

EN

# SRMTEC

## PRODUCT GUIDE

*HVAC-R compressors  
for commercial and industrial applications*



## ADVANCED COMPRESSOR TECHNOLOGIES

**SRM has 80+ years' experience in compressors technology** and has always been at the forefront of innovation.

**SRM Sweden** invented the screw compressor in 1935, and then many other manufacturers have used this patent to manufacture their own compressors.

**SRM Italy** was the first in the world:

- to invent a semi-hermetic ammonia compressor.
- to have automatic regulation of the compression ratio (Vi), without the need for electronics or electromechanical device.
- to have a centrifugal oil separator, 80% more efficient than a standard oil separator by demister.

This continuous innovation allows our compressors to have superior efficiency.

**This increased efficiency is nowadays extremely important for all our customers wanting to reduce the operating costs of their applications.**



## MADE IN ITALY

New production facility in Italy



## CONTINUOUS INNOVATION

The most advanced technologies for HVAC-R compressors





## MADE IN ITALY COMPRESSORS

**SRM Italy is manufacturing both SRMTec and RefComp brand** in a new facility of 11.000 m<sup>2</sup>, located in Northern Italy, between Milan and Venice.

The main focus is put on:

- Precision: for instance, 8-micron tolerance achieved on the complex rotors profiles
- Reliability: thanks to manufacturing technology, and extensive tests

**SRM Italy R&D center** has been at the origin of the main technological breakthroughs of the recent years in semi-hermetic compressors (auto-Vi, semi-hermetic ammonia compressor, centrifugal oil separator integrated in the compressor).

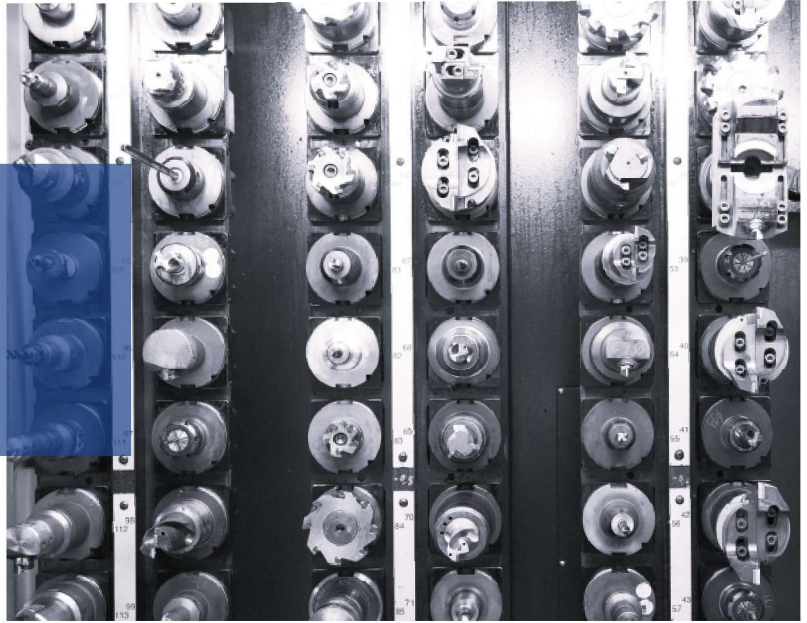
## PRODUCTION PLANT

After the acquisition of RefComp brand by our mother company "Fujian Snowman Group", SRM Italy was created in order to produce the two lines of compressors: SRMTec and RefComp.



## High capacity CNC machines

Automatized production is allowing consistent quality, steady reliability, and a high quantity of compressors produced.



## High precision screw manufacturing

The screws, or rotors, are the heart of a compressor. In order to reach a superior reliability, a top-notch precision is required. That's why they are produced in a controlled temperature workshop, with high precision machines.



## High-capacity stock

In order to deliver the goods all over the world, our customers can rely on a large storage area.



## BRANDS

Depending on the markets and on the customers, SRM Italy is able to produce the three brands of compressors of the group.

### **SRMTEC**

SRMTec blue is the line for commercial compressors.  
Suitable for all refrigerants, except ammonia.  
A complete line of semi-hermetic piston and screw compressors.

### **SRMTEC**

SRMTec Orange is the line for industrial compressors.  
Suitable for ammonia refrigerant.  
Semi-hermetic and open type screw compressors.

### **RefComp**

The historical Italian of RefComp brand is continued.  
Suitable for commercial applications, with new models available.

“Fujian Snowman Group” is the mother company of SRM Italy. Listed on the Shenzhen stock exchange, it has one of the highest growth rates in the HVAC-R compressor sector.

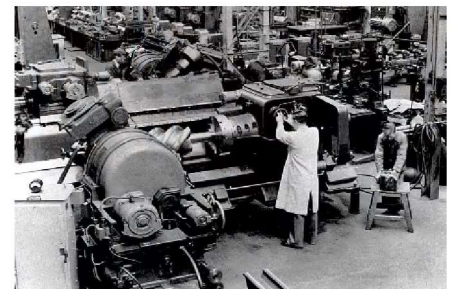
1908

**SRM (Svenska Rotor Maskineer) is founded in Stockholm (Sweden).**



1934

**Invention of screw compressor.**  
Alf Lysholm, chief engineer in SRM Sweden, patent the screw compressor technology.



1991

**RefComp is founded in Lonigo, Italy.**  
Becoming in the following years a worldwide leading company in semi-hermetic compressor.

**RefComp**

2000

**Fujian Snowman is founded in China.**  
Production of Ice machines and refrigeration systems.







**Fujian Snowman acquires SRM Sweden.**

雪人集团



**Fujian Snowman acquires RefComp.**

雪人集团



**SRMTec brand is launched**

SRMTec brand is merging the knowledge of RefComp Italy, SRM Sweden, and Fujian Snowman Group:

- SRMTec blue : commercial compressors (HFC/HFO)
- SRMTec orange: industrial compressors (ammonia)



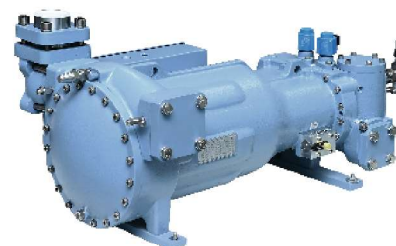
**SRM Italy is founded in Lonigo Italy**

SRM Italy is founded and starts the production of SRMTec blue compressors in a new building.



**SRM Italy produces ammonia compressors.**

SRM Italy begins production of SRMTec orange (ammonia compressors)



# Snowman Group

**Fujian Snowman Group** was born from the union of different companies that merged the knowledge and the know-how in HVAC sector. Fujian Snowman has multiple subsidiaries all around the globe.



The main associated companies are:

- **SRM** (Svenska Rotor Maskiner) located in Sweden;
- **RefComp** located in Italy;
- **SRMTec Group** located in Germany



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## 雪人股份

Fujian Snowman - China **SNOWMAN CO., LTD.**

Fujian Snowman Co., Ltd. established in March, 2000 and public-listed at Shenzhen Stock Exchange in Dec, 2011 (Stock code: 002639). Snowman, is a high-tech enterprise with compressor technology as a core, specialized in development, designing, manufacturing, sales, installation, and after-sales service of industrial & commercial refrigeration and cold storage units as well as complete packages of refrigeration systems and ice making system.



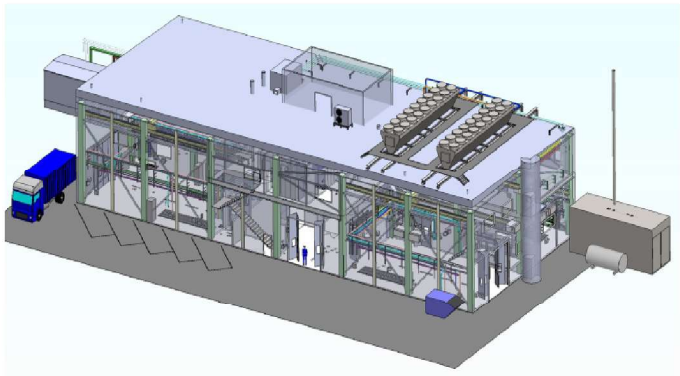


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## Svenska Rotor Maskiner (SRM) - Sweden

Svenska Rotor Maskiner (SRM) is a global high-tech company leading innovation and development of compressors and pumps for different working medias such as refrigerants, raw biogas, industrial air and hydrogen. We offer a wide range of service areas, applications and products, all with our unique rotor technology as its core.

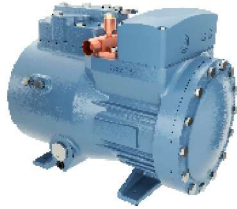


# COMPRESSOR RANGE

## 1 Reciprocating compressors



RP1/RP2



SP1 



TP1 



PP1/PP2 



DP1

| RANGE     | CONFIGURATION | REFRIGERANT     | TEMPERATURE |      | PAGE |
|-----------|---------------|-----------------|-------------|------|------|
|           |               |                 | LOW         | HIGH |      |
| RP1 / RP2 | Single-stage  | HFC/HFO         | 0           | 0    | 20   |
| SP1       | Transcritical | CO <sub>2</sub> | 0           | 0    | 26   |
| TP1       | Single-stage  | Hydrocarbons    | 0           | 0    | 30   |
| PP1 / PP2 | Double-stage  | HFC/HFO         | 0           |      | 34   |
| DP1       | Subcritical   | CO <sub>2</sub> | 0           |      | 38   |

## 2 Compact screw compressors (with oil separator)



ES3



RS3



RS5



SRS-C

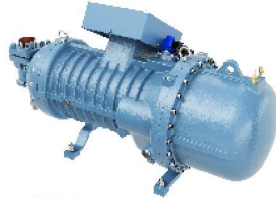
| RANGE | CONFIGURATION        | REFRIGERANT  | TEMPERATURE |      | PAGE |
|-------|----------------------|--------------|-------------|------|------|
|       |                      |              | LOW         | HIGH |      |
| ES3   | High efficiency      | HFC/HFO      |             | 0    | 42   |
| RS3   | Multipurpose         | HFC/HFO      |             | 0    | 46   |
| RS5   | Very high efficiency | HFC/HFO      |             | 0    | 50   |
| PS3   | HC optimized         | Hydrocarbons | 0           | 0    | 54   |
| PS5   | HC optimized         | Hydrocarbons | 0           | 0    | 58   |
| SRS-C | High separation      | Ammonia      | 0           | 0    | 60   |

## COMPRESSOR RANGE

### 3 Screw compressors (without oil separator)



SRS



RW3



RW5



SRS 2 STAGE

| RANGE       | CONFIGURATION   | REFRIGERANT | TEMPERATURE |      | PAGE |
|-------------|-----------------|-------------|-------------|------|------|
|             |                 |             | LOW         | HIGH |      |
| SRS         | Single-stage    | Ammonia     | 0           |      | 64   |
| RW3         | Versatile       | HFC/HFO     | 0           |      | 66   |
| RW5         | High efficiency | HFC/HFO     | 0           |      | 72   |
| SRS 2 STAGE | Double-stage    | Ammonia     | 0           |      | 76   |

### 4 Open-type compressors



SRM

SRMTEC



SRM 2 STAGE

SRMTEC



SRH

SRMTEC

| RANGE       | CONFIGURATION | REFRIGERANT | TEMPERATURE |      | PAGE |
|-------------|---------------|-------------|-------------|------|------|
|             |               |             | LOW         | HIGH |      |
| SRM         | Single-stage  | Ammonia     | 0           |      | 80   |
| SRM 2 STAGE | Double-stage  | Ammonia     | 0           |      | 82   |
| SRH         | High pressure | Ammonia     | 0           |      | 84   |

## DISPLACEMENT AND POWER



### STANDARD REFRIGERANTS

#### 1 Reciprocating compressors

Page

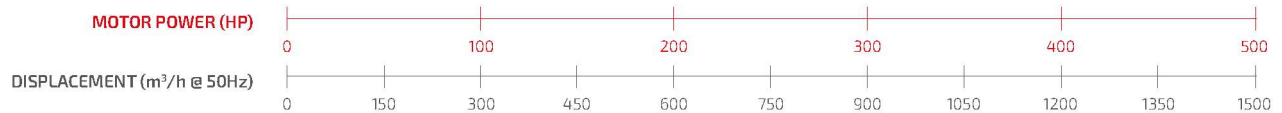
|                        |  |    |
|------------------------|--|----|
| RP1/RP2 (Single stage) |  | 20 |
| DP1 (Double stage)     |  | 38 |

#### 2 Compact screw compressors (with oil separator)

|                            |  |    |
|----------------------------|--|----|
| ES3 (High efficiency)      |  | 42 |
| RS3 (Multipurpose)         |  | 46 |
| PS5 / (HC optimized)       |  | 58 |
| RS5 (Very high efficiency) |  | 50 |

#### 3 Screw compressors (without oil separator)

|                     |  |    |
|---------------------|--|----|
| RW3 (Refrigeration) |  | 66 |
| RW5 (Refrigeration) |  | 72 |



### GREEN REFRIGERANTS

#### 1 Reciprocating compressors

Page

|                                      |  |    |
|--------------------------------------|--|----|
| SP1 (Subcritical CO <sub>2</sub> )   |  | 26 |
| TP1 (Transcritical CO <sub>2</sub> ) |  | 30 |
| PP1/PP2 (Propane)                    |  | 34 |

#### 2 Compact screw compressors (with oil separator)

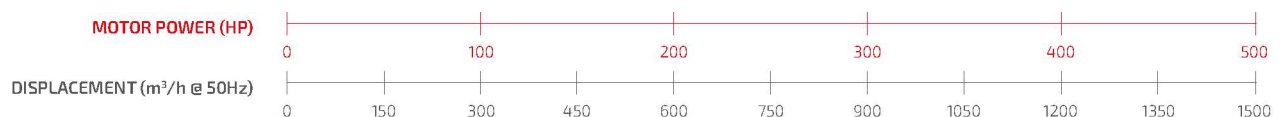
|                 |  |    |
|-----------------|--|----|
| PS3 (Propane)   |  | 54 |
| SRS-C (Ammonia) |  | 60 |

#### 3 Semi-hermetic screw compressors (without oil separator)

|   |  |    |
|---|--|----|
| SRS (Ammonia)                           |  | 64 |
| SRS DOUBLE STAGE (Ammonia double stage) |  | 76 |

#### 4 Open-type screw compressors

|                    |  |    |
|--------------------|--|----|
| SRM (Ammonia)      |  | 80 |
| SRM (Double stage) |  | 82 |
| SRH (Ammonia)      |  | 84 |





## MODEL DESIGNATION

|  | RP2 | H | 4 | 08 | -S | L | O |
|--|-----|---|---|----|----|---|---|
| <ul style="list-style-type: none"> <li>• <b>RP2</b><br/>Compressor type</li> </ul>   |     |   |   |    |    |   |   |
| <ul style="list-style-type: none"> <li>• <b>H</b><br/>Motor Size<br/>L = Small size motor / H = Full size motor</li> </ul>   |     |   |   |    |    |   |   |
| <ul style="list-style-type: none"> <li>• <b>4</b><br/>No. of cylinders</li> </ul>  |     |   |   |    |    |   |   |
| <ul style="list-style-type: none"> <li>• <b>08</b><br/>Nominal power [Hp]</li> </ul>   |     |   |   |    |    |   |   |
| <ul style="list-style-type: none"> <li>• <b>F/S</b><br/>Specification of lubrication type (where required)<br/>F: Forced lubrication (with oil gear pump)<br/>S: Splasher lubrication (without oil gear pump)</li> </ul>   |     |   |   |    |    |   |   |
| <ul style="list-style-type: none"> <li>• <b>L</b><br/>Accessories voltage<br/>L = Electrical accessories 220V AC 50/60Hz<br/>M = Electrical accessories 110V AC 50/60Hz<br/>Y = Electrical accessories 24V AC 50/60Hz<br/>U = Electrical accessories UL approved 220V AC 50/60Hz (only for S series)<br/>V = Electrical accessories UL approved 110V AC 50/60Hz (only for S series)</li> </ul> |     |   |   |    |    |   |   |
| <ul style="list-style-type: none"> <li>• <b>0</b><br/>Partial load control (0/1/2)<br/>0 = without steps capacity control;<br/>1 = 1 steps capacity control (100-50% step) made with 1 solenoid valve (where available)<br/>2 = 2 steps capacity control (100-66-33% step) made with 2 solenoid valve (where available)</li> </ul>   |     |   |   |    |    |   |   |

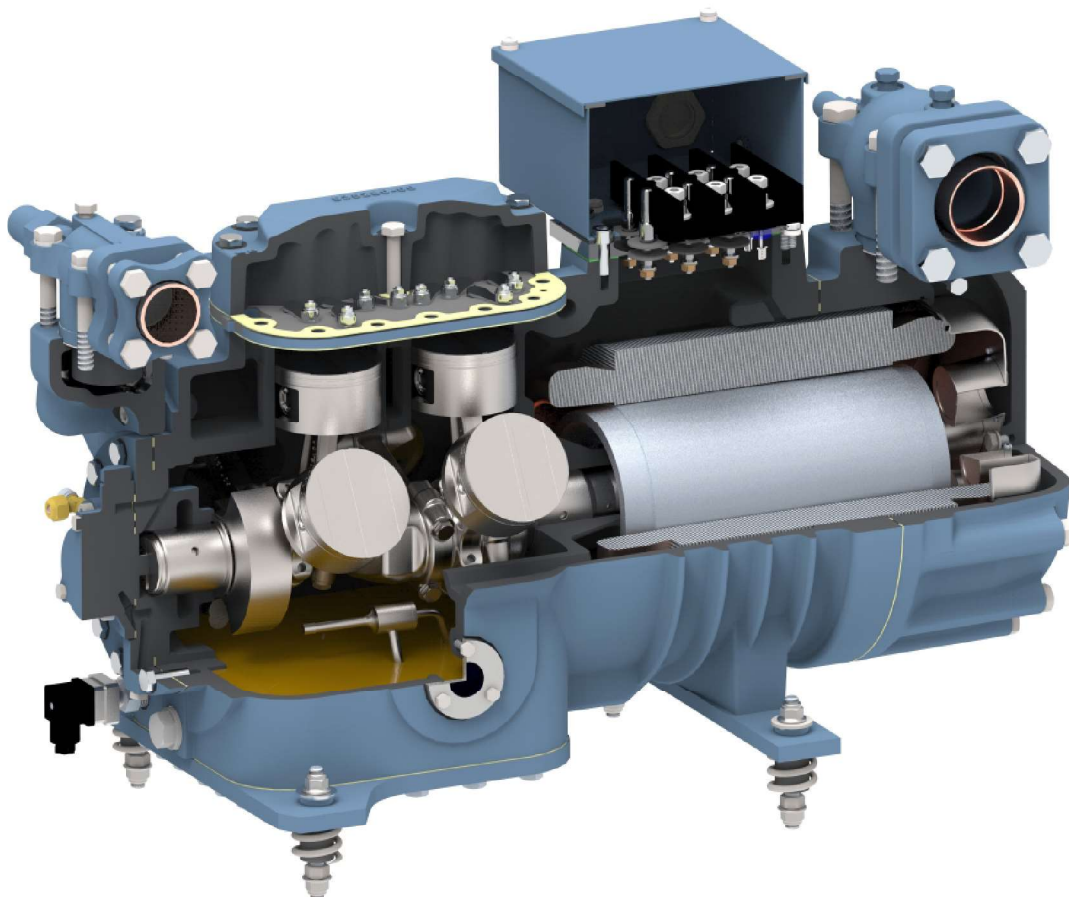
|  | ES3 | H | 140 | -L | 4 | H |
|--|-----|---|-----|----|---|---|
| <ul style="list-style-type: none"> <li>• <b>ES3</b><br/>Compressor type</li> </ul>   |     |   |     |    |   |   |
| <ul style="list-style-type: none"> <li>• <b>H</b><br/>Motor Size<br/>L = Small size motor / H = Full size motor</li> </ul>   |     |   |     |    |   |   |
| <ul style="list-style-type: none"> <li>• <b>140</b><br/>Nominal power [Hp]</li> </ul>  |     |   |     |    |   |   |
| <ul style="list-style-type: none"> <li>• <b>L</b><br/>Accessories voltage<br/>L = Electrical accessories 220V AC 50/60Hz<br/>M = Electrical accessories 110V AC 50/60Hz<br/>Y = Electrical accessories 24V AC 50/60Hz<br/>U = Electrical accessories UL approved 220V AC 50/60Hz (only for S series)<br/>V = Electrical accessories UL approved 110V AC 50/60Hz (only for S series)</li> </ul> |     |   |     |    |   |   |
| <ul style="list-style-type: none"> <li>• <b>4</b><br/>Partial load control (0/4/Z)<br/>0 = without steps capacity control<br/>4 = 4 steps capacity control (100-75-50% - minimum step) made with 3 solenoid valves (only for S series)<br/>Z = Infinite capacity control (from minimum capacity to 100% or from 50 to 100%) (only for S series)</li> </ul>                                     |     |   |     |    |   |   |
| <ul style="list-style-type: none"> <li>• <b>H</b><br/>High compression ratio version (if required)</li> </ul>  |     |   |     |    |   |   |

