Precision Cooling For Business-Critical Continuity™

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





The Solution For Your Cooling Needs May Be Right Above You

When the need calls for precision cooling and humidity control, but your floor space says otherwise, 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







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:

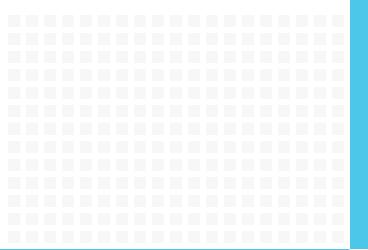
Uses Zero Floor Space. The evaporator and indoor condensing units are mounted above the dropped ceiling, requiring minimal site disturbance.

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 Agency listed/certified to meet U.S. and Canadian safety standards, and MEA listed for New York City applications. These agency listings ensure fast, hassle-free inspection and building code approvals.

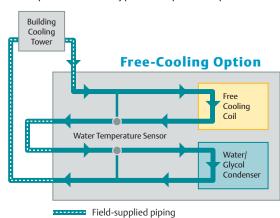


Liebert Monitoring Solutions: When You Need To Know

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.

Products include:

Liebert SiteScan Web Software



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 LiebertMini-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

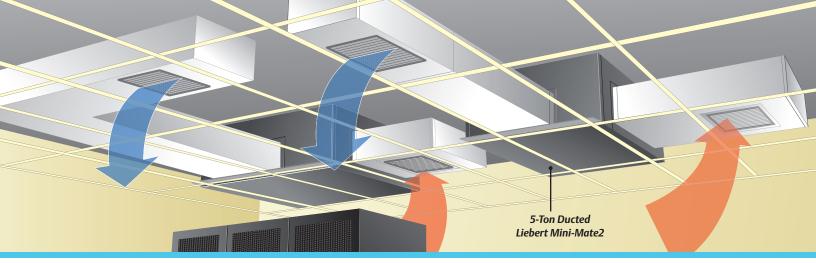


A Variety Of Options Help You Meet Numerous Applications:

- 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, 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



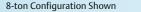


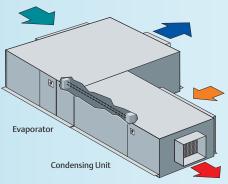
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System Types

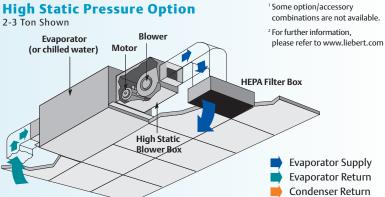
Product Option Availability	Capacity (Tons)							
rioudee option in anaomey	1	1.5	2	3	5	8		
Chilled Water (rated @ 300 psi static pressure)		•		•	•			
Chilled Water (rated @ 400 psi static pressure)					•	•		
Self-Contained Air-Cooled	•	•						
Self-Contained Water/Glycol-Cooled	•	•						
Split System Air-Cooled w/Centrifugal Indoor Condensing Unit			•	•	•	•		
Split System Air-Cooled w/Outdoor High Ambient Prop Fan Condensing Unit			•	•	•			
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	•	•	•	•	•	•		
Chilled Water w/High Close-Off Pressure Valve		•		•	•	•		
Direct-Drive Motor/Two-Speed	•	•	•	•				
Filter Clog Alarm	•	•	•	•	•	•		
High Temp Sensor (Firestat)	•	•	•	•	•	•		
Free-Cooling Coil (Cu or CuNi Versions)	•	•	•	•	•	•		
Hot Gas Reheat (self-contained systems only)	•	•						
Hot Water Reheat	•	•	•	•	•			
Internal Disconnect Switch	•	•	•	•	•	•		
SCR Reheat	•	•	•	•	•	•		
Smoke Sensor	•	•	•	•	•	•		
Stainless Steel Electric Reheat	•	•	•	•	•	•		
R407C	•	•	•	•	•	•		
High External Static Option			•	•	•	•		
15' or 30' Refrigerant Line Sets (R22 only)	•	•	•	•				
Condensate Pump Kit	•	•	•	•	•	•		
Duct Kit	•	•	•	•	•	•		
Filter Box	•	•	•	•	•	•		
Remote Sensors	•	•	•	•	•	•		
Single Point Power Kit			•	•	•	•		
Supply & Return Grille/Plenum	•	•	•	•				
Liebert Controller	•	•	•	•	•	•		
Liebert Liqui-tect 410 Point Detection Leak Detection Sensor	•	•	•	•	•	•		
Liebert LT460-K Zone Leak Detection Kits	•	•	•	•	•	•		
Liebert IntelliSlot Web/485 Card ADPT	•	•	•	•	•	•		
Liebert ENV-DO Environmental Interface Card	•	•	•	•	•	•		
Liebert AC8 Controller	•	•	•	•	•	•		
Liebert RCM4 Four-Point Dry Contact Monitor	•	•	•	•	•	•		
Liebert Universal Monitor Remote Dry Contact Monitor	•	•	•	•	•	•		
Liebert Site Scan Monitoring	•	•	•	•	•	•		
Circle De int Desser 1/11								

