

WinPOWER ECO EXP TWIN

TXAEU 8900÷121320

Cooling capacity 841,3÷1283,2 kW

Heating capacity 858,7÷1290,8 kW



Multi-purpose units with TER up to 8,18

Extended operating limits

SEER up to 5,18 with FIEC accessory (EC fans) and SCOP up to 3,91

R454B eco-friendly gas

Tax incentives*



EXPsystems - Air cooled multi-purpose ecological system with axial fans. Range with scroll hermetic compressors and R454B refrigerant gas.

Construction features

- Compressor: scroll type, rotary, hermetic complete with thermal protection and casing heater.
- Up to 12 capacity steps with high efficiency at partial loads.
- Main and secondary heat exchangers: crossed flow stainless steel plate exchangers, complete with antifreeze heater, closed cell polyurethane foam rubber insulation and water flow differential pressure switch.
- Air side heat exchanger: finned coil with copper pipes and aluminium fins.
- Fan: external rotor axial type electric fans equipped with internal thermal protection, accident protection grilles and proportional electronic device for continuous fan rotation speed adjustment.
- Control: microprocessor electronic control with Adaptive Function Plus logic.
- Structure: load-bearing structure made of galvanised and painted steel plate with polyester powder coating.

- The unit is also complete with:
 - fan and compressor thermal magnetic circuit breakers, heat exchanger antifreeze heater;
 - display of cooling circuit high and low pressure;
 - electronic expansion valve;
 - clock board;
 - control of Variable Primary Flow (VPF_R).

Versions

- T - High efficiency version.
- Q - Super silenced version complete with compressor technical compartment soundproofing and reduced speed fans.

Models

- TXAETU: EXPsystems unit.
- TXAEQU: super silenced EXPsystems unit.
- Spring anti-vibration mounts.
- Protective packaging.

Factory fitted accessories

- PUMP with single or double electric pump, one of which automatic in standby. The electric pumps are available in the main and secondary/recovery heat exchanger low or high head set-ups.
- Inverter pump control for unit start-up.
- Recovery side VPF_R control.
- Condensing control with fans with EC motor.
- Condensing control with over-pressure fans (T version only).
- Power factor correction capacitors ($\cos\phi > 0.94$).
- Forced limit of power consumption.
- Forced noise limit.
- Energy parameter measuring device.
- Soft starter.
- Compressor box and soundproofed cooling circuit.
- Compressor soundproof enclosures.
- Cooling circuit outlet valves.
- Refrigerant leak detector.
- Cooling circuit high and low pressure gauges.
- Double safety valves.
- Coil protection nets or buffer panels.
- Bottom compartment protection nets.
- Pre-painted copper/aluminium coils, copper/copper or with hydrophilic treatment.
- Digital input for double set-point.
- 4-20 mA analogue signal for shifting set-point.
- Electrical panel antifreeze heater, coil tanks and electric pumps, if applicable.
- Interfaces for serial communication with other devices.
- Colour touch user keypad (fitted on the machine or remotely) with 7" display.

