UNIMO ECO-CUTE CO2 HEAT PUMP

MANUFACTURED BY:



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





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 accessability 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









SHOWROOM

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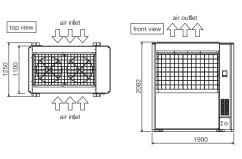
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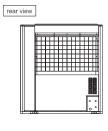


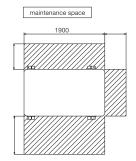
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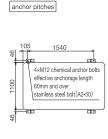
Туре	Co2 air to water heat pump									
Model	HE-HWA-2HTC-415									
Power supply	3-phase 415V AC 50Hz/60Hz									
Performance	Ambient temperature	Ambient temperature		16°C		25°C *4		7°C *F		
	Operation mode	*1	Energy- efficiency /Standatd	Power	Energy- efficiency /Standatd	Power	Energy- efficiency /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	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		
	2 COP		1.8	1.8	2.0	2.0	1.5	1.5		
Maximum current		(A)				55				
Outer dimensions	sions (mm)			W1,250 x L1,900 x H2,082						
Veight (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)			25	0/430				
Air cooled heat exchanger	Material		Copper tube Aluminium plate fin							
Fan		(kW/unit)				5 x 2 unit				
Defrosting system						as defrost				
External connection	Water inlet 1 Water inlet 2		Rc 3/4 (20A tap female, SUS316) for tank 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)									
	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 depeding 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.