Single-Point Power Kit 8-ton Configuration Shown

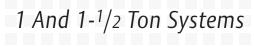


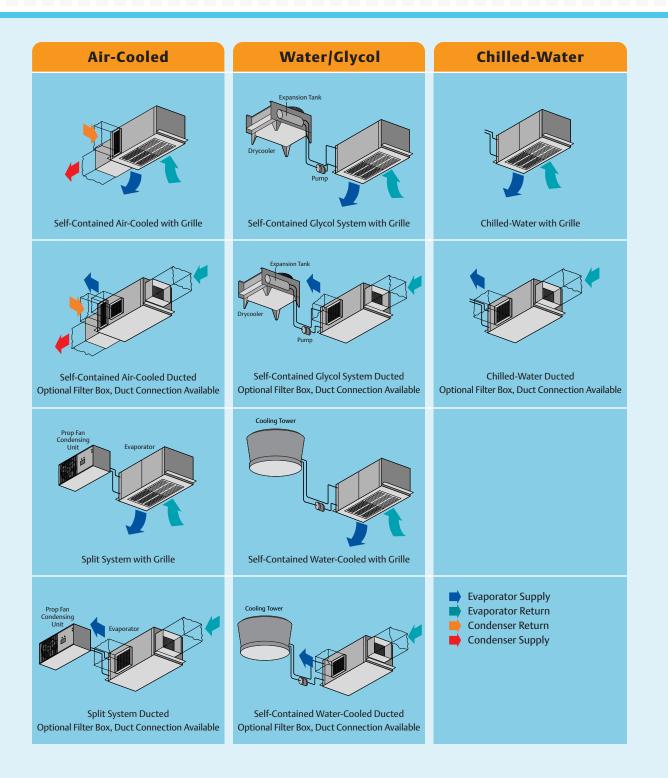


Field installed single-point power kit simplifies connection and installation.



