

# WinPACK EXP

## TXAEY 4150÷4340

Cooling capacity 137,7÷339,6 kW  
Heating capacity 150,3÷372,4 kW



Features

**Multi-purpose units with TER up to 7,9**

**Integrated MASTER/SLAVE control**

**Tax incentives\***



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

### Construction features

- Compressor: scroll type, rotary, hermetic complete with thermal protection and casing heater.
- 4 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 and accident protection grilles. The electric fans are 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

- TXAEY: EXPsystems unit.

- TXAEQY: super silenced EXPsystems unit.

- **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 440 - 700 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.
- 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.
- 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 resistance, buffer tank, electric pumps, if present.
- Interfaces for serial communication with other devices.
- Anti-vibration mounts.

### **Separately supplied accessories**

- Remote keypad with display.
- Rhoss supervisors for unit monitoring and remote management.
- Rhoss sequencer for integrated management of multiple chillers.

## Technical data

TXAETY MODEL		4150	4160	4190	4220	4240	4270	4300	4340
<b>COOLING OPERATIONS (AUTOMATIC 1 MODE)</b>									
❶ Nominal cooling capacity	kW	145,7	162,7	193,7	219,7	237,7	268,7	303,6	339,6
❶ Absorbed power	kW	49,4	56,5	65,9	77,4	85,8	94	105,4	120,4
❶ E.E.R.		2,95	2,88	2,94	2,84	2,77	2,86	2,88	2,82
<b>COOLING OPERATIONS + TOTAL RECOVERY (AUTOMATIC 2 MODE)</b>									
❷ Nominal cooling capacity	kW	149,8	169,5	201,7	230,1	251,7	279,5	314,7	351,5
❷ Recovery heating capacity	kW	192,1	217,5	257,5	296,2	324,4	358,4	404,5	452,6
❷ T.E.R.		7,75	7,7	7,84	7,61	7,57	7,74	7,63	7,59
<b>HEATING OPERATIONS (MODE SELECT 1-2 AUTOMATIC 3)</b>									
❸ Nominal heating capacity	kW	155,4	171,3	211,3	241,3	261,4	292,4	329,4	372,4
❸ Absorbed power	kW	48,1	53,4	66	74,9	81,4	91,4	102,3	116,4
❸ C.O.P.		3,23	3,21	3,2	3,22	3,21	3,2	3,22	3,2
<b>TXAEQY MODEL</b>									
<b>COOLING OPERATIONS (AUTOMATIC 1 MODE)</b>									
❶ Nominal cooling capacity	kW	137,7	152,7	183,7	206,7	225,7	258,7	288,6	327,6
❶ Absorbed power	kW	52,2	59	66,8	79,2	89,6	92,7	104,6	115,4
❶ E.E.R.		2,64	2,59	2,75	2,61	2,52	2,79	2,76	2,84
<b>COOLING OPERATIONS + TOTAL RECOVERY (AUTOMATIC 2 MODE)</b>									
❷ Nominal cooling capacity	kW	150,3	169,9	202,3	230,7	252,3	280,2	315,4	352,3
❷ Recovery heating capacity	kW	192,5	217,9	258	296,8	324,9	358,9	405,1	453,2
❷ T.E.R.		7,81	7,74	7,9	7,65	7,6	7,77	7,68	7,63
<b>HEATING OPERATIONS (MODE SELECT 1-2 AUTOMATIC 3)</b>									
❸ Nominal heating capacity	kW	150,3	167,3	202,3	231,3	251,3	279,4	316,4	357,4
❸ Absorbed power	kW	46,5	52,1	62,6	71,4	78	86,5	97,4	110
❸ C.O.P.		3,23	3,21	3,23	3,24	3,22	3,23	3,25	3,25
<b>TXAETY-TXAEQY MODEL</b>									
❶ TXAETY sound pressure	dB(A)	54	55	57	57	58	60	61	62
❶ TXAEQY sound pressure	dB(A)	48	49	51	51	52	54	55	56
❷ TXAETY sound power	dB(A)	86	87	89	89	90	92	93	94
❷ TXAEQY sound power	dB(A)	80	81	83	83	84	86	87	88
Scroll compressors/steps	n.	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4
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
<b>DIMENSIONS AND WEIGHTS</b>									
L – Width	mm	3450	3450	4800	4800	4800	4800	5300	5300
H – Height	mm	2000	2000	2030	2030	2030	2030	2030	2030
P – Depth	mm	1520	1520	2090	2090	2090	2090	2090	2090
❶ TXAETY weight	kg	1670	1685	2405	2550	2610	2750	3030	3250
❶ TXAEQY weight	kg	1735	1750	2495	2640	2700	2840	3120	3340
<b>SEASONAL ENERGY PERFORMANCE</b>									
<b>TXAETY MODEL SEASONAL PERFORMANCE IN HEATING MODE</b>									
❸ Pdesignh (EN 14825)	kW	136	152	187	213	232	259	292	331
❸ SCOP (EN 14825)		3,61	3,59	3,57	3,59	3,55	3,53	3,57	3,49
❹ ηs	%	141	141	140	141	139	138	140	137
<b>TXAEQY MODEL SEASONAL PERFORMANCE IN HEATING MODE</b>									
❸ Pdesignh (EN 14825)	kW	132	148	179	205	223	247	281	318
❸ SCOP (EN 14825)		3,62	3,6	3,67	3,66	3,59	3,68	3,66	3,62
❹ ηs	%	142	141	144	143	141	144	143	142

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

- 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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