

# ELECTA THAITY 105÷116



Cooling capacity: 3.8÷12.6 kW - Heating capacity:  
6.2÷15.2 kW

√ Operation up to  $-20^{\circ}\text{C}$   
outdoor air

√ Temperature of the produced  
water up to  $60^{\circ}\text{C}$

√ COP > 4.2

√ Plant control system  
integrated in the heat pump



Web code: EL001

**Packaged reversible air-cooled heat pumps with axial fans. Range with hermetic rotary DC Inverter compressors and R410A refrigerant gas.**

## Construction features

- Compressor: hermetic, rotary brushless DC compressor, complete with thermal protection and Inverter-actuated.
- Expansion valve: electronic.
- Water side heat exchanger: Adequately insulated, stainless steel plates.
- Air side heat exchanger: finned coil with copper pipes and aluminium fins.
- 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.
- Control: microprocessor electronic control. Enables integrated control of the heat pump and the heating system, according to the various requirements of use of the energy sources and terminal units.
- RS485 interface for serial communication with other devices (Modbus RTU protocol).
- Outdoor temperature probe for set-point compensation.
- Structure: made of galvanised and painted steel plate complete with condensate drain pan and unit base antifreeze heater.

## Version

- T - High efficiency.

## Models

- THAITY: heat pump unit.

## PUMP set up

- Pump unit complete with: EC circulator, manual air vent valve, safety valve and pressure gauge.

## Separately supplied accessories

- 3-way valve for the production of domestic hot water, managed by regulation.
- Rubber anti-vibration mounts.
- Water filter.
- Outdoor air probe with remote control option.
- Chronothermostat and user terminal (KCTR accessory).
- Rhoss supervisors for unit monitoring and remote management.

## Technical Data

THAIY MODEL		105	110	116
① MIN/NOM/MAX heating capacity	kW	1,8/6,2/6,4	1,9/9,8/9,8	8,8/15,2/16,7
① NOM absorbed power	kW	1,98	2,83	4,47
① C.O.P. NOM		3,12	3,44	3,4
② MIN/NOM/MAX heating capacity	kW	2,0/6,5/7,1	1,7/9,9/9,9	9,4/16,0/18,5
② NOM absorbed power	kW	1,49	2,15	3,81
② C.O.P. NOM		4,34	4,58	4,2
③ MIN/NOM/MAX heating capacity	kW	2,4/4,7/5,3	5,1/6,5/9,0	6,5/10,6/12,8
③ NOM absorbed power	kW	1,72	2,41	3,8
③ C.O.P. NOM		2,7	2,7	2,8
④ MIN/NOM/MAX cooling capacity	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
⑤ Sound power	dB(A)	60	62	63
⑥ Sound pressure	dB(A)	35	37	38
⑦ Available circulator head	kPa	85	55	90
Electrical supply	V-ph-Hz	230-1-50	230-1-50	230-1-50
DIMENSIONS AND WEIGHTS		105	110	116
L - Width	mm	898	850	1000
H - Height	mm	675	882	1418
P - Depth	mm	300	330	330
⑦ Weight	kg	52	77	118
SEASONAL ENERGY PERFORMANCE		105	110	116
THAIY MODEL SEASONAL PERFORMANCE IN HEATING MODE				
③ Pdesignh (EN 14825)	kW	8	11	17
③ SCOP (EN 14825)		3,99	4,20	4,03
④ $\eta_s$	%	157	165	158
④ Energy class		A++	A++	A++

Data at the following conditions:

- ① Air: 7°C D.B. - 6°C W.B. - Water: 40/45°C.
- ② Air: 7°C D.B. - 6°C W.B. - Water: 30/35°C.
- ③ Air: -7°C D.B. - Water: 30/35°C.
- ④ Air: 35° D.B. - Water: 12/7°C.
- ⑤ Sound power level in dB(A) based on measurements carried out in accordance with regulation UNI EN ISO 9614
- ⑥ In open field (Q = 2) at 5 m from the unit.
- ⑦ Weight refers to most complete set up.  
Performance according to EN 14511:2013
- ③ In Average climatic conditions, low temperature application (35°C)
- ④ Seasonal energy efficiency: low temperature heating in Average climate (EU Regulations No.811/213 and No.813/2013)



Rhoss s.p.a.

Via Oltre Ferrovia 33  
33033 Codroipo (UD)

Tel. +39 0432 911611  
Fax +39 0432 911600

www.rhoss.com  
rhoss@rhoss.it