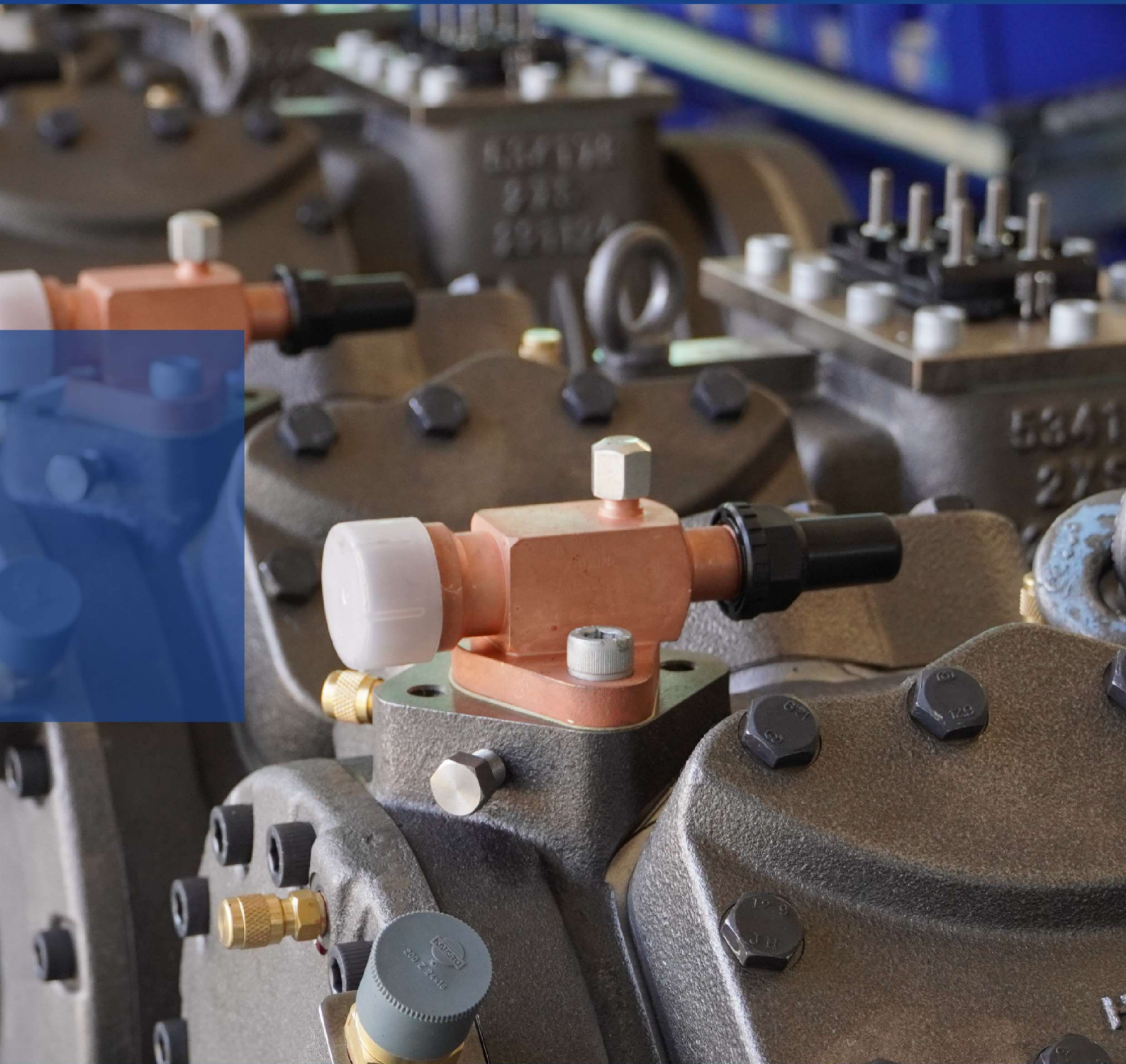
# RECIPROCATING COMPRESSORS

Semi-hermetic reciprocating compressors with 2, 4, 6 or 8 cylinders, offering high performance and efficiency within a robust and reliable package.

There are 5 ranges available for a total of 122 models offer displacements from 1,5 m<sup>3</sup>/h to 268 m<sup>3</sup>/h within a 0,5HP to 70HP range. Specific models can be set up for optimized operation with standard refrigerants, propane, and CO<sub>2</sub>.

SRMTec Italy reciprocating compressors, designed for low and medium temperature operations, offer a wide applicability within commercial and industrial refrigeration systems, as well as specific air conditioning applications.





Semi-hermetic reciprocating compressors working with HFC/HFO, propane and CO<sub>2</sub>. Developed for low, medium and high temperatures, in the field of commercial refrigeration, industrial refrigeration and for air conditioning.

# RP1 / RP2

Reciprocating compressor

For HFC/HFO refrigerants

## REFRIGERANTS

- R22
- R134a
- R407C
- R404A
- R507A
- R1233ze
- R448A
- R449A
- R1233zde

## KEY ADVANTAGES

- Low noise and vibrations: internal chambers and volumes dampening pressure pulsations
- Superior compression efficiency: "Computational Fluid Dynamics" (CFD) optimized reed valves
- Advanced oil management system
- Reliability: long life sleeve bearings
- In addition, for RP2:
  - Ultra-compact design: most compact dimensions in its power range
  - Heavy loads: 30+ bars

## STANDARD EXTENT OF DELIVERY

- Pressure relieve valve
- Sight glass
- Lubrication oil charge
- Motor PTC temperature sensor
- Suction shut-off valve
- Nitrogen protection
- Motor protector INT69B2
- IP54 electrical box
- D.O.L. starting connection
- Discharge shut-off valve

## APPLICATIONS

Low and medium evaporating temperatures

- Refrigeration
- Liquid chiller
- Heat pumps
- Process cooling
- Supermarkets cells
- Refrigerated counter



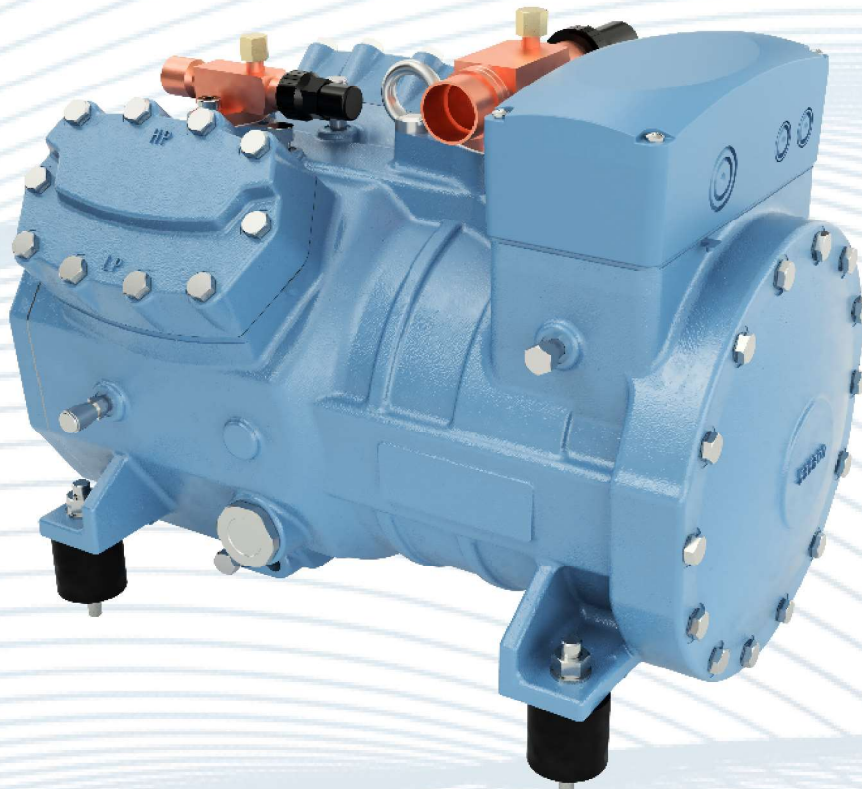
Refrigeration



Heat pumps



Air conditioning



## RP1 / RP2

Reciprocating compressor

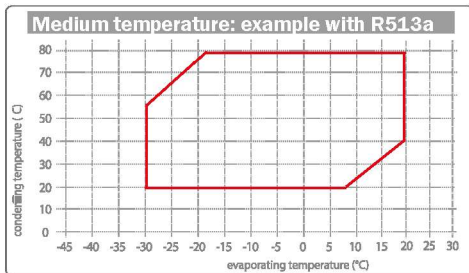
For HFC/HFO refrigerants

### OPTIONS

|         |  | H - motor                               |             |             |             |             |             |             |            |            |            |            |
|---------|--|---|-------------|-------------|-------------|-------------|-------------|-------------|------------|------------|------------|------------|
|         |  | 2 cylinders                             |             |             |             |             |             | 4 cylinders |            |            |            |            |
| Options | Model  | RP2-H2015-S                             | RP2-H2020-S | RP2-H2021-S | RP2-H2030-S | RP2-H2031-S | RP2-H2035-S | RP2-H2040-S | RP2-H405-S | RP2-H406-S | RP2-H407-S | RP2-H409-S |
|         | Displacement (m³/h @50Hz)                          | 5,4                                     | 6,7         | 8,2         | 9,8         | 11,6        | 13,6        | 16,5        | 19,3       | 23,1       | 27,3       | 33,1       |
|         | Nominal motor power (HP)                           | 1,5                                     | 2           | 2           | 3           | 3           | 3,5         | 4           | 5          | 6          | 8          | 9          |
|         | Lenght   | 37                                      | 37          | 37          | 44          | 44          | 44          | 44          | 45         | 45         | 48         | 65         |
|         | Width  | 20                                      | 20          | 20          | 25          | 25          | 25          | 25          | 29         | 29         | 29         | 34         |
|         | Height (cm)  | 28                                      | 28          | 28          | 32          | 32          | 32          | 32          | 29         | 29         | 29         | 40         |
|         | Weight (kg)  | 48,7                                    | 50,7        | 50,3        | 108,4       | 73,8        | 77,5        | 79,7        | 84         | 84,5       | 89,5       | 92         |
| 1       | Version with splasher (-S)                         | S                                       | S           | S           | S           | S           | S           | S           | S          | S          | S          | S          |
| 2       | Version with oil pump (-F)                         | -                                       | -           | -           | -           | -           | -           | -           | -          | -          | -          | -          |
| 3       | Standard motor voltage                             | 400V Y - 230 V D/3/50Hz - 440V/3/60Hz Y |             |             |             |             |             |             |            |            |            |            |
| 4       | Motor with special voltage                         | 0                                       | 0           | 0           | 0           | 0           | 0           | 0           | 0          | 0          | 0          | 0          |
| 5       | Motor with DUAL voltage                            | 0                                       | 0           | 0           | 0           | 0           | 0           | 0           | 0          | 0          | 0          | 0          |
| 6       | Start Unloading device                             | -                                       | -           | -           | -           | -           | -           | -           | 0          | 0          | 0          | 0          |
| 7       | Crankcase heater                                   | 0                                       | 0           | 0           | 0           | 0           | 0           | 0           | 0          | 0          | 0          | 0          |
| 8       | 1x Capacity control head with coil                 | -                                       | -           | -           | -           | -           | -           | -           | 0          | 0          | 0          | 0          |
| 9       | 2x Capacity control head with coil                 | -                                       | -           | -           | -           | -           | -           | -           | -          | -          | -          | -          |
| 10      | Additional fan                                     | -                                       | -           | -           | -           | -           | -           | -           | 0          | 0          | 0          | 0          |
| 11      | Liquid injection kit with LCM module               | -                                       | -           | -           | -           | -           | -           | -           | -          | -          | -          | -          |
| 12      | Electronic oil pressure safety switch              | -                                       | -           | -           | -           | -           | -           | -           | -          | -          | -          | -          |
| 13      | Opto-electronic oil level sensor                   | 0                                       | 0           | 0           | 0           | 0           | 0           | 0           | 0          | 0          | 0          | 0          |
| 14      | Discharge temperature sensor                       | 0                                       | 0           | 0           | 0           | 0           | 0           | 0           | 0          | 0          | 0          | 0          |
| 15      | Oil&Gas equalizing fittings for parallel operation | -                                       | -           | -           | -           | -           | -           | -           | -          | -          | -          | -          |
| 16      | Oil service valve                                  | -                                       | -           | -           | -           | -           | -           | -           | -          | -          | -          | -          |
| 17      | Rubber vibration dampers                           | S                                       | S           | S           | S           | S           | S           | S           | S          | S          | S          | S          |
| 18      | Spring vibration dampers                           | -                                       | -           | -           | -           | -           | -           | -           | -          | -          | -          | -          |
| 19      | Special wooden package                             | 0                                       | 0           | 0           | 0           | 0           | 0           | 0           | 0          | 0          | 0          | 0          |

S: Standard    0: Optional    (0): Optional for -F version    -: Not available

# 1. RECIPROCATING COMPRESSORS



| H - motor |  |                              |            |            |            |            |            |            |            |             |            |            |             |            |
|-----------|--|------------------------------|------------|------------|------------|------------|------------|------------|------------|-------------|------------|------------|-------------|------------|
| Options   | Model  | 4 cylinders                  |            |            |            |            |            |            |            | 6 cylinders |            |            | 8 cylinders |            |
|           |  | RP1-H410-S                   | RP1-H412-S | RP1-H415-S | RP1-H420-S | RP1-H422-F | RP1-H425-F | RP1-H430-F | RP1-H435-F | RP1-H637-F  | RP1-H640-F | RP1-H650-F | RP1-H860-F  | RP1-H870-F |
|           | Displacement (m³/h @50Hz)                          | 35                           | 42         | 49         | 56         | 64,7       | 75         | 86,1       | 102,9      | 112,5       | 129,1      | 154,4      | 186         | 222        |
|           | Nominal motor power (HP)                           | 10                           | 12         | 15         | 20         | 22         | 25         | 30         | 35         | 37          | 40         | 50         | 60          | 70         |
|           | Length   | 65                           | 65         | 68         | 68         | 72         | 72         | 72         | 72         | 81          | 81         | 79         | 91          | 91         |
|           | Width  | 34                           | 34         | 44         | 44         | 51         | 51         | 51         | 51         | 56          | 56         | 56         | 51          | 51         |
|           | Height (cm)  | 40                           | 40         | 40         | 40         | 46         | 46         | 46         | 46         | 50          | 50         | 50         | 54          | 54         |
|           | Weight (kg)  | 143                          | 146        | 152        | 155        | 193        | 206        | 209        | 238        | 241         | 246        | 250        | 345         | 350        |
| 1         | Version with splasher (-S)                         | S                            | S          | S          | S          | -          | -          | -          | -          | -           | -          | -          | -           | -          |
| 2         | Version with oil pump (-F)                         | (0)                          | (0)        | (0)        | (0)        | S          | S          | S          | S          | S           | S          | S          | S           | S          |
| 3         | Standard motor voltage                             | 400V/3/50Hz - 440V/3/60Hz PW |            |            |            |            |            |            |            |             |            |            |             |            |
| 4         | Motor with special voltage                         | 0                            | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0           | 0          | 0          | 0           | 0          |
| 5         | Motor with DUAL voltage                            | 0                            | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0           | 0          | 0          | -           | -          |
| 6         | Start Unloading device                             | 0                            | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0           | 0          | 0          | -           | -          |
| 7         | Crankcase heater                                   | 0                            | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0           | 0          | 0          | 0           | 0          |
| 8         | 1x Capacity control head with coil                 | 0                            | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0           | 0          | 0          | 0           | 0          |
| 9         | 2x Capacity control head with coil                 | -                            | -          | -          | -          | -          | -          | -          | -          | 0           | 0          | 0          | 0           | 0          |
| 10        | Additional fan                                     | 0                            | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0           | 0          | 0          | -           | -          |
| 11        | Liquid injection kit with LCM module               | 0                            | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0           | 0          | 0          | 0           | 0          |
| 12        | Electronic oil pressure safety switch              | (0)                          | (0)        | (0)        | (0)        | 0          | 0          | 0          | 0          | 0           | 0          | 0          | 0           | 0          |
| 13        | Opto-electronic oil level sensor                   | 0                            | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0           | 0          | 0          | 0           | 0          |
| 14        | Discharge temperature sensor                       | 0                            | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0           | 0          | 0          | 0           | 0          |
| 15        | Oil&Gas equalizing fittings for parallel operation | 0                            | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0           | 0          | 0          | 0           | 0          |
| 16        | Oil service valve                                  | 0                            | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0           | 0          | 0          | 0           | 0          |
| 17        | Rubber vibration dampers                           | -                            | -          | -          | -          | -          | -          | -          | -          | -           | -          | -          | S           | S          |
| 18        | Spring vibration dampers                           | S                            | S          | S          | S          | S          | S          | S          | S          | S           | S          | S          | 0           | 0          |
| 19        | Special wooden package                             | 0                            | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0           | 0          | 0          | 0           | 0          |

