F WB (22.2°C	Total	7.10 (24,200)	7.10 (24,200)
DB, 15.5°C WB) 50 %RH	Sensible	6.50 (22,200)	6.50 (22,200)

^{*}The net capacity data has fan motor heat factored in for all ratings and the entering air conditions of 75°F (23.9°C), 45% RH, is the standard rating condition for ASHRAE 127-2007. All capacities are nominal values; actual performance will be \pm 5%.

5 And 8 Ton Systems



Specifications 5 And 8 Ton Systems

			60	HZ			50	HZ	
					AIR COOLE	D SYSTEM			
Evaporator Condensing Unit		with Outdoor Conden 5 Tons MMD60E PFH - Outdoo	3	with Cen	trifugal Condensing Unit 5 Tons MMD60E MCD - Indoor	with Outdoor Condens 5 Tons MMD59E PFH - Outdoor			rifugal Condensing Unit 5 Tons MMD59E MCD - Indoor
Net Capacity Data* - kW (Btuh)									
80°F DB, 62.8°F WB (26.7°C DB,	Total	19.2 (65,400))		19.3 (65,700)	18.1 (61,600)			17.9 (61,000)
17.1°C WB) 38% RH	Sensible	18.5 (63,000))		18.5 (63,200)	17.8 (60,700)		17.7 (60,400)	
75°F DB, 61°F WB (23.9°C DB,	Total	18.4 (62,700))		18.5 (63,000)	17.2 (58,800)			17.1 (58,300)
16.1°C WB) 45% RH	Sensible	16.4 (55,800)	, , , , , , , , , , , , , , , , , , , ,		15.8 (53,900)		15.7 (53,700)		
72°F DB, 60°F WB (22.2°C DB,	Total	17.9 (61,200)			16.8 (57,300)		16.7 (56,900)		
15.5°C WB) 50% RH	Sensible	15.0 (51,300))		15.1 (51,500)	14.5 (49,500)			14.4 (49,300)
Evaporator Condensing Unit		WATER-COOLED 5 Tons MMD60E MCD69W	GLYCOL- 5 To MME MCD	ons D60E	CHILLED WATER 5 Tons MMD92C	WATER-COOLED 5 Tons MMD59E MCD68W	5 MM	L-COOLED Tons MD59E D68W	CHILLED WATER 5 Tons MMD91C
Net Capacity Data* - kW (Btuh)									
80°F DB, 62.8°F WB (26.7°C	Total	21.5 (73,500)	18.2 (6	2,200)	20.1 (68,700)	20.7 (70,700)	16.9 ((57,800)	20.1 (68,700)
DB,17.1°C WB) 38 %RH	Sensible	19.6 (67,000)	17.9 (6	1,200)	18.7 (63,900)	19.3 (65,700)	16.9 ((57,800)	18.7 (63,900)
75°F DB, 61°F WB (23.9°C DB,	Total	20.8 (70,800)	17.4 (5	9,500)	16.3(55,600)	19.9 (68,000)	16.1 ((54,900)	16.3(55,600)
		17.5 (59,600)	15.9 (5	4,300)	15.1 (51,500)	17.1 (58,300)	15.2 ((52,000)	15.1 (51,500)
16.1°CWB) 45 %RH	Sensible	(,,					15.7 (53,500)		12.0 (47.200)
16.1°CWB) 45 %RH 72°F DB, 60°F WB (22.2°C DB,	Sensible Total	20.3 (69,200)	17.0 (5	8,000)	13.8 (47,200)	19.5 (66,500)	15.7 ((53,500)	13.8 (47,200)
16.1°CWB) 45 %RH			14.6 (4		12.8 (43,700)	15.7 (53,700)	14.0 ((53,500) (47,700) OHZ	13.8 (47,200) 12.8 (43,700)
16.1°CWB) 45 %RH 72°F DB, 60°F WB (22.2°C DB, 15.5°CWB) 50 %RH	Total	20.3 (69,200) 16.1 (55,000) with Outdoor Conden 8 Tons MMD96E	14.6 (4 60 asing Unit	9,800) DHZ	12.8 (43,700) AIR COOLE trifugal Condensing Unit 8 Tons MMD96E	15.7 (53,700) ED SYSTEM with Outdoor Condens 8 Tons MMD95E	14.0 ((47,700) OHZ with Cent	12.8 (43,700) rifugal Condensing Unit 8 Tons MMD95E
