

EasyFLOW ECO E

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TCEET 245÷2195

Cooling capacity 38,6÷170,5 kW



Condenserless units

Efficient and eco-friendly range in R454B

Extended operating limits

Touch interface (optional)

Integrated MASTER/SLAVE control

Tax incentives*



Cooling only condenserless units to couple with a remote condenser. Series with scroll hermetic compressors and R454B or R410A refrigerant gas.

Construction features

- Compressor: hermetic rotary scroll complete with thermal protection and crankcase heater.
- Water side heat exchanger: with stainless steel plates, complete with closed cell polyurethane foam rubber insulation and water flow differential pressure switch.
- Control: microprocessor electronic control with Adaptive Function Plus logic.
- Structure: made of galvanised and painted steel plate with polyester powder coating.
- The unit is also complete with:
 - compressor circuit breaker switches;
 - electronic expansion valve;
 - display of cooling circuit high and low pressure;
 - Master/Slave control up to 4 units in parallel;
 - clock board;
 - 0-10V analogue signal for condensing control from

external device.

Versions

- T - High efficiency version

Models

- TCEETU: unit designed for cooling only with R454B gas.
- TCEETY: unit designed for cooling only with R410A gas.

Factory fitted accessories

- VPF control.
- Primary side (user) PUMP: with single or double electric pump, one of which automatic in standby. The electric pumps are available in the low or high pressure

head versions. ➔

- Desuperheater.
- Primary side (user) inverter pump management.
- Power factor correction capacitors ($\cos\phi > 0.94$).
- Soft-starter.
- Energy parameter measuring device.
- Cooling circuit intake valves.
- Refrigerant leak detector.
- Forced limit of power consumption.
- Cooling circuit high and low pressure gauges.
- Double safety valves.
- Technical compartment soundproofing.
- Compressor soundproof enclosures
- Control of min/max power supply voltage and backup battery.
- Low temperature water production.
- Digital input for double set-point.
- 4-20mA analogue signal for shifting set-point.
- Evaporator antifreeze heaters, electrical panel, electric pumps and heat exchangers for heat recovery if applicable.
- Interfaces for serial communication with other devices.
- Colour touch user keypad (fitted on the machine or remotely) with 7" display.
- Set-up for outdoor installation.
- Rubber anti-vibration mounts.

Separately supplied accessories

- Outdoor air temperature probe for set-point compensation.
- Water filter.
- Remote keypad with display.
- Thermostat with display.
- Rhoss supervisors for unit monitoring and remote management.
- Rhoss sequencer for integrated management of multiple chillers.