## RP1 / RP2

Reciprocating compressor

For HFC/HFO refrigerants

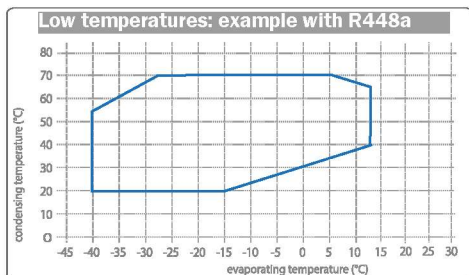
### OPTIONS

|         |  | L - motor                              |             |             |             |             |             |             |            |            |            |            |
|---------|--|--|-------------|-------------|-------------|-------------|-------------|-------------|------------|------------|------------|------------|
|         |  | 2 cylinders                            |             |             |             |             |             | 4 cylinders |            |            |            |            |
| Options | Model  | RP2-L2010-S                            | RP2-L2015-S | RP2-L2016-S | RP2-L2020-S | RP2-L2021-S | RP2-L2025-S | RP2-L2030-S | RP2-L403-S | RP2-L404-S | RP2-L405-S | RP2-L406-S |
|         | Displacement (m <sup>3</sup> /h @50Hz)             | 5,4                                    | 6,7         | 8,2         | 9,8         | 11,6        | 13,6        | 16,5        | 19,3       | 23,1       | 27,3       | 33,1       |
|         | Nominal motor power (HP)                           | 1                                      | 1,5         | 1,5         | 2           | 2           | 2,5         | 3           | 3          | 4          | 5          | 6          |
|         | Lenght   | 37                                     | 37          | 37          | 37          | 44          | 44          | 44          | 45         | 45         | 45         | 48         |
|         | Width  | 20                                     | 20          | 20          | 20          | 25          | 25          | 25          | 29         | 29         | 29         | 29         |
|         | Height (cm)  | 28                                     | 28          | 28          | 28          | 32          | 32          | 32          | 29         | 29         | 29         | 29         |
|         | Weight (kg)  | 46,8                                   | 48,5        | 48,5        | 50,3        | 73,8        | 73,8        | 77,5        | 82,5       | 83         | 83,5       | 89         |
| 1       | Version with splasher (-S)                         | S                                      | S           | S           | S           | S           | S           | S           | S          | S          | S          | S          |
| 2       | Version with oil pump (-F)                         | -                                      | -           | -           | -           | -           | -           | -           | -          | -          | -          | -          |
| 3       | Standard motor voltage                             | 400V Y - 230V D/3/50Hz - 440V/3/60Hz Y |             |             |             |             |             |             |            |            |            |            |
| 4       | Motor with special voltage                         | 0                                      | 0           | 0           | 0           | 0           | 0           | 0           | 0          | 0          | 0          | 0          |
| 5       | Motor with DUAL voltage                            | 0                                      | 0           | 0           | 0           | 0           | 0           | 0           | 0          | 0          | 0          | 0          |
| 6       | Start Unloading device                             | -                                      | -           | -           | -           | -           | -           | -           | 0          | 0          | 0          | 0          |
| 7       | Crankcase heater                                   | 0                                      | 0           | 0           | 0           | 0           | 0           | 0           | 0          | 0          | 0          | 0          |
| 8       | 1x Capacity control head with coil                 | -                                      | -           | -           | -           | -           | -           | -           | 0          | 0          | 0          | 0          |
| 9       | 2x Capacity control head with coil                 | -                                      | -           | -           | -           | -           | -           | -           | -          | -          | -          | -          |
| 10      | Additional fan                                     | -                                      | -           | -           | -           | -           | -           | -           | 0          | 0          | 0          | 0          |
| 11      | Liquid injection kit with LCM module               | -                                      | -           | -           | -           | -           | -           | -           | -          | -          | -          | -          |
| 12      | Electronic oil pressure safety switch              | -                                      | -           | -           | -           | -           | -           | -           | -          | -          | -          | -          |
| 13      | Opto-electronic oil level sensor                   | 0                                      | 0           | 0           | 0           | 0           | 0           | 0           | 0          | 0          | 0          | 0          |
| 14      | Discharge temperature sensor                       | 0                                      | 0           | 0           | 0           | 0           | 0           | 0           | 0          | 0          | 0          | 0          |
| 15      | Oil&Gas equalizing fittings for parallel operation | -                                      | -           | -           | -           | -           | -           | -           | -          | -          | -          | -          |
| 16      | Oil service valve                                  | -                                      | -           | -           | -           | -           | -           | -           | -          | -          | -          | -          |
| 17      | Rubber vibration dampers                           | S                                      | S           | S           | S           | S           | S           | S           | S          | S          | S          | S          |
| 18      | Spring vibration dampers                           | -                                      | -           | -           | -           | -           | -           | -           | 0          | 0          | 0          | 0          |
| 19      | Special wooden package                             | 0                                      | 0           | 0           | 0           | 0           | 0           | 0           | 0          | 0          | 0          | 0          |

S: Standard    0: Optional    (0): Optional for -F version    -: Not available



# 1. RECIPROCATING COMPRESSORS



| L - motor |  |                              |            |            |            |            |            |            |            |             |            |            |             |            |
|-----------|--|------------------------------|------------|------------|------------|------------|------------|------------|------------|-------------|------------|------------|-------------|------------|
| Options   | Model  | 4 cylinders                  |            |            |            |            |            |            |            | 6 cylinders |            |            | 8 cylinders |            |
|           |  | RPI-L406-S                   | RPI-L408-S | RPI-L410-S | RPI-L412-S | RPI-L415-F | RPI-L418-F | RPI-L422-F | RPI-L425-F | RPI-L627-F  | RPI-L630-F | RPI-L640-F | RPI-L850-F  | RPI-L860-F |
|           | Displacement (m <sup>3</sup> /h @50Hz)             | 35                           | 42         | 49         | 56         | 64,7       | 75         | 86,1       | 102,9      | 112,5       | 129,1      | 154,4      | 186         | 222        |
|           | Nominal motor power (HP)                           | 6                            | 8          | 10         | 12         | 15         | 18         | 22         | 25         | 27          | 30         | 40         | 50          | 60         |
|           | Length   | 65                           | 65         | 65         | 65         | 72         | 72         | 72         | 72         | 81          | 81         | 79         | 91          | 91         |
|           | Width  | 34                           | 34         | 34         | 34         | 51         | 51         | 51         | 51         | 56          | 56         | 56         | 51          | 51         |
|           | Height h (cm)                                      | 40                           | 40         | 40         | 40         | 46         | 46         | 46         | 46         | 50          | 50         | 50         | 54          | 54         |
|           | Weight (kg)  | 134                          | 139        | 144        | 146        | 182        | 186        | 195        | 220        | 230         | 236        | 247        | 340         | 345        |
| 1         | Version with splasher (-S)                         | S                            | S          | S          | S          | -          | -          | -          | -          | -           | -          | -          | -           | -          |
| 2         | Version with oil pump (-F)                         | (O)                          | (O)        | (O)        | (O)        | S          | S          | S          | S          | S           | S          | S          | S           | S          |
| 3         | Standard motor voltage                             | 400V/3/50Hz - 440V/3/60Hz PW |            |            |            |            |            |            |            |             |            |            |             |            |
| 4         | Motor with special voltage                         | 0                            | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0           | 0          | 0          | 0           | 0          |
| 5         | Motor with DUAL voltage                            | 0                            | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0           | 0          | 0          | 0           | 0          |
| 6         | Start Unloading device                             | 0                            | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0           | 0          | 0          | 0           | 0          |
| 7         | Crankcase heater                                   | 0                            | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0           | 0          | 0          | 0           | 0          |
| 8         | 1x Capacity control head with coil                 | 0                            | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0           | 0          | 0          | 0           | 0          |
| 9         | 2x Capacity control head with coil                 | -                            | -          | -          | -          | -          | -          | -          | -          | 0           | 0          | 0          | 0           | 0          |
| 10        | Additional fan                                     | 0                            | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0           | 0          | 0          | 0           | 0          |
| 11        | Liquid injection kit with LCM module               | 0                            | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0           | 0          | 0          | 0           | 0          |
| 12        | Electronic oil pressure safety switch              | (O)                          | (O)        | (O)        | (O)        | 0          | 0          | 0          | 0          | 0           | 0          | 0          | 0           | 0          |
| 13        | Opto-electronic oil level sensor                   | 0                            | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0           | 0          | 0          | 0           | 0          |
| 14        | Discharge temperature sensor                       | 0                            | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0           | 0          | 0          | 0           | 0          |
| 15        | Oil&Gas equalizing fittings for parallel operation | 0                            | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0           | 0          | 0          | 0           | 0          |
| 16        | Oil service valve                                  | 0                            | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0           | 0          | 0          | 0           | 0          |
| 17        | Rubber vibration dampers                           | -                            | -          | -          | -          | -          | -          | -          | -          | -           | -          | -          | S           | S          |
| 18        | Spring vibration dampers                           | S                            | S          | S          | S          | S          | S          | S          | S          | S           | S          | S          | 0           | 0          |
| 19        | Special wooden package                             | 0                            | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0           | 0          | 0          | 0           | 0          |



Reciprocating compressor  
**CO<sub>2</sub> Subcritical**

### REFRIGERANTHS

- CO<sub>2</sub>

### KEY ADVANTAGES

- Low noise and vibrations: internal chambers and volumes dampening pressure pulsations
- Innovative piston heads: reduced internal discharge-to-suction heat transfer
- "Computational Fluid Dynamics" optimized reed valves, for superior compression efficiency
- Compact design
- Suitable for heavy loads: shaft, body and all components designed for up to 50 bars working pressure
- Advanced oil management system, high efficiency splasher with anti-foaming design
- Reliability: long life sleeve bearings

Developed for low GWP CO<sub>2</sub> and for operation in subcritical applications, with displacements from 1,5 to 48,5 m<sup>3</sup>/h and motor powers spanning 0,5-30HP. Typically used for cascade and 2-stage compound systems.

Available in 2 or 4 cylinder configurations for low and medium temperature applications.

### STANDARD EXTENT OF DELIVERY

- Pressure relieve valve
- Sight glass
- Lubrication oil charge
- Motor PTC temperature sensor
- Suction & discharge shut-off valves
- Motor protector INT69B2
- IP54 electrical box
- Nitrogen protection
- D.O.L. starting connections

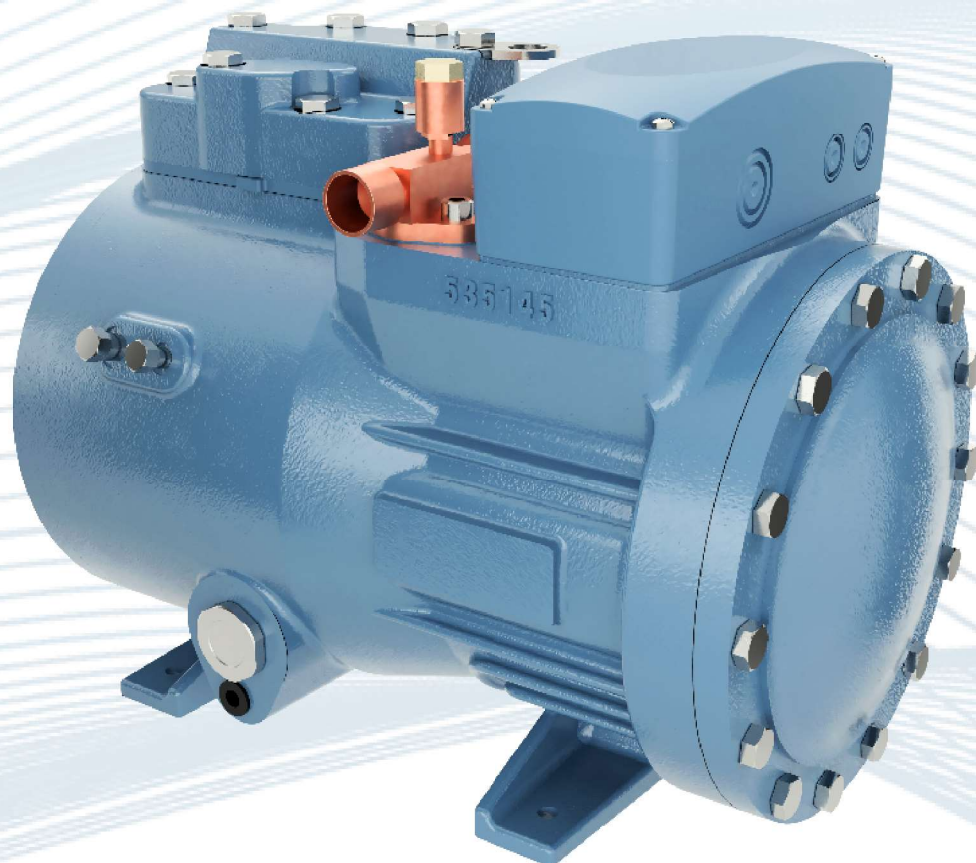
## APPLICATIONS

Refrigeration and low evaporating temperatures

- Refrigeration
- Cascade and booster systems



Refrigeration





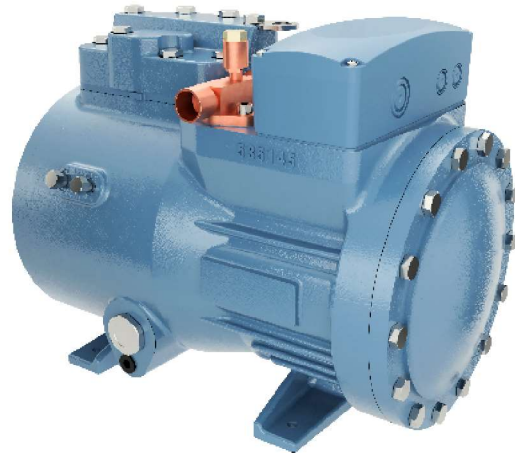
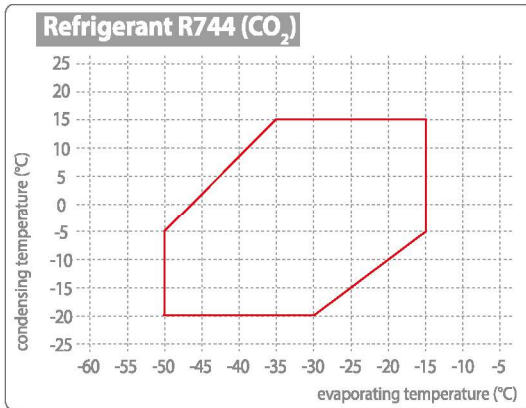
Reciprocating compressor  
CO<sub>2</sub> Subcritical

## OPTIONS

|         |  | H - motor                              |             |             |             |             |             |             |             |             |             |             |
|---------|--|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|         |  | 2 cylinders                            |             |             |             |             |             |             |             |             |             |             |
| Options | Model                                  | SP1-H2005-S                            | SP1-H2007-S | SP1-H2008-S | SP1-H2010-S | SP1-H2020-S | SP1-H2030-S | SP1-H2031-S | SP1-H2040-S | SP1-H2041-S | SP1-H2050-S | SP1-H2060-S |
|         | Displacement (m <sup>3</sup> /h @50Hz) | 1,5                                    | 1,8         | 2,3         | 2,8         | 3,6         | 4,5         | 5,5         | 6,7         | 7,8         | 9,2         | 11,2        |
|         | Nominal motor power (HP)               | 0,5                                    | 0,7         | 0,7         | 1           | 2           | 3           | 3           | 4           | 4           | 5           | 6           |
|         | Lenght                                 | 37                                     | 37          | 37          | 37          | 37          | 37          | 39          | 39          | 44          | 44          | 46          |
|         | Width                                  | 20                                     | 20          | 20          | 20          | 20          | 20          | 20          | 20          | 26          | 26          | 26          |
|         | Height (cm)                            | 30                                     | 30          | 30          | 30          | 30          | 30          | 30          | 30          | 35          | 35          | 35          |
|         | Weight (kg)                            | 47                                     | 47          | 48          | 48          | 50          | 50          | 52          | 52          | 78          | 80          | 84          |
| 1       | Version with splasher (-S)             | S                                      | S           | S           | S           | S           | S           | S           | S           | S           | S           | S           |
| 2       | Standard motor voltage                 | 400V Y - 230V D/3/50Hz - 440V/3/60HZ Y |             |             |             |             |             |             |             |             |             |             |
| 3       | Motor with special voltage             | 0                                      | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           |
| 4       | Crankcase heater                       | 0                                      | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           |
| 5       | PAG oil charge                         | 0                                      | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           |
| 6       | Additional fan                         | 0                                      | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           |
| 7       | Opto-electronic oil sensor             | 0                                      | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           |
| 8       | Discharge temperature sensor           | 0                                      | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           |
| 9       | Rubber vibration dampers               | S                                      | S           | S           | S           | S           | S           | S           | S           | S           | S           | S           |
| 10      | Special wooden package                 | 0                                      | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           |

S: Standard    0: Optional    (0): Optional for -F version    - : Not available

# 1. RECIPROCATING COMPRESSORS



| H - motor |  |                              |             |             |             |             |             |             |             |
|-----------|--|------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|           |  | 4 cylinders                  |             |             |             |             |             |             |             |
| Options   | Model                                  | SP1-H4070-S                  | SP1-H4090-S | SP1-H4100-S | SP1-H4120-S | SP1-H4150-S | SP1-H4200-S | SP1-H4250-S | SP1-H4300-S |
|           | Displacement (m <sup>3</sup> /h @50Hz) | 13                           | 15,6        | 18,4        | 22,3        | 28,7        | 34,7        | 41,3        | 48,5        |
|           | Nominal motor power (HP)               | 7                            | 9           | 10          | 12          | 15          | 20          | 25          | 30          |
|           | Length                                 | 51                           | 51          | 53          | 53          | 22          | 22          | 77          | 77          |
|           | Width                                  | 32                           | 32          | 31          | 31          | 34          | 34          | 34          | 34          |
|           | Height (cm)                            | 40                           | 40          | 40          | 40          | 41          | 41          | 41          | 41          |
|           | Weight (kg)                            | 97                           | 98          | 103         | 103         | 158         | 162         | 172         | 175         |
| 1         | Version with splasher (-5)             | S                            | S           | S           | S           | S           | S           | S           | S           |
| 2         | Standard motor voltage                 | 400V/3/50Hz - 440V/3/60Hz PW |             |             |             |             |             |             |             |
| 3         | Motor with special voltage             | 0                            | 0           | 0           | 0           | 0           | 0           | 0           | 0           |
| 4         | Crankcase heater                       | 0                            | 0           | 0           | 0           | 0           | 0           | 0           | 0           |
| 5         | PAG oil charge                         | 0                            | 0           | 0           | 0           | 0           | 0           | 0           | 0           |
| 6         | Additional fan                         | 0                            | 0           | 0           | 0           | 0           | 0           | 0           | 0           |
| 7         | Opto-electronic oil sensor             | 0                            | 0           | 0           | 0           | 0           | 0           | 0           | 0           |
| 8         | Discharge temperature sensor           | 0                            | 0           | 0           | 0           | 0           | 0           | 0           | 0           |
| 9         | Rubber vibration dampers               | S                            | S           | S           | S           | S           | S           | S           | S           |
| 10        | Special wooden package                 | 0                            | 0           | 0           | 0           | 0           | 0           | 0           | 0           |



Reciprocating compressor  
**CO<sub>2</sub> Transcritical**

## REFRIGERANTS

- CO<sub>2</sub>

## KEY ADVANTAGES

- Low noise and vibrations: internal chambers and volumes dampening pressure pulsations
- Innovative piston heads for reduced internal discharge-to-suction heat transfer
- CFD optimized reed valves for superior compression efficiency
- Compact design
- Suitable for heavy loads: shaft, body and all components designed for up to 140 bars working pressure
- Advanced oil management system, high efficiency splasher with anti-foaming design
- Reliability: long life sleeve bearings

## STANDARD EXTENT OF DELIVERY

- Pressure relieve valve
- Sight glass
- Lubrication oil
- Motor PTC temperature sensor
- Suction & discharge shut-off valves
- Motor protector INT69B2
- IP54 electrical box
- Nitrogen protection
- Rubber vibration dampers
- D.O.L. starting connections

## APPLICATIONS

Low refrigeration temperatures with natural refrigerant and sub or trans-critical cycles