16.1°CWB) 45 %RH 72°F DB, 60°F WB (22.2°C DB, 15.5°CWB) 50 %RH Evaporator Condensing Unit	Total Sensible	20.3 (69,200) 16.1 (55,000) with Outdoor Conden 8 Tons	14.6 (4 60 asing Unit	9,800) DHZ	12.8 (43,700) AIR COOLE trifugal Condensing Unit 8 Tons	15.7 (53,700) ED SYSTEM with Outdoor Condens 8 Tons	14.0 ((47,700) OHZ with Cent	12.8 (43,700) 12.8 (43,700) rifugal Condensing Unit 8 Tons
16.1°CWB) 45 %RH 72°F DB, 60°F WB (22.2°C DB, 15.5°CWB) 50 %RH	Total Sensible	20.3 (69,200) 16.1 (55,000) with Outdoor Conden 8 Tons MMD96E	14.6 (4	9,800) DHZ	12.8 (43,700) AIR COOLE trifugal Condensing Unit 8 Tons MMD96E	15.7 (53,700) ED SYSTEM with Outdoor Condens 8 Tons MMD95E	14.0 (50 sing Unit	(47,700) OHZ with Cent	12.8 (43,700) rifugal Condensing Unit 8 Tons MMD95E
16.1°CWB) 45 %RH 72°F DB, 60°F WB (22.2°C DB, 15.5°CWB) 50 %RH Evaporator Condensing Unit Net Capacity Data* - kW (Btul	Total Sensible	20.3 (69,200) 16.1 (55,000) with Outdoor Conden 8 Tons MMD96E PFH - Outdoor	14.6 (4 60 sising Unit	9,800) DHZ	12.8 (43,700) AIR COOLE trifugal Condensing Unit 8 Tons MMD96E MCD - Indoor	15.7 (53,700) ED SYSTEM with Outdoor Condens 8 Tons MMD95E PFH - Outdoor	14.0 (56 sing Unit	with Cent	12.8 (43,700) rifugal Condensing Unit 8 Tons MMD95E MCD - Indoor
16.1°CWB) 45 %RH 72°F DB, 60°F WB (22.2°C DB, 15.5°CWB) 50 %RH Evaporator Condensing Unit Net Capacity Data* - kW (Btul 80°F DB, 62.8°F WB (26.7°C	Total Sensible	20.3 (69,200) 16.1 (55,000) with Outdoor Conden 8 Tons MMD96E PFH - Outdoor 28.4 (96,900)	14.6 (4 60 00 00 00 00 00	9,800) DHZ	12.8 (43,700) AIR COOLE trifugal Condensing Unit 8 Tons MMD96E MCD - Indoor	15.7 (53,700) ED SYSTEM with Outdoor Condens 8 Tons MMD95E PFH - Outdoor 27.9 (95,100)	14.0 (with Cent	12.8 (43,700) rifugal Condensing Unit 8 Tons MMD95E MCD - Indoor
16.1°CWB) 45 %RH 72°F DB, 60°F WB (22.2°C DB, 15.5°CWB) 50 %RH Evaporator Condensing Unit Net Capacity Data* - kW (Btul 80°F DB, 62.8°F WB (26.7°C DB, 17.1°C WB) 38% RH	Total Sensible 1) Total Sensible	20.3 (69,200) 16.1 (55,000) with Outdoor Conden 8 Tons MMD96E PFH - Outdoor 28.4 (96,900) 27.9 (95,200)	14.6 (4 60 150)	9,800) DHZ	12.8 (43,700) AIR COOLE trifugal Condensing Unit 8 Tons MMD96E MCD - Indoor 28.1 (96,000) 27.8 (94,800)	15.7 (53,700) ED SYSTEM with Outdoor Condens 8 Tons MMD95E PFH - Outdoor 27.9 (95,100) 27.5 (94,000)	14.0 (with Cent	12.8 (43,700) rifugal Condensing Unit 8 Tons MMD95E MCD - Indoor 27.6 (94,200) 27.3 (93,300)
