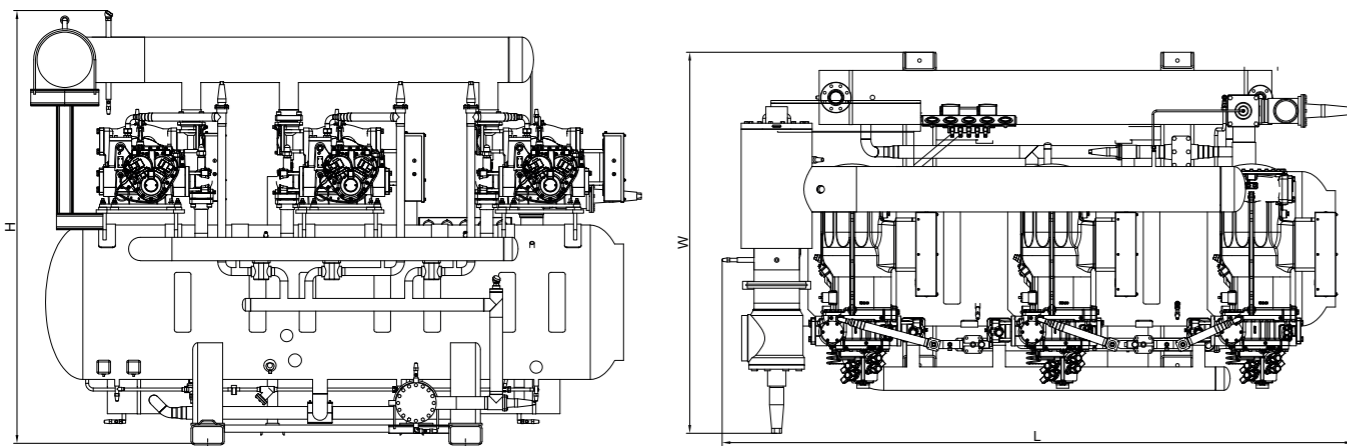


C2Nxxx - HDMV		Series				
		SRS08 S/M/L	SRS10 S/L	SRS12 S/M/L	SRS14 S/M/L	SRS16S/M/L
length	L [mm]	2300	2300	2300	2300	2300
width	W [mm]	1700	1700	1700	1700	1700
height	H [mm]	1900	2000	2000	2100	2100
transport weight	[kg]	1980	2200	2430	2600	2900
operation weight	[kg]	2250	2450	2680	2900	3200
oil volume	[l]	190	190	190	190	190

data are only for reference



C3Nxxx-HDMV		serie		
		SRS12 S/M/L	SRS 14 S/M/L	SRS16 S/M/L
length	L [mm]	2780	2780	3650
width	W [mm]	1800/2020	1800/2020	2050/2250
height	H [mm]	2100	2100	2350
transport weight	[kg]	2200 - 2500	3000 - 3600	4500 - 5400
operation weight	[kg]	2450 - 2850	3300 - 3900	5000 - 5950
oil volume	[l]	180	360	360

data are only for reference

SEMI-HERMETIC COMPACT SCREW COMPRESSOR UNIT

Compact and Leak-proof Design

Suiting Seasonal / Periodic Use

Flexible Compressor Configurations

For Ammonia Applications

Displacement 84 - 2.230 m³/h

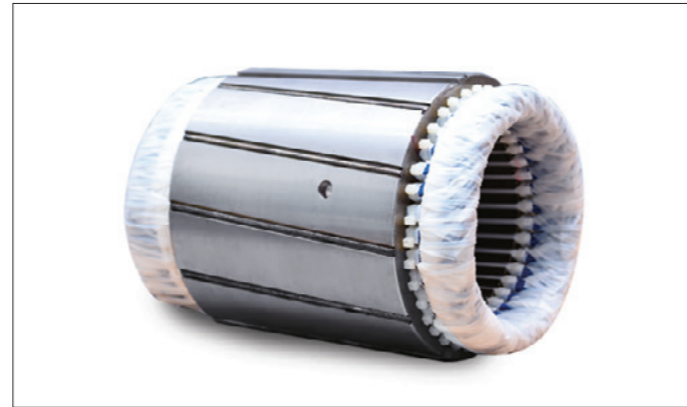


The SRS Series Semi-hermetic Compressor allows extremely compact and hermetically sealed solutions. It is targeted for installations where a leak proof system is wished or a necessity.

The C Series package is also suitable seasonally periodically used systems with a high portion of part load operations. Flexible and varied compressor

configurations with the complete range of SRS compressors (SRS 08/10/12/14/16) can be well adapted to your operating parameters.

SRS single or compound two-stage screw compressor with aluminium windings permanent magnet synchronous motor specially designed for R717 application.



