

Water chiller

Air cooled

Outdoor installation

Capacity from 484 to 1423 kW

SCREWLine³

The **SCREWLine³** liquid chillers have a screw compressor with R-134a refrigerant on two separate refrigeration circuits.

- **CONTINUOUS CAPACITY CONTROL** - The continuous capacity control allows for a quick adjustment of the system's load and therefore an accurate control of the chilled water temperature with an exceptionally wide operating range.
- **EFFICIENT AND RELIABLE TECHNOLOGY** - SCREWLine³ employs the new generation dual screw compressors, electronic expansion valves, shell and tube evaporator and fans with innovative AxiTop diffusers with kinetic energy recovery.
- **FOR ALL CIVIL AND INDUSTRIAL APPLICATIONS** - SCREWLine³ is the ideal solution for all civil and industrial applications that require high performance levels, operating continuity and lower running and maintenance costs.



Unit listed on
www.eurovent-certification.com



ErP compliant

functions and features



Cooling only



Air cooled



Outdoor installation



R-134a



Semi-hermetic
Twin-screw



HydroPack

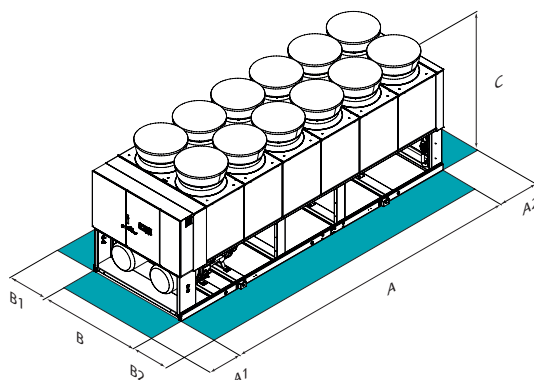


AxiTop



Electronic expansion
valve

dimensions and clearances



| Size - WDAT-SL3 | 200.2 | 210.2 | 220.2 | 240.2 | 260.2 | 280.2 | 320.2 | 340.2 | 360.2 | 400.2 | 440.2 | 500.2 | 540.2 | 580.2 |
|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ST-EXC A - Length | mm | 4788 | 4788 | 5758 | 5758 | 5758 | 6738 | 6738 | 7714 | 7714 | 8691 | 8691 | 10640 | 10640 |
| ST-EXC B - Width | mm | 2246 | 2246 | 2246 | 2246 | 2246 | 2246 | 2246 | 2246 | 2246 | 2246 | 2246 | 2246 | 2246 |
| ST-EXC C - Height | mm | 2668 | 2668 | 2668 | 2668 | 2668 | 2668 | 2668 | 2668 | 2668 | 2668 | 2668 | 2668 | 2668 |
| ST-EXC A1 | mm | 1535 | 1535 | 1535 | 1535 | 1535 | 1535 | 1535 | 1535 | 1535 | 1535 | 1535 | 1535 | 1535 |
| ST-EXC A2 | mm | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 |
| ST-EXC B1 | mm | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 |
| ST-EXC B2 | mm | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 |
| ST-EXC Operating weight | kg | 4717 | 4715 | 5401 | 5454 | 5565 | 6088 | 6282 | 7055 | 7435 | 8013 | 8165 | 8527 | 9790 |

The above mentioned data are referred to standard units for the constructive configurations indicated. For all the other configurations, refer to the relative Technical Bulletin.

ST-EXC Standard (ST)-Excellence

CAUTION! For trouble-free operation of the unit it is essential to maintain the safety distances indicated by the green areas.

versions and configurations

LOW TEMPERATURE:

- ▶ - Low temperature: not required (Standard)
- ▶ B Water low temperature

VERSION:

- ▶ EXC Excellence (Standard)

ENERGY RECOVERY:

- ▶ - Energy recovery: not required (Standard)
- ▶ D Partial energy recovery
- ▶ R Total energy recovery

ACOUSTIC CONFIGURATION:

- ▶ ST Standard acoustic configuration (Standard)
- ▶ SC Acoustic configuration with compressor soundproofing
- ▶ EN Extremely low noise acoustic configuration

EXTERNAL SECTION FAN CONSUMPTION REDUCTION:

- ▶ CREFP Device for fan consumption reduction of the external section at variable speed (phase-cutting) (Standard)
- ▶ CREFB Device for fan consumption reduction of the external section, ECOBREEZE type
- ▶ CREFO Device for fan consumption reduction of the external section, on/off type

TYPE FAN EXTERNAL SECTION:

