

R134a
Refrigerant

SUBMITTAL DATA SHEET



Series Name: HPWH
Model Number: MCHW-50VN3A

Heat Pump Water Heater System

Location: _____
 Engineer: _____
 Submitted to: _____
 Submitted by: _____
 Reference: _____

Approval: _____
 Date: _____
 Construction: _____
 Unit #: _____
 Drawing #: _____

Product Code	22025310000551
Product Model	MCHW-50VN3A
Certified	AHRI  Energy Star  UL  LISTED



SYSTEM PERFORMANCE DATA

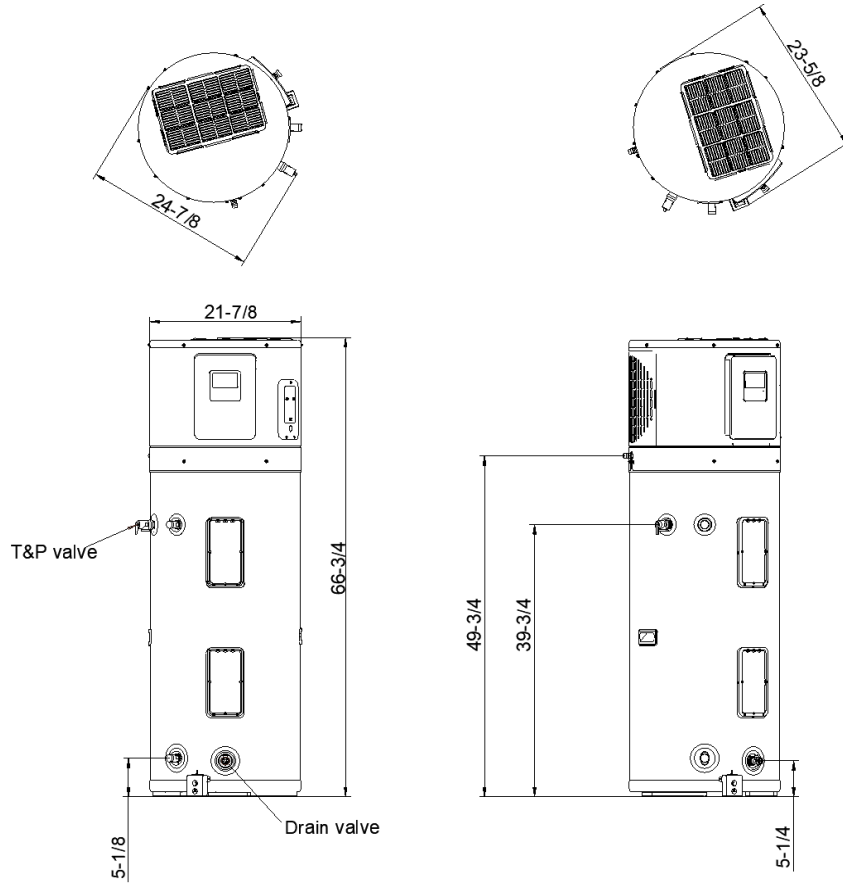
Power supply		
Normal Operational Voltage	(V, Ph, Hz)	240 V,1 Ph,60 Hz
Voltage Range	(V)	208-240
Electrical		
Minimum circuit ampacity	(A)	23.6 A (208 V) / 26.8 A (240 V)
Max.fuse	(A)	25 A (208 V) / 30 A (240 V)
Connection wiring		AWG 10/3
Energy information		
Normal Gallon Capacity	(Gallon)	50
Rated Gallon Capacity	(Gallon)	47
Uniform Energy Factor (UEF)		3.75
First Hour Rating (FHR)	(Gallon)	69
Water Outlet Temperature Range	(Deg. °F)	109-149
Upper Element Wattage	(W)	4500 (240 V)
Lower Element Wattage	(W)	4500 (240 V)
Compressor capacity	(W)	1500
Total Unit Wattage (input)	(W)	5500
Cold Climate Efficiency(CCE)		3.0
Recovery In G.P.H. 90° F Rise		27.5
Heat pump ambient operating range	(Deg. °F)	37-109
Element ambient operating range	(Deg. °F)	5-115
Sound	(dBA)	49.5

UNIT DATA

Body Height	(inch)	66-3/4
Body Diameter(inch)	(inch)	21-7/8
Body Weight	(lbs)	218
Ship Length(inch)	(inch)	28-3/4 * 27-5/8
Ship Height(inch)	(inch)	75-1/4
Ship Weight(lbs)	(lbs)	265
Inlet Water Connection Size	(inch)	3/4
Outlet Water Connection Size	(inch)	3/4
Drainage Hose	(inch)	3/4
Installation Clearance (Back)	(inch)	0
Installation Clearance (side)	(inch)	6
Installation Clearance (top)	(inch)	20
Refrigerant Type		R134a
Refrigerant charge	oz	18
Loading quantity(40HQ)	pcs	51

Indoor Unit Dimension

Unit: inch (mm)

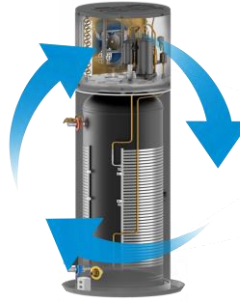


FEATURES



Key components of Midea COMBO HPWH

- Evaporator**
Double-Layer heat transfer coil, compact size & high capacity
- Compressor**
High Efficiency Rotary Compressor, R134a refrigerant, durable and silence
- Water Tank**
Blue-Diamond Enamel Tank with +15 years lifespan
- Condenser Coil**
Microchannel heat exchanger, higher heat exchange area and higher efficiency



Leakage Detection

- Leakage detection kit(Optional)
- Main PCB**
Leakage prevention algorithm contained.
- Leakage Detection Sensor**
Fix at the bottom of the unit, detect if water is leaking.
- Shut-off valve**
Automatically close the water inlet valve when water leakage happens. Prevent your house from flooding, protect your carpet and floor.

Five modes

Five modes, suitable for various usage scenarios

Most saving

HP
Heat Pump
Only the heat pump heat the water, most energy efficiently mode. Saving your electric bill significantly.

Save & cozy

Economy
Calculate the demand automatically, save the bill & ensure comfortable usage

Highest recovery

Hybrid
Element and Heat Pump works together, heat your water rapidly

Freezing protect

Vacation
Protect the pipe system and water tank from frozen when you are away from home

Backup Plan

Electric Heating
Only the element heat the water, for harsh days use, or emergency use.

Demand Response Function

Build-in Demand Response Port
A CTA-2045 port that fits UCM module is at the top of the unit. Plug a UCM in and realize Demand Response function.