Compressor body

- high-strength design with working pressure of up to 28 bar
- optimized suction gas flow through the motor to ensure motor cooling with
- significantly reduced pressure drop for low energy consumption
- integrated reliable lubrication system for simple installation
- compact design with integrated stop valve and discharge temperature sensor
- oil system with fine filter, differential pressure switch and shut-off valve

Screw technology

- high-efficiency SRM rotor, designed by the Inventor of the screw compressor
- slide Valve stepless capacity control or stepwise (25)-50-75-100%
- internal pressure relief valve
- compressor with integrated discharge check valve
- suction- and discharge stop valve
- integrated suction and oil filter
- economizer operation
- micrometer precision ensures tight sealing and smooth operation resulting in low noise and long service life
- the maximum speed of up to 4,200 rpm is significantly increasing capacity and flexibility



Motor

- specially adopted materials are used to make it applicable to ammonia
- permanent Magnet synchronous variable frequency motors with a high power
- factor increase efficiency and flexibility
- inverter speed controlled the compressor follows exactly the load profile - thus saving energy especially during part load conditions

VI (internal volume ratio)

- Vi- control guarantees best adaptation to the operating parameters for highest COP. It is available on SRS- 14 to SRS- 16 models
- manual Regulation is used to adapt infrequently to new conditions like for summer/winter mode or changing temperature levels in cold- rooms for different goods
- automatic regulation is perfectly suitable for frequently changing conditions like huge differences between day and night or climate chambers with multiple temperature simulations
- the smaller SRS-08 /10 and 12 models are available with different fixes Vi for low and medium temp applications

Horizontal oil separator (PED), oil system

- 3 stage separation
- coalescer filter, oil carry over rate 3-7 ppm
- 3 models WYF600/800/900, design pressure: 25 Bar

Oil system

- oil system with automatic oil temperature regulation valve
- shell and tube oil cooler for heat reclaim as option
- big volume oil filter 25my (redundant dual oil filter as option for uninterrupted service)
- solenoid valve and oil flow switch (each compressor)
- oil filter (inside SRS compressor), pressure sensor controlled)
- booster applications with full lube oil pump

Package

Strong and compact design

- collecting suction pipe, suction Filter flexible position
- discharge line with start-up regulation-, check- and stop vane
- low part load by multiple compressors plus wide speed range of 1500 to 4200 rpm by VSD
- compact multiple compressor units for process safety due to redundancy

Sensors and switches

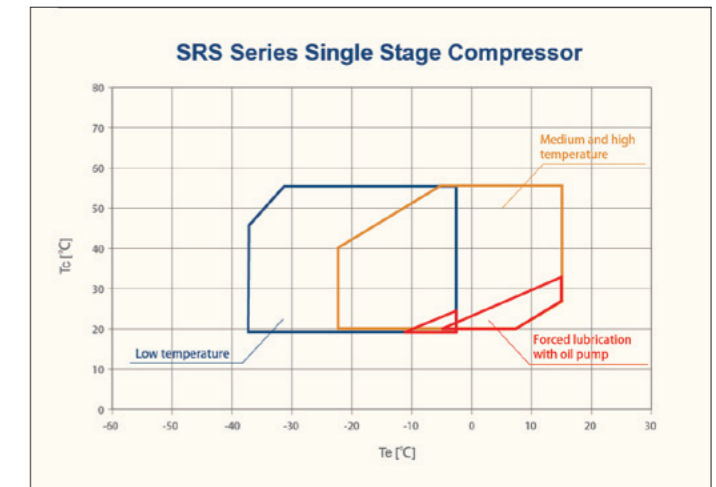
- suction pressure and temperature
- discharge pressure and temperature
- oil pressure and temperature after pre oil filter
- oil pressure after compressor integrated oil filter pressure
- oil level sensor (oil separator min)
- discharge pressure switch RT6AB/ RT6AS
- suction / discharge/ oil pressure gauge

PLC with data interface is optionally available for real-time control and analysis as well as remote monitoring.

Nomenclature

Compact Series	C	2	N	A	16LM	H	D	L	V
Number of compressors	C	2	N	A	16LM	H	D	L	V
Economizer	C	2	N	A	16LM	H	D	L	V
A with eco									
N without eco									
Refrigerant	C	2	N	A	16LM	H	D	L	V
A = Ammonia R717									
Compressor Model	C	2	N	A	16LM	H	D	L	V
SRS08S -SRS16L									
Oil Separator	C	2	N	A	16LM	H	D	L	V
H = horizontal									
V = vertical									
Oil Cooler	C	2	N	A	16LM	H	D	L	V
A = thermo-siphon									
D = water/glycol S&T									
Temperature Range	C	2	N	A	16LM	H	D	L	V
L = low temperature									
M = medium temperature									
H = high temperature									
Capacity Control Methode	C	2	N	A	16LM	H	D	L	V
V = inverter speed controled									

Application limit



Performance data

Qo [kW] Capacity @ te/tc: -10/38; 3600 rpm (without Eco)