- Heat pumps
- Commercial refrigeration and supermarkets
- AC



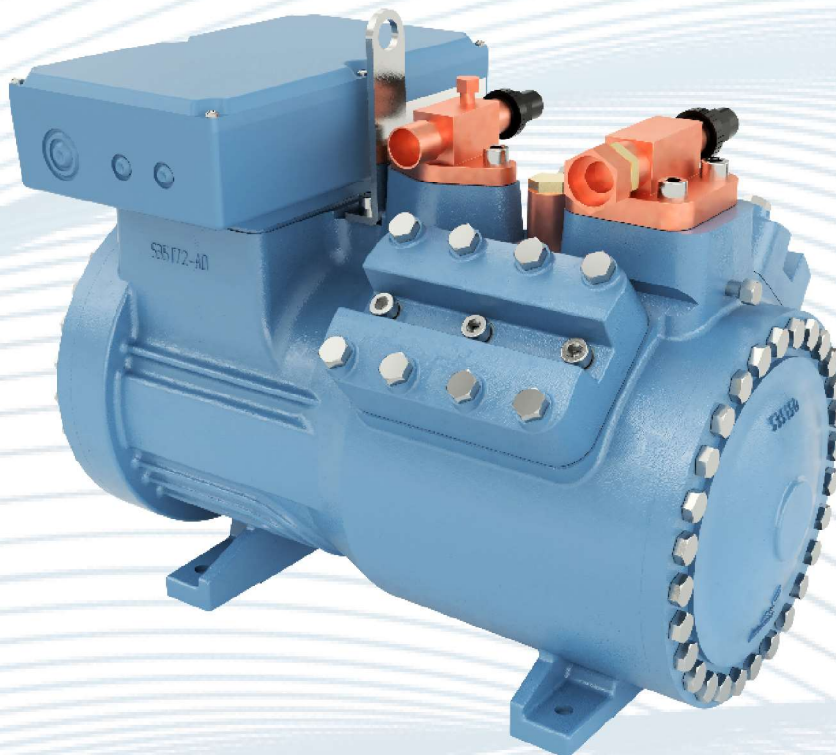
Refrigeration



Heat pumps



Air conditioning





Reciprocating compressor  
CO<sub>2</sub> Transcritical

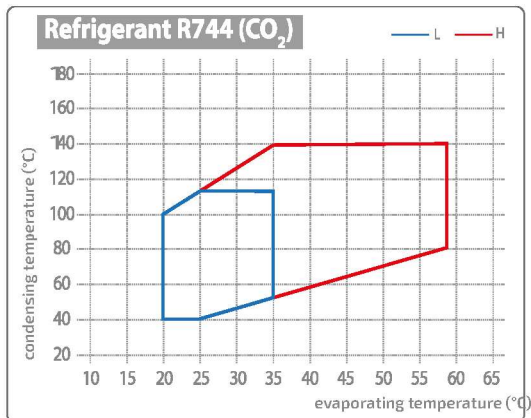
## OPTIONS

|         |  | H - motor                              |             |             |             |             |                              |             |             |             |             |
|---------|--|--|-------------|-------------|-------------|-------------|------------------------------|-------------|-------------|-------------|-------------|
|         |  | 4 cylinders                            |             |             |             |             |                              |             |             |             |             |
| Options | Model                                  | TP1-H4070-S                            | TP1-H4071-S | TP1-H4090-S | TP1-H4091-S | TP1-H4150-S | TP1-H4200-S                  | TP1-H4250-S | TP1-H4300-S | TP1-H4370-S | TP1-H4400-S |
|         | Displacement (m <sup>3</sup> /h @50Hz) | 4,4                                    | 5,4         | 6,6         | 8           | 9,2         | 11,9                         | 14,4        | 17,8        | 21,9        | 25,5        |
|         | Nominal motor power (HP)               | 7                                      | 7           | 9           | 9           | 15          | 20                           | 25          | 30          | 37          | 40          |
|         | Lenght                                 | 51                                     | 51          | 51          | 54          | 67          | 67                           | 67          | 72          | 72          | 72          |
|         | Width                                  | 31                                     | 31          | 31          | 31          | 35          | 35                           | 35          | 35          | 35          | 35          |
|         | Height (cm)                            | 40                                     | 40          | 40          | 40          | 41          | 41                           | 41          | 41          | 41          | 41          |
|         | Weight (kg)                            | 102                                    | 102         | 109         | 114         | 158         | 165                          | 170         | 182         | 188         | 195         |
| 1       | Version with splasher (-S)             | S                                      | S           | S           | S           | S           | S                            | S           | S           | S           | S           |
| 2       | Standard motor voltage                 | 400 VY - 230V D/3/50Hz - 440V/3/60Hz Y |             |             |             |             | 400V/3/50Hz - 440V/3/60Hz PW |             |             |             |             |
| 3       | Motor with special voltage             | 0                                      | 0           | 0           | 0           | 0           | 0                            | 0           | 0           | 0           | 0           |
| 4       | Crankcase heater                       | 0                                      | 0           | 0           | 0           | 0           | 0                            | 0           | 0           | 0           | 0           |
| 5       | PAG oil charge                         | 0                                      | 0           | 0           | 0           | 0           | 0                            | 0           | 0           | 0           | 0           |
| 6       | Additional fan                         | 0                                      | 0           | 0           | 0           | 0           | 0                            | 0           | 0           | 0           | 0           |
| 7       | Opto-electronic oil sensor             | 0                                      | 0           | 0           | 0           | 0           | 0                            | 0           | 0           | 0           | 0           |
| 8       | Discharge temperature sensor           | 0                                      | 0           | 0           | 0           | 0           | 0                            | 0           | 0           | 0           | 0           |
| 9       | Suction & discharge shut-off valve     | S                                      | S           | S           | S           | S           | S                            | S           | S           | S           | S           |
| 10      | Rubber vibration dampers               | S                                      | S           | S           | S           | S           | S                            | S           | S           | S           | S           |
| 11      | Special wooden package                 | 0                                      | 0           | 0           | 0           | 0           | 0                            | 0           | 0           | 0           | 0           |

S: Standard    O: Optional    (O): Optional for -F version    -: Not available



# 1. RECIPROCATING COMPRESSORS



|         |  | L - motor                              |             |             |             |             |             |                              |             |             |             |             |
|---------|--|--|-------------|-------------|-------------|-------------|-------------|------------------------------|-------------|-------------|-------------|-------------|
|         |  | 4 cylinders                            |             |             |             |             |             |                              |             |             |             |             |
| Options | Model                                  | TP1-L4060-S                            | TP1-L4061-S | TP1-L4070-S | TP1-L4071-S | TP1-L4090-S | TP1-L4100-S | TP1-L4150-S                  | TP1-L4200-S | TP1-L4201-S | TP1-L4250-S | TP1-L4300-S |
|         | Displacement (m <sup>3</sup> /h @50Hz) | 4,4                                    | 5,4         | 6,6         | 8           | 9,6         | 9,2         | 11,9                         | 14,4        | 17,8        | 21,9        | 25,5        |
|         | Nominal motor power (HP)               | 6                                      | 6           | 7           | 7           | 9           | 10          | 15                           | 20          | 20          | 25          | 30          |
|         | Length                                 | 51                                     | 51          | 51          | 51          | 51          | 67          | 67                           | 67          | 67          | 72          | 72          |
|         | Width                                  | 31                                     | 31          | 31          | 31          | 31          | 35          | 35                           | 35          | 35          | 35          | 35          |
|         | Height (cm)                            | 40                                     | 40          | 40          | 40          | 40          | 41          | 41                           | 41          | 41          | 41          | 41          |
|         | Weight (kg)                            | 98                                     | 100         | 103         | 110         | 112         | 154         | 158                          | 165         | 170         | 182         | 188         |
| 1       | Version with splasher (-S)             | S                                      | S           | S           | S           | S           | S           | S                            | S           | S           | S           | S           |
| 2       | Standard motor voltage                 | 400 VY - 230V D/3/50Hz - 440V/3/60Hz Y |             |             |             |             |             | 400V/3/50Hz - 440V/3/60Hz PW |             |             |             |             |
| 3       | Motor with special voltage             | 0                                      | 0           | 0           | 0           | 0           | 0           | 0                            | 0           | 0           | 0           | 0           |
| 4       | Crankcase heater                       | 0                                      | 0           | 0           | 0           | 0           | 0           | 0                            | 0           | 0           | 0           | 0           |
| 5       | PAG oil charge                         | 0                                      | 0           | 0           | 0           | 0           | 0           | 0                            | 0           | 0           | 0           | 0           |
| 6       | Additional fan                         | 0                                      | 0           | 0           | 0           | 0           | 0           | 0                            | 0           | 0           | 0           | 0           |
| 7       | Opto-electronic oil sensor             | 0                                      | 0           | 0           | 0           | 0           | 0           | 0                            | 0           | 0           | 0           | 0           |
| 8       | Discharge temperature sensor           | 0                                      | 0           | 0           | 0           | 0           | 0           | 0                            | 0           | 0           | 0           | 0           |
| 9       | Suction & discharge shut-off valve     | S                                      | S           | S           | S           | S           | S           | S                            | S           | S           | S           | S           |
| 10      | Rubber vibration dampers               | S                                      | S           | S           | S           | S           | S           | S                            | S           | S           | S           | S           |
| 11      | Special wooden package                 | 0                                      | 0           | 0           | 0           | 0           | 0           | 0                            | 0           | 0           | 0           | 0           |

# PP1 / PP2

Reciprocating compressor

**For hydrocarbons refrigerants**

### REFRIGERANTS

- R290 (propane)
- R600A (isobutane)
- R1270 (propylene)

### KEY ADVANTAGES

- Special reed valves for hydrocarbons gasses, "Computational Fluid Dynamics" (CFD) optimized
- Low noise and vibrations: internal chambers and volumes dampening pressure pulsations
- Suitable for heavy loads: shaft, body and all components designed to work at 30+ bars
- Advanced oil management system, high efficiency "splasher" with anti-foaming effect, or pump operating even with reduced oil level
- Long life sleeve bearings
- Advanced sealing materials to avoid refrigerant leakages

### STANDARD EXTENT OF DELIVERY

- Pressure relieve valve
- Sight glass
- Lubrication oil charge
- Motor PTC temperature sensor
- Discharge shut-off valves
- Motor protector (to be mounted in separate box)
- IP54 electrical box
- Nitrogen protection
- Kit bridges for D.O.L. start

## APPLICATIONS

Low and medium evaporating temperatures

- Process cooling
- Chillers
- Heat pumps



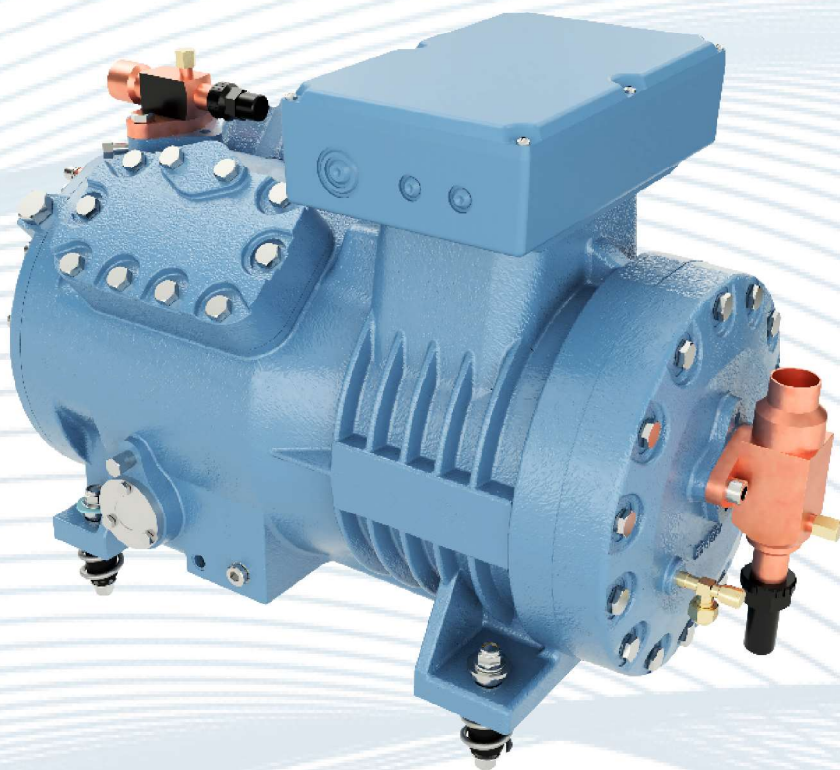
Refrigeration



Heat pumps



Air conditioning



## PP1 / PP2

Reciprocating compressor

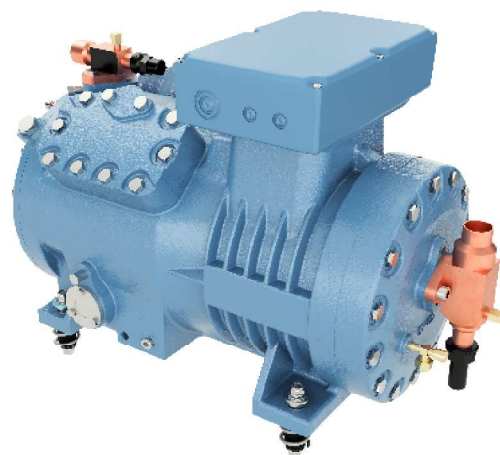
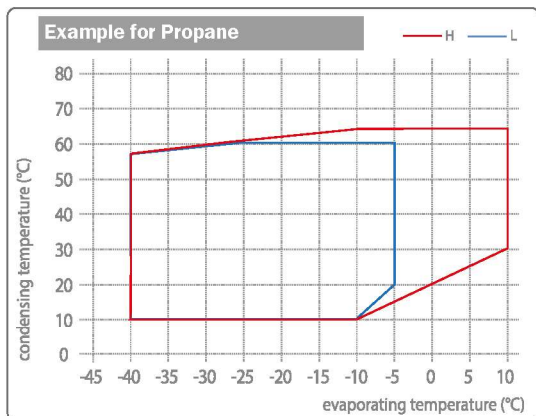
For hydrocarbons refrigerants

### OPTIONS

|         |  | H - motor                              |            |            |            |            |                              |            |            |            |            |            |            |
|---------|--|--|------------|------------|------------|------------|------------------------------|------------|------------|------------|------------|------------|------------|
|         |  | 4 cylinders                            |            |            |            |            |                              |            |            |            |            |            |            |
| Options | Model  | PP2-H405-S                             | PP2-H406-S | PP2-H407-S | PP2-H409-S | PP1-H410-S | PP1-H412-S                   | PP1-H415-S | PP1-H420-S | PP1-H422-F | PP1-H425-F | PP1-H430-F | PP1-H435-F |
|         | Displacement (m <sup>3</sup> /h @50Hz)             | 19,3                                   | 23,1       | 27,3       | 33,1       | 35         | 42                           | 49         | 56         | 64,7       | 75         | 86,1       | 102,9      |
|         | Nominal motor power (HP)                           | 5                                      | 6          | 8          | 9          | 10         | 12                           | 15         | 20         | 22         | 25         | 30         | 35         |
|         | Lenght   | 45                                     | 45         | 48         | 48         | 65         | 65                           | 68         | 68         | 73         | 73         | 73         | 73         |
|         | Width  | 29                                     | 29         | 29         | 29         | 34         | 34                           | 34         | 34         | 51         | 51         | 51         | 51         |
|         | Height (cm)  | 29                                     | 29         | 29         | 29         | 40         | 40                           | 40         | 40         | 46         | 46         | 46         | 46         |
|         | Weight (kg)  | 84                                     | 84,5       | 89,5       | 92         | 143        | 146                          | 152        | 155        | 193        | 206        | 209        | 238        |
| 1       | Version with splasher (-S)                         | S                                      | S          | S          | S          | S          | S                            | S          | S          | -          | -          | -          | -          |
| 2       | Version with oil pump (-F)                         | -                                      | -          | -          | -          | (O)        | (O)                          | (O)        | (O)        | S          | S          | S          | S          |
| 3       | Standard motor voltage                             | 400V Y - 230V D/3/50Hz - 440V/3/60Hz Y |            |            |            |            | 400V/3/50Hz - 440V/3/60Hz PW |            |            |            |            |            |            |
| 4       | Motor with special voltage and with DUAL voltage   | 0                                      | 0          | 0          | 0          | 0          | 0                            | 0          | 0          | 0          | 0          | 0          | 0          |
| 5       | SU device + discharge temperature sensor           | 0                                      | 0          | 0          | 0          | 0          | 0                            | 0          | 0          | 0          | 0          | 0          | 0          |
| 6       | Crankcase heater                                   | 0                                      | 0          | 0          | 0          | 0          | 0                            | 0          | 0          | 0          | 0          | 0          | 0          |
| 7       | 1x Capacity control head with coil                 | 0                                      | 0          | 0          | 0          | 0          | 0                            | 0          | 0          | 0          | 0          | 0          | 0          |
| 8       | 2x Capacity control head with coil                 | -                                      | -          | -          | -          | -          | -                            | -          | -          | -          | -          | -          | -          |
| 9       | 1x&2x capacity control head with Atex coil         | 0                                      | 0          | 0          | 0          | 0          | 0                            | 0          | 0          | 0          | 0          | 0          | 0          |
| 10      | Additional fan                                     | 0                                      | 0          | 0          | 0          | 0          | 0                            | 0          | 0          | 0          | 0          | 0          | 0          |
| 11      | Electronic oil pressure safety switch              | -                                      | -          | -          | -          | (O)        | (O)                          | (O)        | (O)        | 0          | 0          | 0          | 0          |
| 12      | Opto-electronic oil level sensor                   | 0                                      | 0          | 0          | 0          | 0          | 0                            | 0          | 0          | 0          | 0          | 0          | 0          |
| 13      | Discharge temperature sensor                       | 0                                      | 0          | 0          | 0          | 0          | 0                            | 0          | 0          | 0          | 0          | 0          | 0          |
| 14      | Oil&Gas equalizing fittings for parallel operation | 0                                      | 0          | 0          | 0          | 0          | 0                            | 0          | 0          | 0          | 0          | 0          | 0          |
| 15      | Oil service valve                                  | 0                                      | 0          | 0          | 0          | 0          | 0                            | 0          | 0          | 0          | 0          | 0          | 0          |
| 16      | Suction shut-off valve                             | S                                      | S          | S          | S          | S          | S                            | S          | S          | S          | S          | S          | S          |
| 17      | Rubber vibration dampers                           | S                                      | S          | S          | S          | 0          | 0                            | 0          | 0          | 0          | 0          | 0          | 0          |
| 18      | Spring vibration dampers                           | -                                      | -          | -          | -          | S          | S                            | S          | S          | S          | S          | S          | S          |
| 19      | Special wooden package                             | 0                                      | 0          | 0          | 0          | 0          | 0                            | 0          | 0          | 0          | 0          | 0          | 0          |

S: Standard    O: Optional    (O): Optional for -F version    -: Not available

# 1. RECIPROCATING COMPRESSORS



| H - motor |  |                              |            |            |             |            |
|-----------|--|------------------------------|------------|------------|-------------|------------|
| Options   | Model  | 6 cylinders                  |            |            | 8 cylinders |            |
|           |  | PPT-H637-F                   | PPT-H640-F | PPT-H650-F | PPT-H860-F  | PPT-H870-F |
|           | Displacement (m <sup>3</sup> /h @50Hz)             | 112,5                        | 129,1      | 154,4      | 186         | 222        |
|           | Nominal motor power (HP)                           | 37                           | 40         | 50         | 60          | 70         |
|           | Length   | 81                           | 81         | 79         | 91          | 91         |
|           | Width  | 56                           | 56         | 56         | 51          | 51         |
|           | Height (cm)  | 50                           | 50         | 50         | 54          | 54         |
|           | Weight (kg)  | 241                          | 246        | 250        | 345         | 350        |
| 1         | Version with splasher (-S)                         | -                            | -          | -          | -           | -          |
| 2         | Version with oil pump (-F)                         | S                            | S          | S          | S           | S          |
| 3         | Standard motor voltage                             | 400V/3/50Hz - 440V/3/60Hz PW |            |            |             |            |
| 4         | Motor with special voltage and with DUAL voltage   | 0                            | 0          | 0          | 0           | 0          |
| 5         | SU device + discharge temperature sensor           | 0                            | 0          | 0          | -           | -          |
| 6         | Crankcase heater                                   | 0                            | 0          | 0          | 0           | 0          |
| 7         | 1x Capacity control head with coil                 | 0                            | 0          | 0          | 0           | 0          |
| 8         | 2x Capacity control head with coil                 | 0                            | 0          | 0          | 0           | 0          |
| 9         | 1x&2x capacity control head with Atex coil         | 0                            | 0          | 0          | 0           | 0          |
| 10        | Additional fan                                     | 0                            | 0          | 0          | -           | -          |
| 11        | Electronic oil pressure safety switch              | 0                            | 0          | 0          | 0           | 0          |
| 12        | Opto-electronic oil level sensor                   | 0                            | 0          | 0          | 0           | 0          |
| 13        | Discharge temperature sensor                       | 0                            | 0          | 0          | 0           | 0          |
| 14        | Oil&Gas equalizing fittings for parallel operation | 0                            | 0          | 0          | 0           | 0          |
| 15        | Oil service valve                                  | 0                            | 0          | 0          | 0           | 0          |
| 16        | Suction shut-off valve                             | S                            | S          | S          | S           | S          |
| 17        | Rubber vibration dampers                           | 0                            | 0          | 0          | S           | S          |
| 18        | Spring vibration dampers                           | S                            | S          | S          | 0           | 0          |
| 19        | Special wooden package                             | 0                            | 0          | 0          | 0           | 0          |