Condenser Supply





Specifications 1 And 1-1/2 Ton Systems

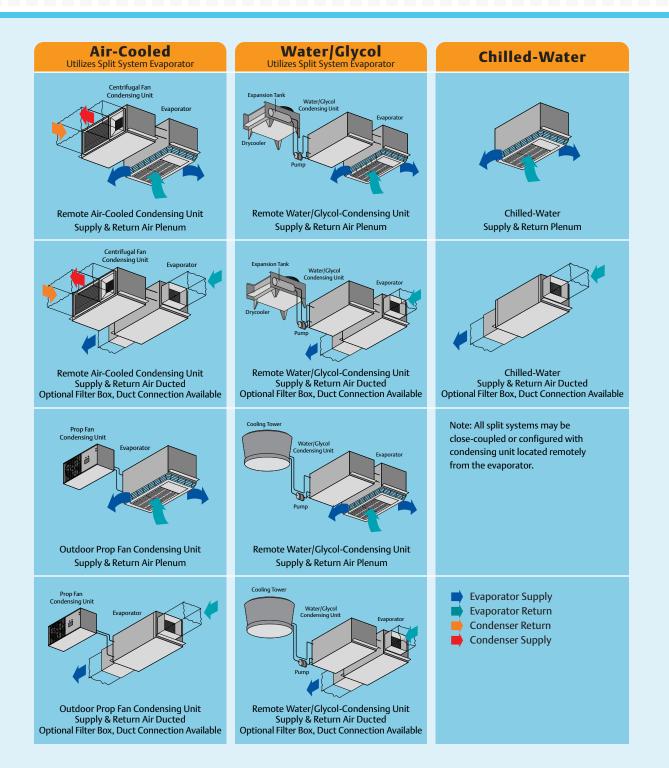
			60	HZ			50	U7		
			00		AIR COOLE	50 HZ				
		with Outdoor (and an sing Unit	unith Contrifund			andonaina Unit	with Contrifuent	Condonaina Unit	
			Condensing Unit	with Centrifugal	2	with Outdoor C	5		gal Condensing Unit	
			System	Self-Cor		Split S	,	Self-Contained		
		1 Ton	1.5 Tons	1 Ton	1.5 Tons	1 Ton	1.5 Tons	1 Ton	1.5 Tons	
Evaporator		MMD12E	MMD18E	MMD12A	MMD18A	MMD11E	MMD17E	MMD11A	MMD17A	
Condensing Unit		PFH014A	PFH020A	MM2CF	MM2CF	PFH013A	PFH019A	MM2CF	MM2CF	
Net Capacity Da	ta *BTUH (k	W) High Fan Sp	beed							
80 F (27.7) DB	Total	14,100 (4.1)	19,800 (5.8)	13,300 (3.9)	19,300 (5.7)	14,400 (4.2)	21,200 (4.2)	13,400 (3.9)	20,800 (6.1)	
50% RH	Sensible	11,600 (3.4)	15,500 (4.5)	11,300 (3.3)	15,300 (4.5)	11,700 (3.4)	16,000 (4.7)	11,300 (3.3)	15,900 (4.7)	
75 F (23.9 C) DB	Total	13,000 (3.8)	18,400 (5.4)	12,300 (3.6)	18,000 (5.3)	13,300 (3.9)	19,800 (5.8)	12,400 (3.6)	19,500 (5.7)	
50% RH	Sensible	11,200 (3.3)	15,000 (4.4)	10,900 (3.2)	14,900 (4.4)	11,300 (3.3)	11,300 (3.3) 15,600 (4.6)		15,500 (4.5)	
72 F (22.2 C) DB	Total	12,400 (3.6)	17,700 (5.2)	11,800 (3.5)	17,300 (5.1)	12,700 (3.7)	19,000 (5.6)	11,900 (3.5)	18,700 (5.5)	
50% RH	Sensible	10,900 (3.2)	14,800 (4.3)	10,600 (3.1)	14,600 (4.3)	11,000 (3.2) 15,300 (4.5)		10,700 (3.1)	15,200 (4.5)	
Net Capacity Da	ta *BTUH (k	W) Low Fan Sp	eed							
80 F (26.7) DB	Total	14,000 (4.1)	19,300 (5.7)	13,300 (3.9)	18,800 (5.5)	14,300 (4.2)	20,600 (6.0)	13,400 (3.9)	20,300 (5.9)	
50% RH	Sensible	10,500 (3.1)	13,800 (4.0)	10,200 (3.0)	13,700 (4.0)	10,600 (3.1)	14,400 (4.2)	10,200 (3.0)	14,200 (4.2)	
75 F (23.9 C) DB	Total	12,900 (3.8)	18,000 (5.3)	12,300 (3.6)	17,700 (5.2)	13,200 (3.9)	19,200 (5.6)	12,400 (3.6)	18,900 (5.5)	
50% RH	Sensible	10,100 (3.0)	13,500 (4.0)	9,900 (2.9)	13,400 (3.9)	10,200 (3.0)	14,000 (4.1)	9,900 (2.9)	13,900 (4.1)	
72 F (22.2) DB	Total	12,300 (3.6)	17,200 (5.0)	11,800 (3.5)	16,900 (5.0)	12,600 (3.7)	18,400 (5.4)	11,900 (3.5)	18,200 (5.3)	
50% RH	Sensible	9,900 (2.9)	13,300 (3.9)	9,700 (2.8)	13,100 (3.8)	10,000 (2.9)	13,800 (4.0)	9,700 (2.8)	14,200 (4.2)	

