Electa-ECOS-T

MHAITI 104÷110 + IUT 06-10

Cooling capacity 3,1÷6,5 kW Heating capacity 4÷9,5 kW Capacity DHW 185 I

Efficient and eco-friendly range in R32

Energy class A+++

Temperature of the produced water up to 60°C

Domestic hot water production from -25°C to +45°C outdoor air

Floor indoor unit complete with circulator, expansion tank, 3-way valve, DHW tank and electrical resistance.

Touch-screen control panel.

APP for managing the unit via smartphone (iOS and Android)

Tax incentives*















Two-section reversible air-water heat pumps with integrated tank for domestic hot water. Range with hermetic rotary DC Inverter compressors and R32 refrigerant gas.

Construction features

IUT indoor unit

Indoor unit for floor installation:

- Structure: made of galvanised and painted steel plate.
- Water side heat exchanger: adequately insulated stainless steel plates, complete with antifreeze heater.
- Pump unit complete with: EC circulator, automatic air vent valve, safety valve (3 bar), flow switch, expansion tank (10 l), pressure gauge, water filter.
- 3-way valve for the production of domestic hot water.
- Supplementary electrical resistance, system side.
- Domestic hot water buffer tank, complete with water temperature probe, anode and electrical resistance (3 kW).

- Control: electronic with microprocessor and touchscreen control panel for integrated management of the heat pump and the heating system, according to the various requirements relating to the use of the energy sources:
- Domestic hot water production.
- Rapid heating function for domestic hot water.
- Anti-legionella cycle function, with activation timer.
- Auxiliary or supplementary heat source management.
- Operation in silent mode with timer.
- Weekly and daily time bands.
- Holiday mode and antifreeze function.
- Power consumption limiting function.
- 2-way on/off valve management for shutting off a part of the system, in heating or cooling mode.



- Management through room thermostat, as an alternative to the touch-screen panel.
- Unit activation from external contact (remote ON/OFF).
- Unit complete with:
- Outdoor temperature probe for set-point compensation.
- Remote ambient air temperature probe, for managing the unit according to the ambient set-point.
- Communication cable between outdoor and indoor units.
- RS485 interface for serial communication with other devices (Modbus RTU protocol).
- iOS and Android APP for managing the unit via smartphone and tablet.

MHAITI outdoor unit

- Compressor: hermetic, twin rotary DC Inverter with steam injection, complete with thermal protection and casing heater
- Expansion valve: electronic.
- · Cooling circuit with economiser
- Air side heat exchanger: finned coil with copper pipes and aluminium-manganese fins with Golden Fin anticorrosion treatment in epoxy resin and hydrophilic treatment.
- Fan: axial type impeller with DC brushless motors, equipped with internal thermal protection, accident protection grilles and proportional electronic device for continuous fan rotation speed regulation.
- Structure: made of galvanised and painted steel plate RAL9002, complete with condensate drain pan and unit base antifreeze heater.

Models

MHAITI+IUT: 2-section air-water heat pump.

Separately supplied accessories

KSA - Rubber anti-vibration mounts.

KPRE – Wiring for RS485 serial connection to the touch-screen panel.



Technical data

MHAITI outdoor unit		104	106	108	110
IUT indoor unit	-	06	06	10	10
Heating capacity	kW	4,0	5,9	8,0	9,5
Absorbed power	kW	1,02	1,51	2,14	2,64
• C.O.P.		3,92	3,91	3,74	3,60
Heating capacity	kW	4,0	6,0	8,0	9,5
Absorbed power	kW	0,78	1,20	1,70	2,07
② C.O.P.	-	5,13	5,00	4,71	4,59
Cooling capacity	kW	3,2	4,1	5,3	6,5
Absorbed power	kW	0,94	1,28	1,73	2,27
€ E.E.R.		3,42	3,20	3,06	2,86
Cooling capacity	kW	3,8	5,8	7,0	8,5
Absorbed power	kW	0,82	1,32	1,75	2,24
• E.E.R.	-	4,63	4,40	4,00	3,79
Sound pressure (external unit)	dB(A)	37	37	41	42
Available circulator head	kPa	73	70	66	58
DHW tank capacity	1	185	185	185	185
Electrical supply	V-ph-Hz	230-1-50	230-1-50	230-1-50	230-1-50
Internal unit electrical resistance	kW	2 x 1,5	2 x 1,5	2 x 3,0	2 x 3,0
Refrigeration lines max Height difference / length	m / m	20 / 15	20 / 15	25 / 15	25 / 15
DIMENSIONS AND WEIGHTS	-				
MHAITI outdoor unit		104	106	108	110
L – Width	mm	975	975	980	980
H – Height	mm	702	702	788	788
P - Depth	mm	396	396	427	427
Weight	kg	55	55	82	82
IUT indoor unit	-	06	06	10	10
L – Width	mm	600	600	600	600
H – Height	mm	1750	1750	1750	1750
P - Depth	mm	600	600	600	600
Empty weight	kg	209	209	209	209
ENERGY PERFORMANCE	MHAITI	104	106	108	110
	IUT	06	06	10	10
AMBIENT HEATING – Average application temperature 55°C	;				
3 Pdesignh (EN 14825)	kW	5	5	7	8
3 SCOP (EN 14825)	-	3,27	3,25	3,31	3,25
Φ ηs	%	128	127	129	127
Energy class		A++	A++	A++	A++
WATER HEATING					
Load profile	-	L	L	L	L
s ηwh	%	101	101	89	89
§ Energy class		A	A	A	A

Data at the following conditions:

- Air: 7°C D.B. 6°C W.B. Water: 40/45°C.
- ❷ Air: 7°C D.B. − 6°C W.B. − Water: 30/35°C.
- ❸ Air: 35°C D.B. Water: 12/7°C.
- Air: 35°C D.B. Water: 23/18°C.
- **6** In open field (Q = 2) at 5 m from the unit.
- Weight refers to the most complete set up. Performance according to EN 14511
- 3 In Average climatic conditions.
- Seasonal energy efficiency: ambient heating in Average climate (EU Regulations No.811/2013 and No.813/2013 class between D and A+++)
- (S) Water heating energy efficiency in average climatic conditions (+7°C). (Regulations (EU) No.812/2013 and No.814/2013 class between F and A+)







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