- ▶ AXIX High efficiency diffuser for axial fan - AxiTop (Standard)
- ▶ NAXI High efficiency diffuser for axial fan - AxiTop: not required

technical data

| Size – WDAT-SL3 | | | | 200.2 | 210.2 | 220.2 | 240.2 | 260.2 | 280.2 | 320.2 | 340.2 | 360.2 | 400.2 | 440.2 | 500.2 | 540.2 | 580.2 |
|-----------------|-----------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|
| ST/SC-EXC | ▶ Cooling capacity (EN14511:2013) | (1) | kW | 484 | 508 | 549 | 583 | 635 | 706 | 780 | 835 | 898 | 977 | 1096 | 1213 | 1315 | 1423 |
| ST/SC-EXC | Total power input (EN14511:2013) | (1) | kW | 156 | 164 | 175 | 186 | 204 | 226 | 247 | 267 | 287 | 313 | 353 | 388 | 424 | 454 |
| ST/SC-EXC | EER (EN 14511:2013) | (1) | - | 3,10 | 3,10 | 3,14 | 3,14 | 3,11 | 3,13 | 3,16 | 3,13 | 3,13 | 3,12 | 3,10 | 3,13 | 3,10 | 3,13 |
| ST/SC-EXC | SEER | (4) | - | 4,10 | 4,10 | 4,11 | 4,11 | 4,10 | 4,10 | 4,11 | 4,11 | 4,10 | 4,18 | 4,14 | 4,11 | 4,11 | 4,11 |
| ST/SC-EXC | Refrigeration circuits | | Nr | | | | | | | | | | 2 | | | | |
| ST/SC-EXC | No. of compressors | | Nr | | | | | | | | | | 2 | | | | |
| ST/SC-EXC | Type of compressors | (2) | - | | | | | | | | | | DSW | | | | |
| ST/SC-EXC | Standard power supply | | V | | | | | | | | | | 400/3~50 | | | | |
| ST-EXC | Sound pressure level | (3) | dB(A) | 81 | 81 | 81 | 81 | 80 | 80 | 80 | 81 | 82 | 83 | 85 | 86 | 87 | 87 |
| SC-EXC | Sound pressure level | (3) | dB(A) | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 78 | 79 | 80 | 82 | 82 | 83 | 83 |

Notes

- (1) Data calculated in compliance with Standard EN 14511:2013 referred to the following conditions: Internal exchanger water = 12/7°C; External exchanger entering air = 35°C
- (2) DSW = twin-screw compressor
- (3) Sound levels refer to full load units, in test nominal conditions. The sound pressure level refers to 1 m. from the standard unit outer surface operating in open field. Measurements are carried out according to the UNI EN ISO 9614-2 standard, in compliance with the EUROVENT 8/1 certification. Data referred to the following conditions: Internal exchanger water = 12/7°C; Entering external exchanger air temperature 35°C
- (4) Data calculated according to the EN 14825:2016 Regulation

The Product is compliant with the Erp (Energy Related Products) European Directive. It includes the Commission delegated Regulation (EU) No 2016/2281, also known as Ecodesign Lot21.

- SC-EXC Compressors insulation (SC)-Excellence
ST-EXC Standard (ST)-Excellence

accessories

- ▶ 2PM Hydropack load side with 2 pumps
- ▶ 3PM Hydropack load side with 3 pumps
- ▶ CSVX Couple of manually operated shut-off valves
- ▶ CCCA Copper / aluminium condenser coil with acrylic lining
- ▶ CCCA1 Condenser coil with Aluminium Energy Guard DCC treatment
- ▶ REGBT Device for the condensing coil partialization
- ▶ AMMX Spring antivibration mounts
- ▶ PGCC Finned coil protection grilles and compressor compartment
- ▶ PGCCCH Anti-hail protection grilles
- ▶ TPS Frame protective treatment
- ▶ CONTA2 Energy meter
- ▶ RCMRX Remote control via microprocessor control
- ▶ PSX Mains power supply
- ▶ CMSC9 Serial communication module for Modbus supervisor
- ▶ CMSC10 Serial communication module for LonWorks supervisor
- ▶ CMSC11 Serial communication module for BACnet-IP supervisor
- ▶ SCP4 Set-point compensation with 0-10 V signal
- ▶ SPC2 Set-point compensation with outdoor air temperature probe
- ▶ SPC1 Set point compensation with 4-20 mA signal
- ▶ ECS ECOSHARE function for the automatic management of a group of units
- ▶ PFCP Power factor correction capacitors (cosfi > 0.9)
- ▶ SFSTR2 Progressive compressor start-up device
- ▶ CBS Overload circuit breakers

Key to symbols and notes

- Accessories separately supplied

For compatibility between the various accessories, please refer to the dedicated Technical Bulletin or our website in the Systems and Products section.