TCAEY-THAEY 105÷111
Mini-Y Range

Fan coil systems

Radiant systems

Packaged air-cooled water chillers and reversible heat pumps with axial fans.
Range with hermetic Scroll compressors and R410A refrigerant gas.

Construction features
Compressor: hermetic, rotary Scroll compressor, complete with thermal protection.
Water side heat exchanger: adequately insulated stainless steel plate exchanger, complete with antifreeze heater and water flow differential pressure switch.
Air side heat exchanger: featuring finned coil with copper pipes and aluminium fins, complete with protection grille.
Fan: electric axial fan with external rotor, equipped with internal thermal protection and complete with protection grille.
Control: microprocessor electronic control available in 2 versions: ***standard,*** with AdaptiveFunction logic, and ***iDRHOSS*** compatible, with evoluted AdaptiveFunction logic.
Structure: in galvanised and painted sheet steel, complete with condensation drain pan for THAEY.

Models
TCAEY: unit designed for cooling only.
THAEY: heat pump unit.

PUMP unit
Pumping group complete with: electric circulation pump, expansion tank with membrane, manual bleed valve and safety valve.

TANK & PUMP unit
Pumping group complete with: water buffer tank, electric circulation pump, expansion tank with membrane, manual air bleed valve, automatic air bleed valve and safety valve.

Factory fitted accessories
- -10°C condensation control.
- Low pressure switch.
- Crankcase heater compressor.
- Electrical heater for the air side exchanger only for heat pump operation at external air temperature of below –5°C.

Option with control iDRHOSS
- Digital input for double set-point.
- 4-20 mA analogue input for shifting set-point.

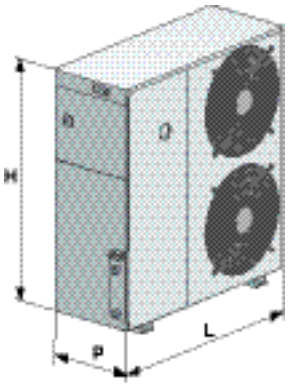
Accessories supplied loose
- Antivibration rubber mountings.
- -10°C condensation control.
- Water filter
- Low pressure switch.
- Antifreeze electric heater on the buffer tank.
- Remote keyboard with display.
- Serial interfaces for connection to BMS (proprietary protocol, Modbus RTU, LonWorks).
- Serial converters (RS485/RS232, RS485/USB) in the case of centralised unit management.

Option with control iDRHOSS
- Clock card
- Serial interface (CAN-bus - Controller Area Network) for the ***iDRHOSS*** system.
- GSM 900/1800 modem kit for remote unit management.
- Rhoss supervision system for unit monitoring and remote management.

Microsystem
5,5÷11,1 kW
5,8÷12,4 kW

R410A

PUMP unit



TCAEY-THAEY MODEL		**105**	**107**	**109**	**111**
❶ Nominal cooling capacity	kW	5,5	6,9	8,8	10,8 / 11,1
❶ E.E.R.		2,74	2,58	2,66	2,62 / 2,61
● E.S.E.E.R.		3,15	2,77	3,16	3,11 / 3,15
❶ Absorbed power (*)	kW	2,00	2,67	3,32	4,12 / 4,25
❷ Nominal heating capacity	kW	5,8	7,5	9,7	12,0 / 12,4
❷ C.O.P.		2,74	2,71	2,84	2,72 / 2,78
❷ Absorbed power (*)	kW	2,13	2,77	3,41	4,42 / 4,45
❸ Cooling capacity (radiating)	kW	7,5	8,9	12,1	14,5 / 14,8
❸ E.E.R. (radiating)		3,71	3,27	3,53	3,20 / 3,06
❸ Absorbed power (radiating) (*)	kW	2,02	2,72	3,43	4,53 / 4,83
❹ Heating capacity (radiating)	kW	6,00	7,90	9,90	12,2 / 12,6
❹ C.O.P. (radiating)		3,70	3,73	3,76	3,66 / 3,77
❸ Absorbed power (radiating) (*)	kW	1,62	2,12	2,63	3,33 / 3,34
❺ Sound pressure	dB(A)	46	47	47	47
Scroll/step compressor	No.	1/1	1/1	1/1	1/1
Circuits	No.	1	1	1	1
Water tank content	l	19	19	30	30
❶ Available head pressure	kPa	55	55	85	75
Main 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 - Height **PUMP**	mm	905	905	1.090	1.090
H - Height **TANK & PUMP**	mm	905	905	1.295	1.295
P - Depth	mm	380	380	380	380
❻ Weight **TCAEY**	kg	131	133	157	166
❻ Weight **THAEY**	kg	141	143	167	176

In the following conditions:
❶ Air: 35°C - Water: 7/12°C
❷ Air: 7°C B.S. - 6°C W.B. - Water: 45/40°C.
❸ Air: 35°C - Water: 18/23°C - ❹ Air: 7°C B.S. - 6°C W.B. - Water 35/30°C
❺ At 5 m from the unit, coil side, in free field (Q = 2).
❻ The weight refers to the unit in its most complete form
● ESEER (European Seasonal EER) - European seasonal average efficiency

(*) Unit without electric pump