

# Air Cooled Chillers & Heat Pumps

## Compact-Y MD

TCAEY-THAEY 233-265



**ÜNTES**<sup>®</sup>  
**52**  
years

## Compact-Y MD

### TCAEY-THAEY 233-265

- ❄️ Cooling capacity: 32.3-63.7 kW
- 🔥 Heating capacity: 37.8-68.3 kW

- 3 capacity steps (mod. 245-265)
- HT65 version for 65°C water production (°)



Water chillers and 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 and casing heater. 3 capacity steps with high efficiency at partial loads for models 245-265.
- 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 fan equipped with internal thermal protection, accident protection grilles and proportional electronic device for continuous fan speed regulation.
- Control: microprocessor electronic control with Adaptive Function Plus logic.
- Structure: made of galvanised and painted sheet steel.

#### Models

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

#### Factory fitted accessories

- PUMP with single or double electric pump (mod. 245-265) including an automatic pump in standby, complete with expansion tank, air vent valves, safety valve and water side pressure gauge. The electric pumps are available in the low or high pressure head versions.
- TANK&PUMP with inertial buffer tank and single or double electric pump (mod. 245-265) including an automatic pump in standby, complete with expansion tank, air vent valves, safety valve and water side pressure gauge. The electric pumps are available in the low or high pressure head versions.
  - Soft-start device.
  - Silenced set up.
  - 15% desuperheater.
  - 100% heat recovery unit.
  - Cooling circuit high and low pressure gauges (mod. 245-265).
  - Antifreeze heater for buffer tank and electric pumps (mod. 245-265).
  - Digital input for double set-point
  - 4-20 mA analogue signal for shifting set-point.
  - Low water set-point temperature.
  - Copper/pre-painted aluminium or copper/copper coils.

#### Separately supplied accessories

- Outdoor air temperature probe for set-point compensation.
- Additional electrical resistance for heat pump, managed by regulation.
- Rubber anti-vibration mounts.
- Water filter.
- Remote keypad with display.
- Clock board.
- Interfaces for serial communication with other devices.
- Serial converter (RS485/USB).
- Untes supervisors for unit monitoring and remote management.

TCAEY MODEL		233	238	245	250	260	265
❶	Cooling capacity	kW	32,3	38,5	44,0	51,0	63,7
❶	Absorbed power	kW	12,47	13,05	17,67	19,92	24,31
❶	E.E.R.		2,59	2,95	2,50	2,55	2,62
THAEY MODEL							
❷	Heating capacity	kW	37,8	42,1	48,1	56,2	68,3
❷	Absorbed power	kW	12,54	13,19	16,82	18,97	23,71
❷	C.O.P.		3,01	3,19	2,86	2,96	2,88
❶	Cooling capacity		32,3	38,5	42,3	50,3	61,6
❶	E.E.R.		2,59	2,95	2,49	2,68	2,64
TCAEY-THAEY MODEL		233	238	245	250	260	265
❸	Sound pressure	dB(A)	54	54	56	56	57
❸	Silenced set up sound pressure	dB(A)	51	51	53	53	54
	Scroll/step compressor	no.	2/2	2/2	2/3	2/3	2/3
	Circuits	no.	1	1	1	1	1
	Buffer tank water content (TANK&PUMP)	l	80	150	150	150	150
❶	Available nominal head of standard electric pump	kPa	106	87	113	103	88
	Electrical supply	V-ph-Hz	400-3+N-50	400-3+N-50	400-3+N-50	400-3+N-50	400-3+N-50
DIMENSIONS AND WEIGHTS		233	238	245	250	260	265
	L - Width	mm	1.660	2.260	2.260	2.260	2.260
	H - Height	mm	1.570	1.570	1.570	1.570	1.570
	P - Depth	mm	1.000	1.000	1.000	1.000	1.000
❹	TCAEY weight	kg	465	625	725	750	820
❹	THAEY weight	kg	475	645	745	770	840

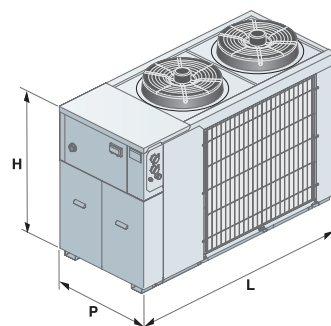
Data at the following conditions:

- ❶ Air: 35°C - Water: 12/7°C.
- ❷ Air: 7°C D.B. - 6°C W.B. - Water: 40/45°C.
- ❸ In open field (Q = 2) at 5 m from the unit.
- ❹ Weight refers to most complete set up.

Performance according to EN 14511:2013

SEASONAL ENERGY PERFORMANCE		233	238	245	250	260	265
TCAEY MODEL SEASONAL PERFORMANCE IN COOLING MODE							
❶	P <sub>designc</sub> (EN 14825)	kW	32,3	38,5	43,9	51,0	63,7
❶	SEER (EN 14825)		3,90	3,96	4,00	4,09	4,04
❷	η <sub>s,c</sub>	%	153	155	157	160	159
THAEY MODEL SEASONAL PERFORMANCE IN HEATING MODE							
❸	P <sub>designh</sub> (EN 14825)	kW	36	41	49	56	70
❸	SCOP (EN 14825)		3,72	3,72	3,61	3,58	3,66
❹	η <sub>s</sub>	%	146	146	141	140	144
❹	Energy class		A+	A+	A+	A+	A+

- ❶ Low temperature application (7°C)
- ❷ Seasonal energy efficiency: low temperature cooling (EU Regulation 2016/2281)
- ❸ In Average climatic conditions, low temperature application (35°C)
- ❹ Seasonal energy efficiency: low temperature heating in Average climate (EU Regulations No.811/213 and No.813/2013)



# ÜNTEŞ®

52  
years

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#### Manufacturing Plant-2

Water Chiller and Heat Pumps  
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