Technical data

TCEETU MODEL		245	255	260	270	280	290	2105	2120
❶ Cooling capacity	kW	38,6	45,8	52,6	59,9	66,1	78,6	90,7	102,6
❶ Absorbed power	kW	12,8	15	16	18,1	19,7	23,6	27,2	32,1
❶ E.E.R.		3,02	3,05	3,29	3,31	3,36	3,33	3,33	3,2
TCEETU MODEL		245	255	260	270	280	290	2105	2120
❷ Sound pressure	dB(A)	38	40	39	41	41	42	42	44
❸ Sound power	dB(A)	69	71	70	72	72	74	74	76
❹ Sound power with soundproofing set-up	dB(A)	66,5	68,5	67,5	69,5	69,5	71,5	71,5	73,5
Scroll compressor/steps	no.	2/2	2/2	2/2	2/3	2/3	2/2	2/3	2/3
Circuits	no.	1	1	1	1	1	1	1	1
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	400-3+N-50	400-3+N-50	400-3+N-50
DIMENSIONS AND WEIGHTS		245	255	260	270	280	290	2105	2120
❶ L – Width	mm	1190	1190	1190	1190	1190	1500	1500	1500
❷ L – Width	mm	2060	2060	2060	2060	2060	2460	2460	2460
H – Height	mm	1450	1450	1450	1450	1450	1860	1860	1860
P – Depth	mm	720	720	720	720	720	870	870	870
❹ TCEETU weight	kg	390	400	440	445	450	625	630	720
TCEETY MODEL		245	255	260	270	280	290	2105	2120
❶ Cooling capacity	kW	40,2	47,8	53,9	61,9	68,9	80,6	93,1	105,2
❶ Absorbed power	kW	13,6	15,9	16,8	19	20,7	24,6	28,6	33,5
❶ E.E.R.		2,96	3,01	3,21	3,26	3,33	3,28	3,26	3,14
TCEETY MODEL		245	255	260	270	280	290	2105	2120
❷ Sound pressure	dB(A)	38	40	39	41	41	42	42	44
❸ Sound power	dB(A)	69	71	70	72	72	74	74	76
❹ Sound power with soundproofing set-up	dB(A)	66,5	68,5	67,5	69,5	69,5	71,5	71,5	73,5
Scroll compressor/steps	no.	2/2	2/2	2/2	2/3	2/3	2/2	2/3	2/3
Circuits	no.	1	1	1	1	1	1	1	1
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	400-3+N-50	400-3+N-50	400-3+N-50
DIMENSIONS AND WEIGHTS		245	255	260	270	280	290	2105	2120
❶ L – Width	mm	1190	1190	1190	1190	1190	1500	1500	1500
❷ L – Width	mm	2060	2060	2060	2060	2060	2460	2460	2460
H – Height	mm	1450	1450	1450	1450	1450	1860	1860	1860
P – Depth	mm	720	720	720	720	720	870	870	870
❹ TCEETY weight	kg	390	400	440	445	450	625	630	720
TCEETU MODEL				2135		2155		2175	2195
❶ Cooling capacity	kW			114,9		127,7		146,6	166,3
❶ Absorbed power	kW			35,8		40,6		46,8	53
❶ E.E.R.				3,21		3,15		3,13	3,14
TCEETU MODEL				2135		2155		2175	2195
❷ Sound pressure	dB(A)			44		46		47	48
❸ Sound power	dB(A)			76		78		79	80
❹ Sound power with soundproofing set-up	dB(A)			73,5		75,5		76,5	77,5
Scroll compressor/steps	no.			2/3		2/2		2/3	2/2
Circuits	no.			1		1		1	1
Electrical supply	V-ph-Hz			400-3+N-50		400-3+N-50		400-3+N-50	400-3+N-50
DIMENSIONS AND WEIGHTS				2135		2155		2175	2195
❶ L – Width	mm			1500		1500		1500	1500
❷ L – Width	mm			2460		2460		2460	2460
H – Height	mm			1860		1860		1860	1860
P – Depth	mm			870		870		870	870
❹ TCEETU weight	kg			730		810		820	825
TCEETY MODEL				2135		2155		2175	2195
❶ Cooling capacity	kW			117,9		131,4		150,4	170,5
❶ Absorbed power	kW			37,5		42,4		49	55,6
❶ E.E.R.				3,14		3,1		3,07	3,07
TCEETY MODEL				2135		2155		2175	2195
❷ Sound pressure	dB(A)			44		46		47	48

④ Sound power	dB(A)	76	78	79	80
⑤ Sound power with soundproofing set-up	dB(A)	73,5	75,5	76,5	77,5
Scroll compressor/steps	no.	2/3	2/2	2/3	2/2
Circuits	no.	1	1	1	1
Electrical supply	V-ph-Hz	400-3+N-50	400-3+N-50	400-3+N-50	400-3+N-50
DIMENSIONS AND WEIGHTS		2135	2155	2175	2195
① L – Width	mm	1500	1500	1500	1500
⑤ L – Width	mm	2460	2460	2460	2460
H – Height	mm	1860	1860	1860	1860
P – Depth	mm	870	870	870	870
⑥ TCEETY weight	kg	730	810	820	825

Data at the following conditions:

- ① Chilled water: 12/7°C – Condensing temperature: 50°C (dew point)
- ② In open field (Q = 2) at 10 m from the unit.
- ③ Total sound power level in dB(A) based on measurements carried out in accordance with regulation UNI EN-ISO 9614.
- ④ Width referred to a unit with standard set up.
- ⑤ Width referring to the PUMP setup, up to a maximum of 2 pumps.
- ⑥ Weight refers to the unit empty with soundproofing.



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