

C2AA10L-VDHV Compressor Duo-Pack

Cooling Capacity @3280rpm Qo: 156kW
 Evaporation Te: (-) 6 deg C
 Condensing Tc: + 45 deg C
 COP: 2,9

Oil Temperature Regulating Valve
 Water-cooled oil cooler
 Shell/tube economizer

Application: Cooling of Brewery

SRMTec Packages with semi-hermetic SRS Compressors

Optional with

- Vertical or horizontal oil separators with max. 3 ppm oil carry over
- Dual oil filters
- Oil temperature regulating system
- Economizers in shell/tube, plate or plate/shell
- Oil coolers water/cooled or thermo-siphon

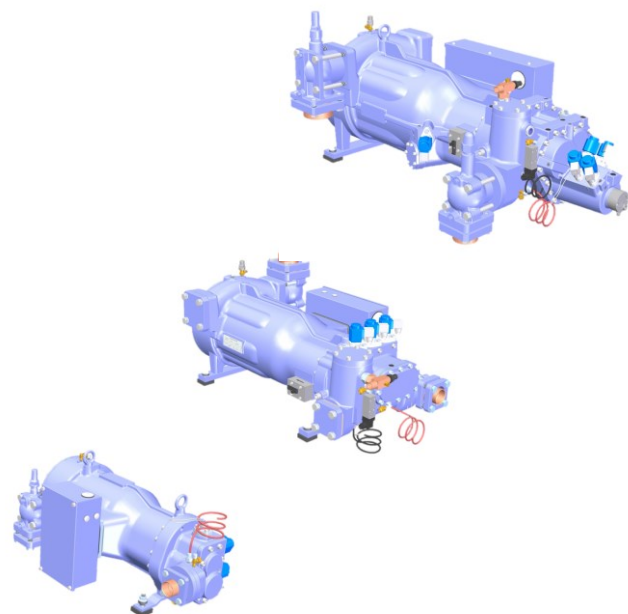
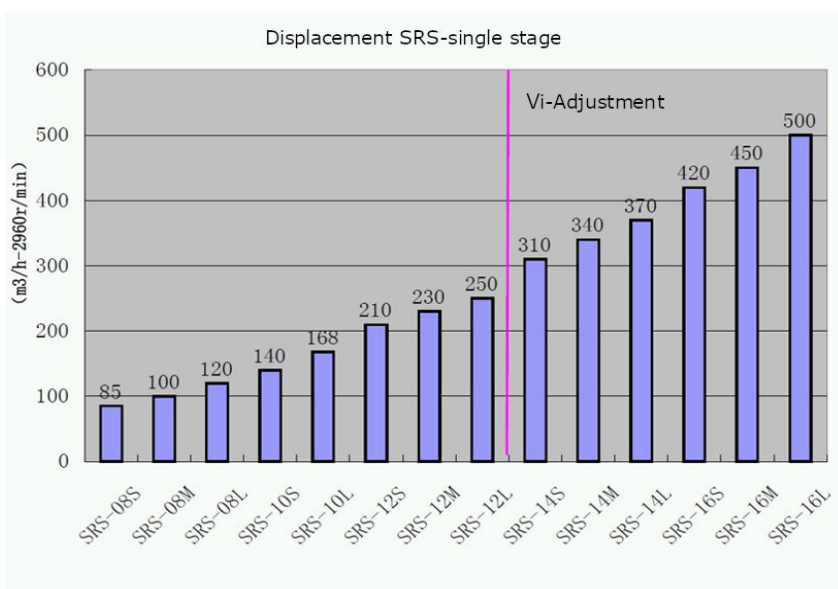
SRS Compressors

Innovative Features

- Latest rotor i-profile and 5+7 lobes for efficiency and low noise/vibrations
- Semi-hermetic Design for ease of application, no shaft-seal
- Permanent Magnet Motor Design
- Vi-regulation, manual and automatic stepless control for perfect adaption to operating temperatures, SRS14/16
- Advanced axial bearing for long life (up to 10 years dependent on speed regime)
- Featured up with on-board components like oil-flow-switch, oil filter, oil differential pressure switch, oil stop valve
- Unique flexible valve positioning system (left/right and 360 degrees) for easy OEM pack design

- ⇒ Most efficient and least service requirements
- ⇒ Lowest operating cost
- ⇒ **Best Life-Cycle Performance**

COMPLETE PRODUCT RANGE



Ice Rink Braunlage

SRM Europe Solutions for Industrial Refrigeration

Project Description

Compressor Duo-Package

SRMTec : 2 x SRS14M, single stage

Refrigerant: Ammonia R717

Technical Data, Total

Capacity L/T Q₀: 575 kW

Te: -10°

Tc: -25°

Energy consumption L/T: 137 kW

COP: 4,19

Refrigerant Charge: 2800 kg

Commissioning: Jul 2017

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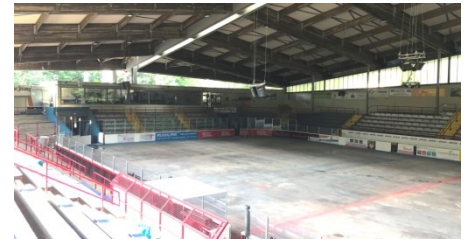
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The first semi-hermetic Ammonia compressor package in Europe was successfully commissioned in the ice-hockey stadium in Braunlage, Germany by **Beckmann Industriekühlanlagen** with technical support of **GCM**. Replacing four vintage piston compressors which were causing increasingly high maintenance and service cost by a semi-hermetic compressor package the plant room now shines again with state of the art equipment. Being PLC-controlled the inverter-driven compressors with their permanent magnet motors can utilize their superior capabilities to reduce the energy bill dramatically by floating the condensing and evaporating temperature at reduced delta-T to adjust perfectly to the demand of the application and the ambient.



Siemens S7-300 is the platform for the intelligent, dynamic control regime for highest process safety and reliability. It is programmed by the contractor with ice-rink-typical scenarios for easy and fast operation by the system owners.



SRS Compressors are the development of **Svenska Rotor Maskiner**, since 2014 the 100% subsidiary of Fujian Snowman Co., which combines as a semi-hermetic compressor the advantages of Ammonia/R717 with serviceability and leak-free technology.

Main features:

- no shaft-seal
- newest 5/7-l-profile for highest efficiency and lowest demand of oil for sealing and lubrication.
- permanent magnet motor for highest efficiency.
- Speed control of up to 5000 rpm adapts closely to the capacity profile needed.
- Vi-Regulation for optimal adjustment to temperature zones
- single- and two-stage compressors

⇒ optimized life-cycle-cost at highest efficiency



1 x SRMTec C2NA14M-VDMV semi-hermetic duo-compressor-pack with Q₀: 575 kW capacity cools the ice hockey arena directly by flooded ammonia circuits.



SRM is your partner for customer support and sales of industrial refrigeration solutions. We cooperate closely with our agents and distributors to be a reliable local partner for our customers.