

EasyPACK ECO EXP

TXAEU 270-2135

Cooling capacity 67,2÷133,8 kW

Heating capacity 71,0÷136,9 kW



Features

Efficient and eco-friendly range in R454B

Temperature of the produced water up to 60°C

TER up to 7,86

Extended operating limits

Integrated MASTER/SLAVE control

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.
- 2 capacity steps with high efficiency at part 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 and accident protection grilles. The electric fans, based on the sizes, are EC fans or fitted with a proportional electronic device for continuous adjustment of the rotation speed.
- 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 and fan circuit breaker switches;
- electronic expansion valve;
- display of cooling circuit high/low pressure;
- master/slave control up to 4 units in parallel;
- 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.

Factory fitted accessories

- PUMP with single or double electric pump, one of which automatic in standby. The electric pumps are available in the low or high head versions.
- TANK&PUMP with 230 - 440 litre integrated buffer tank (depending on the sizes) and single or double electric pump, complete with expansion tank, air vent valves, safety valve and water side pressure gauge.
- Inverter pump control for unit start-up.
- Recovery side VPF_R control.
- Desuperheater.
- Condensing control with fans with EC motor (standard in sizes 270-295).
- 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 technical compartment soundproofing.
- Compressor soundproof enclosures.
- Cooling circuit delivery valves.
- Refrigerant leak detector.
- Gas control and refrigerant leak detector (leak detector plus).
- Cooling circuit high and low pressure gauges.
- Double safety valves.
- Metal filters or coil protection nets.
- Copper/copper or copper/pre-painted aluminium coils.
- Control of min/max power supply voltage.
- Digital input for double set-point.
- 4-20 mA analogue signal for shifting set-point.
- Electrical panel resistance, base, buffer tank and electric pumps if any.
- Interfaces for serial communication with other devices.
- Colour touch user keypad (fitted on the machine or remotely) with 7" display.
- Rubber anti-vibration mounts.

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		270	285	295	2110	2125	2135
COOLING OPERATIONS (AUTOMATIC 1 MODE)							
① Nominal cooling capacity	kW	69	83,6	97,8	110,8	124,6	133,8
① Absorbed power	kW	22,1	27,2	33,5	37,3	43,1	46,9
① E.E.R.		3,12	3,07	2,92	2,97	2,89	2,85
COOLING OPERATIONS + TOTAL RECOVERY (AUTOMATIC 2 MODE)							
② Nominal cooling capacity	kW	70,3	84,8	97,7	112,3	125,7	136,5
② Recovery heating capacity	kW	90,1	109	126,1	144,7	161,1	175,7
② T.E.R.		7,81	7,74	7,6	7,66	7,81	7,7
HEATING OPERATIONS (MODE SELECT 1-2 AUTOMATIC 3)							
② Nominal heating capacity	kW	73,4	88,2	101,2	116,9	127,5	136,9
② Absorbed power	kW	22	26,6	30,8	35,9	39,6	42,8
② C.O.P.		3,33	3,32	3,29	3,26	3,22	3,2
TXAEQU MODEL							
COOLING OPERATIONS (AUTOMATIC 1 MODE)							
① Nominal cooling capacity	kW	67,2	81,3	95,1	107	120,3	129,9
① Absorbed power	kW	22,6	27,7	34	38,2	44,1	48,1
① E.E.R.		2,97	2,93	2,8	2,8	2,73	2,7
COOLING OPERATIONS + TOTAL RECOVERY (AUTOMATIC 2 MODE)							
② Nominal cooling capacity	kW	70,5	85,1	98	113	126,3	137,2
② Recovery heating capacity	kW	90,3	109,3	126,4	145,2	161,7	176,2
② T.E.R.		7,83	7,76	7,62	7,72	7,86	7,75
HEATING OPERATIONS (MODE SELECT 1-2 AUTOMATIC 3)							
② Nominal heating capacity	kW	71	84,3	97	113,1	124,6	133,9
② Absorbed power	kW	21,1	25,1	29,2	34,5	38,6	41,7
② C.O.P.		3,36	3,36	3,32	3,28	3,23	3,21
TXAETU-TXAEQU MODEL							
④ TXAETU sound pressure	dB(A)	50	51	52	55	56	56
④ TXAEQU sound pressure	dB(A)	44	45	46	49	50	50
⑤ TXAETU sound power	dB(A)	82	83	84	87	88	88
⑤ TXAEQU sound power	dB(A)	76	77	78	81	82	82
Scroll compressors/steps	no.	2/2	2/2	2/2	2/2	2/2	2/2
Circuits	no.	2	2	2	2	2	2
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
DIMENSIONS AND WEIGHTS							
L - Width	mm	3560	3560	3560	3450	3450	3450
H - Height	mm	1540	1540	1540	2000	2000	2000
P - Depth	mm	1210	1210	1210	1520	1520	1520
⑥ TXAETU weight	kg	1170	1210	1260	1510	1550	1565
⑥ TXAEQU weight	kg	1205	1245	1295	1560	1600	1615
SEASONAL ENERGY PERFORMANCE							
TXAETU MODEL SEASONAL PERFORMANCE IN HEATING MODE							
③ Pdesignh (EN 14825)	kW	68	83	95	110	120	129
③ SCOP (EN 14825)		3,71	3,69	3,65	3,63	3,62	3,62
④ ηs	%	146	145	143	142	142	142
④ Energy class		A+	-	-	-	-	-
TXAEQU MODEL SEASONAL PERFORMANCE IN HEATING MODE							
③ Pdesignh (EN 14825)	kW	66	79	91	106	117	126
③ SCOP (EN 14825)		3,72	3,7	3,66	3,65	3,64	3,64
④ ηs	%	146	145	143	143	143	143
④ Energy class		A+	-	-	-	-	-

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 referred to the unit without load and not accessorised.
Performance according to EN 14511.
T.E.R.: Total efficiency ratio
- ③ In Average climatic conditions, low temperature application (35°C)
- ④ Seasonal energy efficiency: low temperature heating in Average climate (EU Regulations No.811/2013 and No.813/2013)



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