

Air source heat pump “Eco-Cute”

THE WORLDS
BIGGEST!!

unimo AW

industrial and commercial hot water supply



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

Hot water supply at 90°C all year around

Holding temperature at 65°C

Efficiently supplying high volume high quality hot water
covering wide array applications.

[Applications]

- Domestic hot water
- Hospitals
- Hotels
- Leisure and sport
- Central kitchens
- Food processing plants
- Cleaning and wash down

Compact and powerful

- **35 tons of hot water supply per 24hours**
Constant 90°C hot water covers a wide range of applications and reduces tank space.
- **Minimized space**
1/3 footprint reduction increasing accessibility and installation locations.
- **Simple design**
Bolt free design protects against rust and maintains attractive appearance.

Features

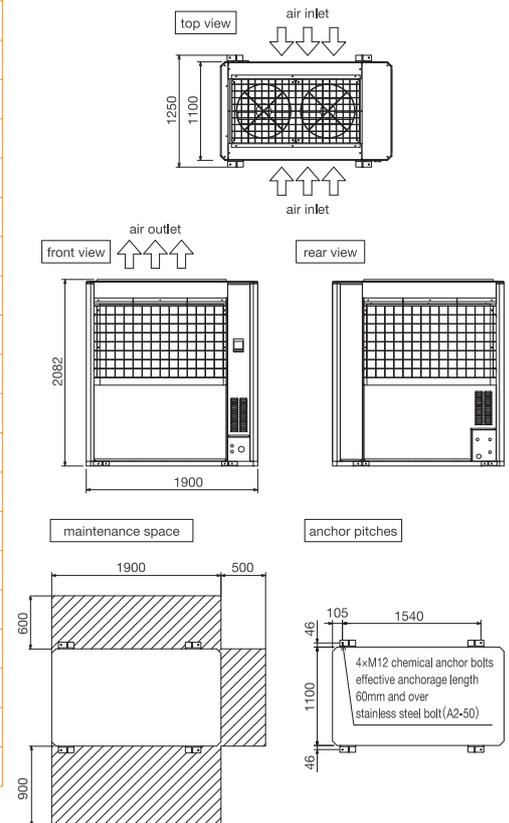
- **3 operating modes**
3 modes to suit your operating conditions: 1. power mode 2. standard mode 3. energy efficiency mode
- **Smart control – no shortage of hotwater, low cost operation –**
“unimo” automatically selects the most suitable mode of operation based on the built in control system that operates all auxiliary equipment as well.

Type	Heat pump type water heater							
Model	HE-HWA-2HTC-415							
Power supply	3-phase 415 V AC 50Hz/60Hz							
Performance	Ambient temp.	16°C		25°C *4		7°C *5		
	Operation mode *1	Energy-efficiency /Standard	Power	Energy-efficiency /Standard	Power	Energy-efficiency /Standard	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	
Holding temp. (ring back) capacitys *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 6.4MPa							
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	Rc1-1/2 (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 temperature (°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 temperature (°C)	65 or 90						
	Ambient temperature (°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						

Note: Max. operating water pressure 0.49Mpa, please install an approved pressure limiting valve if the inlet pressure is to exceed this value.

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-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°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 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.

unimo_{AW} Outer dimensions



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Subject to change without notice.