

# Q-Pack EXP Range

## TXAE 475÷4315

Cooling capacity: 70.4÷307 kW - Heating capacity: 71.4÷340 kW



**EXP** SYSTEMS  
Excellence in Polyvalent technology



TXAE 4150

### EXPsystems - Polyvalent ecological air-cooled system with axial fans. Range with hermetic Scroll compressors and R407C refrigerant gas.

#### Construction features

- Compressor: hermetic, rotary Scroll compressor, complete with thermal protection and crankcase heater.
- Main and secondary heat exchangers: crossed-flow stainless steel plate exchangers, complete with closed cell polyurethane foam rubber insulation and water flow differential pressure switch.
- Air side heat exchanger: finned coil exchanger with copper pipes and aluminium fins.
- Fan: electric axial fans with external rotor, equipped with internal thermal protection, protection grilles and proportional electronic device for continuous fan rotation speed regulation.
- Control: electronic microprocessor control prepared for connection with the main BMS on the market (MODBUS RTU, LON).
- Structure: in galvanised and painted sheet steel with polyester powder coating, complete with soundproofed compressor compartment.
- The unit is also complete with:
  - compressor and fan thermal overload switches.

#### Versions

- B - Standard version complete with soundproofed compressor compartment (TXAEB).
- S - Silenced version complete with soundproofed compressor compartment, lower fan speed and larger coil surface (TXAES).

#### Models

- TXAEB: standard EXPsystems unit.
- TXAES: silenced EXPsystems unit.

#### FACTORY FITTED ACCESSORIES

- PUMP (for main circuit only) with single or double pump, including an automatic pump in standby, complete with expansion tank, safety valve and water side pressure gauge. The pumps are available in the low or high pressure versions.
- TANK&PUMP (for main circuit only) with built-in buffer tank from 420 to 1,100 litres and single or double pump, complete with expansion tank, air bleed valves, safety valve and water pressure gauge.
- Power factor correction capacitors ( $\cos\phi > 0.91$ ).
- Refrigerant circuit high and low pressure gauges.
- Metal filters or coil protection grilles.
- Copper/copper, copper/tin-plated copper or copper/pre-painted aluminium coils.
- Digital input for double set-point
- 4-20 mA analogue input for shifting set-point.
- Evaporator antifreeze heater, buffer tank, pumps and heat exchangers for heat recovery if present.
- Serial interface for connection with external BMS.

#### ACCESSORIES SUPPLIED LOOSE

- Antivibration rubber mountings.
- Spring antivibration mountings (mod. 4200-4315).
- Remote keyboard with display.
- Clock card

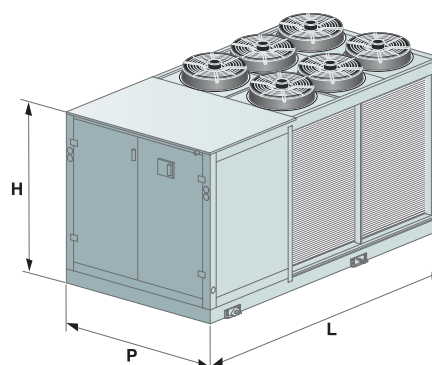


TXAEB MODEL		475	495	4150	4200	4255	4315
❶ Nominal cooling capacity (AUTOMATIC 1)	kW	71,6	103,0	149,0	198,0	240,0	307,0
❷ Recovery heating capacity (AUTOMATIC 2)	kW	91,7	132,7	198,8	260,4	320,4	409,3
❸ Nominal heating capacity (SELECT 1-2 AUTOMATIC 3)	kW	75,8	106,0	159,0	212,0	262,0	340,0
❹ Absorbed power (AUTOMATIC 1)	kW	26,2	36,3	58,2	75,9	94,1	122,0
❺ Absorbed power (AUTOMATIC 2)	kW	24,5	35,3	55,9	73,3	89,6	121,2
❻ Absorbed power (SELECT 1-2 AUTOMATIC 3)	kW	28,0	38,7	57,4	79,9	96,0	124,0
❼ C.O.P. (AUTOMATIC 2)		6,48	6,52	6,11	6,10	6,15	5,75
❽ Sound pressure level	dB(A)	60	60	63	64	64	69
TXAES MODEL		475	495	4150	4200	4255	4315
❶ Nominal cooling capacity (AUTOMATIC 1)	kW	70,4	102,0	147,0	195,0	230,0	298,0
❷ Recovery heating capacity (AUTOMATIC 2)	kW	91,7	132,7	198,8	260,4	320,4	409,3
❸ Nominal heating capacity (SELECT 1-2 AUTOMATIC 3)	kW	71,4	100,0	150,0	201,0	248,0	317,0
❹ Absorbed power (AUTOMATIC 1)	kW	26,1	37,0	57,2	75,9	97,1	120,0
❺ Absorbed power (AUTOMATIC 2)	kW	24,5	35,3	55,9	73,3	89,6	121,2
❻ Absorbed power (SELECT 1-2 AUTOMATIC 3)	kW	27,2	37,8	56,2	78,8	93,8	119,0
❽ Sound pressure level	dB(A)	56	56	58	60	60	64
TXAEB-TXAES MODEL		475	495	4150	4200	4255	4315
Scroll/step compressor	No.	4/2	4/2	4/2	4/2	4/2	4/2
Circuits	No.	2	2	2	2	2	2
Main 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		475	495	4150	4200	4255	4315
W - Width	mm	3.353	3.353	3.797	4.902	4.902	4.902
H - Height	mm	2.049	2.049	2.049	2.049	2.049	2.100
D - Depth	mm	2.062	2.062	2.062	2.062	2.062	2.062
❾ Weight TXAEB-TXAES	kg	1.802	1.896	2.276	3.030	3.190	3.280

**In the following conditions:**

- ❶ Air: 35°C - Water: 7/12°C.
- ❷ Air: 7°C, 70%, D.B - 6°C W.B. - Water: 40/45°C.

- ❸ At 5 m from the unit, coil side, in free field (Q = 2).
- ❹ Evaporator water: 7/12°C. Recovery outlet water 45°C - Nominal flow.
- ❺ Weight of fully accessorised unit when empty.



WATER CHILLERS  
HEAT PUMPS  
AIR cooled  
AXIAL fans

WATER CHILLERS  
HEAT PUMPS  
AIR cooled  
CENTRIFUGAL fans

WATER CHILLERS  
HEAT PUMPS  
WATER cooled  
CONDENSERLESS UNITS

INDUSTRIAL &  
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CONDENSING UNITS

SYSTEM ACCESSORIES

FAN COIL UNITS

TERMINAL UNITS