

Water Cooled Chillers & Heat Pumps

Y-Flow

TCHEY-THHEY 115-240



ÜNTES®

52
years

Y-Flow

TCHEY-THHEY 115-240

- ❄️ Cooling capacity: 15,5-41,7 kW
- 🔥 Heating capacity: 17,4-45,1 kW

- Applications with well water, water mains or geothermal probes
- Plug&Play Unit with upward hydraulic connections



Reversible packaged heat pumps and water chillers on the cooling circuit with water-cooling. Range with scroll hermetic compressors and R410A refrigerant gas.

Construction features

- Compressor: hermetic rotary scroll complete with thermal protection and casing heater.
- Primary side (user) heat exchanger: adequately insulated stainless steel plates, complete with antifreeze heater and water flow differential pressure switch.
- Disposal unit side (well/mains/geothermal probes) heat exchanger: adequately insulated stainless steel plates, complete with antifreeze heater and water flow differential pressure switch (for THHEY).
- Control: microprocessor electronic control with Adaptive Function Plus logic.
- Structure: made of galvanised and painted steel plate with polyester powder coating, internally covered with soundproof panelling.

Models

- TCHEY: unit designed for cooling only.
- THHEY: heat pump unit.

Factory fitted accessories

- PUMP:
 - Primary side (user): pump unit complete with electric circulation pump with standard or oversized head, membrane expansion tank, safety valve, water fill/drain valve, manual air vent valve and pressure gauge.
 - Disposal side (geothermal probes/dry cooler): pump unit complete with phase cutting electric pump, water fill/drain valve and manual air vent valve.
- Silenced set up.
- Pressure switch valve with water flow lock solenoid.
- Pressure switch valve with water flow lock solenoid and bypass solenoid valve.
- Water circuit heat pump (for TCHEY only).
- Soft-start device.
- Low water set-point temperature.
- Digital input for double set-point.
- 4-20mA analogue signal for shifting set-point.

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.
- Free-cooling kit.
- Water filter.
- Rubber anti-vibration mounts.
- 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.

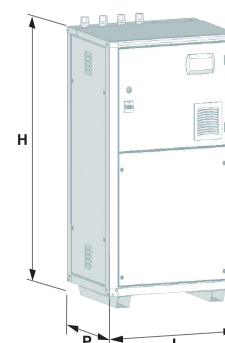
TCHEY MODEL		115	118	122	125	230	240
❶	Cooling capacity	kW	15,5	18,4	22,7	26,3	41,7
❶	Absorbed power	kW	3,27	3,49	4,50	5,01	8,07
❶	E.E.R.		4,74	5,27	5,04	5,25	4,59
THHEY MODEL		115	118	122	125	230	240
❷	Heating capacity	kW	17,4	20,2	25,1	28,9	45,1
❷	Absorbed power	kW	3,95	4,41	5,59	6,30	10,11
❷	C.O.P.		4,40	4,58	4,49	4,59	4,46
❸	Heating capacity	kW	18,6	21,5	26,6	30,7	47,9
❸	Absorbed power	kW	3,29	3,55	4,45	5,04	8,09
❸	C.O.P.		5,66	6,05	5,97	6,09	5,92
❹	Heating capacity (geothermal)	kW	13,4	15,3	18,6	21,7	33,8
❹	C.O.P. (geothermal)		4,12	4,21	4,37	4,49	4,30
❶	Cooling capacity	kW	13,9	16,3	20,0	23,1	35,9
❶	E.E.R.		3,81	4,13	4,15	4,19	4,09
TCHEY - THHEY MODEL		115	118	122	125	230	240
❺	Sound pressure	dB(A)	42	42	46	47	52
	Scroll/step compressor	no.	1/1	1/1	1/1	1/1	2/2
	Circuits	no.	1	1	1	1	1
❶	Std system side electric pump available head	kPa	88	81	73	113	105
	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		115	118	122	125	230	240
	L - Width	mm	700	700	700	700	700
	H - STANDARD height - PUMP	mm	1.140	1.140	1.140	1.140	1.140
	P - Depth	mm	560	560	780	780	780
❻	Weight	kg	193	193	230	254	298

Data at the following conditions:

- ❶ Chilled water: 12/7°C - Condenser water: 30/35°C.
- ❷ Hot water: 40/45°C - Evaporator water: 10/7°C.
- ❸ Hot water: 30/35°C - Evaporator water: 10/7°C.
- ❹ Hot water: 30/35°C - Evaporator water: 0/-3°C, 30% glycol.
- ❺ In open field (Q = 2) at 1 m from the unit, with silenced set up.
- ❻ Weight refers to most complete set up.
Performance according to EN 14511:2013.

SEASONAL ENERGY PERFORMANCE		115	118	122	125	230	240
TCHEY MODEL SEASONAL PERFORMANCE IN COOLING MODE							
❶	P _{designc} (EN 14825)	kW	15,5	18,4	22,7	26,3	41,7
❶	SEER (EN 14825)		5,35	5,58	5,57	5,72	5,82
❷	η _{s,c}	%	206	215	215	221	235
THHEY MODEL SEASONAL PERFORMANCE IN HEATING MODE							
❸	P _{designh} (EN 14825)	kW	23	27	33	38	59
❸	SCOP (EN 14825)		6,09	6,42	6,43	6,53	6,72
❹	η _s	%	236	249	249	253	261
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®

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years

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