



GE APPLIANCES

460V VARIABLE REFRIGERANT FLOW HEAT PUMP SYSTEM OUTDOOR UNIT

MWHQ144NC4CA

12
TON

SUBMITTAL

Job Name:

Purchaser:

Submitted To:

Construction:

Reference:

Approval:

Date:

Submitted By:

Unit:

Drawing #:



Features and Benefits

- Configurable heat pump or heat recovery.
- AVRA (Advanced Variable Refrigerant Adjustment) optimizes heating and cooling based on outdoor conditions to maximize efficiency and reduce costs.
- Diamond Shield multi-layer safety system designed to support safe and reliable operation with A2L refrigerants, incorporating multiple protection features for enhanced system safety and peace of mind.
- MRV-Link
 - Wireless communication
 - Zigbee wireless protocol
 - Simple installation
 - Easy to service
- Swing-out electrical service door and direct refrigerant cooled PCB.
- Enhanced Corrosion Protection 1500 hours of anti-corrosion black fin spray.
- Industry leading 32.3 in. low weight fan.
- AHU kit Supports third-party AHU integration with R32 MRV.
- Flexible long piping length.
- PID control: $\pm 1^\circ\text{F}$ accurate temperature control with dual pressure sensors and dual valves.
- Multiple quiet fan mode operations.
- R32 refrigerant.

Controls

Zone Controllers	N/A
Central Controllers	5", 7", 12.5"
Integration Controllers	HCM-04/HA-MA
MRV-Link Wireless Communication	Yes
Bluetooth Blackbox	Yes (App Pending)
BMS Solutions	HCM-05

Specifications

ODU	Marketing Model Name	MWHQ144NC4CA
	Nominal Capacity (Btu/h)	144,000
	Dimension: H x W x D (in)	66 1/2 x 58 1/3 x 32 1/2
	Net Weight (lbs)	898
	Sound Level (dBA)	62
	Compressor Type/Qty	DC Inverter EVI Scroll / 2
Connections	Compressor Oil Type	FW-68CA
	Maximum Number of Indoor Units	30
Operating Range	Connection Ratio (IDU/ODU Capacity)	50% – 150%
	Cooling with Snow Hood (°F)	-4 ~ 122
Electrical	Heating (°F)	-22 ~ 60
	Power Supply	460 / 3 / 60
Non-Ducted Performance	MCA/MOP (A)	31 / 40
	Rated Cooling Capacity @ 95°F (Btu/h)	138,000
	EER @ 95°F	10.8
	IEER	21
	Rated Heating Capacity @ 47°F (Btu/h)	154,000
	COP @ 47°F	3.6
	COP @ 17°F	2.5
Ducted Performance	SCHE	24.2
	Rated Cooling Capacity @ 95°F (Btu/h)	138,000
	EER @ 95°F	10.8
	IEER	20.3
	Rated Heating Capacity @ 47°F (Btu/h)	154,000
	COP @ 47°F	3.5
	COP @ 17°F	2.4
Refrigerant and Piping	SCHE	24.3
	Refrigerant Type/Charge (oz.)	R-32 / 15.88
	Liquid Pipe O.D. (in)	1/2
	Gas Pipe O.D. (in)	1-1/8
	High Gas Pipe O.D. (in)	1-1/8

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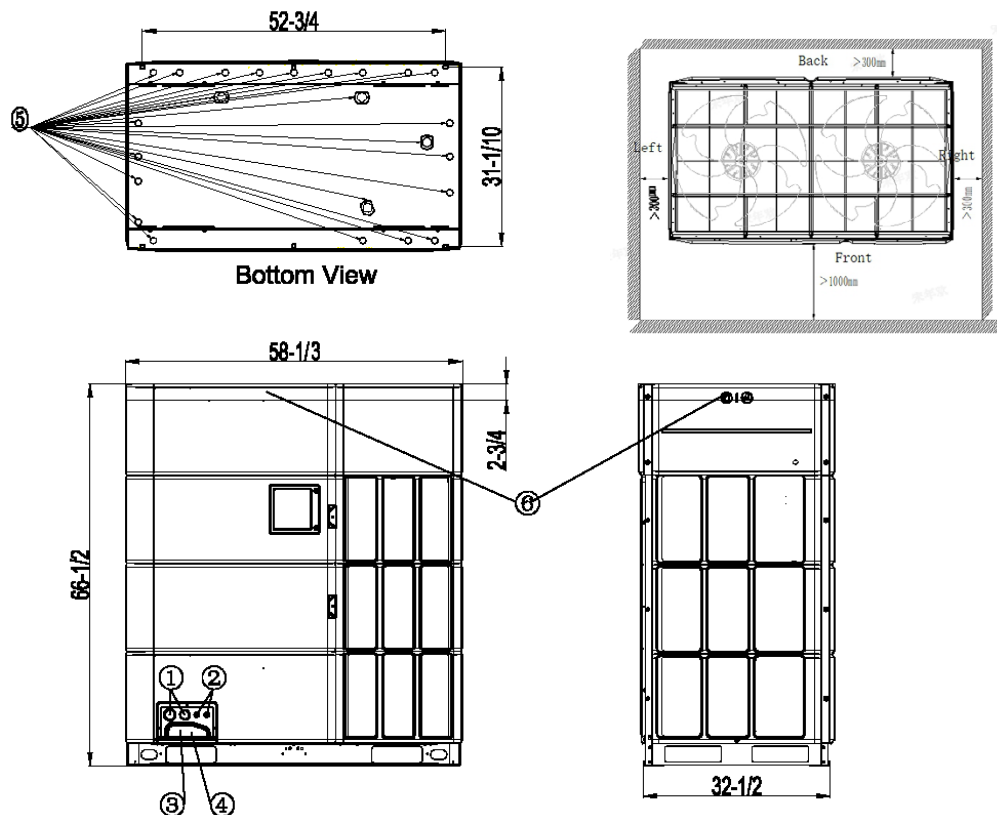
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AIR&WATER
SOLUTIONS

UNIT: Inches



No.	Name Remark	
1	Power line outlet	
2	Signal wire opening	
3	Pipe outlet for 2/3-pipe system	
4	Pipe outlet for 2/3-pipe system	
5	Drain hole	
6	Air outlet duct connection	

SUBMITTAL REVISION HISTORY

05-05-26: Submittal release.
08-06-26: Specification updates
09-03-26: Specification updates