# DP1

Double-stage reciprocating compressor

**For HFC/HFO refrigerants**

## REFRIGERANTS

- R404A
- R407F
- R507A
- R448A
- R449A

## KEY ADVANTAGES

- Two consecutive compression stages, able to reach lower temperature and higher compression ratio with enhanced efficiency
- Advanced oil management system, with integrated oil pump and venturi recovery system
- High efficiency oil filter
- Suction and discharge valves made with a specific material for low temperatures

## STANDARD EXTENT OF DELIVERY

- Pressure relieve valve
- Sight glass
- Lubrication oil
- Motor PTC temperature sensor
- Suction & discharge shut-off valves
- Oil Pump
- Motor protector INT69B2
- IP54 electrical box
- Nitrogen protection
- D.O.L. starting connections
- Spring vibration dampers
- Suction shut-off valve

## APPLICATIONS

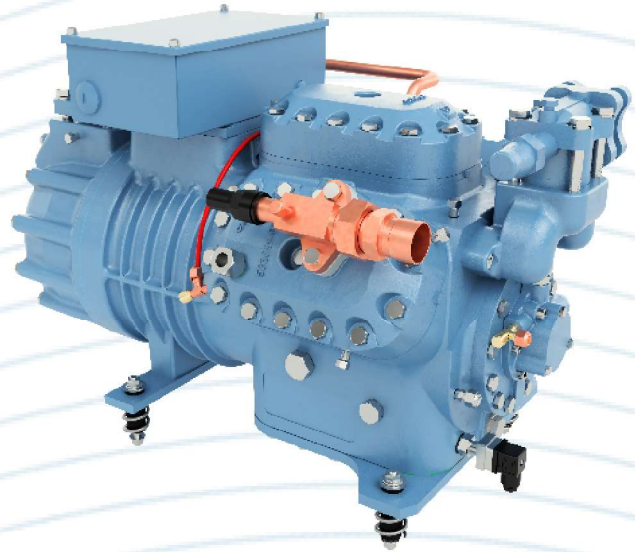
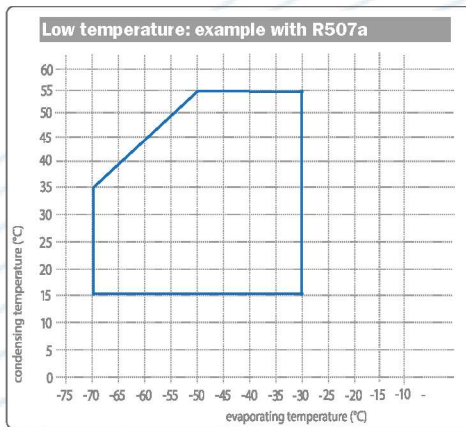
Low and very low evaporating temperatures

- Food processing
- Process cooling
- Cooling tunnels



Refrigeration

# 1. RECIPROCATING COMPRESSORS



## OPTIONS

|         |  | L - motor                    |            |                              |            |            |            |
|---------|--|------------------------------|------------|------------------------------|------------|------------|------------|
|         |  | 4 cylinders                  |            | 6 cylinders                  |            |            |            |
| Options | Model  | DP1-L412-F                   | DP1-L414-F | DP1-L616-F                   | DP1-L620-F | DP1-L625-F | DP1-L630-F |
|         | Displacement (m <sup>3</sup> /h @50Hz) 1st stage/2nd stage | 43,0/27,6                    | 51,5/27,6  | 64,7/32,4                    | 75,0/37,5  | 86,1/43    | 102,9/51,5 |
|         | Nominal motor power (HP)                                   | 12                           | 14         | 16                           | 20         | 25         | 30         |
|         | Length   | 72                           | 72         | 82                           | 82         | 82         | 182        |
|         | Width  | 49                           | 49         | 55                           | 55         | 55         | 55         |
|         | Height (cm)  | 51                           | 51         | 53                           | 53         | 53         | 53         |
|         | Weight (kg)  | 197                          | 201        | 205                          | 215        | 225        | 232        |
| 1       | Version with oil pump (-F)                                 | S                            | S          | S                            | S          | S          | S          |
| 2       | Standard motor voltage                                     | 400V/3/50Hz - 440V/3/60Hz PW |            | 400V/3/50Hz - 440V/3/60Hz PW |            |            |            |
| 3       | Motor with special voltage                                 | 0                            | 0          | 0                            | 0          | 0          | 0          |
| 4       | Crankcase heater   | 0                            | 0          | 0                            | 0          | 0          | 0          |
| 5       | Liquid injection kit with LCM module                       | 0                            | 0          | 0                            | 0          | 0          | 0          |
| 6       | Electronic oil pressure safety switch                      | 0                            | 0          | 0                            | 0          | 0          | 0          |
| 7       | Opto-electronic oil level sensor                           | 0                            | 0          | 0                            | 0          | 0          | 0          |
| 8       | Discharge temperature sensor                               | 0                            | 0          | 0                            | 0          | 0          | 0          |
| 9       | Oil service valve  | 0                            | 0          | 0                            | 0          | 0          | 0          |
| 10      | Spring vibration dampers                                   | S                            | S          | S                            | S          | S          | S          |
| 11      | Rubber vibration dampers                                   | 0                            | 0          | 0                            | 0          | 0          | 0          |
| 12      | Liquid sub-cooler, not mounted                             | 0                            | 0          | 0                            | 0          | 0          | 0          |
| 13      | Liquid sub-cooler, mounted                                 | 0                            | 0          | 0                            | 0          | 0          | 0          |
| 14      | Special wooden package                                     | 0                            | 0          | 0                            | 0          | 0          | 0          |

S: Standard    0: Optional    (0): Optional for -F version    -: Not available

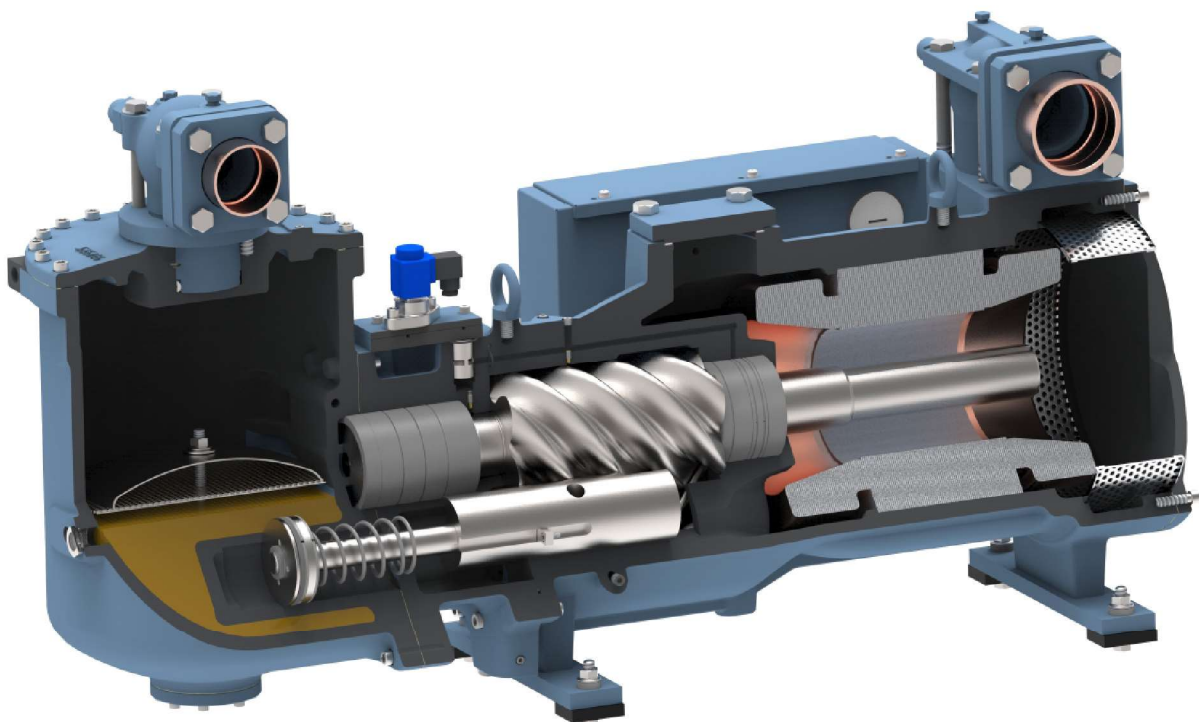
# COMPACT SCREW COMPRESSORS

Compact screw compressors for operation with standard refrigerants and propane, including versions optimised for R134a and R1234.

There are 5 specific ranges and a total of 86 models offer displacements from 118 m<sup>3</sup>/h to 1540 m<sup>3</sup>/h and motor powers in the 40HP to 420HP range.

A wide spectrum of applications and conditions is ideal for refrigerants, including chillers, heat pumps, refrigeration, and flooded systems.

SRMTec Italy offers elevated efficiency levels, with high efficiency and ultra-efficient models, as well as versions with an internal frequency inverter.







Compact screw compressors working with HFC/HFO, ammonia and propane. Developed for medium and high temperatures, in the field of air conditioning, process cooling, data center cooling and heat pumps.

# ES3

Compact screw compressor with oil separator

**R134a/R1234yf/R1234ze/R513a Optimized**

### REFRIGERANTS

- R134a
- R1234yf
- R1234ze
- R513A
- R450

### KEY ADVANTAGES

- Compact dimensions
- Standard Vi: 3,2; optional Vi: 2,2 - 2,6 - 4,4
- Easy maintenance: accessible refrigerant and oil filters, integrated oil cooling connections
- Internal Capacity control system: step or stepless
- Modern rotor profile for higher specific displacement
- Integral check valve with negligible pressure drop
- Electronic motor protection with 6 PTC sensors
- Suitable for variable speed operations with external inverter

### STANDARD EXTENT OF DELIVERY

- Built-in volumetric ratio  $V_i=3,2$
- Suction side solder connection
- Integrated discharge check valve
- Integrated safety relief valve
- Flanged-on oil separator
- Discharge shut-off valve
- Kit oil cooling connection
- Oil sight glasses
- Electrical box with IP54 enclosure class
- Nitrogen protective charge
- Electronic protection device INT69SNY
- Oil filter, oil charge/drain valve
- Oil charge POE170
- Capacity control
- Electrical motor with 6 PTC temperature sensors embedded
- Rubber vibration dampers
- Suction bushing (Suction soldering bushing only for ES3-L400/450/500)

### APPLICATIONS

Medium and high evaporating temperatures

- High condensing temperatures
- Data center cooling
- Flooded evaporator
- Chillers and AC systems
- Medium temperature heat pumps



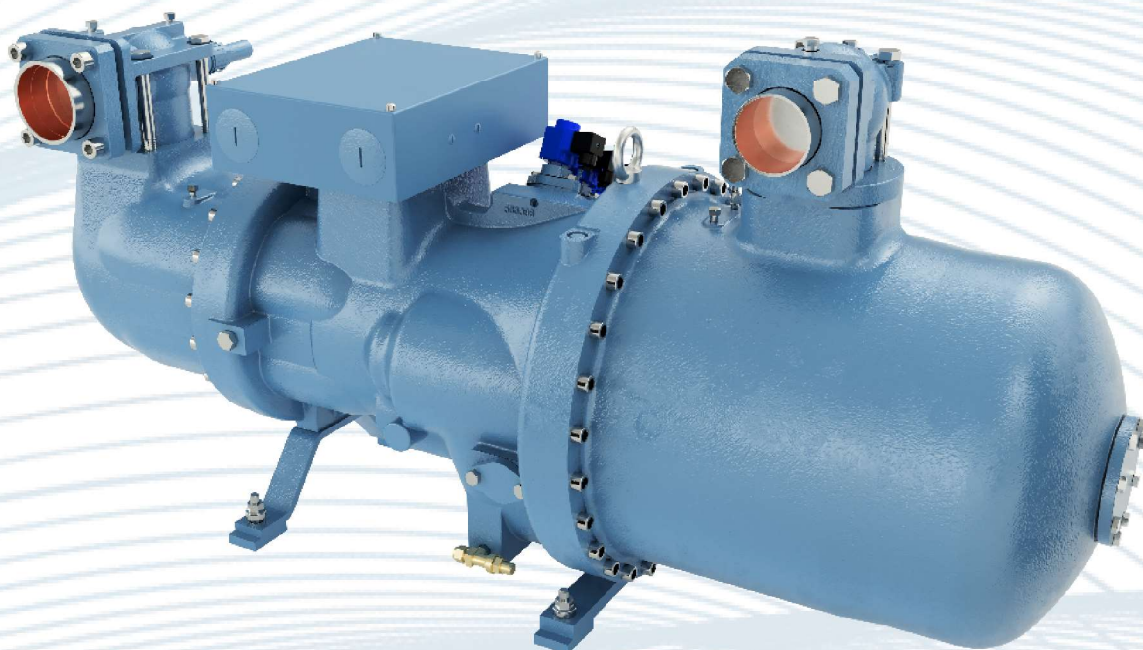
Refrigeration



Heat pumps



Air conditioning



# ES3

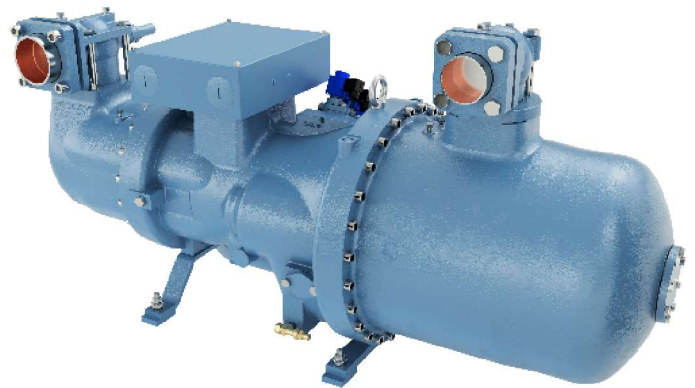
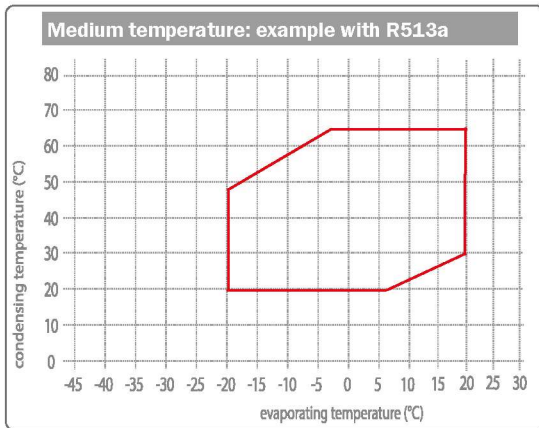
Compact screw compressor with oil separator

R134a/R1234yf/R1234ze/R513a Optimized

## OPTIONS

|         |  | L - motor                    |          |          |          |          |          |
|---------|--|------------------------------|----------|----------|----------|----------|----------|
| Options | Model  | ES3-L070                     | ES3-L080 | ES3-L090 | ES3-L100 | ES3-L110 | ES3-L120 |
|         | Displacement (m <sup>3</sup> /h @50Hz)                     | 270                          | 307      | 344      | 380      | 413      | 480      |
|         | Nominal motor power (HP)                                   | 70                           | 80       | 90       | 100      | 110      | 120      |
|         | Lenght   | 139                          | 139      | 139      | 139      | 154      | 154      |
|         | Width  | 50                           | 50       | 50       | 50       | 53       | 53       |
|         | Height (cm)  | 66                           | 66       | 66       | 66       | 77       | 77       |
|         | Weight (kg)  | 510                          | 518      | 532      | 538      | 660      | 670      |
| 1       | Standard motor voltage                                     | 400V/3/50Hz - 440V/3/60Hz PW |          |          |          |          |          |
| 2       | Motor with special voltage                                 | 0                            | 0        | 0        | 0        | 0        | 0        |
| 3       | Kit connection for liquid injection without solenoid valve | 0                            | 0        | 0        | 0        | 0        | 0        |
| 4       | Kit ECO connection with shut-off valve                     | 0                            | 0        | 0        | 0        | 0        | 0        |
| 5       | Suction shut-off valve                                     | 0                            | 0        | 0        | 0        | 0        | 0        |
| 6       | Photoelectric oil level control switch                     | 0                            | 0        | 0        | 0        | 0        | 0        |
| 7       | Kit oil flow switch  | 0                            | 0        | 0        | 0        | 0        | 0        |
| 8       | Kit bridges for D.O.L. start                               | 0                            | 0        | 0        | 0        | 0        | 0        |
| 9       | Rubber vibration dampers                                   | S                            | S        | S        | S        | S        | S        |
| 10      | Kit oil cooling connection                                 | S                            | S        | S        | S        | S        | S        |
| 11      | Extra for H-Motor  | 0                            | 0        | 0        | 0        | 0        | 0        |
| 12      | Extra for special Vi (=2,2/2,6/4,4)                        | 0                            | 0        | 0        | 0        | 0        | 0        |
| 13      | Extra for UL Certification                                 | 0                            | 0        | 0        | 0        | 0        | 0        |
| 14      | Special wooden package                                     | 0                            | 0        | 0        | 0        | 0        | 0        |

S: Standard    0: Optional    (0): Optional for -F version    - : Not available



### L - motor

| Options | Model  | ES3-L140                     | ES3-L160 | ES3-L180 | ES3-L210 | ES3-L220 | ES3-L240 | ES3-L270 | ES3-L300 |
|---------|--|------------------------------|----------|----------|----------|----------|----------|----------|----------|
|         | Displacement (m <sup>3</sup> /h @50Hz)                     | 560                          | 640      | 720      | 805      | 850      | 910      | 1000     | 1100     |
|         | Nominal motor power (HP)                                   | 140                          | 160      | 180      | 210      | 220      | 240      | 270      | 300      |
|         | Length   | 154                          | 178      | 178      | 178      | 178      | 209      | 209      | 209      |
|         | Width  | 53                           | 62       | 62       | 62       | 62       | 70       | 70       | 70       |
|         | Height (cm)  | 77                           | 82       | 82       | 82       | 82       | 88       | 88       | 88       |
|         | Weight (kg)  | 680                          | 930      | 940      | 950      | 980      | 1330     | 1350     | 1390     |
| 1       | Standard motor voltage                                     | 400V/3/50Hz - 440V/3/60Hz YD |          |          |          |          |          |          |          |
| 2       | Motor with special voltage                                 | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 3       | Kit connection for liquid injection without solenoid valve | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 4       | Kit ECO connection with shut-off valve                     | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 5       | Suction shut-off valve                                     | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 6       | Photoelectric oil level control switch                     | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 7       | Kit oil flow switch  | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 8       | Kit bridges for D.O.L. start                               | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 9       | Rubber vibration dampers                                   | S                            | S        | S        | S        | S        | S        | S        | S        |
| 10      | Kit oil cooling connection                                 | S                            | S        | S        | S        | S        | S        | S        | S        |
| 11      | Extra for H-Motor  | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 12      | Extra for special Vi (=2,2/2,6/4,4)                        | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 13      | Extra for UL Certification                                 | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 14      | Special wooden package                                     | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        |

