

SPINchiller³

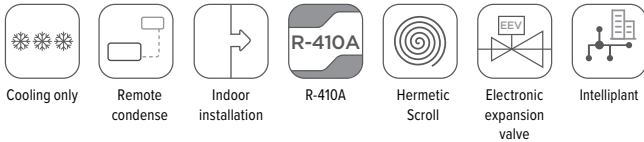
Liquid chiller
 Condenserless
 Indoor installation
Capacity from 265 to 445 kW



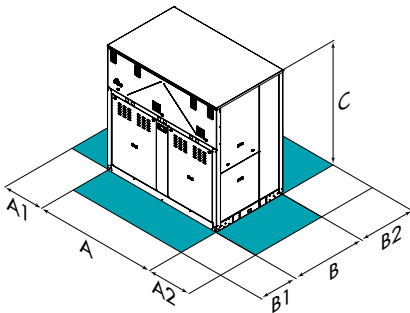
- ✓ Scroll compressors and plate heat exchanger
- ✓ Solution for cold climates in combination with remote condensers
- ✓ Double independent circuits for high reliability
- ✓ Refrigerant R410A - GWP = 2088
- ✓ All sensitive components are protected against the atmospheric agents
- ✓ The internal section includes all the main hydraulic components
- ✓ Modular operation management, up to 8 units in cascade
- ✓ Condensing temperature up to 60°C, low water temperature down to -8°C

HYDRONIC

functions and features



dimensions and clearances



| Size | ► MSE-XSC3 | 90.4 | 100.4 | 110.4 | 120.4 | 140.4 | 160.4 |
|------------------|------------|------|-------|-------|-------|-------|-------|
| A - Length | mm | 2350 | 2350 | 2350 | 2350 | 2350 | 2350 |
| B - Width | mm | 1150 | 1150 | 1150 | 1150 | 1150 | 1150 |
| C - Height | mm | 2210 | 2210 | 2210 | 2210 | 2210 | 2210 |
| A1 | mm | 700 | 700 | 700 | 700 | 700 | 700 |
| A2 | mm | 700 | 700 | 700 | 700 | 700 | 700 |
| B1 | mm | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 |
| B2 | mm | 500 | 500 | 500 | 500 | 500 | 500 |
| Operating weight | kg | 1447 | 1611 | 1668 | 1722 | 1773 | 1818 |

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.

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

ENERGY RECOVERY:

- Energy recovery: not required (Standard)
- D** Partial energy recovery

technical data

| Size | ►► MSE-XSC3 | 90.4 | 100.4 | 110.4 | 120.4 | 140.4 | 160.4 |
|------------------------|-------------|------|-------|-------|-----------|-------|-------|
| ♦ Cooling capacity | (1) kW | 265 | 289 | 313 | 349 | 406 | 445 |
| Compressor power input | (1) kW | 75,1 | 82,0 | 90,1 | 101 | 114 | 128 |
| Total power input | (1) kW | 75,6 | 82,5 | 90,6 | 102 | 115 | 128 |
| EER | (2) - | 3,53 | 3,52 | 3,47 | 3,44 | 3,55 | 3,48 |
| Refrigeration circuits | - Nr | | | | 2 | | |
| No. of compressors | - Nr | | | | 4 | | |
| Type of compressors | - | | | | SCROLL | | |
| Refrigerant | - | | | | R-410A | | |
| Standard power supply | - V | | | | 400/3~/50 | | |
| Sound power level | (3) dB(A) | 82 | 82 | 83 | 84 | 86 | 86 |

The units are shipped with a sealed charge of nitrogen.

(1) Data referred to the following conditions: Internal exchanger water temperature = 12/7°C;

Condensing temperature = 50°C

(2) EER referred only to compressors

(3) Sound pressure levels are referred to units operating at nominal load in nominal conditions. Measurements are carried out accordingly to UNI EN ISO 9614-1 at nominal standard conditions defined in respective regulations: EU 2016/2281, UE 813/2013, UE 811/2013.

accessories

| | | | |
|---------------|--|--------------|--|
| AMRX | Rubber antivibration mounts | CVSX | Couple of manually operated shut-off valves |
| RCMRX | Remote control via microprocessor control | IFWX | Steel mesh strainer on the water side |
| PSX | Mains power supply | IVFDT | Inverter driven variable flow-rate user side control depending on the temperature differential |
| CONTA2 | Energy meter | MHP | High and low pressure gauges |
| CMSC9 | Serial communication module for Modbus supervisor | SDV | Cutoff valve on compressor supply and return |
| CMSC10 | Serial communication module for LonWorks supervisor | RPR | Refrigerant drops detector |
| CMSC11 | Serial communication module for BACnet-IP supervisor | 2PM | Hydropack user side with 2 pumps |
| SCP4 | Set-point compensation with 0-10 V signal | 2PMV | Hydropack user side with no.2 of inverter pumps |
| ECS | ECOSHARE function for the automatic management of a group of units | PTCO | Set up for shipping via container |
| PFCP | Power factor correction capacitors (cosfi > 0.9) | | |
| SFSTR | Progressive compressor start-up device | | |

Accessories whose code ends with "X" are supplied separately