

# Z-Power Range EXP TXAVZ 2400÷2680

Cooling capacity: 384÷680 kW - Heating capacity: 409÷700 kW



TXAVSZ 2680

TXAVSZ 2530

## EXPsystems - Polyvalent ecological air-cooled system with axial fans. Range with semihermetic screw compressors and R134a refrigerant gas.

### Construction features

- Compressor: high energy efficiency semi-hermetic screw compressor, with star-delta limited start and complete with thermal protection, crankcase heater, refrigerant gas delivery piping shut-off valve and compressor oil level sensor.
- Electronic expansion valve: as standard on all models.
- Main and secondary heat exchanger: dry expansion shell and tube exchanger with counter-current heat exchange, complete with closed cell polyurethane rubber foam insulation, water flow differential pressure switch and Victaulic connections.
- 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
- The unit is also complete with:
  - low and high pressure gauges for each refrigerant circuit.

### Versions

- B - Standard version (TXAVBZ).
- S - Silenced version with lower fan speed and soundproofed compressor cover (TCAVSZ).
- I - Soundproofed version with soundproofed compressor cover (TXAVIZ).

### Models

- TXAVBZ: standard EXPsystems unit.
- TXAVSZ: silenced EXPsystems unit.
- TXAVIZ: soundproofed EXPsystems unit.

### FACTORY FITTED ACCESSORIES

- Power factor correction capacitors ( $\cos\phi > 0.94$ ).
- Compressor and fan thermal overload switches.
- Inlet compressor shut-off valves.
- Bottom compartment protection grilles.
- Main and secondary heat exchanger antifreeze heater.
- Digital input for double set-point
- Display of refrigerant circuit high/low pressure.
- Control of min/max power supply voltage.
- 4-20 mA analogue input for shifting set-point.
- Copper/pre-painted aluminium/ copper/copper or copper/tin-plated copper coils.
- Serial interface for connection with external BMS.

### ACCESSORIES SUPPLIED LOOSE

- Spring antivibration mountings.
- Protection coil grilles.
- Remote keyboard with display.
- Rhoss sequencer for the integrated management of several water chillers.



OUTDOOR  
INSTALLATION



TXAVB MODEL		2400	2460	2530	2600	2680
❶ Nominal cooling capacity (AUTOMATIC 1)	kW	400	464	532	600	680
❷ Recovery heating capacity (AUTOMATIC 2)	kW	528	605	691	773	872
❸ Nominal heating capacity (SELECT 1-2 AUTOMATIC 3)	kW	426	486	563	620	700
❶ Absorbed power (AUTOMATIC 1)	kW	148,2	165,4	184,7	202,4	226,4
❷ Absorbed power (AUTOMATIC 2)	kW	132,2	145,4	164,7	178,4	198,4
❸ Absorbed power (SELECT 1-2 AUTOMATIC 3)	kW	141,9	158,9	177,6	196,8	220,7
E.E.R. (AUTOMATIC 1)		2,70	2,81	2,88	2,97	3,00
C.O.P. (SELECT 1-2 AUTOMATIC 3)		3,00	3,06	3,17	3,15	3,17
❹ Sound pressure level	dB(A)	80	81	81	82	82
TXAVSZ MODEL		2400	2460	2530	2600	2680
❶ Nominal cooling capacity (AUTOMATIC 1)	kW	384	446	511	576	653
❷ Recovery heating capacity (AUTOMATIC 2)	kW	528	605	691	773	872
❸ Nominal heating capacity (SELECT 1-2 AUTOMATIC 3)	kW	409	467	540	595	672
❶ Absorbed power (AUTOMATIC 1)	kW	147,5	164,6	183,8	201,4	225,3
❷ Absorbed power (AUTOMATIC 2)	kW	132,2	145,4	164,7	178,4	198,4
❸ Absorbed power (SELECT 1-2 AUTOMATIC 3)	kW	141,2	158,1	176,7	195,8	219,6
E.E.R. (AUTOMATIC 1)		2,60	2,71	2,78	2,86	2,90
C.O.P. (SELECT 1-2 AUTOMATIC 3)		2,90	2,95	3,06	3,04	3,06
❹ Sound pressure level	dB(A)	74	75	75	76	76
MODEL		2400	2460	2530	2600	2680
Screw compressor/steps	No.	2/6	2/6	2/6	2/6	2/6
Circuits	No.	2	2	2	2	2
Main supply	V-ph-Hz	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50
DIMENSIONS AND WEIGHTS TXAVBZ-TXAVSZ		2400	2460	2530	2600	2680
W - Width	mm	6.130	6.130	6.130	6.980	7.980
H - Height	mm	2.430	2.430	2.430	2.430	2.430
D - Depth	mm	2.260	2.260	2.260	2.260	2.260
❺ Weight TXAVBZ	kg	5.900	6.220	6.340	7.300	8.370

**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 1 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 Empty weight.

