

WinPACK-P EXP

TXAEP 4200÷6430

Cooling capacity 187,8÷414,7 kW

Heating capacity 196,3÷430,3 kW

Features



Efficient range in R290

Temperature of the produced water up to 75°C

TER up to 8,16

Extended operating limits

Integrated MASTER/SLAVE control

Tax incentives*



**EXPsystems – Air cooled multi-purpose system with axial fans.
Range with scroll hermetic compressors and R290 refrigerant gas.**

Construction features

- Compressor: hermetic rotary, scroll type, complete with thermal protection and casing heater.
- 4÷6 capacity steps with high efficiency at partial loads.
- Water side heat exchanger: with stainless steel plates, complete with closed cell polyurethane foam rubber insulation and water flow differential pressure switch.
- Air side heat exchanger: featuring 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 regulation.
- Control: microprocessor electronic control with Adaptive Function Plus logic.
- Structure: load-bearing structure made of galvanised and painted steel plate with polyester powder coating.
- Refrigerant leak detector.
- The unit is also complete with:

- compressor and fan 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;
- control of Variable Primary Flow (VPF_R);
- automatic management of anti-legionella cycles.

Versions

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

Models

- TXAETP: EXPsystems unit.
- TXAEQP: 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.
- 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 technical compartment soundproofing.
- Compressor soundproof enclosures.
- Double safety valves.
- Buffer panels.
- Copper/copper, pre-painted copper/aluminium or with hydrophilic treatment coils.
- Control of min/max power supply voltage.
- Digital input for double set-point.
- 4-20 mA analogue signal for shifting set-point.
- Contacts for Smart Grid integration and photovoltaic system.
- Electrical panel resistance, base, electric pumps and heat exchangers for heat recovery, if any.
- Interfaces for serial communication with other devices.
- Colour touch user keypad (fitted on the machine or remotely) with 7" display.
- 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

TXAETP MODEL		4200	4220	4250	4270	4290	5320	5360	6380
COOLING OPERATIONS (AUTOMATIC 1 MODE)									
❶ Nominal cooling capacity	kW	192,7	212,7	240,7	260,7	281,7	309,7	347,7	372,7
❶ Absorbed power	kW	64,4	72,3	79,2	86,3	93,9	101,5	117,1	125,5
❶ E.E.R.		2,99	2,94	3,04	3,02	3	3,05	2,97	2,97
COOLING OPERATIONS + TOTAL RECOVERY (AUTOMATIC 2 MODE)									
❷ Nominal cooling capacity	kW	195,7	220,3	241,7	264,2	289,1	308,6	351,9	380,4
❷ Recovery heating capacity	kW	248,9	279,4	307,9	336,2	367,6	396	451,4	485,6
❷ T.E.R.		8,04	8,14	7,97	8	8,02	7,75	7,77	7,93
HEATING OPERATIONS (MODE SELECT 1-2 AUTOMATIC 3)									
❸ Nominal heating capacity	kW	199,3	217,3	253,3	273,3	293,3	328,3	367,3	392,3
❸ Absorbed power	kW	61,5	67,5	77,5	83,6	89,7	100,4	113	120,7
❸ C.O.P.		3,24	3,22	3,27	3,27	3,27	3,27	3,25	3,25
TXAEQP MODEL		4200	4220	4250	4270	4290	5320	5360	6380
COOLING OPERATIONS (AUTOMATIC 1 MODE)									
❶ Nominal cooling capacity	kW	187,8	206,8	235,6	254,7	274,7	303,6	339,6	362,6
❶ Absorbed power	kW	65,9	74,1	79,9	87,5	95,4	102,2	118,3	127,2
❶ E.E.R.		2,85	2,79	2,95	2,91	2,88	2,97	2,87	2,85
COOLING OPERATIONS + TOTAL RECOVERY (AUTOMATIC 2 MODE)									
❷ Nominal cooling capacity	kW	196	220,7	242,1	264,7	289,7	309	352,4	381
❷ Recovery heating capacity	kW	249,2	279,9	308,2	336,6	368,2	396,4	452	486,2
❷ T.E.R.		8,07	8,16	7,99	8,02	8,05	7,77	7,78	7,94
HEATING OPERATIONS (MODE SELECT 1-2 AUTOMATIC 3)									
❸ Nominal heating capacity	kW	196,3	214,3	249,3	269,3	288,3	324,3	361,3	386,3
❸ Absorbed power	kW	60,2	66,1	75,8	81,9	87,9	98	110,5	118,1
❸ C.O.P.		3,26	3,24	3,29	3,29	3,28	3,31	3,27	3,27
TXAETP-TXAEQP MODEL		4200	4220	4250	4270	4290	5320	5360	6380
❶ TXAETP sound pressure	dB(A)	58	59	60	60	61	61	62	62
❶ TXAEQP sound pressure	dB(A)	52	53	54	54	55	55	56	56
❷ TXAETP sound power	dB(A)	90	91	92	92	93	93	94	94
❷ TXAEQP sound power	dB(A)	84	85	86	86	87	87	88	88
Scroll compressors/steps	n.	4/4	4/4	4/4	4/4	4/4	5/5	5/5	6/6
Circuits	n.	2	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	400-3-50
DIMENSIONS AND WEIGHTS		4200	4220	4250	4270	4290	5320	5360	6380
L – Width	mm	2730	2730	3830	3830	3830	4970	4970	4970
H – Height	mm	2480	2480	2480	2480	2480	2480	2480	2480
P – Depth	mm	2260	2260	2260	2260	2260	2260	2260	2260
❶ TXAETP weight	kg	2370	2515	3205	3345	3490	4170	4440	4490
❶ TXAEQP weight	kg	2450	2595	3310	3450	3595	4310	4580	4630
SEASONAL ENERGY PERFORMANCE									
TXAETP MODEL SEASONAL PERFORMANCE IN HEATING MODE – Low temperature application 35°C									
❸ Pdesignh (EN 14825)	kW	163	178	206	223	240	268	301	321
❸ SCOP (EN 14825)		3,93	3,94	3,97	3,92	3,92	3,9	3,89	3,96
❹ ηs	%	154	155	156	154	154	153	153	156
TXAEQP MODEL SEASONAL PERFORMANCE IN HEATING MODE – Low temperature application 35°C									
❸ Pdesignh (EN 14825)	kW	160	175	203	220	236	265	296	316
❸ SCOP (EN 14825)		3,87	3,91	3,91	3,87	3,86	3,85	3,84	3,9
❹ ηs	%	152	153	153	152	151	151	151	153
TXAETP MODEL SEASONAL PERFORMANCE IN HEATING MODE – Medium temperature application 55°C									
❸ Pdesignh (EN 14825)	kW	162	176	201	217	233	260	291	313
❸ SCOP (EN 14825)		3,15	3,18	3,23	3,22	3,22	3,19	3,21	3,24
❹ ηs	%	123	124	126	126	126	125	125	127
TXAEQP MODEL SEASONAL PERFORMANCE IN HEATING MODE – Medium temperature application 55°C									