16.1°CWB) 45 %RH 72°F DB, 60°F WB (22.2°C DB, 15.5°CWB) 50 %RH Evaporator Condensing Unit Net Capacity Data* - kW (Btul 80°F DB, 62.8°F WB (26.7°C DB, 17.1°C WB) 38% RH 75°F DB, 61°F WB (23.9°C DB, 16.1°C WB) 45% RH 72°F DB, 60°F WB (22.2°C DB,	Total Sensible n) Total Sensible Total	20.3 (69,200) 16.1 (55,000) with Outdoor Conden 8 Tons MMD96E PFH - Outdoor 28.4 (96,900 27.9 (95,200) 27.2 (92,700)	14.6 (4 60 60 60 60 60 60 60 60 60 60 60 60 60	9,800) DHZ	12.8 (43,700) AIR COOLE trifugal Condensing Unit 8 Tons MMD96E MCD - Indoor 28.1 (96,000) 27.8 (94,800) 26.9 (91,800)	15.7 (53,700) ED SYSTEM with Outdoor Condens 8 Tons MMD95E PFH - Outdoor 27.9 (95,100) 27.5 (94,000) 26.6 (90,600)	14.0 (with Cent	12.8 (43,700) rifugal Condensing Unit 8 Tons MMD95E MCD - Indoor 27.6 (94,200) 27.3 (93,300) 26.3 (89,900)
16.1°CWB) 45 %RH 72°F DB, 60°F WB (22.2°C DB, 15.5°CWB) 50 %RH Evaporator Condensing Unit Net Capacity Data* - kW (Btul 80°F DB, 62.8°F WB (26.7°C DB, 17.1°C WB) 38% RH 75°F DB, 61°F WB (23.9°C DB, 16.1°C WB) 45% RH	Total Sensible Total Sensible Total Sensible Sensible	20.3 (69,200) 16.1 (55,000) with Outdoor Conden 8 Tons MMD96E PFH - Outdoor 28.4 (96,900 27.9 (95,200 27.2 (92,700 24.9 (84,900	14.6 (4 60 14.6 (4 60 15.5 (4)	9,800) DHZ	12.8 (43,700) AIR COOLE trifugal Condensing Unit 8 Tons MMD96E MCD - Indoor 28.1 (96,000) 27.8 (94,800) 26.9 (91,800) 24.9 (84,800)	15.7 (53,700) ED SYSTEM with Outdoor Condens 8 Tons MMD95E PFH - Outdoor 27.9 (95,100) 27.5 (94,000) 26.6 (90,600) 24.6 (84,100)	14.0 (with Cent	12.8 (43,700) rifugal Condensing Unit 8 Tons MMD95E MCD - Indoor 27.6 (94,200) 27.3 (93,300) 26.3 (89,900) 24.5 (83,700)
16.1°CWB) 45 %RH 72°F DB, 60°F WB (22.2°C DB, 15.5°CWB) 50 %RH Evaporator Condensing Unit Net Capacity Data* - kW (Btul 80°F DB, 62.8°F WB (26.7°C DB, 17.1°C WB) 38% RH 75°F DB, 61°F WB (23.9°C DB, 16.1°C WB) 45% RH 72°F DB, 60°F WB (22.2°C DB,	Total Sensible Total Sensible Total Sensible Total Total	20.3 (69,200) 16.1 (55,000) with Outdoor Conden 8 Tons MMD96E PFH - Outdoor 28.4 (96,900 27.9 (95,200 27.2 (92,700 24.9 (84,900 26.5 (90,400	14.6 (4 60 14.6 (4 60 19) 19) 19)	9,800) DHZ	12.8 (43,700) AIR COOLE trifugal Condensing Unit 8 Tons MMD96E MCD - Indoor 28.1 (96,000) 27.8 (94,800) 26.9 (91,800) 24.9 (84,800) 26.3 (89,700)	15.7 (53,700) ED SYSTEM with Outdoor Condens 8 Tons MMD95E PFH - Outdoor 27.9 (95,100) 27.5 (94,000) 26.6 (90,600) 24.6 (84,100) 25.9 (88,400)	14.0 (with Cent	12.8 (43,700) rrifugal Condensing Unit 8 Tons MMD95E MCD - Indoor 27.6 (94,200) 27.3 (93,300) 26.3 (89,900) 24.5 (83,700) 25.7 (87,700)