			60	HZ		50 HZ				
		WATER	COOLED	GLYCOL	COOLED	WATER	COOLED	GLYCOL COOLED		
		Self-Co	ntained	Self-Co	ntained	Self-Co	ntained	Self-Contained		
		1 Ton	1.5 Tons	1 Ton 1.5 Tons		1 Ton	1.5 Tons	1 Ton	1.5 Tons	
Evaporator		MMD14W	MMD20W	MMD14W	MMD20W MMD13W MMD19		MMD19W	MMD13W	MMD19W	
Net Capacity Dat	t a * BTUH (k	W) High Fan Sp	beed							
80F (26.7) DB	Total	15,000 (4.4)	22,000 (6.4)	13,700 (4.0)	19,900 (5.8)	15,000 (4.4)	23,000 (6.7)	13,900 (4.1)	21,300 (6.2)	
50% RH	Sensible	12,500 (3.7)	16,600 (4.9)	12,000 (3.5)	15,800 (4.6)	12,400 (3.6)	15,500 (4.5)	12,000 (3.5)	16,400 (4.8)	
75 F (23.9 C) DB	Total	13,900 (4.1)	20,500 (6.0)	12,800 (3.8)	18,600 (5.4)	13,900 (4.1)	21,300 (6.2)	12,900 (3.8)	20,000 (5.9)	
50% RH	Sensible	12,000 (3.5)	16,100 (4.7)	11,600 (3.4)	15,400 (4.5)	12,000 (3.5)	15,100 (4.4)	11,600 (3.4)	15,900 (4.7)	
72 F (22.2 C) DB	Total	13,300 (3.9)	19,600 (5.7)	12,300 (3.6)	17,900 (5.2)	13,300 (3.9)	20,400 (5.6)	12,400 (3.6)	19,200 (5.6)	
50% RH	Sensible	11,800 (3.5)	15,800 (4.6)	11,400 (3.3)	15,100 (4.4)	11,800 (3.5)	14,900 (4.4)	11,400 (3.3)	15,700 (4.6)	
Net Capacity Dat	ta*BTUH (k	W) Low Fan Sp	eed							
80 F (26.7) DB	Total	14,600 (4.3)	21,100 (6.2)	13,400 (3.9)	18,900 (5.5)	14,500 (4.2)	23,900 (7.0)	13,500 (4.0)	20,700 (6.1)	
50% RH	Sensible	11,000 (3.2)	14,800 (4.3)	10,500 (3.1)	13,900 (4.1)	11,000 (3.2)	17,300 (5.1)	10,600 (3.1)	14,600 (4.3)	
75 F (23.9 C) DB	Total	13,500 (4.0)	19,700 (5.8)	12,500 (3.7)	17,800 (5.2)	13,500 (4.0)	22,200 (6.5)	12,600 (3.7)	19,300 (5.7)	
50% RH	Sensible	10,700 (3.1)	14,400 (4.2)	10,200 (3.0)	13,600 (4.0)	10,600 (3.1)	16,900 (5.0)	10,300 (3.0)	14,300 (4.2)	
72 F (22.2 C) DB	Total	12,900 (3.8)	18,900 (5.5)	12,000 (3.5)	17,100 (5.0)	12,900 (3.8)	21,200 (6.2)	12,100 (3.5)	18,600 (5.4)	
50% RH	Sensible	10,400 (3.0)	14,200 (4.2)	10,000 (2.9)	13,400 (3.9)	10,400 (3.0)	16,500 (4.8)	10,100 (3.0)	14,000 (4.1)	

	60 HZ	50 HZ				
	CHILLED	WATER				
	Self-Contained	Self-Contained				
	1.5 Tons	1.5 Tons				
Evaporator	MMD23C	MMD22C				
Capacity Data BTUH (kW)	High Fan Speed					
80 F (26.7) DB Total	21,800 (6.4)	21,800 (6.4)				
50% RH Sensible	16,000 (4.7)	16,000 (4.7)				
75 F (23.9 C) DB Total	14,300 (4.2)	14,300 (4.2)				
50% RH Sensible	13,100 (3.8)	13,100 (3.8)				
72 F (22.2 C) DB Total	11,000 (3.2)	11,000 (3.2)				
50% RH Sensible	11,000 (3.2)	11,000 (3.2)				
Capacity Data BTUH (kW)	.ow Fan Speed					
80 F (26.7) DB Total	17,100 (5.2)	17,100 (5.2)				
50% RH Sensible	12,800 (3.7)	12,800 (3.7)				
75 F (23.9 C) DB Total	11,300 (3.1)	11,300 (3.1)				
50% RH Sensible	10,300 (3.0)	10,300 (3.0)				
72 F (22.2 C) DB Total	8,500 (2.5)	8,500 (2.5)				
50% RH Sensible	8,500 (2.5)	8,500 (2.5)				