③ Pdesignh (EN 14825)	kW	160	174	199	214	229	258	286	309
③ SCOP (EN 14825)		3,11	3,15	3,19	3,18	3,18	3,14	3,17	3,19
④ ηs	%	121	123	124	124	124	123	124	124
TXAETP MODEL									6430
COOLING OPERATIONS (AUTOMATIC 1 MODE)									
❶ Nominal cooling capacity							kW		414,7
❶ Absorbed power							kW		141,5
❶ E.E.R.									2,93
COOLING OPERATIONS + TOTAL RECOVERY (AUTOMATIC 2 MODE)									
❷ Nominal cooling capacity							kW		424,7
❷ Recovery heating capacity							kW		542,9
❷ T.E.R.									7,88
HEATING OPERATIONS (MODE SELECT 1-2 AUTOMATIC 3)									
❷ Nominal heating capacity							kW		430,3
❷ Absorbed power							kW		132,8
❷ C.O.P.									3,24
TXAEQP MODEL									6430
COOLING OPERATIONS (AUTOMATIC 1 MODE)									
❶ Nominal cooling capacity							kW		403,7
❶ Absorbed power							kW		144,7
❶ E.E.R.									2,79
COOLING OPERATIONS + TOTAL RECOVERY (AUTOMATIC 2 MODE)									
❷ Nominal cooling capacity							kW		425,4
❷ Recovery heating capacity							kW		543,6
❷ T.E.R.									7,9
HEATING OPERATIONS (MODE SELECT 1-2 AUTOMATIC 3)									
❷ Nominal heating capacity							kW		422,3
❷ Absorbed power							kW		130,3
❷ C.O.P.									3,24
TXAETP-TXAEQP MODEL									6430
❶ TXAETP sound pressure							dB(A)		62
❶ TXAEQP sound pressure							dB(A)		57
❷ TXAETP sound power							dB(A)		94
❷ TXAEQP sound power							dB(A)		89
Scroll compressors/steps							n.		6/6
Circuits							n.		2
Electrical supply							V-ph-Hz		400-3-50
DIMENSIONS AND WEIGHTS									6430
L – Width							mm		4970
H – Height							mm		2480
P – Depth							mm		2260
❶ TXAETP weight							kg		4780
❶ TXAEQP weight							kg		4920
SEASONAL ENERGY PERFORMANCE									6430
TXAETP MODEL SEASONAL PERFORMANCE IN HEATING MODE – Low temperature application 35°C									
③ Pdesignh (EN 14825)							kW		353
③ SCOP (EN 14825)									3,91
④ ηs							%		154
TXAEQP MODEL SEASONAL PERFORMANCE IN HEATING MODE – Low temperature application 35°C									
③ Pdesignh (EN 14825)							kW		346
③ SCOP (EN 14825)									3,84
④ ηs							%		151
TXAETP MODEL SEASONAL PERFORMANCE IN HEATING MODE – Medium temperature application 55°C									
③ Pdesignh (EN 14825)							kW		343
③ SCOP (EN 14825)									3,21
④ ηs							%		126
TXAEQP MODEL SEASONAL PERFORMANCE IN HEATING MODE – Medium temperature application 55°C									
③ Pdesignh (EN 14825)							kW		336
③ SCOP (EN 14825)									3,15
④ ηs							%		123

Data at the following conditions:

- ❶ Air: 35°C – Water: 12/7°C.
- ❷ Air: 7°C D.B. – 6°C W.B. – Water: 40/45°C.
- ❸ Evaporator output water: 7°C, nominal flow rate. Recovery output water: 45°C, nominal flow rate.
- ❹ In open field (Q = 2) at 10 m from the unit.
- ❺ Total sound power level in dB(A) based on measurements carried out in accordance with regulation UNI EN-ISO 9614.
- ❻ Weight referred to the unit without load and not accessorised.
Performance according to EN 14511.
T.E.R.: Total efficiency ratio
- ❼ In Average climatic conditions, not Eurovent certified.
- Ⓣ Seasonal energy efficiency: heating in Average climate (EU Regulations No.811/2013 and No.813/2013), not Eurovent certified.



RHOSS S.P.A.

Via Oltre Ferrovia, 32
33033 Codroipo (UD) - ITALY
tel. [+39 0432 911611](tel:+390432911611)
rhoss@rhoss.com

rhoss.com

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