



ADVANCE

CHILLER SERIES BY HITECSA

EWMIP Heat pump



Class A++

Inverter



AIR - WATER CHILLERS | AXIAL
ROTARY DC INVERTER

Maximum versatility in ultra-compact equipment

Reversible monobloc heat pumps with air condensation and axial fans.

DC rotary hermetic compressor series

Inverter and refrigerant gas R410A.

MAIN CHARACTERISTICS

- Cooling capacities: 3.8 to 12.6 kW
- Heating capacities: 6.2 to 15.2 kW
- Compressor: hermetic rotary DC brushless inverter with thermal protection
- Expansion valve: electronic
- Water side exchanger: thermally insulated stainless steel plates
- Air side exchanger: finned coil with tubes copper and aluminium fins
- Fan: axial type impeller with brushless EC motor and internal thermal protection, protection grilles and proportional electronic device for continuous regulation of the fan rotation speed (condensation control)
- Control: electronic via microprocessor. Enables integrated management of the heat pump and the thermal installation, based on the various requirements for the use of energy sources and terminal units
- RS485 serial interface for dialogue with other devices (Modbus RTU protocol)
- Interior air temperature probe
- Structure: galvanised and painted sheet steel with condensation collection tray and anti-freeze resistance in the base of the unit

ADVANTAGES

- Operation at outside air temperatures down to -20°C
- Temperature of produced water may be up to 60°C
- COP > 4.2
- System management system integrated into the heat pump

VERSIONS

- High Efficiency

MODELS

- Heat pump unit

PUMP EQUIPMENT

Pumping group with: EC pump, manual air purge valve, safety valve and manometer

REGULATION

Integrated control:
MINI ELECTRA



Remote control accessory:
KCTR



See regulation and control on page 107

AVAILABLE OPTIONS

ACCESSORIES SUPPLIED SEPARATELY

- 3-way valve for production of domestic hot water, managed by the control system
- Anti-vibration rubber supports
- Water filter
- Interior air probe managed by remote control
- Chronothermostat and user terminal (KCTR accessory)
- Hitecsa supervising systems for remote monitoring and management of the unit

SERIES EWMIP

MODEL		105	110	116	
(1)	Heating capacity min./nom./max.	kW	1.8/6.2/6.4	1.9/9.8/9.8	8.8/15.2/16.7
(1)	Nom. power consumption	kW	1.98	2.83	4.47
(1)	C.O.P. nom.		3.12	3.44	3.4
(2)	Heating capacity min./nom./max.	kW	2.0/6.5/7.1	1.7/9.9/9.9	9.4/16.0/18.5
(2)	Nom. power consumption	kW	1.49	2.15	3.81
(2)	C.O.P. nom.		4.34	4.58	4.2
(3)	Heating capacity min./nom./max.	kW	2.4/4.7/5.3	5.1/6.5/9.0	6.5/10.6/12.8
(3)	Nom. power consumption	kW	1.72	2.41	3.8
(3)	C.O.P. nom.		2.7	2.7	2.8
(4)	Cooling capacity min./nom./max.	kW	1.6/3.8/3.8	2.4/ 5.5/7.7	2.1/12.6/12.9
(4)	E.E.R. nom.		2.98	2.91	3
SEASONAL HEATING PERFORMANCE					
(▲)	P _{design} (EN 14825)	kW	8	11	17
(▲)	SCOP (EN 14825)		3.99	4.2	4.03
(■)	η _s	%	157	165	158
(■)	Energy class		A++	A++	A++
SOUND LEVEL					
(5)	Sound power	dB(A)	60	62	63
(6)	Sound pressure	dB(A)	35	37	38
OTHER DETAILS					
(4)	Useful impulse pressure pump	kPa	85	55	90
	Electric power supply	V-ph-Hz	230-1-50	230-1-50	230-1-50
DIMENSIONS AND WEIGHTS					
	L - Length	mm	898	850	1,000
	H - Height	mm	675	882	1,418
	D - Depth	mm	300	330	330
(7)	Weight	kg	52	77	118

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

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

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

(4) Air: 35 °C B.S. - Water: 12/7 °C.

(5) Sound power level in dB(A) based on measurements made in accordance with the regulations UNI EN ISO 9614.

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

(7) Weight refers to the most complete equipment. In accordance with EN 14511:2013.

(▲) 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).