*The net capacity data has fan motor heat factored in for all ratings and the entering air condition of 72°F (22.2°C), 50% RH is the standard rating condition of ASHRAE 127-2001

2 And 3 Ton Systems



Specifications 2 And 3 Ton Split Systems

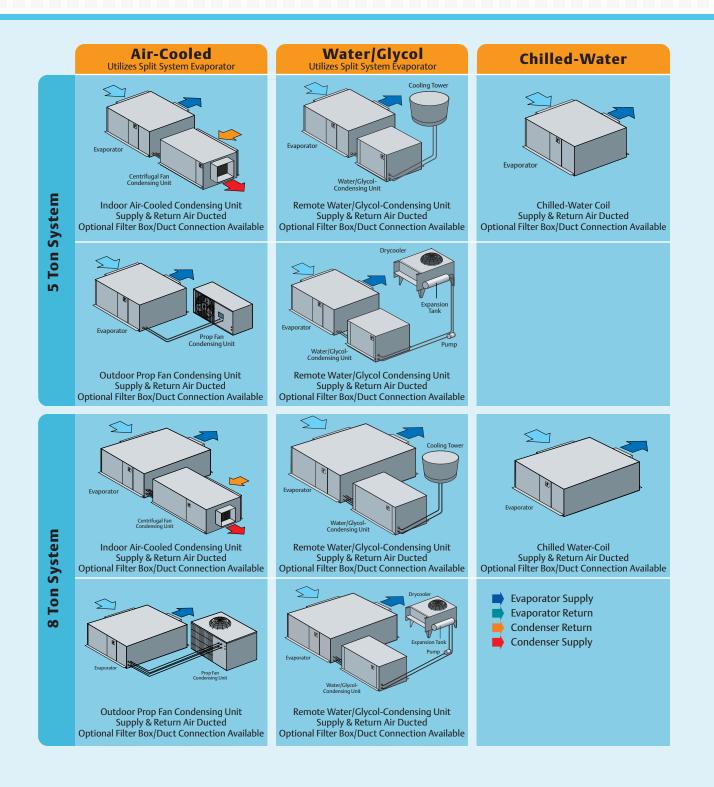
			60	HZ		50 HZ					
					AIR COOLE	D SYSTEM					
		with Outdoor O	ondensing Unit with Centrifugal Condensing Unit			with Outdoor C	ondensing Unit	with Centrifugal	with Centrifugal Condensing Unit		
		2 Tons	3 Tons	2 Tons	2 Tons 3 Tons		3 Tons	2 Tons	3 Tons		
Evaporator		MMD24E	MMD36E	MMD24E	MMD36E	MMD23E	MMD35E	MMD23E	MMD35E		
Condensing Unit		PFH027A	PFH037A	MCD24A	MCD36A	PFH026A	PFH036A	MCD23A	MCD35A		
Net Capacity Dat	a*BTUH (k	W) High Fan S	peed								
80 F (26.7 C) DB	Total	25,600 (7.5)	36,900 (10.8)	24,200 (7.1)	34,100 (10.0)	23,800 (7.0)	34,500 (10.1)	22,700 (6.7)	31,800 (9.3)		
50% RH	Sensible	20,900 (6.1)	26,600 (7.8)	20,300 (5.9)	28,300 (8.3)	20,200 (5.9)	28,400 (8.3)	19,800 (5.8)	27,400 (8.0)		
75 F (23.9 C) DB	Total	23,800 (7.0)	34,200 (10.0)	22,400 (6.6)	31,700 (9.3)	22,100 (6.5)	32,100 (9.4)	21,000 (6.2)	29,600 (8.7)		
50% RH	Sensible	20,100 (5.9)	25,700 (7.5)	19,500 (5.7)	27,200 (8.0)	19,400 (5.7)	27,400 (8.0)	19,000 (5.6)	26,400 (7.7)		
72 F (22.2 C) DB	Total	22,900 (6.7)	32,900 (9.6)	21,400 (6.3)	30,400 (8.9)	21,200 (6.2)	30,800 (9.0)	20,100 (5.9)	28,300 (8.3)		
50% RH	Sensible	19,700 (5.8)	25,200 (7.4)	19,100 (5.6)	26,500 (7.8)	19,000 (5.6)	26,700 (7.8)	18,500 (5.4)	25,700 (7.5)		
Net Capacity Dat	a*BTUH (k	W) Low Fan Sp	eed								
80 F (26.7 C) DB	Total	25,500 (7.5)	36,900 (10.8)	24,000 (7.0)	33,600 (9.8)	23,700 (6.9)	34,000 (10.0)	22,600 (6.6)	31,500 (9.2)		
50% RH	Sensible	19,800 (5.8)	26,600 (7.8)	19,300 (5.7)	25,300 (7.4)	19,100 (5.6)	25,400 (7.4)	18,700 (5.5)	24,400 (7.1)		
75 F (23.9 C) DB	Total	23,800 (7.0)	34,200 (10.0)	22,300 (6.5)	31,300 (9.2)	22,000 (6.4)	31,700 (9.3)	20,900 (6.1)	29,300 (8.6)		
50% RH	Sensible	19,200 (5.6)	25,700 (7.5)	18,500 (5.4)	24,300 (7.1)	18,400 (5.4)	24,600 (7.2)	18,000 (5.3)	23,600 (6.9)		
72 F (22.2 C) DB	Total	22,700 (6.7)	32,900 (9.6)	21,300 (6.2)	29,900 (8.8)	21,100 (6.2)	30,400 (8.9)	20,000 (5.9)	28,000 (8.2)		
50% RH	Sensible	18,700 (5.5)	25,200 (7.4)	18,100 (5.3)	23,900 (7.0)	18,000 (5.3)	24,100 (7.1)	17,500 (5.1)	23,100 (6.8)		

