

Heat Pump Water Heater System

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

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

Product Code 22025310000569

Product Model MAHW-80VN3A

Certified

AHRI

UL



Energy Star



SYSTEM PERFORMANCE DATA

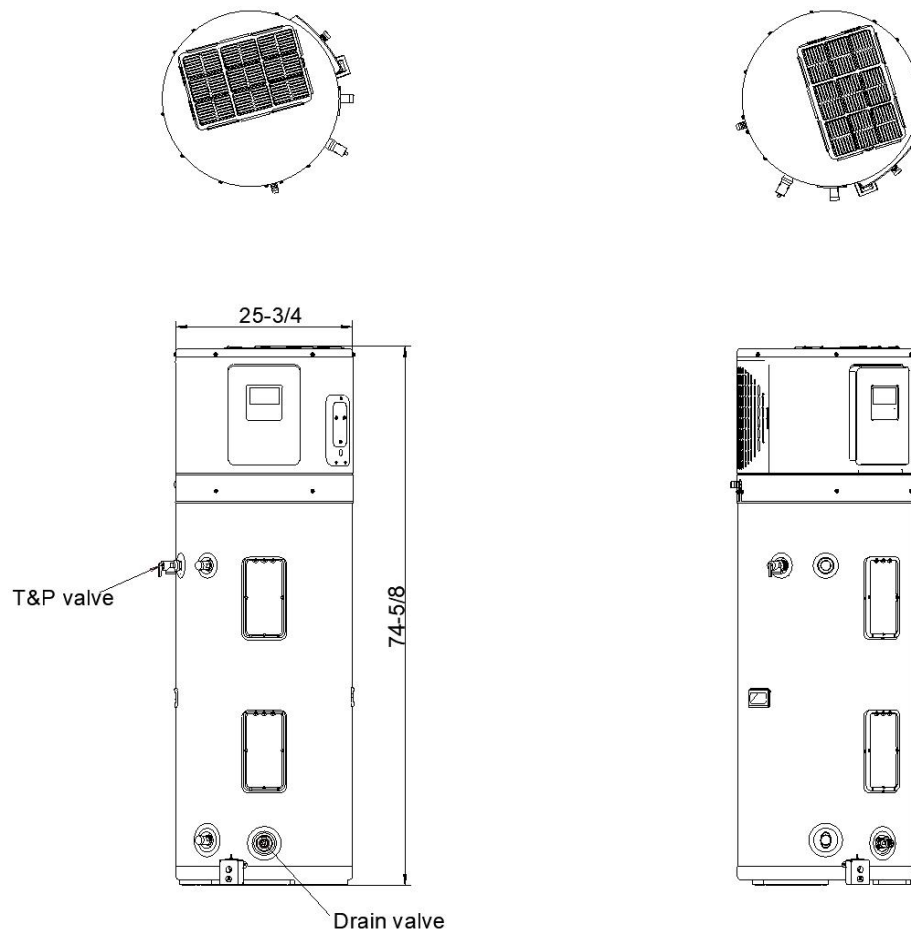
Power supply		
Normal Operational Voltage	(V, Ph, Hz)	240 V,1 Ph,60 Hz
Voltage Range	(V)	208-240
Electrical		
Minimum circuit ampacity	(A)	23.6 A (208 V) / 26.8 A (240 V)
Max.fuse	(A)	25 A (208 V) / 30 A (240 V)
Connection wiring		AWG 10/3
Energy information		
Normal Gallon Capacity	(Gallon)	80
Rated Gallon Capacity	(Gallon)	75
Uniform Energy Factor (UEF)		4
First Hour Rating (FHR)	(Gallon)	91
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
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)	74-5/8
Body Diameter(inch)	(inch)	25-3/4
Body Weight	(lbs)	290
Ship Length(inch)	(inch)	30-1/4 * 29-1/8
Ship Height(inch)	(inch)	83-3/8
Ship Weight(lbs)	(lbs)	358
Inlet Water Connection Size	(inch)	0.75
Outlet Water Connection Size	(inch)	0.75
Drainage Hose	(inch)	0.75
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	45

Indoor Unit Dimension

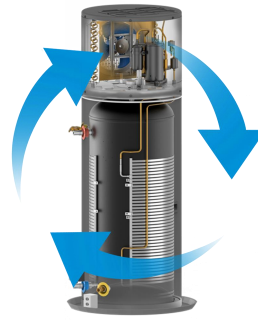
Unit: inch (mm)





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

HC

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.

