

TCAEY-THAEY 238÷260

Compact-Y Range



3 capacity steps



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 and crankcase heater. 3 capacity steps with high efficiency at partial loads.

Water side heat exchanger: adequately insulated stainless steel plate exchanger, complete with antifreeze heater and water flow differential pressure switch.

Air side heat exchanger: finned coil exchanger, with copper pipes and aluminium fins.

Fan: electric axial fans with external rotor, equipped with internal thermal protection, protective grilles and proportional electronic device for continuous fan rotation speed regulation.

Control: microprocessor electronic control, **IDRHOSS** compatible, with evolved AdaptiveFunction logic.

Structure: in galvanised and painted sheet steel, complete with condensation drain pan for THAEY.

Versions

- **B** - Standard version (TCAEY-THAEY).
- **S** - Silenced version (TCAESY - THAESY).

Models

TCAEY: unit designed for cooling only.

TCAESY: silenced unit designed for cooling only.

THAEY: heat pump unit.

THAESY: silenced heat pump unit.

Factory fitted accessories

- PUMP with single or double pump, including an automatic pump in standby, complete with expansion tank, air bleed valve, safety valve and water pressure gauge. The electric pumps are available in the low or high pressure versions.
- TANK&PUMP with water buffer tank and single or double electric pump, including an automatic pump in standby, complete with expansion tank, air bleed valve, safety valve and water pressure gauge. The electric pumps are available in the low or high pressure versions.
- 15% desuperheater.
- 100% heat recovery.
- Thermostat with display for the heat recovery/desuperheater.
- Refrigerant circuit high and low pressure gauges.
- Protective coil grilles.
- Antifreeze electric heater for buffer tank and electric pumps.
- Digital input for double set-point.
- 4-20 mA analogue input for shifting set-point.

Accessories supplied loose

- Antivibration rubber mountings.
- Remote keyboard with display.
- Clock card
- Serial interfaces for connection to BMS (proprietary protocol, Modbus RTU, LonWorks).
- CAN-bus (Controller Area Network) serial interface for the **IDRHOSS** system.
- RS485/RS232, RS485/USB serial converter in the event of centralised unit management.
- GSM 900/1800 modem kit for remote unit management.
- Rhoss supervision system for unit monitoring and remote management.

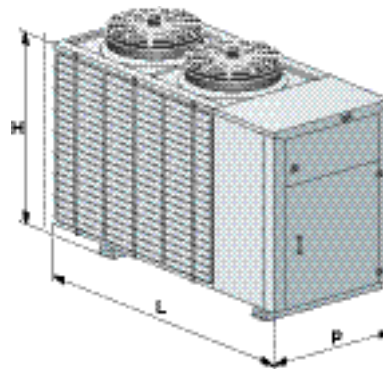


TCAEY-THAEY MODEL		238	246	253	260
❶ Nominal cooling capacity	kW	39,2	46,9	51,1	57,8
❶ E.E.R.		2,53	2,72	2,56	2,55
● E.S.E.E.R.		3,69	3,97	3,82	3,88
❶ Absorbed power (*)	kW	15,5	17,2	19,9	22,6
❷ Nominal heating capacity	kW	43,0	49,3	54,7	62,0
❷ C.O.P.		2,84	2,96	2,97	2,74
❷ Absorbed power (*)	kW	15,1	16,6	18,4	22,7
❸ Sound pressure	dB(A)	-	-	-	-
Scroll/step compressor	No.	2/3	2/3	2/3	2/3
Circuits	No.	1	1	1	1
Main supply	V-ph-Hz	400-3+N-50	400-3+N-50	400-3+N-50	400-3+N-50
DIMENSIONS AND WEIGHTS		238	246	253	260
L - Width	mm	2.260	2.260	2.260	2.260
H - Height	mm	1.530	1.530	1.530	1.530
P - Depth	mm	1.000	1.000	1.000	1.000
❹ Weight TCAEY	kg	720	740	755	760
❹ Weight THAEY	kg	740	750	775	790

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 At 5 m from the unit in free field (Q = 2).
- ❹ The weight refers to the unit in its most complete form
- ESEER (European Seasonal EER) - European seasonal average efficiency

(*) Unit without electric pump



TANK & PUMP

TCAEY-THAEY MODEL		238	246	253	260
Nominal flow	l/h	6.742	8.067	8.789	9.942
Water tank content	l	150	150	150	150
Electric pump available head pressure					
Pump P1	KPa	122	109	105	94
Pump P2	KPa	200	184	185	174

PUMP

TCAEY-THAEY MODEL		238	246	253	260
Nominal flow	l/h	6.742	8.067	8.789	9.942
Electric pump available head pressure					
Pump P1	KPa	130	120	119	112
Pump P2	KPa	210	201	199	192