

unimo ^{AW}

CO₂ Heat Pump

MAYEKAWA
MYCOM



**Air Source
CO₂ Heat Pump**

<https://mayekawa.com/americas/mna>

UNIMO AW

Air source CO₂ heat pump

COMPACT AND POWERFUL

- **Up to 9,400 gallons of hot water supply per 24 hours**
Constant 194°F hot water covers wide range of usage and reduces tank size.
- **Minimized space.**
Minimized maintenance space allows multiple units in small footprint.
- **Simple design**
Boltless design protects from rust and maintains beautiful appearance.

Features

- **3 modes** - can be used in any environment
 1. power mode
 2. standard mode
 3. energy-saving mode
- **Smart control** - automatically chooses the best operation mode to ensure steady hot water supply and achieve low cost operation.
 1. On-demand management
 2. Prediction control
 3. Best hot water volum control, and Etc.
- **Unimo remote control panel** - simple operation
Using the smart control remotely, there is no need to worry about the hot water shortage.

PERFORMANCE SPECIFICATIONS

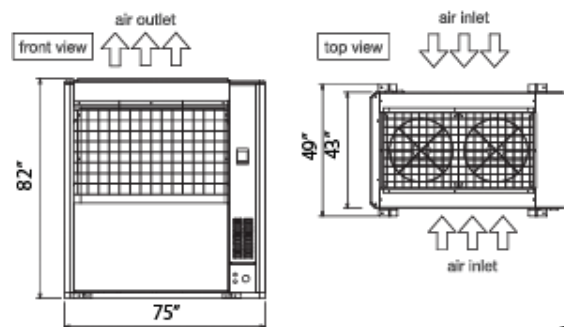
Values are to be considered as guidance and will be confirmed in the quotation process.

Performance	Ambient temp.	61°F		77°F		44°F	
	Operation mode	Energy-saving /normal	Power	Energy-saving /normal	Power	Energy-saving /normal	Power
Hot water temp. (149°F)	Heating capacity (kW)	74.0	81.4	83.3	92.3	58.8	77.4
	Absorbed power (kW)	17.7	20.0	18.8	21.6	16.1	25.1
	COP	4.2	4.1	4.4	4.3	3.7	3.1
Hot water temp. (194°F)	Heating capacity (kW)	72.0	78.5	81.8	90.2	59.8	73.9
	Absorbed power (kW)	21.3	23.5	23.2	25.7	19.0	27.5
	COP	3.4	3.3	3.5	3.5	3.1	2.7
Keep temp. (ring back) capacities	Heating capacity (kW)	41.3	45.7	47.9	52.2	29.8	46.1
	Absorbed power (kW)	22.8	25.4	23.7	26.3	20.0	31.7
	COP	1.8	1.8	2.0	2.0	1.5	1.5

DIMENSIONS & SPECIFICATIONS

Dimensions are for reference only. Please contact MYCOM for more detailed drawings.

Model		HE-HWA-2HTC
Power		3-phase 480V AC 60Hz
Maximum current (A)		120
Outer dimensions (in)		W 49 x L 75 x H 82
Weight (lb)		2,965 (net), 2,996 (operating)
Design pressure (psi)		High pressure 2,176 psi, Low pressure 926 psi
Compressor	Motor	25kW x 4P
	Star-up method	Inverter
Gas cooler		Copper tube coil
Pump (50Hz/60Hz) (W)		250/430
Air cooled heat exchanger material		Copper tube aluminium plate fin
Fan (kW/unit)		0.75 x 2 unit
Defrosting system		Hot gas defrost
External connection	Water inlet 1	Rc 3/4 (20A tap female, SUS 316) for tank
	Water inlet 2	Rc 3/4 (20A tap female, SUS316) for keep warm
	Hot water outlet	Rc 3/4 (20A tap female, SUS316)
	Drainage	Rc1-1/2 (40A tap female, SUS316)
Refrigerant & Volume		R744 (CO ₂), 44 lbs
Usage range	Inlet water temperature (°F)	41 to 149
	Max. inlet water flow rate (gpm)	8.7
	Inlet water pressure (psi)	36 - 72 psi (in the case of a sealed tank, below design pressure of the tank)
	Hot water temperature (°F)	149 - 194
	Ambient temperature (°F)	14 - 110
Noise	Intermediary	62
	Winter	66



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* The information contained herein is for reference only. Subject to change without notice.

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