16.1°CWB) 45 %RH 72°F DB, 60°F WB (22.2°C DB, 15.5°CWB) 50 %RH Evaporator Condensing Unit Net Capacity Data* - kW (Btul 80°F DB, 62.8°F WB (26.7°C DB, 17.1°C WB) 38% RH 75°F DB, 61°F WB (23.9°C DB, 16.1°C WB) 45% RH 72°F DB, 60°F WB (22.2°C DB,	Total Sensible Total Sensible Total Sensible Total Total	20.3 (69,200) 16.1 (55,000) with Outdoor Conden 8 Tons MMD96E PFH - Outdoor 28.4 (96,900 27.9 (95,200 27.2 (92,700 24.9 (84,900 26.5 (90,400 22.8 (77,900	14.6 (4 60 14.6 (4 60 01 01 01 01 01 01 01 01 01 01 01 01 01	9,800) HZ with Cen	12.8 (43,700) AIR COOLE trifugal Condensing Unit 8 Tons MMD96E MCD - Indoor 28.1 (96,000) 27.8 (94,800) 26.9 (91,800) 24.9 (84,800) 26.3 (89,700) 22.8 (77,700)	15.7 (53,700) ED SYSTEM with Outdoor Condens 8 Tons MMD95E PFH - Outdoor 27.9 (95,100) 27.5 (94,000) 26.6 (90,600) 24.6 (84,100) 25.9 (88,400) 22.7 (77,300)	14.0 (5t) 5t) 5t) 6t) 6t) 6tyCol 8tyMax	with Cent	12.8 (43,700) rifugal Condensing Unit 8 Tons MMD95E MCD - Indoor 27.6 (94,200) 27.3 (93,300) 26.3 (89,900) 24.5 (83,700) 25.7 (87,700) 22.5 (76,900)
16.1°CWB) 45 %RH 72°F DB, 60°F WB (22.2°C DB, 15.5°CWB) 50 %RH Evaporator Condensing Unit Net Capacity Data* - kW (Btul 80°F DB, 62.8°F WB (26.7°C DB, 17.1°C WB) 38% RH 75°F DB, 61°F WB (23.9°C DB, 16.1°C WB) 45% RH 72°F DB, 60°F WB (22.2°C DB, 15.5°C WB) 50% RH	Total Sensible Total Sensible Total Sensible Total Sensible Total Sensible	20.3 (69,200) 16.1 (55,000) with Outdoor Conden 8 Tons MMD96E PFH - Outdoor 28.4 (96,900 27.9 (95,200 27.2 (92,700 24.9 (84,900 22.8 (77,900 WATER-COOLED 8 Tons MMD96E	14.6 (4 60 14.6 (4 60 01 01 01 01 01 01 01 01 01 01 01 01 01	9,800) HHZ with Cen COOLED ons 396E	12.8 (43,700) AIR COOLE trifugal Condensing Unit 8 Tons MMD96E MCD - Indoor 28.1 (96,000) 27.8 (94,800) 26.9 (91,800) 24.9 (84,800) 26.3 (89,700) 22.8 (77,700) CHILLED WATER 8 Tons	15.7 (53,700) D SYSTEM with Outdoor Condens 8 Tons MMD95E PFH - Outdoor 27.9 (95,100) 27.5 (94,000) 26.6 (90,600) 24.6 (84,100) 25.9 (88,400) 22.7 (77,300) WATER-COOLED 8 Tons MMD95E	14.0 (5t) 5t) 5t) 6t) 6t) 6tyCol 8tyMax	with Cent with Cent Cooled Tons MD95E	12.8 (43,700) rifugal Condensing Unit 8 Tons MMD95E MCD - Indoor 27.6 (94,200) 27.3 (93,300) 26.3 (89,900) 24.5 (83,700) 25.7 (87,700) 22.5 (76,900) CHILLED WATER 8 Tons
