

# Compact-Y SM THAEY 122÷130



Cooling capacity: 22.7-29 kW - Heating capacity:  
23.5-34 kW

√ **Plug&Play unit with integrated hydraulic module**

√ **Integrated MASTER/SLAVE control**



Web code: CY031

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

## Construction features

- Compressor: hermetic, rotary scroll compressor, complete with thermal protection and casing heater for mod. 127-130.
- 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 with copper pipes and aluminium fins, complete with protection grilles.
- Fan: external rotor axial type electric fans equipped with internal thermal protection and accident protection grilles.
- Control: microprocessor electronic control with Adaptive Function Plus logic.
- Structure: in galvanised and painted steel plate, complete with condensate drain pan.
- The unit is also complete with:
  - outdoor air temperature probe for compensation of the set-point;
  - display of cooling circuit high and low pressure;
  - Master/Slave control up to 4 units in parallel;
  - clock board.

## Models

- THAEY: heat pump unit.

## PUMP set-up

- Pump unit complete with: circulator or electric circulation pump, membrane expansion tank, manual air vent valve, safety valve and pressure gauge.

## TANK & PUMP set up

- Pump unit complete with: inertial buffer tank, circulator or electric circulation pump, membrane expansion tank, manual air vent valve, automatic air vent valve, safety valve, and pressure gauge.

## Factory fitted accessories

- Soft-start device.
- Silenced set up.
- Condensing control.
- Antifreeze heater on the buffer tank.
- Compressor casing heater (mod. 122).
- Unit base antifreeze heater for operation in heat pump mode at low outdoor air temperatures.
- Digital input for double set-point
- 4-20 mA analogue signal for shifting set-point.
- Low water set-point temperature.
- Pre-painted copper/coils or copper/copper coils.

## Separately supplied accessories

- Rubber anti-vibration mounts.
- Condensing control.
- Water filter.
- 3-way valve for the production of domestic hot water.
- Outdoor air temperature probe for set-point compensation.
- Additional electrical resistance for heat pump, managed by regulation.
- Remote keypad with display.
- Interfaces for serial communication with other devices.
- Serial converter (RS485/USB).

- Rhoss supervisors for unit monitoring and remote management.

## Technical Data

THAEY MODEL		122	127	130
① Heating capacity	kW	23,5	30,3	34
① Absorbed power	kW	7,94	10,13	11,26
① C.O.P.		2,96	2,99	3,02
② Heating capacity	kW	24	30,9	34,5
② C.O.P.		3,75	3,74	3,72
③ Cooling capacity	kW	22,7	26,7	29
③ Absorbed power	kW	7,99	10,23	11,84
③ E.E.R.		2,84	2,61	2,45
④ Sound pressure	dB(A)	52	53	53
④ Silenced setup sound pressure	dB(A)	49	50	50
Scroll/step compressor	n.	1/1	1/1	1/1
Circuits	no.	1	1	1
Buffer tank water content	l	45	45	45
⑤ Circulator/standard electric pump nominal available head	kPa	65/131	64/121	55/112
Electrical supply	V-ph-Hz	400-3+N-50	400-3+N-50	400-3+N-50
DIMENSIONS AND WEIGHT		122	127	130
L - PUMP width	mm	1230	1535	1535
W - TANK & PUMP width	mm	1522	1822	1822
H - Height	mm	1280	1510	1510
P - Depth	mm	600	695	695
⑥ THAEY weight	kg	278	350	380
SEASONAL ENERGY PERFORMANCE		122	127	130
THAEY MODEL SEASONAL PERFORMANCE IN HEATING MODE				
③ Pdesignh (EN 14825)	kW	24	32	36
③ SCOP (EN 14825)		3,21	3,21	3,2
④ $\eta_s$	%	125	125	125
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: 35°C - Water: 12/7°C.
- ④ In open field (Q = 2) at 5 m from the unit.
- ⑤ Weight refers to the most complete setup.  
Performance according to EN 14511. Setup with electric pump.
- ③ In Average climatic conditions, low temperature application (35°C)
- ④ Seasonal energy efficiency: low temperature heating in Average climate (EU Regulations No.811/2013 and No.813/2013)

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