

**R134a**  
Refrigerant

# SUBMITTAL DATA SHEET



Series Name: HPWH  
Model Number: **MCHW-80VN3A**

## Heat Pump Water Heater System

Location: \_\_\_\_\_  
 Engineer: \_\_\_\_\_  
 Submitted to: \_\_\_\_\_  
 Submitted by: \_\_\_\_\_  
 Reference: \_\_\_\_\_

Approval: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Construction: \_\_\_\_\_  
 Unit #: \_\_\_\_\_  
 Drawing #: \_\_\_\_\_

<b>Product Code</b>	22025310000569
<b>Product Model</b>	MCHW-80VN3A
<b>Certified</b>	



## SYSTEM PERFORMANCE DATA

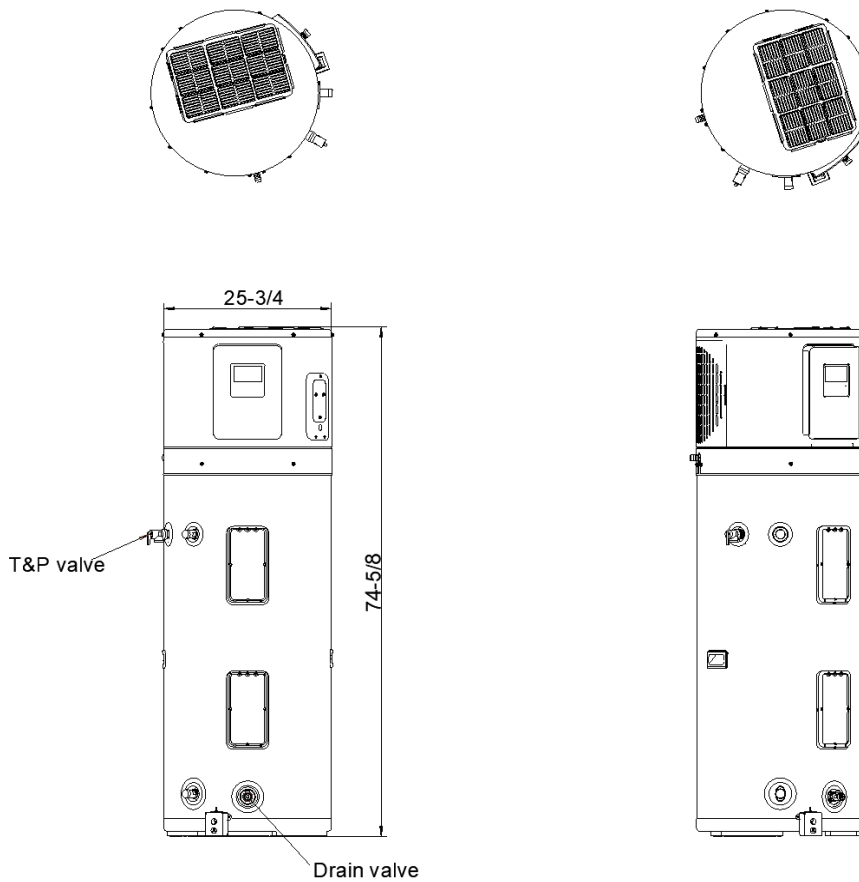
Power supply		
Normal Operational Voltage	(V, Ph, Hz)	240 V,1 Ph,60 Hz
Voltage Range	(V)	208-240
Electrical		
Minimum circuit ampacity	(A)	23.6 A (208 V) / 26.8 A (240 V)
Max.fuse	(A)	25 A (208 V) / 30 A (240 V)
Connection wiring		AWG 10/3
Energy information		
Normal Gallon Capacity	(Gallon)	80
Rated 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)

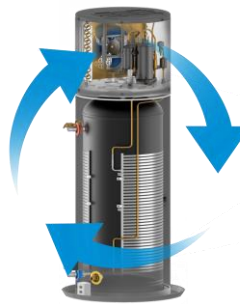


FEATURES



**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.

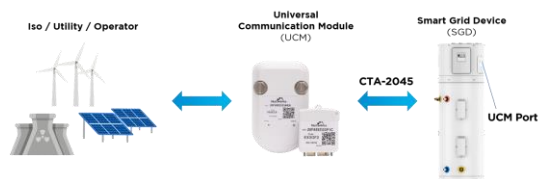
**Five modes**

Five modes, suitable for various usage scenarios

<p><b>Most saving</b></p> <p><b>HP</b> Heat Pump</p> <p>Only the heat pump heat the water, most energy efficiently mode. Saving your electric bill significantly.</p>	<p><b>Save &amp; cozy</b></p> <p><b>Economy</b></p> <p>Calculate the demand automatically, save the bill &amp; ensure comfortable usage</p>	<p><b>Highest recovery</b></p> <p><b>Hybrid</b></p> <p>Element and Heat Pump works together, heat your water ready.</p>
<p><b>Freezing protect</b></p> <p><b>Vacation</b></p> <p>Protect the pipe system and water tank from frozen when you are away from home</p>	<p><b>Backup Plan</b></p> <p><b>Electric Heating</b></p> <p>Only the element heat the water, for harsh days use, or emergency use.</p>	

**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.



## **North American HVAC Products Ltd.**

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Add.: #100 5118 N Fraser Wy, Burnaby, BC V5J 0H1

Tel: 604-430-8496 [info@nahvac.com](mailto:info@nahvac.com) [www.nahvac.com](http://www.nahvac.com)

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