Separately supplied accessories

- 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

TXAETU MODEL		8900	10980	101040	101120	121200	121260	121320
COOLING OPERATIONS (AUTOMATIC 1 MODE)								
① Nominal cooling capacity	kW	863,3	949,2	989,2	1085,1	1171,2	1223,2	1283,2
① Absorbed power	kW	276,7	304,2	320,1	351,2	368,3	387,1	407,4
① E.E.R.		3,12	3,12	3,09	3,09	3,18	3,16	3,15
COOLING OPERATIONS + TOTAL RECOVERY (AUTOMATIC 2 MODE)								
② Nominal cooling capacity	kW	861,7	923,9	964,3	1073,8	1150,6	1205,3	1279,1
② Recovery heating capacity	kW	1092,2	1179,8	1231,8	1363,6	1462,3	1529,2	1617
② T.E.R.		8,05	7,79	7,77	7,93	7,95	8,03	8,14
HEATING OPERATIONS (MODE SELECT 1-2 AUTOMATIC 3)								
② Nominal heating capacity	kW	870,7	964,8	1016,8	1088,9	1182,8	1246,8	1290,8
② Absorbed power	kW	267,9	293,3	310	333	360,6	381,3	394,7
② C.O.P.		3,25	3,29	3,28	3,27	3,28	3,27	3,27
TXAEQU MODEL								
COOLING OPERATIONS (AUTOMATIC 1 MODE)								
① Nominal cooling capacity	kW	841,3	927,3	965,2	1057,2	1145,2	1191,3	1249,2
① Absorbed power	kW	281,4	306	322,8	357,2	371,8	390,6	405,6
① E.E.R.		2,99	3,03	2,99	2,96	3,08	3,05	3,08
COOLING OPERATIONS + TOTAL RECOVERY (AUTOMATIC 2 MODE)								
② Nominal cooling capacity	kW	864,4	926,7	967,4	1077,1	1154	1209,1	1283,3
② Recovery heating capacity	kW	1094,7	1182,3	1234,7	1366,6	1465,4	1532,7	1620,8
② T.E.R.		8,09	7,82	7,8	7,97	7,98	8,07	8,18
HEATING OPERATIONS (MODE SELECT 1-2 AUTOMATIC 3)								
② Nominal heating capacity	kW	858,7	950,8	1000,8	1074,8	1164,8	1226,8	1272,8
② Absorbed power	kW	260,2	283,8	300,5	324,7	349,8	369,5	384,5
② C.O.P.		3,3	3,35	3,33	3,31	3,33	3,32	3,31
TXAETU-TXAEQU MODEL								
④ TXAETU sound pressure	dB(A)	66	67	67	67	68	68	69
④ TXAEQU sound pressure	dB(A)	58	59	59	59	60	60	60
⑤ TXAETU sound power	dB(A)	99	100	100	100	101	101	102
⑤ TXAEQU sound power	dB(A)	91	92	92	92	93	93	93
Scroll compressors/steps	n.	8/8	10/10	10/10	10/10	12/12	12/12	12/12
Circuits	n.	4	4	4	4	4	4	4
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								
L – Width	mm	9400	11600	11600	11600	13330	13330	13330
H – Height	mm	2480	2480	2480	2480	2530	2530	2530
P – Depth	mm	2260	2260	2260	2260	2260	2260	2260
⑥ TXAETU weight	kg	7640	9070	9210	9270	11070	11220	11280
⑥ TXAEQU weight	kg	8520	10080	10220	10280	12320	12490	12550
SEASONAL ENERGY PERFORMANCE								
TXAETU MODEL SEASONAL PERFORMANCE IN COOLING MODE								
① Pdesignc (EN 14825)	kW	863,3	949,2	989,2	1085,1	1171,2	1223,2	1283,2
① SEER (EN 14825)		4,75	4,84	4,75	4,73	4,9	4,88	4,82
② ηs,c	%	187	191	187	186	193	192	190
TXAEQU MODEL SEASONAL PERFORMANCE IN COOLING MODE								
① Pdesignc (EN 14825)	kW	841,3	927,3	965,2	1057,2	1145,2	1191,3	1249,2
① SEER (EN 14825)		4,74	4,82	4,71	4,7	4,88	4,85	4,79
② ηs,c	%	186	190	186	185	192	191	189

Data at the following conditions:

- ① Air: 35°C – Water: 12/7°C.
- ② Air: 7°C D.B. – 6°C W.B. – Water: 40/45°C.
- ③ Evaporator output water: 7°C, nominal flow rate. Recovery output water: 45°C, nominal flow rate.
- ④ In open field (Q = 2) at 10 m from the unit.
- ⑤ Total sound power level in dB(A) based on measurements carried out in accordance with regulation UNI EN-ISO 9614.
- ⑥ Weight refers to the unit without load.
Performance according to EN 14511.

T.E.R.: Total efficiency ratio

- ① Low temperature application (7°C)
- ② Seasonal energy efficiency: low temperature cooling (EU Regulation 2016/2281)



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