

# ElectaMAXI-ECO

## THAITI 118÷130

Cooling capacity 17-29.5 kW

Heating capacity 18-30kW



### Features

**Low GWP R32 refrigerant**

**Energy class A+++**

**Temperature of the produced water up to 60°C**

**Domestic hot water production from -25°C to +43°C outdoor air**

**Standard control panel**

**3-way diverter valve management for DHW**

**Secondary circuit management with 2 zones, high and low temperature**

**Integrated MASTER/SLAVE management of up to 6 units**

**Accessory inertial tank under unit**



**Tax incentives\***

**Packaged reversible air-cooled heat pumps with axial fans. Range with hermetic rotary DC Inverter compressors and R32 refrigerant gas.**

### Construction features

- Compressor: twin rotary type, rotary, hermetic with Inverter actuation, complete with thermal protection and casing heater.
- Electronic expansion valve.
- Water side heat exchanger: adequately insulated stainless steel plates, complete with antifreeze heater and water flow differential pressure switch.
- Air side heat exchanger: finned coil heat exchanger, with copper pipes and aluminium fins with Blue Fin anti-corrosion hydrophilic treatment.
- Fan: axial type electric fans with DC brushless motor, equipped with internal thermal protection, accident protection grilles and continuous fan rotation speed adjustment.

- Structure: made of galvanised and painted steel plate Pantone Warm Grey 2C, complete with condensate drain pan and ducted condensate drains.
- Control: microprocessor electronic control with remote control panel with display (50 m distance max), for integrated management of the heat pump and the heating system, according to the various requirements relating to the use of the energy sources.
  - 3-way diverter valve management and electrical resistance for domestic hot water production.
  - Rapid heating function for domestic hot water.
  - Anti-legionella cycle function, with timer and electric heater.
  - Auxiliary or supplementary heat source management.
  - Management of water or room air temperature via air temperature probe in the control panel.

- Secondary circuit management with 2 zones, high and low temperature with mixing valve and room thermostats.
- On/off valve management for shutting off a part of the system, in heating or cooling mode.
- Management of one or two booster pumps, DHW recirculation pump and solar pump.
- Management of solar thermal enabling or solar panel probe.
- Master/slave management of up to 6 units in parallel.
- Smart Grid function for photovoltaic panels.
- Operation in silent mode, with two levels, with timer.
- Weekly and daily time bands.
- Holiday mode and system antifreeze function with heating cable.
- Power consumption limiting function.
- Unit activation by external contact (remote ON/OFF), alarm/operation output signal.
- Parental control and start-up menu password.
- The unit is also complete with:
  - Outdoor air temperature probe for compensation of the Set-point.
  - Supplied water temperature probe (10 m) for domestic hot water storage.
  - RS485 interface for serial communication with other devices (Modbus RTU protocol).

KAI-110 – Inertial storage tank, with function of thermal flywheel or hydraulic separator, for outdoor installation below ElectaMAXI-ECO unit; 37 W leakage losses, energy class A.

KTAI-110 – Connection pipe between ElectaMAXI-ECO unit and KAI-110 tank.

KSA – Rubber anti-vibration mounts (for ElectaMAXI-ECO without tank KAI-110)

KVDEV – 3-way valve for the production of domestic hot water, managed by the adjustment.

KRIT – Supplementary electrical resistance.

KWTS – Additional water temperature probe (10 m) can be used for: mixed water secondary circuit, hydraulic separator for master/slave function, auxiliary or supplementary heat source, thermal solar.

## Models

- THAITI: heat pump unit.

## PUMP set up

- P0 - Pump unit complete with: EC circulator with 3-speed selector switch, membrane expansion tank, automatic air vent valve, safety valve, pressure gauge, water filter, flow switch.

## Separately supplied accessories

## Technical data

THAITI MODEL		118	122	126	130
❶ Heating capacity	kW	18,0	22,0	26,0	30,0
❶ Absorbed power	kW	5,14	6,47	8,39	10,34
❶ C.O.P.		3,50	3,40	3,10	2,90
❷ Heating capacity	kW	18,0	22,0	26,0	30,1
❷ Absorbed power	kW	3,83	5,00	6,37	7,70
❷ C.O.P.		4,70	4,40	4,08	3,91
❸ Cooling capacity	kW	17,0	21,0	26,0	29,5
❸ Absorbed power	kW	5,57	7,12	9,63	11,57
❸ E.E.R.		3,05	2,95	2,7	2,55
❹ Cooling capacity	kW	18,5	23,0	27,0	31,0
❹ Absorbed power	kW	3,89	5,00	6,28	7,75
❹ E.E.R.		4,75	4,60	4,30	4,00
❺ Sound pressure	dB(A)	56	58	60	62
❻ Available circulator head	kPa	102	95	78	61
KAI Buffer tank water content	l	118	118	118	118
Electrical supply	V-ph-Hz	400-3+N-50	400-3+N-50	400-3+N-50	400-3+N-50
DIMENSIONS AND WEIGHTS		118	122	126	130
L – THAITI width	mm	1129	1129	1129	1129
H – THAITI height	mm	1558	1558	1558	1558
P – THAITI Depth	mm	528	528	528	528
❶ THAITI weight	kg	177	177	177	177
L – THAITI+KAI width	mm	1333	1333	1333	1333
H – THAITI+KAI height	mm	2178	2178	2178	2178
P – THAITI+KAI Depth	mm	590	590	590	590
❶ THAITI+KAI weight	kg	242	242	242	242
SEASONAL ENERGY PERFORMANCE		118	122	126	130
<b>THAITI MODEL SEASONAL PERFORMANCE IN HEATING MODE – Low temperature application 35°C</b>					
❸ Pdesignh (EN 14825)	kW	18	22	25	29
❸ SCOP (EN 14825)		4,60	4,53	4,50	4,20
❹ ηs	%	181	178	177	165
❹ Energy class		A+++	A+++	A+++	A++
<b>THAITI MODEL SEASONAL PERFORMANCE IN HEATING MODE – Medium temperature application 55°C</b>					
❸ Pdesignh (EN 14825)	kW	18	22	26	30
❸ SCOP (EN 14825)		3,20	3,23	3,15	3,15
❹ ηs	%	125	126	123	123
❹ Energy class		A++	A++	A+	A+

Data at the following conditions:

- ❶ 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.
- ❹ Air: 35°C D.B. – Water: 23/18°C.
- ❺ In open field (Q = 2) at 5 m from the unit.
- ❻ Weight refers to the most complete set up.  
Performance according to EN 14511
- ❸ In Average climatic conditions.
- ❹ Seasonal energy efficiency: ambient heating in Average climate (EU Regulations No.811/2013 and No.813/2013)



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