			60	HZ		50 HZ				
		WATER	COOLED	GLYCOL	COOLED	WATER	COOLED	GLYCOL COOLED		
		2 Tons	3 Tons	2 Tons	3 Tons	2 Tons	3 Tons	2 Tons	3 Tons	
Evaporator		MMD24E	MMD36E	MMD24E	MMD36E	MMD23E	MMD35E	MMD23E	MMD35E	
Condensing Unit		MCD26W	MCD38W	MCD26W	MCD38W	MCD25W	MCD37W	MCD25W	MCD37W	
Net Capacity Dat	a*BTUH (k	W) High Fan S	peed							
80 F (26.7 C) DB	Total	26,600 (7.8)	38,400 (11.3)	23,000 (6.7)	35,200 (10.3)	24,900 (7.3)	35,700 (10.5)	21,300 (6.2)	32,600 (9.6)	
50% RH	Sensible	21,300 (6.2)	29,900 (8.8)	19,900 (5.8)	28,700 (8.4)	20,600 (6.0)	28,900 (8.5)	19,300 (5.7)	27,700 (8.1)	
75 F (23.9 C) DB	Total	24,600 (7.2)	35,600 (10.4)	21,400 (6.3)	32,700 (9.6)	22,800 (6.7)	33,000 (9.7)	19,800 (5.8)	30,400 (8.9)	
50% RH	Sensible	20,400 (6.0)	28,800 (8.4)	19,100 (5.6)	27,600 (8.1)	19,700 (5.8)	27,700 (8.1)	18,500 (5.4)	26,700 (7.8)	
72 F (22.2 C) DB	Total	23,400 (6.9)	33,900 (9.9)	20,500 (6.0)	31,300 (9.2)	21,800 (6.4)	31,500 (9.2)	18,700 (5.5)	29,100 (8.5)	
50% RH	Sensible	19,900 (5.8)	28,100 (8.2)	18,700 (5.5)	27,000 (7.9)	19,200 (5.6)	27,100 (7.9)	18,700 (5.5)	26,000 (7.6)	
Net Capacity Dat	a*BTUH (k	W) Low Fan Sp	eed							
80 F (26.7 C) DB	Total	26,200 (7.7)	37,400 (11.0)	22,700 (6.7)	34,200 (10.0)	24,500 (7.2)	34,600 (10.1)	21,100 (6.2)	31,800 (9.3)	
50% RH	Sensible	20,100 (5.9)	26,700 (7.8)	18,800 (5.5)	25,500 (7.5)	19,500 (5.7)	25,700 (7.5)	18,200 (5.3)	24,600 (7.2)	
75 F (23.9 C) DB	Total	24,200 (7.1)	34,400 (10.1)	21,100 (6.2)	31,800 (9.3)	22,600 (6.6)	32,000 (9.4)	19,600 (5.7)	29,600 (8.7)	
50% RH	Sensible	19,400 (5.7)	25,800 (7.6)	18,100 (5.3)	24,700 (7.2)	18,700 (5.5)	24,800 (7.3)	17,500 (5.1)	23,700 (6.9)	
72 F (22.2 C) DB	Total	23,000 (6.7)	32,900 (9.6)	20,300 (5.9)	30,500 (8.9)	21,500 (6.3)	30,600 (9.0)	18,800 (5.5)	28,300 (8.3)	
50% RH	Sensible	18,900 (5.5)	25,200 (7.4)	17,700 (5.2)	24,100 (7.1)	18,200 (5.3)	24,200 (7.1)	17,000 (5.0)	23,200 (6.8)	