# RS3

Compact screw compressor with oil separator

For HFC/HFO refrigerants

### REFRIGERANTS

- R22
- R407C
- R404A
- R507
- R1233ze
- R448A
- R449A
- R407F
- R134a
- R1234yf
- R1234ze
- R245fa

### KEY ADVANTAGES

- Compact dimensions
- Four Vi ratio available. Standard Vi: 2,6; optional Vi: 2,2 - 3,2
- Easy maintenance: accessible refrigerant and oil filters, integrated oil cooling connections
- Internal Capacity control system: step or stepless
- Modern rotor profile for higher specific displacement
- Suitable for heavy loads and continuous operations
- Electronic motor protection with 6 PTC sensors
- Suitable for variable speed operations with external inverter
- Long life rolling bearings with low noise operation

### STANDARD EXTENT OF DELIVERY

- Built-in volumetric ratio Vi=2,6
- Crankcase heater (230V/1/50-60 Hz)
- Integrated discharge check valve
- Integrated safety relief valve
- Flanged-on oil separator
- Oil sight glasses
- Electrical box with IP54 enclosure class
- Nitrogen protective charge
- Electronic protection device INT69B2
- Oil filter, oil charge/drain valve
- Oil charge POE170
- Capacity control
- Electrical motor with 6 PTC temperature sensors embedded
- Rubber vibration dampers
- Suction & discharge shut-off valve
- Crankcase heater

### APPLICATIONS

Medium and high evaporating temperatures

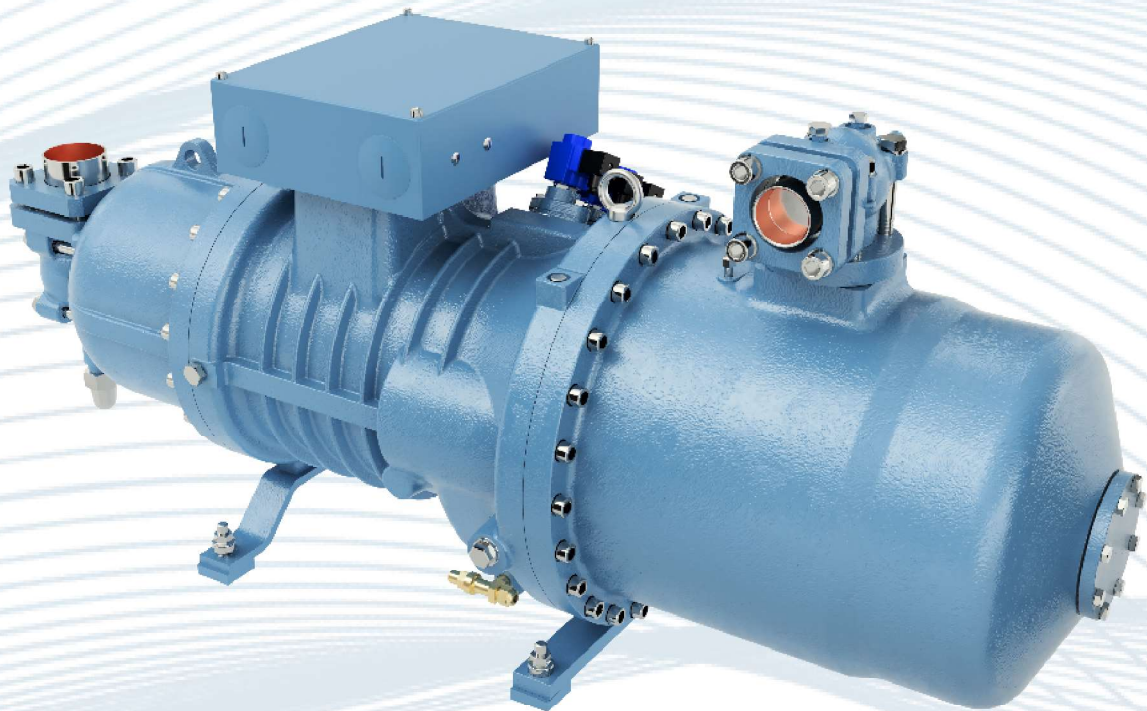
- Chillers and AC systems
- High temperature heat pump
- Flooded evaporator
- Tropicalized systems



Heat pumps



Air conditioning



# RS3

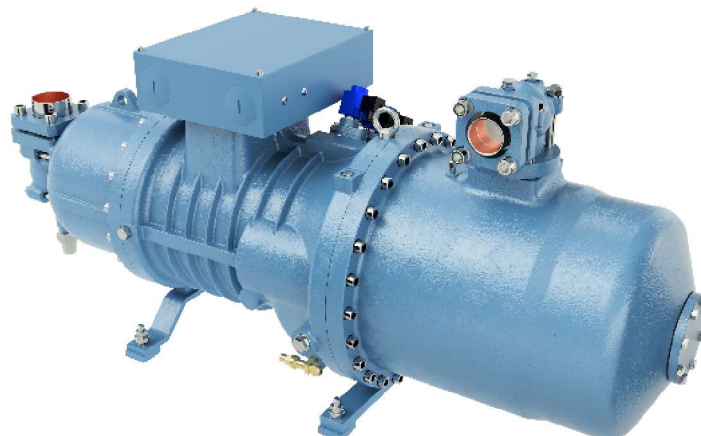
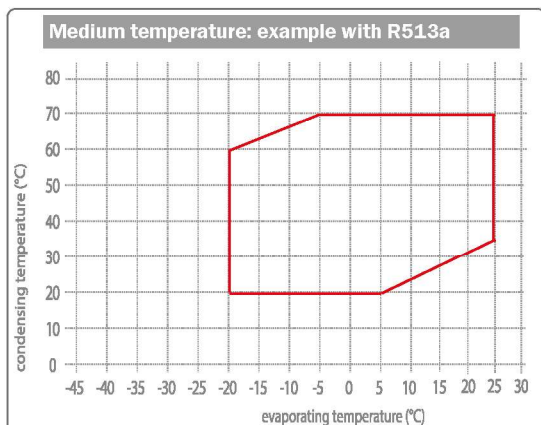
Compact screw compressor with oil separator  
For HFC/HFO refrigerants

## OPTIONS

|         |  | H - motor                    |          |          |          |          |          |          |          |
|---------|--|------------------------------|----------|----------|----------|----------|----------|----------|----------|
| Options | Model  | RS3-H040                     | RS3-H050 | RS3-H050 | RS3-H070 | RS3-H080 | RS3-H100 | RS3-H110 | RS3-H120 |
|         | Displacement (m <sup>3</sup> /h @50Hz)                     | 118                          | 150      | 175      | 205      | 237      | 286      | 318      | 341      |
|         | Nominal motor power (HP)                                   | 40                           | 50       | 60       | 70       | 80       | 100      | 110      | 120      |
|         | Lenght   | 121                          | 121      | 121      | 145      | 145      | 152      | 152      | 152      |
|         | Width  | 43                           | 43       | 43       | 44       | 44       | 48       | 48       | 48       |
|         | Height (cm)  | 50                           | 50       | 50       | 64       | 64       | 66       | 66       | 66       |
|         | Weight (kg)  | 325                          | 330      | 335      | 510      | 515      | 615      | 590      | 625      |
| 1       | Standard motor voltage                                     | 400V/3/50Hz - 440V/3/60Hz PW |          |          |          |          |          |          |          |
| 2       | Motor with DUAL voltage                                    | S                            | S        | S        | S        | -        | -        | -        | -        |
| 3       | Motor with special voltage                                 | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 4       | Kit connection for liquid injection without solenoid valve | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 5       | Kit ECO connection with shut-off valve                     | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 6       | Photoelectric oil level control switch                     | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 7       | Suction & discharge shut-off valve                         | S                            | S        | S        | S        | S        | S        | S        | S        |
| 8       | Kit oil flow switch  | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 9       | Oil pressure safety switch - mechanic                      | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 10      | Kit bridges for D.O.L. start                               | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 11      | Discharge temperature sensor                               | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 12      | Rubber vibration dampers                                   | S                            | S        | S        | S        | S        | S        | S        | S        |
| 13      | Kit oil cooling connection                                 | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 14      | Extra for UL Certification                                 | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 15      | Special wooden package                                     | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        |

S: Standard    O: Optional    (O): Optional for -F version    -: Not available





| H - motor |  |                              |          |          |          |          |          |          |          |          |          |
|-----------|--|------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Options   | Model  | RS3-H140                     | RS3-H160 | RS3-H180 | RS3-H200 | RS3-H220 | RS3-H240 | RS3-H280 | RS3-H300 | RS3-H350 | RS3-H390 |
|           | Displacement (m <sup>3</sup> /h @50Hz)                     | 402                          | 445      | 510      | 562      | 600      | 700      | 860      | 910      | 1000     | 1100     |
|           | Nominal motor power (HP)                                   | 140                          | 160      | 180      | 200      | 220      | 240      | 280      | 300      | 350      | 390      |
|           | Lenght   | 162                          | 162      | 162      | 173      | 173      | 173      | 178      | 209      | 209      | 209      |
|           | Width  | 53                           | 53       | 53       | 59       | 59       | 59       | 62       | 70       | 70       | 70       |
|           | Height (cm)  | 76                           | 76       | 76       | 81       | 81       | 81       | 82       | 88       | 88       | 88       |
|           | Weight (kg)  | 730                          | 740      | 775      | 1010     | 1030     | 1020     | 980      | 1400     | 1400     | 1400     |
| 1         | Standard motor voltage                                     | 400V/3/50Hz - 440V/3/60Hz YD |          |          |          |          |          |          |          |          |          |
| 2         | Motor with DUAL voltage                                    | -                            | -        | -        | -        | -        | -        | -        | -        | -        | -        |
| 3         | Motor with special voltage                                 | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 4         | Kit connection for liquid injection without solenoid valve | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 5         | Kit ECO connection with shut-off valve                     | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 6         | Photoelectric oil level control switch                     | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 7         | Suction & discharge shut-off valve                         | S                            | S        | S        | S        | S        | S        | S        | S        | S        | S        |
| 8         | Kit oil flow switch  | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 9         | Oil pressure safety switch - mechanic                      | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 10        | Kit bridges for D.O.L. start                               | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 11        | Discharge temperature sensor                               | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 12        | Rubber vibration dampers                                   | S                            | S        | S        | S        | S        | S        | S        | S        | S        | S        |
| 13        | Kit oil cooling connection                                 | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 14        | Extra for UL Certification                                 | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 15        | Special wooden package                                     | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |

# RS5

High efficiency compact screw compressor with centrifugal oil separator

**For HFC/HFO refrigerants**

### REFRIGERANTS

- R22
- R407C
- R404A
- R507
- R1233ze
- R448A
- R449A
- R407F
- R134a
- R1234yf
- R1234ze
- R245fa

### KEY ADVANTAGES

- The most innovative compressor of the Air Conditioning range
- Compact dimensions
- Patented automatic compression ratio (Auto-Vi) system to always reach the best compression efficiency even in continuous varying working conditions
- Easy maintenance: accessible refrigerant and oil filters, integrated oil cooling connections, oil flow switch, and oil level sensor
- Internal Capacity control system: step and stepless
- Modern rotor profile for higher specific displacement
- Suitable for heavy loads and continuous operations
- Electronic motor protection with 6 PTC sensors
- Suitable for variable speed operations with external inverter
- Long life rolling bearings with low noise operation

### STANDARD EXTENT OF DELIVERY

- Built-in variable  $V_i=2,6\div 3,5$
- Integrated discharge check valve
- Integrated safety relief valve
- Flanged-on centrifugal oil separator
- Electronic protection device INT69SNY
- Oil sight glasses
- Electrical box with IP54 enclosure class
- Nitrogen protective charge
- Rubber vibration dampers
- Oil filter, oil charge/drain valve
- Oil charge POE170
- Discharge shut-off valve
- Electrical motor with 6 PTC temperature sensors embedded
- Kit oil cooling connection
- Kit conversion from step to stepless capacity control
- Kit conversion from stepless to step capacity control

### APPLICATIONS

Medium and high evaporating temperatures

- Air Conditioning
- Data center
- Heat pump
- Flooded evaporator
- High efficiency systems



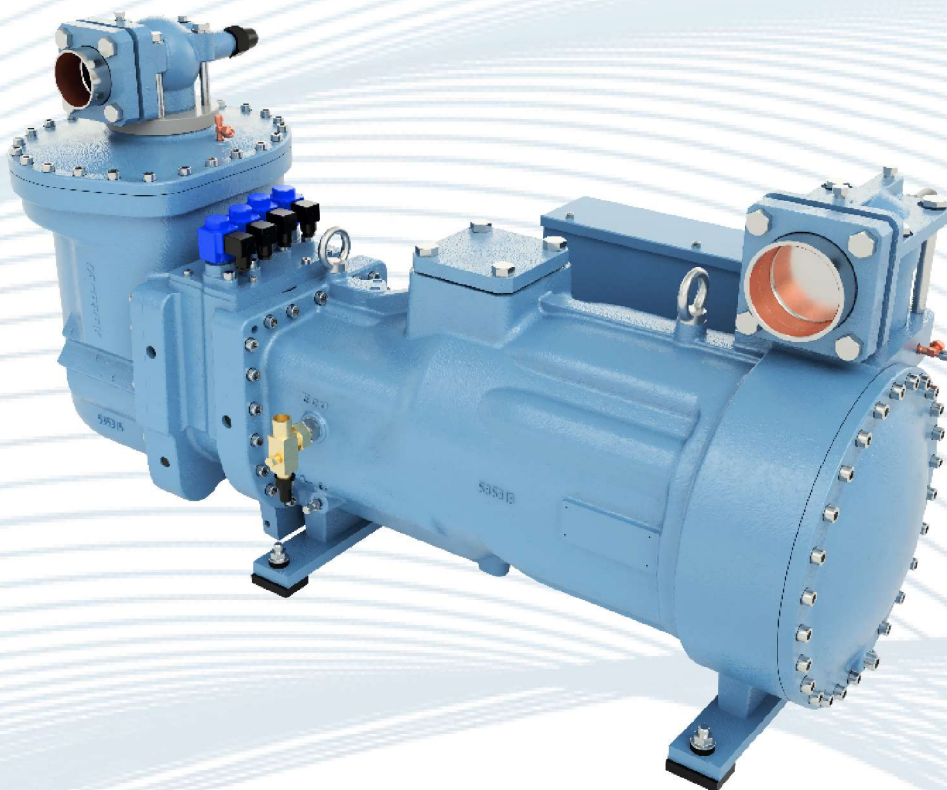
Heat pumps



Air conditioning



Ammonia



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# RS5

High efficiency compact screw compressor with centrifugal oil separator

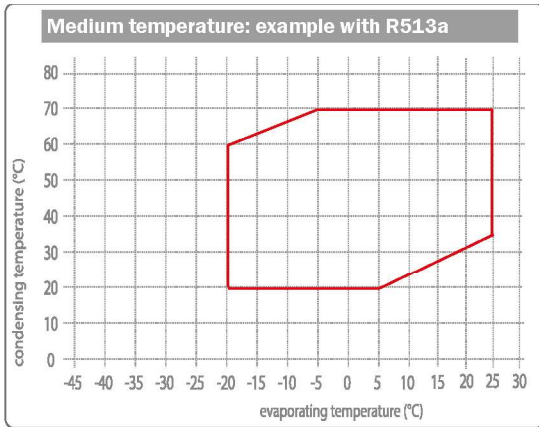
For HFC/HFO refrigerants

## OPTIONS

| Options | Model  | H - motor                    |          |          |          |          |          |          |          |          |          |
|---------|--|------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|         |  | RS5-H125                     | RS5-H140 | RS5-H160 | RS5-H180 | RS5-H210 | RS5-H240 | RS5-H270 | RS5-H300 | RS5-H350 | RS5-H400 |
|         | Displacement (m <sup>3</sup> /h @50Hz)                     | 365                          | 415      | 480      | 550      | 620      | 710      | 830      | 930      | 1020     | 1150     |
|         | Nominal motor power (HP)                                   | 125                          | 140      | 160      | 180      | 210      | 240      | 270      | 300      | 350      | 400      |
|         | Housing size   | 4                            | 4        | 5        | 5        | 6        | 6        | 7        | 7        | 8        | 8        |
|         | Lenght   | 141                          | 141      | 146      | 146      | 164      | 164      | 200      | 200      | 203      | 203      |
|         | Width  | 55                           | 55       | 61       | 61       | 66       | 66       | 75       | 75       | 76       | 76       |
|         | Height (cm)  | 74                           | 74       | 67       | 67       | 88       | 88       | 101      | 101      | 106      | 106      |
| 1       | Standard motor voltage                                     | 400V/3/50Hz - 440V/3/60Hz YD |          |          |          |          |          |          |          |          |          |
| 2       | Motor with special voltage                                 | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 3       | Kit connection for liquid injection without solenoid valve | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 4       | Kit ECO connection with shut-off valve                     | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 5       | Photoelectric oil level control switch                     | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 6       | Discharge shut-off valve                                   | S                            | S        | S        | S        | S        | S        | S        | S        | S        | S        |
| 7       | Suction shut-off valve                                     | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 8       | Kit oil flow switch  | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 9       | Kit bridges for D.O.L. start                               | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 10      | Rubber vibration dampers                                   | S                            | S        | S        | S        | S        | S        | S        | S        | S        | S        |
| 11      | Kit oil cooling connection                                 | S                            | S        | S        | S        | S        | S        | S        | S        | S        | S        |
| 12      | Special wooden package                                     | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |

