

UNIMO ECO-CUTE CO2 HEAT PUMP

MANUFACTURED BY:

MAYEKAWA

FEATURES & BENEFITS

- Manufactured in Japan
- Co2 air to water heat pump
- Watermarked
- 90°C constant hot water production
- Unique bolt free design
- High CoP
- Extremely low GWP (global warming potential)
- Low noise
- Large ambient operating range



**1 YEAR*
WARRANTY**



35 tons of hot water supply per 24 hours

Constant 90°C hot water covers a wide range of applications and reduces tank space

Minimised space

1/3 footprint reduction increasing accessibility and installation locations

Simple design

Bolt free design protects against rust and maintains attractive appearance

3 operating modes

3 modes to suit your operating conditions:

1. power mode 2. standard mode 3. energy efficiency mode

Smart control - no shortage of hot water, low cost operation

"unimo" automatically selects the most suitable mode of operation based on the built in control system that operates all auxillary equipment as well

HYDRALUX STORAGE TANK



GRUNDFOS PUMP



SHOWROOM

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Type	Co2 air to water heat pump						
Model	HE-HWA-2HTC-415						
Power supply	3-phase 415V AC 50Hz/60Hz						
Performance	Ambient temperature	16°C		25°C *4		7°C *5	
	Operation mode	Energy-efficiency /Standatd	Power	Energy-efficiency /Standatd	Power	Energy-efficiency /Standatd	Power
Hot water temperature (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 temperature (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
Holding temperature (ring back) capacities *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)	55					
Outer dimensions	(mm)	W1,250 x L1,900 x H2,082					
Weight	(kg)	1,385 (net) 1,400 (operating)					
Design pressure	(MPa)	High pressure 15.0 MPa, Low pressure 6.4 Mpa					
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 recirculation					
	Hot water outlet	Rc 3/4 (20A tap female, SUS316)					
	Drainage	Rc 1 1/2 (40A tap female, SUS316)					
Refrigerant & volume		R744 (CO ₂), 20kg					
Protection equipment		Protection for high pressure, low pressure, oil pressure, compressor overload, fan overload, inlet overload, discharge temperature, differential pressure					
Operating range	Inlet water temp. (°C)	5 to 65					
	Max inlet water flow rate (L/min)	33					
	Inlet water pressure (MPa)	0.15-0.49 (in the case of a sealed tank, below design pressure of the tank)					
	Hot water temp. (°C)	65 or 90					
	Ambient temp. (°C)	-10 to +43					
Color	Panels	Munsell N8.0 approximate color					
	Unit base	Munsell N1.0 approximate color					
Noise	Between seasons *3	62					
	Winter *5	66					

*1 Operation mode is set to Energy-efficiency/standard 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/WB21°C and inlet temperature 24°C.

*5 Where ambient temperature DB 7°C/WB6°C and inlet temperature is 9°C.

* Actual hot water temperature varies in the range of ±3°C against the target temperature depending on the 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.

