



EWMIM

Heat pump



Class A++/A+
Inverter



AIR-WATER CHILLERS | AXIAL
SCROLL DC INVERTER

Compact, energy-efficient equipment

Reversible monobloc water chillers and heat pumps with air condensation and axial fans. Series with scroll-type hermetic compressors DC Inverter and refrigerant gas R410A.

MAIN CHARACTERISTICS

- Cooling capacities: 16.2 to 27 kW
- Heating capacities: 17.7 to 28.5 kW
- Compressor: hermetic rotary scroll-type Inverter, thermal protection and crankcase heater
- Water Side Exchanger: thermally insulated stainless steel plates, with anti-frost resistance and differential pressure switch for water flow
- Air-side heat exchanger: finned coil with copper tubes and aluminium fins with water-repellent treatment, with protection grilles
- Fan: axial-type fans with external rotor and internal thermal protection, protection grilles and proportional electronic device for continuous regulation of the fan rotation speed (condensation control)
- Control: microprocessed electronics with Adaptive Function Plus logic
- Structure: made of galvanised and painted sheet steel, with a condensation collection tray and anti-frost resistance at the base of the unit

In addition, the unit includes:

- Interior air temperature probe
- Electronic expansion valve
- High and low pressure display for the refrigeration circuit
- Master/Slave management of up to 4 units in parallel
- Clock card

ADVANTAGES

- Operation at outside air temperatures down to -20°C
- Temperature of produced water may be up to 60°C
- Excellent energy efficiency values
- Integrated MASTER/SLAVE management
- Buffer tank

VERSIONS

- High Efficiency

MODELS

- Heat pump unit

PUMP EQUIPMENT

Pump unit with: EC pump with 3-speed selector or infinitely variable speed or electric pump, diaphragm expansion vessel, manual air vent, safety valve and pressure gauge

TANK & PUMP EQUIPMENT

Pumping unit with: storage tank, circulation pump or electric pump, diaphragm expansion vessel, manual air vent, safety valve, manometer

REGULATION

Integrated control:
MINI PGD



Remote control accessory:
PGD



See regulation and control on page 107

AVAILABLE OPTIONS

FACTORY-ASSEMBLED ACCESSORIES

- Forced limitation of electrical absorption. Partialisation or deactivation of the compressors to limit the power and the current absorbed (digital input)
- Condensation control -15 °C by means of fans with EC motor
- Silenced equipment
- Anti-frost resistance during accumulation
- Anti-freeze pump resistance
- Coils are copper/pre-painted aluminium or copper/copper
- Double setpoint via digital signal
- Variable setpoint via analogue signal 4-20 mA
- PO pump: installation with 3-speed electronic pump
- PIO pump: installation with electronic circulator with regulation continuous speed (variable flow in the installation)

ACCESSORIES SUPPLIED SEPARATELY

- 3-way valve for the production of domestic hot water, managed by the control
- Heat pump electrical support resistor, managed by the control
- Interior air temperature probe managed by remote control, as an alternative to the standard built-in external air probe
- Water filter
- Rubber anti-vibration mounts
- Remote keyboard with display
- Serial interfaces for dialogue with other devices
- RS485/USB series converter
- Hitecsa supervising systems for remote monitoring and management of the unit

SERIES EWMIM

MODEL			117	124	128
(2)	Heating capacity min./nom./max.	kW	6.6/17.7/18.8	9.7/24.3/26.7	10.4/28.5/30.6
(2)	Nom. power consumption	kW	5.33	7.45	8.68
(2)	C.O.P. nom.		3.32	3.26	3.28
(3)	Heating capacity min./nom./max.	kW	7.2/18.8/19.8	10.4/25.0/27.4	11.0/29.1/31.1
(3)	Power consumed nom.	kW	4.59	6.09	7.09
(3)	C.O.P. nom.		4.1	4.1	4.1
(4)	Heating capacity min./nom./max.	kW	4.2/12.3/13.8	8.1/18.1/23.1	8.1/22.9/24.8
(4)	Power consumed nom.	kW	4.11	6.63	7.26
(4)	C.O.P. nom.		2.99	2.73	3.15
(1)	Cooling capacity nom.	kW	16.2	23.8	27
(1)	E.E.R. nom.		2.98	2.84	2.97
SEASONAL COOLING PERFORMANCE					
(Δ)	P _{designc} (EN 14825)	kW	16.4	24.3	27.6
(Δ)	SEER (EN 14825)		4.2	4.22	4.19
(□)	η _{s,c}	%	165	166	165
SEASONAL HEATING PERFORMANCE					
(▲)	P _{design} (EN 14825)	kW	19	28	35
(▲)	SCOP (EN 14825)		4.17	3.54	3.86
(■)	η _s	%	164	139	151
(■)	Energy class		A++	A+	A++
SOUND LEVEL					
(5)	Sound pressure	dB(A)	46	48	49
(5)	Silenced equipment sound pressure	dB(A)	44	46	47
OTHER DETAILS					
(1)	Useable impulse pressure pump PO	kPa	89	89	76
	Buffer tank capacity	l	110	110	110
	Electric power supply	V-ph-Hz	400-3+N-50	400-3+N-50	400-3+N-50
DIMENSIONS AND WEIGHTS					
	L - Length PUMP	mm	1,522	1,522	1,522
	L - Length TANK & PUMP	mm	1,625	1,625	1,625
	H - Height PUMP	mm	1,280	1,280	1,280
	H - Height TANK & PUMP	mm	1,590	1,590	1,590
	D - Depth PUMP	mm	600	600	600
	D - Depth TANK & PUMP	mm	600	600	600
(6)	Weight PUMP	kg	245	255	265
(6)	Weight TANK & PUMP	kg	431	441	451

(1) Air: 35 °C B.S. - Water: 12/7 °C.

(2) Air: 7 °C B.S. - 6 °C B.H. - Water: 40/45 °C.

(3) Air: 7 °C B.S. - 6 °C B.H. - Water: 30/35 °C.

(4) Air: -7 °C B.S. - Water: 30/35 °C.

(5) In open field (Q = 2) at 5 m from the unit.

(6) Weight referred to the most complete equipment.

In accordance with EN 14511:2013, Equipment PO/PIO.

(Δ) Low temperature application (7 °C).

(□) Seasonal energy efficiency: low temperature cooling (Regulation (EU) 2016/2281).

(▲) In medium climatic conditions, low temperature application (35 °C).

(■) Seasonal energy efficiency: low-temperature heating in a medium climate (EU Regulations No. 811/213 and No. 813/2013).

