

EasyPACK-I EXP

TXAIY 270÷2130

Cooling capacity 64,4÷125,9 kW

Heating capacity 71÷133,2 kW



Features

Multi-purpose units with inverter compressors

TER up to 7.89

Extended operating limits

Integrated MASTER/SLAVE control

Tax incentives*



EXPsystems - Air cooled multi-purpose ecological system with axial fans. Range with scroll hermetic compressors, DC Inverter and R410A refrigerant gas.

Construction features

- Compressor: scroll type, rotary, hermetic and with Inverter actuation (1+i) complete with thermal protection and casing heater.
- Continuous regulation 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 and accident protection grilles. The electric fans, based on the sizes, are EC fans or fitted with a proportional electronic device for continuous regulation 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

- TXAITY: EXPsystems unit.
- • TXAIQY: 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 270-2100).
- 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.
- Optimised energy efficiency.
- Soft starter.
- Technical compressor compartment soundproofing.
- Compressor soundproof enclosures.
- Cooling circuit outlet and inlet valves.
- Refrigerant leak detector.
- 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 heater, buffer tank, electric pumps and heat exchangers for heat recovery, if applicable.
- Interfaces for serial communication with other devices.
- 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

TXAITY MODEL		270	280	290	2100	2115	2130
COOLING OPERATIONS (AUTOMATIC 1 MODE)							
❶ Nominal cooling capacity	kW	66,6	78,8	86,2	93	112,3	125,9
❶ Absorbed power	kW	22,2	26,53	29,02	32,52	37,81	42,11
❶ E.E.R.		3	2,97	2,97	2,86	2,97	2,99
COOLING OPERATIONS + TOTAL RECOVERY (AUTOMATIC 2 MODE)							
❷ Nominal cooling capacity	kW	69,1	85,5	87,7	97,3	115,9	129,2
❷ Recovery heating capacity	kW	88,8	109,7	112,7	125	149,1	165,3
❷ T.E.R.		7,73	7,75	7,69	7,7	7,68	7,81
HEATING OPERATIONS (MODE SELECT 1-2 AUTOMATIC 3)							
❷ Nominal heating capacity	kW	72,8	85,1	92,2	100,2	120,3	133,2
❷ Absorbed power	kW	21,89	25,63	27,52	30,09	36,23	41,11
❷ C.O.P.		3,33	3,32	3,35	3,33	3,32	3,24
TXAIQY MODEL		270	280	290	2100	2115	2130
COOLING OPERATIONS (AUTOMATIC 1 MODE)							
❶ Nominal cooling capacity	kW	64,4	77,2	83,7	89,4	107,9	122,2
❶ Absorbed power	kW	22,92	27,18	29,68	33,48	38,54	42,88
❶ E.E.R.		2,81	2,84	2,82	2,67	2,8	2,85
COOLING OPERATIONS + TOTAL RECOVERY (AUTOMATIC 2 MODE)							
❷ Nominal cooling capacity	kW	69,3	85,8	88	97,6	116,5	129,7
❷ Recovery heating capacity	kW	88,9	109,9	112,9	125,4	149,4	165,6
❷ T.E.R.		7,77	7,81	7,75	7,73	7,76	7,89
HEATING OPERATIONS (MODE SELECT 1-2 AUTOMATIC 3)							
❷ Nominal heating capacity	kW	71	83,2	90,3	98,4	117,2	130,5
❷ Absorbed power	kW	21,52	25,14	27,28	29,82	36,06	40,78
❷ C.O.P.		3,3	3,31	3,31	3,3	3,25	3,2
TXAITY-TXAIQY MODEL		270	280	290	2100	2115	2130
❸ TXAITY sound pressure	dB(A)	52	53	53	53	56	56
❸ TXAIQY sound pressure	dB(A)	45	46	46	46	50	50
❸ TXAITY sound power	dB(A)	84	85	85	85	88	88
❸ TXAIQY sound power	dB(A)	77	77,5	77,5	77,5	82	82
Scroll compressors	n.	1 inverter + 1	1 inverter + 1	1 inverter + 1	1 inverter + 1	1 inverter + 1	1 inverter + 1
Circuits	n.	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		270	280	290	2100	2115	2130
L – Width	mm	3250	3250	3250	3250	3450	3450
H – Height	mm	1540	1540	1540	1540	2000	2000
P – Depth	mm	1210	1210	1210	1210	1520	1520
❸ TXAITY weight	kg	1060	1085	1095	1105	1435	1455
❸ TXAIQY weight	kg	1095	1120	1130	1140	1485	1505
SEASONAL ENERGY PERFORMANCE		270	280	290	2100	2115	2130
TXAITY MODEL SEASONAL PERFORMANCE IN HEATING MODE							
❹ Pdesignh (EN 14825)	kW	56	68	70	94	113	125
❹ SCOP (EN 14825)		3,96	4,02	4,02	3,99	3,99	3,88
❹ ηs	%	155	158	158	157	157	152
❹ Energy class		A++	A++	A++			
TXAIQY MODEL SEASONAL PERFORMANCE IN HEATING MODE							
❹ Pdesignh (EN 14825)	kW	54	64	68	92	109	122
❹ SCOP (EN 14825)		4,06	4,13	4,08	3,93	3,9	3,84
❹ ηs	%	159	162	160	154	153	151
❹ Energy class		A++	A++	A++			

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.

- 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)



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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