S: Standard 0: Optional (O): Optional for -F version - : Not available

Additional models are being added to the range to cover displacements of 365-1150 m<sup>3</sup>/h (@50Hz) and motor powers of 100-400HP



| L - motor |  |                                    |          |          |                              |          |          |          |          |          |          |
|-----------|--|------------------------------------|----------|----------|------------------------------|----------|----------|----------|----------|----------|----------|
| Options   | Model  | R55-L100                           | R55-L110 | R55-L125 | R55-L140                     | R55-L160 | R55-L180 | R55-L210 | R55-L240 | R55-L270 | R55-L300 |
|           | Displacement (m <sup>3</sup> /h @50Hz)                     | 365                                | 415      | 480      | 550                          | 620      | 710      | 830      | 980      | 1020     | 1150     |
|           | Nominal motor power (HP)                                   | 100                                | 110      | 120      | 140                          | 160      | 180      | 210      | 240      | 270      | 300      |
|           | Housing size   | 4                                  | 4        | 5        | 5                            | 6        | 6        | 7        | 7        | 8        | 8        |
|           | Length   | 141                                | 141      | 146      | 146                          | 164      | 164      | 200      | 200      | 203      | 203      |
|           | Width  | 55                                 | 55       | 61       | 61                           | 66       | 66       | 75       | 75       | 76       | 76       |
|           | Height (cm)  | 74                                 | 74       | 67       | 67                           | 88       | 88       | 101      | 101      | 106      | 106      |
| 1         | Standard motor voltage                                     | 400V/3/50Hz<br>- 440V/3/60Hz<br>PW |          |          | 400V/3/50Hz - 440V/3/60Hz YD |          |          |          |          |          |          |
| 2         | Motor with special voltage                                 | 0                                  | 0        | 0        | 0                            | 0        | 0        | 0        | 0        | 0        | 0        |
| 3         | Kit connection for liquid injection without solenoid valve | 0                                  | 0        | 0        | 0                            | 0        | 0        | 0        | 0        | 0        | 0        |
| 4         | Kit ECO connection with shut-off valve                     | 0                                  | 0        | 0        | 0                            | 0        | 0        | 0        | 0        | 0        | 0        |
| 5         | Photoelectric oil level control switch                     | 0                                  | 0        | 0        | 0                            | 0        | 0        | 0        | 0        | 0        | 0        |
| 6         | Discharge shut-off valve                                   | S                                  | S        | S        | S                            | S        | S        | S        | S        | S        | S        |
| 7         | Suction shut-off valve                                     | 0                                  | 0        | 0        | 0                            | 0        | 0        | 0        | 0        | 0        | 0        |
| 8         | Kit oil flow switch  | 0                                  | 0        | 0        | 0                            | 0        | 0        | 0        | 0        | 0        | 0        |
| 9         | Kit bridges for D.O.L. start                               | 0                                  | 0        | 0        | 0                            | 0        | 0        | 0        | 0        | 0        | 0        |
| 10        | Rubber vibration dampers                                   | S                                  | S        | S        | S                            | S        | S        | S        | S        | S        | S        |
| 11        | Kit oil cooling connection                                 | S                                  | S        | S        | S                            | S        | S        | S        | S        | S        | S        |
| 12        | Special wooden package                                     | 0                                  | 0        | 0        | 0                            | 0        | 0        | 0        | 0        | 0        | 0        |



Compact screw compressor with oil separator

For hydrocarbons refrigerants

### REFRIGERANTS

- Propane (R290)
- R600A
- R1270

### KEY ADVANTAGES

- Compact dimensions
- Four Vi ratio available
- Easy maintenance: accessible refrigerant and oil filters, integrated oil cooling connections
- Modern rotor profile for higher specific displacement
- Suitable for heavy loads and continuous operations
- Electronic motor protection with 6 PTC sensors
- Suitable for variable speed operations with external inverter
- Long life rolling bearings with low noise operation

### STANDARD EXTENT OF DELIVERY

- Built-in volumetric ratio  $V_i=2,6$
- Integrated discharge check valve
- Integrated safety relief valve
- Flanged-on oil separator
- Electronic protection device INT695NY (to be mounted in Safe Zone)
- Electrical box with IP54 enclosure class
- Nitrogen protective charge
- Oil filter, oil charge/drain valve
- Oil charge PAG170
- Discharge Shut-off valve
- Electrical motor with 6 PTC temperature sensors embedded
- Rubber vibration dampers
- Oil sight glasses

### APPLICATIONS

Air Conditioning and high evaporating temperatures

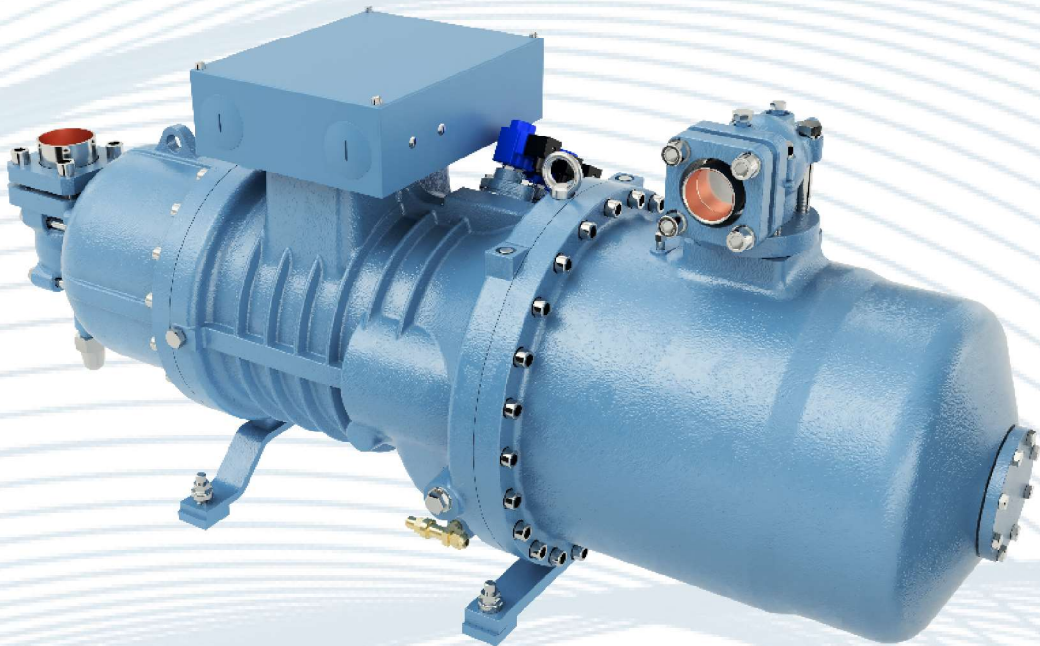
- Air Conditioning
- Process cooling
- Heat pumps



Heat pumps



Air conditioning





Compact screw compressor with oil separator

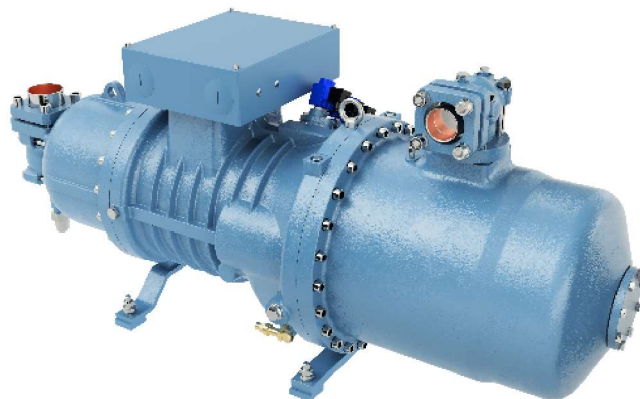
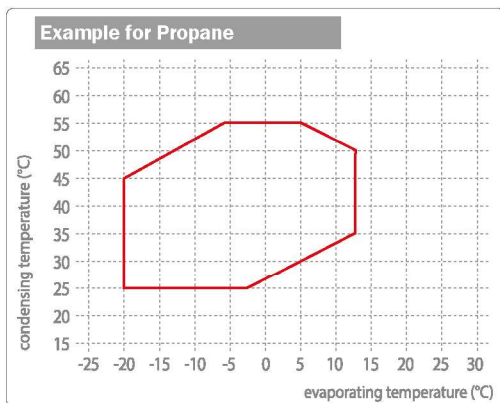
For hydrocarbons refrigerants

### OPTIONS

|         |  | H - motor                    |          |          |          |          |          |          |          |
|---------|--|------------------------------|----------|----------|----------|----------|----------|----------|----------|
| Options | Model  | PS3-H040                     | R55-H050 | R55-H060 | R55-H070 | R55-H080 | R55-H100 | R55-H110 | R55-H120 |
|         | Displacement (m <sup>3</sup> /h @50Hz)                     | 118                          | 150      | 175      | 205      | 237      | 286      | 318      | 314      |
|         | Nominal motor power (HP)                                   | 40                           | 50       | 60       | 70       | 80       | 100      | 110      | 120      |
|         | Lenght   | 121                          | 121      | 121      | 145      | 145      | 152      | 152      | 152      |
|         | Width  | 43                           | 43       | 43       | 44       | 44       | 48       | 48       | 48       |
|         | Height<br>(cm)   | 50                           | 50       | 50       | 64       | 64       | 66       | 66       | 66       |
|         | Weight (kg)  | 325                          | 330      | 335      | 510      | 515      | 615      | 590      | 625      |
| 1       | Standard motor voltage                                     | 400V/3/50Hz - 440V/3/60Hz PW |          |          |          |          |          |          |          |
| 2       | Motor with special voltage                                 | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 3       | Kit connection for liquid injection without solenoid valve | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 4       | Kit ECO connection with shut-off valve                     | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 5       | Photoelectric oil level control switch (no Ex)             | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 6       | Photoelectric IIG Ex oil level control switch              | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 7       | Discharge shut-off valve                                   | 5                            | 5        | 5        | 5        | 5        | 5        | 5        | 5        |
| 8       | Suction shut-off valve                                     | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 9       | Kit oil flow switch (no Ex)                                | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 10      | Kit oil flow switch - IIG Ex                               | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 11      | Oil pressure safety switch - mechanic                      | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 12      | Kit bridges for D.O.L. start                               | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 13      | Oil charge (shipped separately)                            | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 14      | Kit oil cooling connection                                 | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 15      | Special wooden package                                     | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        |

S: Standard    0: Optional    (0): Optional for -F version    -: Not available





| H - motor |  |                              |          |          |          |          |          |          |          |          |          |
|-----------|--|------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Options   | Model  | RSS-H140                     | RSS-H160 | RSS-H180 | RSS-H200 | RSS-H220 | RSS-H240 | RSS-H280 | RSS-H300 | RSS-H350 | RSS-H390 |
|           | Displacement (m <sup>3</sup> /h @50Hz)                     | 402                          | 445      | 510      | 562      | 600      | 700      | 860      | 910      | 1000     | 1100     |
|           | Nominal motor power (HP)                                   | 140                          | 160      | 180      | 200      | 220      | 240      | 280      | 300      | 350      | 390      |
|           | Length   | 162                          | 162      | 162      | 173      | 173      | 173      | 178      | 202      | 202      | 202      |
|           | Width  | 53                           | 53       | 53       | 59       | 59       | 59       | 62       | 70       | 70       | 70       |
|           | Height (cm)  | 76                           | 76       | 76       | 81       | 81       | 81       | 82       | 88       | 88       | 88       |
|           | Weight (kg)  | 730                          | 740      | 775      | 1010     | 1030     | 1020     | 980      | 1400     | 1400     | 1400     |
| 1         | Standard motor voltage                                     | 400V/3/50Hz - 440V/3/60Hz YD |          |          |          |          |          |          |          |          |          |
| 2         | Motor with special voltage                                 | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 3         | Kit connection for liquid injection without solenoid valve | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 4         | Kit ECO connection with shut-off valve                     | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 5         | Photoelectric oil level control switch (no Ex)             | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 6         | Photoelectric IIG Ex oil level control switch              | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 7         | Discharge shut-off valve                                   | 5                            | 5        | 5        | 5        | 5        | 5        | 5        | 5        | 5        | 5        |
| 8         | Suction shut-off valve                                     | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 9         | Kit oil flow switch (no Ex)                                | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 10        | Kit oil flow switch - IIG Ex                               | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 11        | Oil pressure safety switch - mechanic                      | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 12        | Kit bridges for D.O.L. start                               | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 13        | Oil charge (shipped separately)                            | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 14        | Kit oil cooling connection                                 | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 15        | Special wooden package                                     | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |

### PS5

Compact screw compressor with oil separator  
For hydrocarbons refrigerants

#### REFRIGERANTS

- Propane (R290)
- R600A
- R1270

#### KEY ADVANTAGE

- Compact dimensions
- Four Vi ratio available
- Easy maintenance: accessible refrigerant and oil filters, integrated oil cooling connections
- Modern rotor profile for higher specific displacement
- Suitable for heavy loads and continuous operations
- Electronic motor protection with 6 PTC sensors
- Suitable for variable speed operations with external inverter
- Long life rolling bearings with low noise operation

#### STANDARD EXTENT OF DELIVERY

- Built-in volumetric ratio  $V_i=2,6$
- Integrated discharge check valve
- Integrated safety relief valve
- Flanged-on oil separator
- Electronic protection device INT695NY (to be mounted in Safe Zone)
- Electrical box with IP54 enclosure class
- Nitrogen protective charge
- Oil filter, oil charge/drain valve
- Oil charge POE170
- Discharge Shut-off valve
- Electrical motor with 6 PTC temperature sensors embedded
- Rubber vibration dampers
- Oil sight glasses

#### APPLICATIONS

Medium and high evaporating temperatures

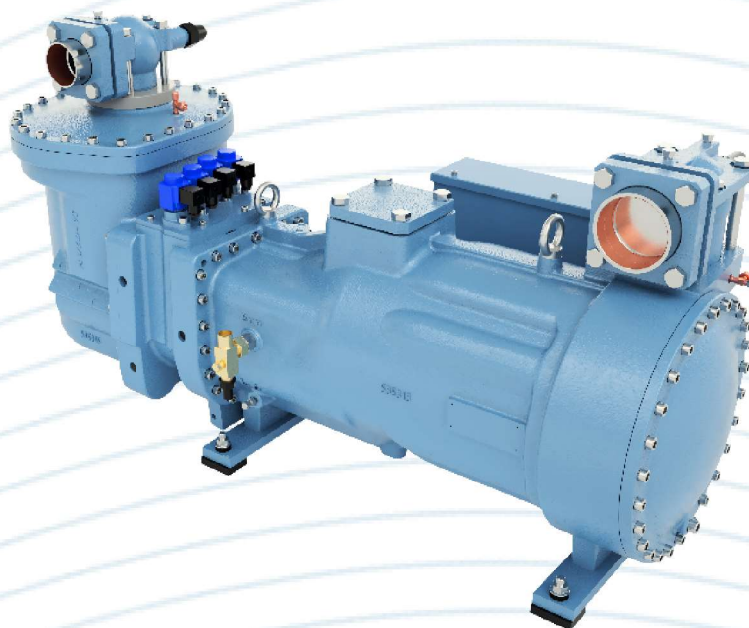
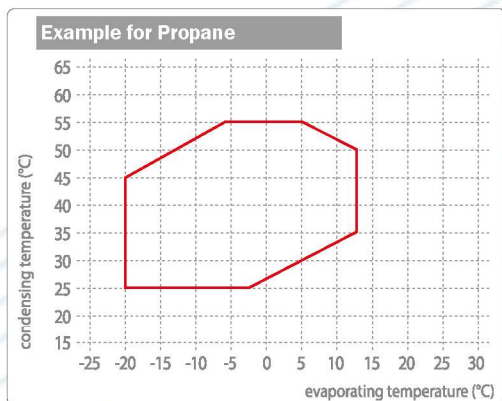
- High efficiency systems
- Air Conditioning
- Process cooling
- Heat pumps



Heat pumps



Air conditioning



### OPTIONS

|         |  | H - motor                    |          |          |          |          |          |          |          |          |          |
|---------|--|------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Options | Model  | PSS-H125                     | PSS-H140 | PSS-H160 | PSS-H180 | PSS-H210 | PSS-H240 | PSS-H270 | PSS-H300 | PSS-H350 | PSS-H400 |
|         | Displacement (m <sup>3</sup> /h @50Hz)                     | 365                          | 415      | 480      | 550      | 620      | 710      | 830      | 930      | 1020     | 1150     |
|         | Nominal motor power (HP)                                   | 125                          | 140      | 160      | 180      | 210      | 240      | 270      | 300      | 350      | 400      |
|         | Housing size   | 4                            | 4        | 5        | 5        | 6        | 6        | 7        | 7        | 8        | 8        |
|         | Length   | 141                          | 141      | 146      | 146      | 164      | 164      | 200      | 200      | 203      | 203      |
|         | Width  | 55                           | 55       | 61       | 61       | 66       | 66       | 75       | 75       | 76       | 76       |
|         | Height (cm)  | 74                           | 74       | 67       | 67       | 88       | 88       | 101      | 101      | 106      | 106      |
| 1       | Standard motor voltage                                     | 400V/3/50Hz - 440V/3/60Hz YD |          |          |          |          |          |          |          |          |          |
| 2       | Motor with special voltage                                 | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 3       | Kit connection for liquid injection without solenoid valve | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 4       | Kit ECO connection with shut-off valve                     | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 5       | Photoelectric oil level control switch (no Ex)             | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 6       | Photoelectric IIG Ex oil level control switch              | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 7       | Discharge shut-off valve                                   | S                            | S        | S        | S        | S        | S        | S        | S        | S        | S        |
| 8       | Suction shut-off valve                                     | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 9       | Kit oil flow switch (no Ex)                                | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 10      | Kit oil flow switch - IIG Ex                               | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 11      | Oil pressure safety switch - mechanic                      | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 12      | Kit bridges for D.O.L. start                               | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 13      | Oil charge (shipped separately)                            | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 14      | Kit oil cooling connection                                 | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 15      | Special wooden package                                     | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |

S: Standard    0: Optional    (0): Optional for -F version    -: Not available

# SRS-C

Compact screw compressor  
 With centrifugal oil separator and coalescing filter  
**For Ammonia**

## REFRIGERANTS

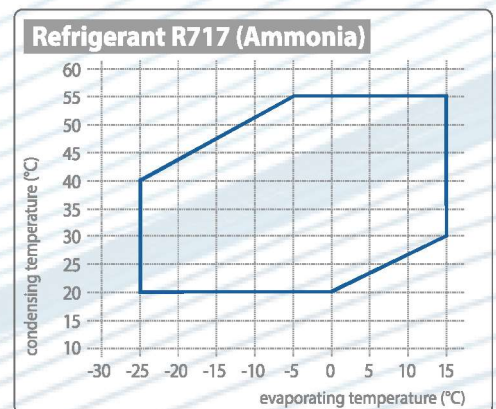
- Ammonia (R717)

## KEY ADVANTAGES

- Compact dimensions
- Centrifugal oil separator
- Coalescing oil separation stage
- Patented automatic compression ratio (Auto-Vi)
- Easy maintenance: accessible refrigerant and oil filters, integrated oil cooling connections, oil flow switch, and oil level sensor
- Internal Capacity control system: step and stepless
- Modern rotor profile for higher specific displacement
- Suitable for heavy loads and continuous operations
- Electronic motor protection with 6 PTC sensors
- Suitable for variable speed operations with external inverter
- Long life rolling bearings with low noise operation

## OPTIONS

|         |  | Motor     |           |           |
|---------|--|-----------|-----------|-----------|
| Model   |  | SRS-C-125 | SRS-C-145 | SRS-C-175 |
| Options | Displacement (m <sup>3</sup> /h @50Hz) | 140       | 280       | 480       |
|         | Nominal motor power (kW)               | 54        | 90        | 134       |
|         | Housing size                           | 1         | 3         | 5         |
|         | Length                                 | 120       | 143       | 170       |
|         | Width                                  | 97        | 119       | 141       |
|         | Height (cm)                            | 223       | 257       | 314       |