		60 HZ	50 HZ
		CHILLED	WATER
		3 Tons	3 Tons
Evaporator		MMD40C	MMD39C
Capacity Data BT	UH (kW) H	igh Fan Speed	
80 F (26.7 C) DB	Total	49,200 (14.4)	49,200 (14.4)
50% RH	Sensible	33,100 (9.7)	33,100 (9.7)
75 F (23.9 C) DB	Total	33,900 (9.9)	33,900 (9.9)
50% RH	Sensible	27,800 (8.1)	27,800 (8.1)
72 F (22.2 C) DB	Total	27,100 (7.9)	27,100 (7.9)
50% RH	Sensible	24,900 (7.3)	24,900 (7.3)
Capacity Data BT	UH (kW) Lo	ow Fan Speed	
80 F (26.7 C) DB	Total	40,700 (11.9)	40,700 (11.9)
50% RH	Sensible	26,900 (7.9)	26,900 (7.9)
75 F (23.9 C) DB	Total	27,700 (8.1)	27,700 (8.1)
50% RH	Sensible	22,300 (6.5)	22,300 (6.5)
72 F (22.2 C) DB	Total	21,700 (6.4)	21,700 (6.4)
50% RH	Sensible	19,800 (5.8)	19,800 (5.8)

*The net capacity data has fan motor heat factored in for all ratings and the entering air condition of 72'F (22.2'C), 50% RH is the standard rating condition of ASHRAE 127-2001

5 And 8 Ton Systems



Specifications 5 And 8 Ton Split Systems

60 Hz 50 Hz												
				50 Hz								
					AIR COOLE	D SYSTEM						
		w/Outdoor Condensi	ng Unit	w/Centr	ifugal Condensing Unit	w/Outdoor Condensi	ng Unit	w/Centrifugal Condensing Unit				
		5 Tons			5 Tons	5 Tons			5 Tons			
Evaporator		MMD60E			MMD60E	MMD59E			MMD59E			
Condensing Unit		PFH067A			MCD65A	PFH066A			MCD64A			
Net Capacity Data*	-BTUH (kW)		,					,				
80 F (26.7 C) DB	Total	65,000 (19.0))	6	6,200 (19.4)	65,400 (19.2)	6	5,500 (19.2)			
50% RH	Sensible	54,400 (15.9)	5	4,800 (16.1)	54,800 (16.1)		5	4,800 (16.1)			
75 F (23.9 C) DB	Total	60,500 (17.7	7)		1,800 (18.1)	60,000 (17.6)	61,000 (17.9)				
50% RH	Sensible	52,600 (15.4			3,100 (15.6)	,100 (15.6) 52,600 (15.4)		5	3,000 (15.5)			
72 F (22.2 C) DB	Total	58,100 (17.0)	5	9,400 (17.4)	57,200 (16.8)	5	8,600 (17.2)			
50% RH	Sensible	51,500 (15.1)	5	2,100 (15.3)	51,300 (15.0	51,300 (15.0)		1,900 (15.2)			
		WATER COOLED	GLYCOL		CHILLED WATER	WATER COOLED	GLYCOL		CHILLED WATER			
		5 Tons	5 To		5 Tons	5 Tons		ons	5 Tons			
Evaporator		MMD60E	MME	060E	MMD92C	MMD59E	MME	D59E	MMD91C			
Condensing Unit		MCD69W	MCD	69W		MCD68W	MCD	68W				
Net Capacity Data*	-BTUH (kW)											
80 F (26.7 C) DB	Total	70,800 (20.7)	63,400	(18.6)	94,000 (27.5)	70,000 (20.5)	62,000) (18.2)	94,000 (27.5)			
50% RH	Sensible	56,900 (16.7)	54,200	(15.9)	64,000 (18.8)	56,600 (16.6)	53,700) (15.7)	64,000 (18.8)			
75 F (23.9 C) DB	Total	66,100 (19.4)	59,300	(17.4)	62,900 (18.4)	65,100 (19.1)	57,900) (17.0)	62,900 (18.4)			
50% RH	Sensible	55,200 (16.2)	52,500	(15.4)	53,300 (15.6)	54,800 (16.1)	51,900) (15.2)	53,300 (15.6)			
72 F (22.2 C) DB	Total	63,300 (18.5)	57,000	(16.7)	51,300 (15.0)	62,200 (18.2)	55,700) (16.3)	51,300 (15.0)			
50% RH	Sensible	54,100 (15.9)	51,400	(15.1)	48,300 (14.2)	53,600 (15.7)	50,900) (14.9)	48,300 (14.2)			

