

WinFLOW ECO E

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TCEET 4185÷4395

Cooling capacity 166,5÷360,2 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.
- Anti-vibration mounts.
- Thermostat with display.
- Rhoss supervisors for unit monitoring and remote management.
- Rhoss sequencer for integrated management of multiple chillers.

Separately supplied accessories

- Outdoor air temperature probe for set-point compensation.
- Water filter.
- Remote keypad with display.

Technical data

TCEETU MODEL		4185	4210	4240	4275	4305	4350	4395
❶ Cooling capacity	kW	166,5	191	215,1	242,4	269,6	309,9	351,8
❶ Absorbed power	kW	47,4	55,4	62,7	72,6	82,2	94,5	107,3
❶ E.E.R.		3,51	3,45	3,43	3,34	3,28	3,28	3,28
TCEETU MODEL		4185	4210	4240	4275	4305	4350	4395
❷ Sound pressure	dB(A)	47	47	48	49	51	52	53
❸ Sound power	dB(A)	79	79	80	81	83	84	85
❹ Sound power with soundproofing set-up	dB(A)	76,5	76,5	77,5	78,5	80,5	81,5	82,5
Scroll compressor/steps	no.	4/4	4/4	4/4	4/4	4/4	4/4	4/4
Circuits	no.	2	2	2	2	2	2	2
Electrical supply	V-ph-Hz	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50
DIMENSIONS AND WEIGHTS		4185	4210	4240	4275	4305	4350	4395
❹ L – Width	mm	2510	2510	2510	2510	2510	2510	2510
❺ L – Width	mm	3740	3740	3740	3740	3740	3740	3740
H – Height	mm	1860	1860	1860	1860	1860	1860	1860
P – Depth	mm	870	870	870	870	870	870	870
❻ TCEETU weight	kg	1040	1050	1070	1245	1390	1430	1445
TCEETY MODEL		4185	4210	4240	4275	4305	4350	4395
❶ Cooling capacity	kW	170,7	195,4	220,5	248,8	276,7	317,7	360,2
❶ Absorbed power	kW	49,6	57,8	65,6	75,9	85,7	99	112,6
❶ E.E.R.		3,44	3,38	3,36	3,28	3,23	3,21	3,2
TCEETY MODEL		4185	4210	4240	4275	4305	4350	4395
❷ Sound pressure	dB(A)	100	100	100	100	100	100	100
❸ Sound power	dB(A)	100	100	100	100	100	100	100
❹ Sound power with soundproofing set-up	dB(A)	100	100	100	100	100	100	100
Scroll compressor/steps	no.	4/4	4/4	4/4	4/4	4/4	4/4	4/4
Circuits	no.	2	2	2	2	2	2	2
Electrical supply	V-ph-Hz	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50
DIMENSIONS AND WEIGHTS		4185	4210	4240	4275	4305	4350	4395
❹ L – Width	mm	2510	2510	2510	2510	2510	2510	2510
❺ L – Width	mm	3740	3740	3740	3740	3740	3740	3740
H – Height	mm	1860	1860	1860	1860	1860	1860	1860
P – Depth	mm	870	870	870	870	870	870	870
❻ TCEETY weight	kg	1040	1050	1070	1245	1390	1430	1445

Data at the following conditions:

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



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