16.1°CWB) 45 %RH 72°F DB, 60°F WB (22.2°C DB, 15.5°CWB) 50 %RH Evaporator Condensing Unit Net Capacity Data* - kW (Btul 80°F DB, 62.8°F WB (26.7°C DB, 17.1°C WB) 38% RH 75°F DB, 61°F WB (23.9°C DB, 16.1°C WB) 45% RH 72°F DB, 60°F WB (22.2°C DB, 15.5°C WB) 50% RH Evaporator Condensing Unit Net Capacity Data* - kW (Btul 80°F DB, 62.8°F WB (26.7°C DB, 16.1°C WB) 45% RH	Total Sensible Total Sensible Total Sensible Total Sensible Total Sensible	20.3 (69,200) 16.1 (55,000) with Outdoor Conden 8 Tons MMD96E PFH - Outdoor 28.4 (96,900 27.9 (95,200 27.2 (92,700 24.9 (84,900 22.8 (77,900 WATER-COOLED 8 Tons MMD96E	14.6 (4 60 15.5 ing Unit 10) 10) 11) 12) 13) 14.6 (4 14.6 (4 14.6 (4) 15.6 ing Unit 16.7 ing Unit 17.7 ing Unit 18.7 ing Unit	9,800) HHZ with Cen COOLED ons 396E	12.8 (43,700) AIR COOLE trifugal Condensing Unit 8 Tons MMD96E MCD - Indoor 28.1 (96,000) 27.8 (94,800) 26.9 (91,800) 24.9 (84,800) 26.3 (89,700) 22.8 (77,700) CHILLED WATER 8 Tons	15.7 (53,700) D SYSTEM with Outdoor Condens 8 Tons MMD95E PFH - Outdoor 27.9 (95,100) 27.5 (94,000) 26.6 (90,600) 24.6 (84,100) 25.9 (88,400) 22.7 (77,300) WATER-COOLED 8 Tons MMD95E	14.0 (5ti 5ti 5ti 5ti 6ti 6ti 6ti 6ti	with Cent with Cent Cooled Tons MD95E	12.8 (43,700) rifugal Condensing Unit 8 Tons MMD95E MCD - Indoor 27.6 (94,200) 27.3 (93,300) 26.3 (89,900) 24.5 (83,700) 25.7 (87,700) 22.5 (76,900) CHILLED WATER 8 Tons
16.1°CWB) 45 %RH 72°F DB, 60°F WB (22.2°C DB, 15.5°CWB) 50 %RH Evaporator Condensing Unit Net Capacity Data* - kW (Btul 80°F DB, 62.8°F WB (26.7°C DB, 17.1°C WB) 38% RH 75°F DB, 61°F WB (23.9°C DB, 16.1°C WB) 45% RH 72°F DB, 60°F WB (22.2°C DB, 15.5°C WB) 50% RH Evaporator Condensing Unit Net Capacity Data* - kW (Btul Bull 180°C DB, 180°	Total Sensible Total Sensible Total Sensible Total Sensible Total Sensible	20.3 (69,200) 16.1 (55,000) with Outdoor Conden 8 Tons MMD96E PFH - Outdoor 28.4 (96,900 27.9 (95,200) 27.2 (92,700) 24.9 (84,900) 26.5 (90,400) 22.8 (77,900) WATER-COOLED 8 Tons MMD96E MCD98W	14.6 (4 60 15.5 (4) 16.6 (4) 16.6 (4) 17.6 (4) 18.7 (5) 19.7 (5) 19.7 (5) 19.7 (5) 19.7 (5) 19.7 (5)	9,800) with Cen COOLED ons 198W	12.8 (43,700) AIR COOLE trifugal Condensing Unit 8 Tons MMD96E MCD - Indoor 28.1 (96,000) 27.8 (94,800) 26.9 (91,800) 24.9 (84,800) 26.3 (89,700) 22.8 (77,700) CHILLED WATER 8 Tons MMD8TC	15.7 (53,700) ED SYSTEM with Outdoor Condens 8 Tons MMD95E PFH - Outdoor 27.9 (95,100) 27.5 (94,000) 26.6 (90,600) 24.6 (84,100) 25.9 (88,400) 22.7 (77,300) WATER-COOLED 8 Tons MMD95E MCD97W	14.0 (5ti 5ti 5ti 5ti 6ti 7ti 9ti 9ti 9ti 14.0 (14.0 (15.0 (1	with Cent with Cent Cent Cent Cent Cent Cent Cent Cent	12.8 (43,700) rifugal Condensing Unit 8 Tons MMD95E MCD - Indoor 27.6 (94,200) 27.3 (93,300) 26.3 (89,900) 24.5 (83,700) 25.7 (87,700) 22.5 (76,900) CHILLED WATER 8 Tons MMD8TC
