

Eco Cute unimo AW

"unimo" hot water for any purpose.



Mayekawa Eco Cute has been improved.

The world biggest heating capacity
with the industry's highest COP (4.2)

Hot water supply at 194°F all year around

Holding temperature at 149°F

Efficiently supplying a large amount of
high temperature water covering a wide array of uses.

[Applications]

For large volume supply
(Hospitals, Golf courses, Hotels etc.)

For high temperature large volume supply
(Central kitchen, Food processing plant etc.)



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 save tank space.

● Minimized space

Minimized maintenance space achieves adjacent set up.

● Simple design

Boltless design protects from rust and maintains beautiful appearance.

Features

● 3 modes

3 modes that can be used in any environment: 1. power mode 2. standard mode 3. energy-savings mode.

● Smart control — no shortage of hot water, low cost operation —

"unimo" overall operating controls within each device, as a part of total control management, automatically chooses the best operation mode.
On-demand management, Prediction control, Best hot water volume control, etc.

● unimo remote control panel — simple operation —

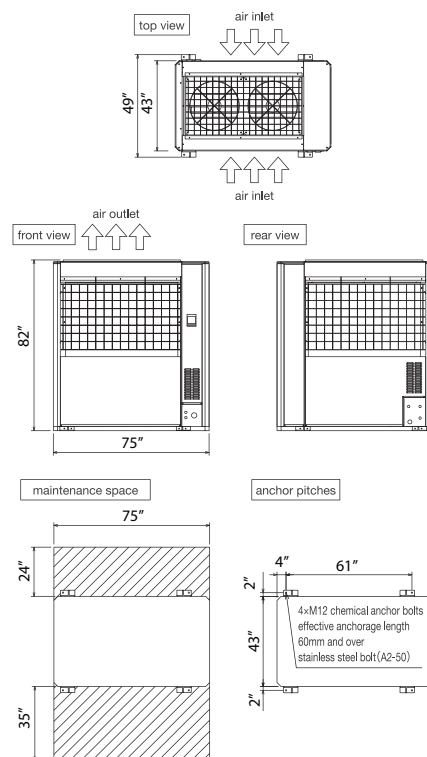
Using the smart control remotely, there is no need to worry about the hot water shortage.

unimo Specifications

Type		Heat pump type water heater					
Model		HE-HWA-2HTC					
Power supply		3 Phase 480V AC 60Hz					
Performance	Ambient temp.	61°F		77°F		44°F	
	Operation mode *1	Energy-saving /normal	power	Energy-saving /normal	power	Energy-saving /normal	power
Hot water temp. (65°C)	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. (90°C)	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) capacity *2	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
Maximum current (A)		120					
Outer dimensions (in)		W49 x L75 x H82					
Weight (lb)		2,965 (net), 2,996 (operating)					
Design pressure (psi)		High pressure 2,176 psi, Low pressure 926 psi					
Japan legal refrigeration tons (TR)		9.8(notification required by KHK, no qualified person requirement)					
Compressor	Motor	25kW x 4P					
	Start-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, SUS316) 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					
Protection equipment		Protection for high pressure, low pressure, oil pressure, compressor overload, fan overload					
		Inlet overload, discharge temperature, differential pressure					
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					
Colo	Panels	Munsell N8.0 approximating color					
	Unit base	Munsell N1.0 approximating color					
Noise	intermediary *3	62					
	Winter *5	66					

Options	control panel for hot water supply system, snow protection hood, weather cover, anti-salt protection, vibration isolator, tank level sensor, tank thermistor
Remarks	*1 Operation mode is set to Energy-saving/normal when shipped. *2 Where inlet water temperature 60°C and supply water temperature 90°C. *3 Where ambient temperature DB 16°C/WB12°C and inlet water temperature 17°C. *4 Where ambient temperature DB 25°C/WB 21°C and inlet water temperature 24°C. *5 Where ambient temperature DB 7°C/WB6°C and inlet water temperature 9°C. *Actual hot water temperature varies in the range of ±3°C against the target temperature depending on ambient temperature and inlet water temperature. If the inlet water temperature exceeds 30°C, supply water temperature may automatically change from 65°C to 90°C in order to protect equipment.

unimo Overview Drawings



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