			60 Hz 50								
		AIR COOLED SYSTEM									
		w/Outdoor Condensir	ng Unit	w/Cent	rifugal Condensing Unit	w/Outdoor Condensing Unit			w/Centrifugal Condensing Unit		
		8 Tons			8 Tons	8 Tons				8 Tons	
Evaporator		MMD96E			MMD96E		MMD95E		MMD95E		
Condensing Unit		PFH096A			MCD96A		PFH095A			MCD95A	
Net Capacity Data*	-BTUH (kW)										
80 F (26.7 C) DB	Total	100,200 (29.4	4)		95,900 (28.1)	9	6,700 (28.3)		9	3,800 (27.5)	
50% RH	Sensible	80,500 (23.6			79,400 (23.3)		9,300 (23.2)			8,300 (22.9)	
75 F (23.9 C) DB	Total	93,100 (27.3)		89,500 (26.2)	90,200 (26.4)		8	7,400 (25.6)		
50% RH	Sensible	78,600 (23.0)		77,000 (22.6)	77,400 (22.7)		7	6,200 (22.3)		
72 F (22.2 C) DB	Total	89,200 (26.1)		86,800 (25.4)	86,200 (25.3)		83,600 (24.5)			
50% RH	Sensible	77,200 (22.6)		76,500 (22.4)	75,900 (22.2)			7	74,900 (21.9)	
		WATER COOLED		COOLED	CHILLED WATER		COOLED		COOLED	CHILLED WATER	
		8 Tons		ons	8 Tons	8 T		8 To		8 Tons	
Evaporator		MMD96E		D96E	MMD8TC	MMI		MME		MMD8TC	
Condensing Unit		MCD98W	MCD	98W		MCD	97W	MCD	97W		
Net Capacity Data*	-BTUH (kW)										
80 F (26.7 C) DB	Total	105,000 (30.8)	93,000	(27.2)	145,600 (42.7)	101,100		89,600	(26.3)	145,600 (42.7)	
50% RH	Sensible	83,300 (24.4)	77,500	(22.7)	98,300 (28.8)	81,000	(23.7)	76,500	(22.4)	98,300 (28.8)	
75 F (23.9 C) DB	Total	97,400 (28.5)	86,400	(25.3)	96,900 (28.4)	93,600		84,500	(24.8)	96,900 (28.4)	
50% RH	Sensible	81,300 (23.8)	75,000	(22.0)	81,400 (23.8)	78,700	(23.1)	75,600	(22.2)	81,400 (23.8)	
72 F (22.2 C) DB	Total	93,200 (27.3)	84,100	(24.6)	80,200 (23.5)	89,400	(26.2)	81,100		80,200 (23.5)	
50% RH	Sensible	79,000 (23.1)	75,300	(22.1)	74,300 (21.8)	77,100	77,100 (22.6)		(21.7)	74,300 (21.8)	

*The net capacity data has fan motor heat factored in for all ratings and the entering air condition of 72°F (22.2°C), 50% RH is the standard rating condition of ASHRAE 127-2001

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