

# Mini-Y NF THAEY 105÷111 NF



Cooling capacity: 5.6-11.3 kW - Heating capacity:  
5.7-11.8 kW



√ **Compact units and Plug&Play**

√ **Hot water up to -15°C outdoor  
air**



Web code: MYN01

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

## Construction features

- Compressor: hermetic, rotary scroll type, complete with thermal protection.
- Water side heat exchanger: adequately insulated stainless steel plates, complete with antifreeze heater and water flow differential pressure switch.
- Air side heat exchanger: featuring finned coil with copper pipes and aluminium fins with hydrophilic treatment and complete with protective mesh.
- Fan: external rotor axial type electric fans equipped with internal thermal protection, accident protection grilles and proportional electronic device for continuous fan rotation speed regulation.
- Control: microprocessor electronic control with Adaptive Function Plus logic.
- Structure: made of galvanised and painted steel plate, complete with condensate drain pan and unit base antifreeze heater.

## Models

- THAEY: heat pump unit.

## PUMP set-up

- Pump unit complete with: circulator, membrane expansion tank, manual air vent valve, safety valve.

### TANK&PUMP set up

- Pump unit complete with: inertial buffer tank, circulator, membrane expansion tank, manual air vent valve, automatic air vent

valve, safety valve.

## Factory fitted accessories

- Soft-start device (for models with 230V power supply).
- Compressor casing heater.
- Digital input for double set-point.
- 4-20 mA analogue signal for shifting set-point.
- Low water set-point temperature.

## Separately supplied accessories

- 3-way valve for the production of domestic hot water.
- Additional electrical resistance for heat pump, managed by regulation.
- Outdoor air temperature probe for set-point compensation.
- Rubber anti-vibration mounts.
- Water filter.
- Antifreeze heater on the tank.
- Remote keypad with display.
- Clock board.
- Interfaces for serial communication with other devices.
- Serial converter (RS485/USB).
- Rhoss supervisors for unit monitoring and remote management.

## Technical Data

THAEY NF MODEL		105	107	109	111
① Heating capacity	kW	5,71	7,33	9,3	11,35/11,8
① Absorbed power	kW	2,19	2,84	3,5	4,65/5,65
① C.O.P.		2,61	2,58	2,66	2,44/2,09
② Heating capacity	kW	5,9	7,7	9,4	11,9/12,3
② Absorbed power	kW	1,68	2,07	2,63	3,30/3,30
② C.O.P.		3,52	3,72	3,58	3,61/3,73
③ Heating capacity	kW	3,8	4,6	6,1	7,3/7,3
③ Absorbed power	kW	1,65	2,13	2,69	3,35/3,38
③ C.O.P.		2,3	2,16	2,27	2,18/2,16
④ Cooling capacity	kW	5,6	7	9	10,9/11,3
④ E.E.R.		2,71	2,58	2,64	2,62/2,61
⑤ Sound pressure	dB(A)	46	47	47	47
Scroll/step compressor	no.	1/1	1/1	1/1	1/1
Buffer tank water content	l	19	19	30	30
④ Available circulator head	kPa	55	55	85	75
Electrical supply	V-ph-Hz	230-1-50	230-1-50 / 400-3+N-50	230-1-50 / 400-3+N-50	230-1-50 / 400-3+N-50
DIMENSIONS AND WEIGHTS		105	107	109	111
L - Width	mm	990	990	990	990
H - PUMP height	mm	905	905	1085	1085
H - TANK&PUMP height	mm	905	905	1295	1295
P - Depth	mm	380	380	380	380
⑥ Weight	kg	141	143	167	176
SEASONAL ENERGY PERFORMANCE		105	107	109	111
THAEY NF MODEL SEASONAL PERFORMANCE IN HEATING MODE					
③ Pdesignh (EN 14825)	kW	6	7	9	11
③ SCOP (EN 14825)		3,2	3,31	3,2	3,3
④ ηs	%	125	129	125	129
④ Energy class		A+	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°C D.B. - Water: 12/7°C.
- ⑤ In open field (Q = 2) at 5 m from the unit.
- ⑥ Weight refers to the most complete setup.  
Performance according to EN 14511
- 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)

RHOSS S.P.A. declines all responsibility for possible mistakes in this document and reserves the right to alter the features of their products without notice.

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