

ICE RINK BRAUNLAGE

The first semi-hermetic Ammonia compressor package in Europe was successfully commissioned in the ice-hockey stadium in Braunlage, Germany.

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.



MAIN FEATURES:

- no shaft-seal
- newest 5/7-i-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

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.

SRMTec offers a range of refrigeration technology equipment focused on natural refrigerants like NH₃, CO₂ and Hydrocarbons like Propane, Isobutane etc. for all kind of applications in every aspect of modern life. The compressors are the development of Svenska Rotor Maskiner, the pioneer of screw compressor engineering since 1908.

SRMTec EU is the Organization for European and American 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.

PROJECT DESCRIPTION

Compressor duo-Pack

SRMTec : SRS14M,
single stage

Refrigerant: Ammonia R717

Technical Data, Total

Capacity Q: max. 575 kW
 Te: -10°
 Energy consumption: 137 kW
 COP_{total}: 4,19
 Refrigerant Charge: 2800 kg
 Commissioning: July 2017

Learn more at srmtecgroupp.com/products/SRS14

Contacts/Partners of SRMTec Europe www.srmtecgroupp.com

SRM Germany GmbH	ECR Nederland BV	Patronas	Kaelitekni	Kuldenor AS	Ref-X AS	Cool Tech Doo	Dicostock SL	SRM REF TECH
Hasenäcker 12 88142 Wasserburg	Westfields 1210 5688HA Oirschot	Thessaloniki's Ave 97 N. Filadelfia, Athen	Raudagerdi 25 105 Reykjavik	Fossegrenda 7B 7038 Trondheim	Filipstadeveien 15 0250 Oslo	Jugoslovenska 2-13 A 11000 Belgrade	Av. Valgrande 25 28108 Alcobendas, Madrid	Fannys Väg 3 13154 Nacka
Germany	Benelux	Greece	Iceland	Norway	Norway	Serbia	Spain	Sweden
info@srm-germany.de	info@beijerref.nl	info@patronas.co	kaelitaekni@kaelitaekni.is	tore@kuldenor.no	post@ref-x.no	office@cooltechsolutions.rs	dicostock@dicostock.com	nls.blomster@rotor.se
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