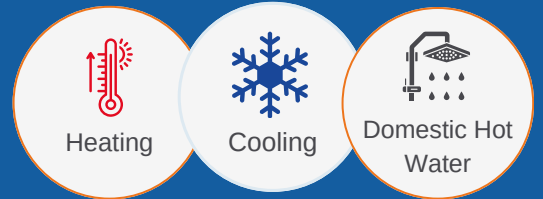




M-Thermal Split Series

A Refrigerant to Water Heat Pump that can do it all.



Introducing an all in one electric heat pump to provide year round cooling, heating *and* domestic hot water.

5 TON NOMINAL



CASCADE UP TO 6 SYSTEMS

- ✓ Benefit from highly efficient, convenient and reliable comfort
- ✓ Remove the need for traditional gas boilers
- ✓ Whisper quiet operation
- ✓ Latest green technology with integrated inverter compressors
- ✓ Reduce carbon footprint with R32 environmental refrigerant



Outdoor Model - MAMHA-V16WD2MN8 (5 TON NOMINAL)

Outdoor Unit	12/14/16		
Rated water flow	gpm	12.11	
Compressor	Type	Twin rotary DC inverter	
Outdoor fan	Motor type	Brushless DC motor	
	Number of fans	1	
Air side heat exchanger	Type	Finned tube	
Refrigerant(R32)	Factory charge	lb	4-3/64
Refrigerant Control	Electronic expansion valve		
Refrigerant piping	Connection Type	Flare	
	Liquid Dia.(OD)	in	3/8
	Gas Dia.(OD)	in	5/8
	Min. pipe length	ft	7
	Max. pipe length	ft	98
Max.installation height vertical difference	Outdoor unit above	ft	65
	Outdoor unit below	ft	65
Sound pressure level(39.37 in ³)	dB(A)	57	
ODU Net dimensions (WxHxD)	in	44-1/64x34-1/16x20-19/32	
ODU Packed dimensions (WxHxD)	in	46-55/64x38-3/16x22-1/16	
ODU Net/Gross weight	lb	213.85 / 243.61	
Operating temperature range	Cooling	*F	23 to 109.4
	Heating	*F	-13 to 95
	DHW	*F	-13 to 109.4
Electrical Specifications	Voltage	V/PHz	208-230/1/60
	MCA	A	34
	MOP	A	50

Indoor Model - MAHB-A160CMDM30GN8

Indoor Unit				
Function			Heating and cooling	
Setting water temperature range	Cooling	*F	41-77	
	Heating	*F	77-149	
	DHW ²	*F	68-140	
Power supply	208/230 V~ 60 Hz			
Backup E-heater (Optional)	Standard mounted	kW	Optional	
	Optional	kW	3	
	Capacity steps	1		
	Power supply	3 kW	208/230 V~ 60 Hz	
Sound pressure level(39.37 in ³)	dB(A)	31		
Dimension (WxHxD)	in	16-35/64x31-7/64x10-5/8		
Packing (WxHxD)	in	20-43/64x41-11/32x14-11/64		
Net/gross weight (Without backup heater)	lb	87.01/96.92		
Net/gross weight (Backup heater installed in the unit)	lb	100.22/110.13		
Water circuit	Piping connections ²	in	1" (Adapter Inc.)	
	Safety valve set pressure	psi	43.51	
	Drain pipe connection	in	1	
	Expansion tank	Volume	gallon	1.32
		Max. water pressure	psi	43.51
		Pre-pressure	psi	14.50
	Water side exchanger	Plate type		
	Water pump head	ft	29.5	
	Water flow range	gpm	3.08-13.21	
	Internal water volume	gallon	0.66-1.93	

Notes:

1. Sound pressure level is the maximum value tested under the two conditions of Heating: A44.6W95 and Cooling: A95W64.4.
 2. Maximum domestic hot water temperature 140°F is only available with TBH support.
 3. The unit is equipped with an R1" to NPT1 interface attachment.
 4. Some specifications may change, for reference only.
- FIELD SUPPLIED: MUST HAVE MINIMUM 20 GALLON BUFFER TANK AND ALL OTHER HYDRONICS PARTS



Performance Specifications - MAMHA-V16WD2MN8

Operation	Ambient (F)	Water OUT (F)	Capacity (Btu/hr)	Input (kW)	COP
HEATING	44	95	54489	3.56	15.33
		113	54489	4.44	12.29
		131	54489	5.52	9.89
	35	95	44353	3.71	11.95
		113	43671	4.49	9.73
		131	45718	5.58	8.19
	19	95	45377	4.93	9.2
		113	44012	5.78	7.61
		131	42648	6.19	6.89
Cooling	95	64.4	48448	3.93	12.33
		44.6	47765	5.71	8.37

WARRANTY

2 year on all parts*
5 year on compressor*

- *All warranty effective from the date of installation.
- *Labour warranty is the responsibility of the installing contractor.
- *All M-Thermal Split Series warranties dependent on prior approval of schematics & proper installation in accordance with Manufacturer manuals and guidelines.
- *All Testing & Values are per Manufacturer's testing.

TO REGISTER WARRANTY:
www.mitsair.com/warranty-registration

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