16.1°CWB) 45 %RH 72°F DB, 60°F WB (22.2°C DB, 15.5°CWB) 50 %RH Evaporator Condensing Unit Net Capacity Data* - kW (Btul 80°F DB, 62.8°F WB (26.7°C DB, 17.1°C WB) 38% RH 75°F DB, 61°F WB (23.9°C DB, 15.5°C WB) 50% RH Evaporator Condensing Unit Net Capacity Data* - kW (Btul 80°F DB, 62.8°F WB (26.7°C DB, 17.1°C WB) 38% RH 75°F DB, 60°F WB (22.2°C DB, 15.5°C WB) 50% RH	Total Sensible Total Sensible Total Sensible Total Sensible Total Sensible Total Total	20.3 (69,200) 16.1 (55,000) with Outdoor Conden 8 Tons MMD96E PFH - Outdoor 28.4 (96,900 27.9 (95,200 27.2 (92,700 24.9 (84,900 26.5 (90,400 22.8 (77,900 WATER-COOLED 8 Tons MMD96E MCD98W 31.1 (106,000)	14.6 (4 60 15.00 10.	9,800) With Cen COOLED Ons 1998W	12.8 (43,700) AIR COOLE trifugal Condensing Unit 8 Tons MMD96E MCD - Indoor 28.1 (96,000) 27.8 (94,800) 26.9 (91,800) 24.9 (84,800) 26.3 (89,700) 22.8 (77,700) CHILLED WATER 8 Tons MMD8TC 29.8 (101,800)	15.7 (53,700) D SYSTEM with Outdoor Condens 8 Tons MMD95E PFH - Outdoor 27.9 (95,100) 27.5 (94,000) 26.6 (90,600) 24.6 (84,100) 25.9 (88,400) 22.7 (77,300) WATER-COOLED 8 Tons MMD95E MCD97W 30.5 (104,000)	14.0 (50 50 50 50 50 61 61 61 61 61 61 61 61 61 61 61 61 61	with Cent with Cent cooled Tons MD95E D97W (90,300)	12.8 (43,700) rifugal Condensing Unit 8 Tons MMD95E MCD - Indoor 27.6 (94,200) 27.3 (93,300) 26.3 (89,900) 24.5 (83,700) 25.7 (87,700) 22.5 (76,900) CHILLED WATER 8 Tons MMD8TC 29.8 (101,800)
16.1°CWB) 45 %RH 72°F DB, 60°F WB (22.2°C DB, 15.5°CWB) 50 %RH Evaporator Condensing Unit Net Capacity Data* - kW (Btul 80°F DB, 62.8°F WB (26.7°C DB, 17.1°C WB) 38% RH 75°F DB, 61°F WB (23.9°C DB, 16.1°C WB) 45% RH 72°F DB, 60°F WB (22.2°C DB, 15.5°C WB) 50% RH Evaporator Condensing Unit Net Capacity Data* - kW (Btul 80°F DB, 62.8°F WB (26.7°C DB, 17.1°C WB) 38% RH	Total Sensible Total Sensible Total Sensible Total Sensible Total Sensible	20.3 (69,200) 16.1 (55,000) with Outdoor Conden 8 Tons MMD96E PFH - Outdoor 28.4 (96,900 27.9 (95,200 24.9 (84,900 26.5 (90,400 22.8 (77,900 WATER-COOLED 8 Tons MMD96E MCD98W 31.1 (106,000) 29.6 (101,000)	14.6 (4 60 15 ising Unit 17 ising Unit 18 ising Unit 19 ising Unit 19 ising Unit 27.0 (9 26.8 (9 25.6 (8)	9,800) HZ with Cen COOLED One 198W 32,000)	12.8 (43,700) AIR COOLE trifugal Condensing Unit 8 Tons MMD96E MCD - Indoor 28.1 (96,000) 27.8 (94,800) 26.9 (91,800) 24.9 (84,800) 26.3 (89,700) 22.8 (77,700) CHILLED WATER 8 Tons MMD8TC 29.8 (101,800) 27.9 (95,100)	15.7 (53,700) ED SYSTEM with Outdoor Condens 8 Tons MMD95E PFH - Outdoor 27.9 (95,100) 27.5 (94,000) 26.6 (90,600) 24.6 (84,100) 25.9 (88,400) 22.7 (77,300) WATER-COOLED 8 Tons MMD95E MCD97W 30.5 (104,000) 29.2 (99,600)	14.0 (50 50 50 50 50 61YCO) 8 MMM MC 26.51	with Cent with Cent L-COOLED TONS MD95E D97W (90,300) (90,100)	12.8 (43,700) rrifugal Condensing Unit 8 Tons MMD95E MCD - Indoor 27.6 (94,200) 27.3 (93,300) 26.3 (89,900) 24.5 (83,700) 25.7 (87,700) 22.5 (76,900) CHILLED WATER 8 Tons MMD8TC 29.8 (101,800) 27.9 (95,100)
16.1°CWB) 45 %RH 72°F DB, 60°F WB (22.2°C DB, 15.5°CWB) 50 %RH Evaporator Condensing Unit Net Capacity Data* - kW (Btul 80°F DB, 62.8°F WB (26.7°C DB, 17.1°C WB) 38% RH 75°F DB, 61°F WB (23.9°C DB, 15.5°C WB) 50% RH Evaporator Condensing Unit Net Capacity Data* - kW (Btul 80°F DB, 62.8°F WB (26.7°C DB, 17.1°C WB) 38% RH 75°F DB, 60°F WB (22.2°C DB, 15.5°C WB) 50% RH	Total Sensible Total Sensible Total Sensible Total Sensible Total Sensible Total Sensible Total Sensible	20.3 (69,200) 16.1 (55,000) with Outdoor Conden 8 Tons MMD96E PFH - Outdoor 28.4 (96,900 27.9 (95,200 24.9 (84,900 26.5 (90,400 22.8 (77,900 WATER-COOLED 8 Tons MMD96E MCD98W 31.1 (106,000) 29.6 (101,000) 29.9 (102,000)	14.6 (4 60 15.0 (4 60 15.0 (4 60 15.0 (4 60 15.0 (4 60 60 60 60 60 60 60 60 60 6	9,800) WHZ with Cen COOLED Ons 32,000) 31,600) 37,500)	12.8 (43,700) AIR COOLE trifugal Condensing Unit 8 Tons MMD96E MCD - Indoor 28.1 (96,000) 27.8 (94,800) 26.9 (91,800) 24.9 (84,800) 26.3 (89,700) 22.8 (77,700) CHILLED WATER 8 Tons MMD8TC 29.8 (101,800) 27.9 (95,100) 24.0 (82,000)	15.7 (53,700) ED SYSTEM with Outdoor Condens 8 Tons MMD95E PFH - Outdoor 27.9 (95,100) 27.5 (94,000) 24.6 (84,100) 25.9 (88,400) 22.7 (77,300) WATER-COOLED 8 Tons MMD95E MCD97W 30.5 (104,000) 29.2 (99,600) 29.3 (100,000)	14.0 (51 14.0 (51 51 51 51 51 61 61 61 61 61	with Cent with Cent L-COOLED Tons MD95E D97W (90,300) (90,100) (85,600)	12.8 (43,700) rrifugal Condensing Unit 8 Tons MMD95E MCD - Indoor 27.6 (94,200) 27.3 (93,300) 26.3 (89,900) 24.5 (83,700) 25.7 (87,700) 22.5 (76,900) CHILLED WATER 8 Tons MMD8TC 29.8 (101,800) 27.9 (95,100) 24.0 (82,000)

^{*}The net capacity data has fan motor heat factored in for all ratings and the entering air conditions of 75°F (23.9°C), 45% RH, is the standard rating condition for ASHRAE 127-2007. All capacities are nominal values; actual performance will be ±5%.

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SL-10500 (R09/11) Printed in USA

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