### APPLICATIONS

Low and medium evaporating temperatures

- Air Conditioning
- Heat pumps
- Chillers



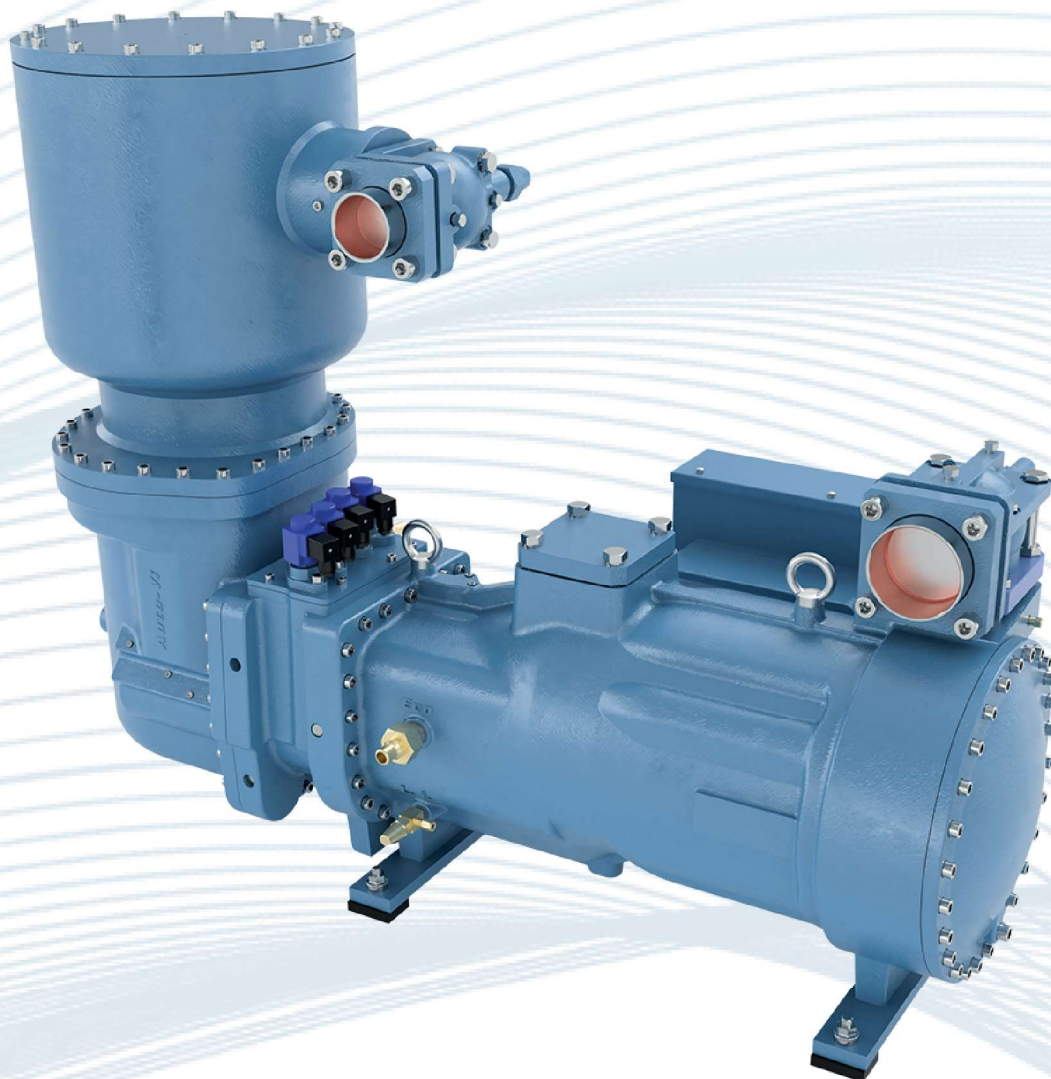
Heat pumps



Air conditioning



Ammonia



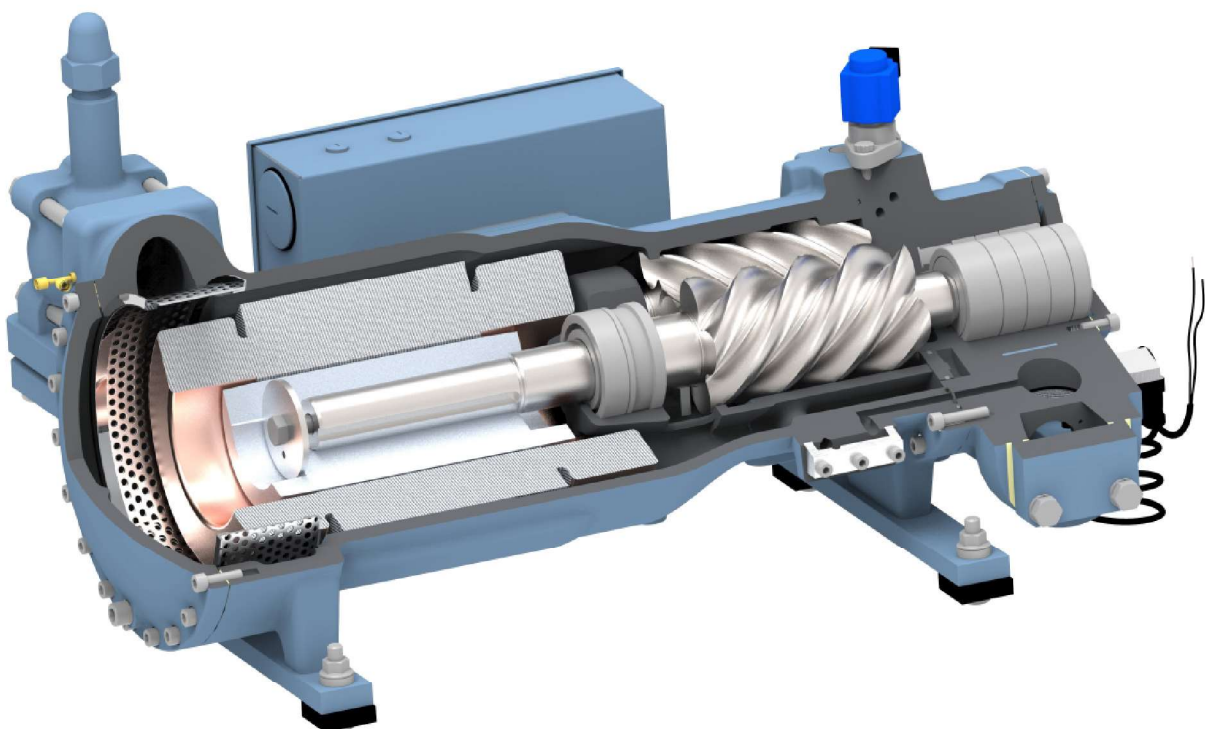
# SCREW COMPRESSORS


Screw compressors specifically developed for low and medium temperature refrigeration, ensuring optimum performance and high reliability.

A total of 5 ranges, with 120 models spanning from 85 m<sup>3</sup>/h to 10.850 m<sup>3</sup>/h displacement range, offer operation with both Standard refrigerants and Ammonia, including the unique semi-hermetic configuration using Ammonia (SRS).

Typical applications include marine refrigeration, petrochemical, pharmaceutical and chemical processes, industrial refrigeration, cold chain logistics, ultra-low temperature refrigeration, high temperature ammonia heat pumps and NH<sub>3</sub>/CO<sub>2</sub> cascade refrigeration systems.

The SRMTec range offers high efficiency variable frequency configurations (RW5), open type versions including high pressure configurations and single or 2-stage models. Customer specified Vi control and the possibility to apply variable frequency drive ensure highest efficiency levels. Specified Vi control ensures further efficiency gains. All models are suitable for variable frequency drive.



A detailed close-up photograph of the internal components of a screw compressor. The image shows two intermeshing rotors, which are cylindrical with complex, curved profiles. The rotors are made of polished metal, likely stainless steel, and are shown in a cross-sectional view. The lighting highlights the metallic texture and the precision engineering of the parts. A green semi-transparent banner is overlaid on the bottom half of the image, containing text.

Screw compressors working with HFC/HFO and ammonia. Developed for low and medium temperatures in the field of refrigeration, pharmaceutical, cold chain logistics and marine refrigeration.



High efficiency screw compressor without oil separator

For Ammonia

#### REFRIGERANTS

- Ammonia (R717)

#### KEY ADVANTAGES

- Compact design
- High power permanent magnet motor
- Aluminium windings (PMSM)
- Variable Vi ratios
- Computational Fluid Dynamics (CFD) optimized
- i-series rotor design (5+7 lobes)
- Low pulsations and vibrations
- Suitable for inverter control

#### APPLICATIONS

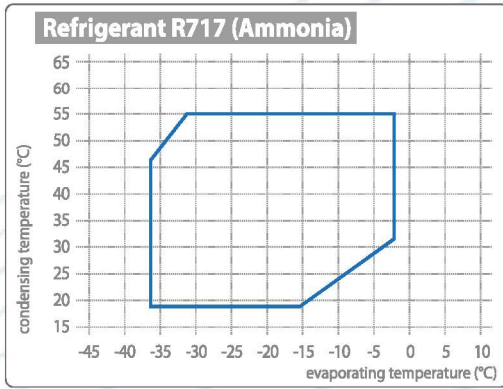
Low evaporating temperatures

- Food processing and storage
- Refrigeration
- Industrial process chillers

#### OPTIONS

|         |  | H - motor |         |         |         |         |         |         |         |         |
|---------|--|-----------|---------|---------|---------|---------|---------|---------|---------|---------|
| Options | Model                                  | SRS08SL   | SRS08ML | SRS10SL | SRS12SL | SRS12ML | SRS14SR | SRS14MR | SRS16SR | SRS16MR |
|         | Displacement (m <sup>3</sup> /h @50Hz) | 84        | 100     | 140     | 210     | 230     | 310     | 340     | 420     | 450     |
|         | Nominal motor power (kW)               | 22        | 27      | 45      | 54      | 62      | 90      | 90      | 134     | 134     |
|         | Housing size                           | 1         | 1       | 2       | 3       | 3       | 4       | 4       | 5       | 5       |
|         | Length                                 | 80        | 80      | 89      | 104     | 104     | 128     | 128     | 135     | 135     |
|         | Width                                  | 47        | 47      | 49      | 59      | 59      | 60      | 60      | 80      | 80      |
|         | Height (cm)                            | 41        | 41      | 39      | 49      | 49      | 50      | 50      | 63      | 63      |
|         | Weight (cm)                            | 185       | 195     | 240     | 370     | 375     | 505     | 510     | 680     | 690     |



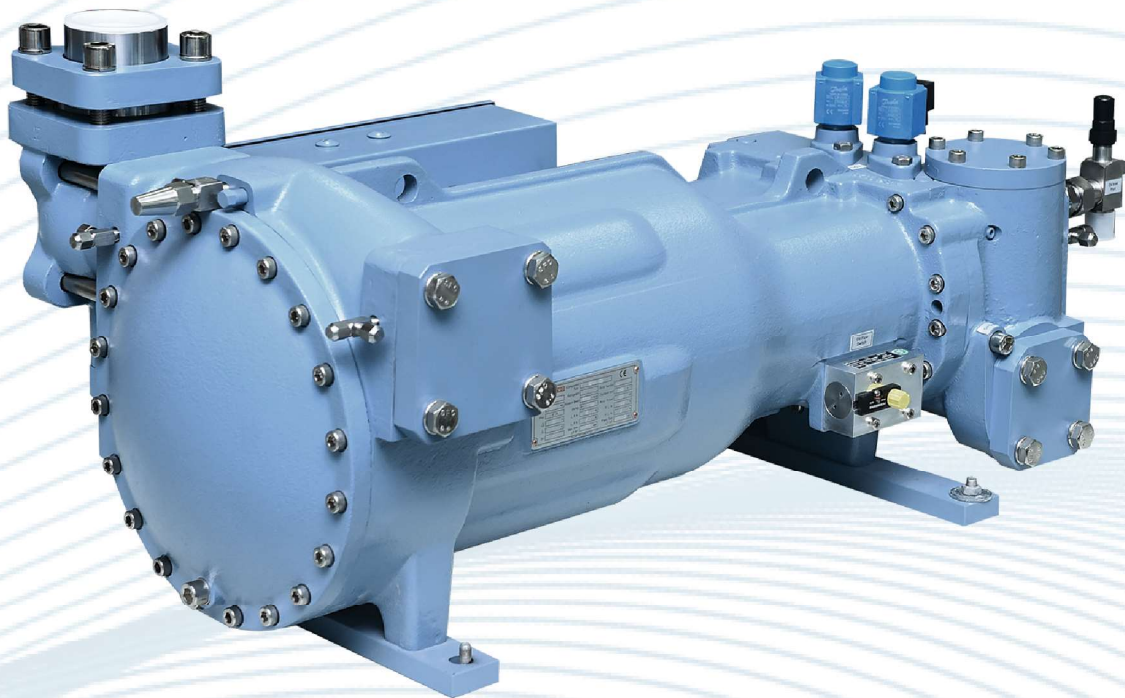




Refrigeration



Ammonia



|             |  | L - motor |         |         |         |         |         |         |         |         |         |         |         |         |         |
|-------------|--|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|             |  | SRS085H   | SRS08MH | SRS08LH | SRS105H | SRS10LH | SRS125H | SRS12MH | SRS12LH | SRS145M | SRS14MM | SRS14LM | SRS165M | SRS16MM | SRS16LM |
| Options     | Model                                  | SRS085H   | SRS08MH | SRS08LH | SRS105H | SRS10LH | SRS125H | SRS12MH | SRS12LH | SRS145M | SRS14MM | SRS14LM | SRS165M | SRS16MM | SRS16LM |
|             | Displacement (m <sup>3</sup> /h @50Hz) | 84        | 100     | 120     | 140     | 168     | 210     | 230     | 250     | 310     | 340     | 370     | 420     | 450     | 500     |
|             | Nominal motor power (kW)               | 22        | 27      | 33      | 45      | 45      | 54      | 62      | 72      | 90      | 90      | 107     | 134     | 134     | 134     |
|             | Housing size                           | 1         | 1       | 1       | 2       | 2       | 3       | 3       | 3       | 4       | 4       | 4       | 5       | 5       | 5       |
|             | Length                                 | 80        | 80      | 80      | 89      | 89      | 104     | 104     | 104     | 128     | 128     | 128     | 135     | 135     | 138     |
|             | Width                                  | 47        | 47      | 47      | 49      | 49      | 59      | 59      | 59      | 60      | 60      | 60      | 80      | 80      | 80      |
|             | Height (cm)                            | 41        | 41      | 41      | 39      | 39      | 49      | 49      | 49      | 50      | 50      | 50      | 63      | 63      | 63      |
| Weight (cm) | 185                                    | 195       | 205     | 240     | 260     | 370     | 375     | 380     | 505     | 510     | 515     | 680     | 690     | 700     |         |

# RW3

Screw compressor without oil separator

For HFC/HFO refrigerants

## REFRIGERANTS

- R22
- R407C
- R404A
- R507
- R1233ze
- R448A
- R449A

## Key advantages

- Silent and vibration free operations
- Easy installation and maintenances
- Compact dimensions
- Different compression ratio ( $V_i$ ) to select the best solution according to customer application
- Internal Capacity control system: step or stepless
- Modern rotor profile for higher specific displacement
- Suitable for heavy loads and continuous operations
- Electronic motor protection with 6 PTC sensors
- Suitable for variable speed operations with external inverter
- Long life rolling bearings with low noise operation

## STANDARD EXTENT OF DELIVERY

- Integrated discharge check valve
- Integrated safety relief valve
- Capacity control (Step or stepless, please specify)
- Nitrogen protection
- Rubber vibration damper
- Motor PTC temperature sensor
- Motor protector INT69SNY
- IP54 electrical box
- Oil circuit kit (solenoid valve, changeable oil filter, oil flow switch, sight glass, INT69VS elec. protection module and capacitor)
- Built-in volumetric ratio  $V_i = 4,0$  (for **L-motor**)
- Built-in volumetric ratio  $V_i = 2,6$  (for **H-motor**)

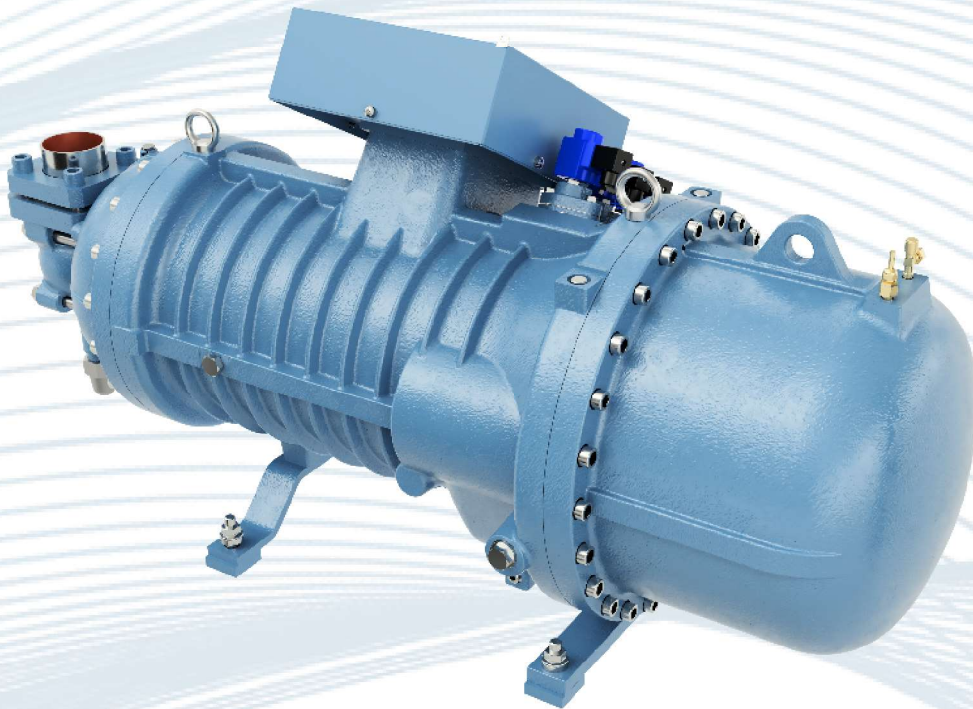
### APPLICATIONS

Low and medium evaporating temperatures

- Refrigeration
- Process cooling



Refrigeration



# RW3

Screw compressor without oil separator

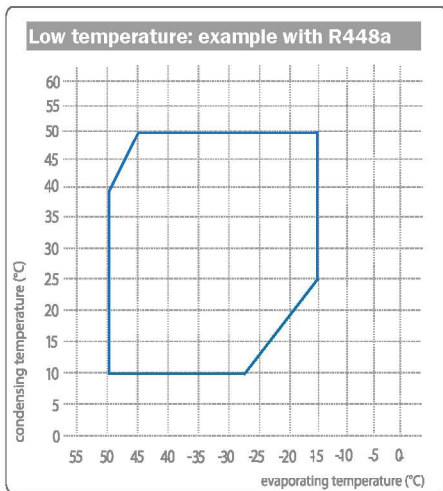
For HFC/HFO refrigerants

## OPTIONS

|         |   | H - motor                    |          |          |          |          |          |          |          |
|---------|---|------------------------------|----------|----------|----------|----------|----------|----------|----------|
| Options | Model                                       | RW3-H040                     | RW3-H050 | RW3-H060 | RW3-H075 | RW3-H090 | RW3-H105 | RW3-H115 | RW3-H125 |
|         | Displacement (m <sup>3</sup> /h @50Hz)      | 118                          | 150      | 175      | 205      | 237      | 286      | 318      | 341      |
|         | Nominal motor power (HP)                    | 40                           | 50       | 60       | 75       | 90       | 105      | 115      | 125      |
|         | Length                                      | 94                           | 94       | 94       | 115      | 115      | 132      | 132      | 132      |
|         | Width                                       | 56                           | 56       | 56       | 52       | 52       | 60       | 60       | 60       |
|         | Height (cm)                                 | 47                           | 47       | 47       | 60       | 60       | 66       | 66       | 66       |
|         | Weight (kg)                                 | 245                          | 255      | 265      | 410      | 420      | 535      | 540      | 545      |
| 1       | Standard motor voltage                      | 400V/3/50Hz - 440V/3/60Hz PW |          |          |          |          |          |          |          |
| 2       | Motor with special voltage                  | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 3       | Suction & discharge shut-off valve          | S                            | S        | S        | S        | S        | S        | S        | S        |
| 4       | Adapter for liquid injection                | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 5       | Adapter & shut-off valve for ECO connection | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 6       | Bridges for D.O.L. start                    | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 7       | Rubber vibration dampers                    | S                            | S        | S        | S        | S        | S        | S        | S        |
| 8       | Special wooden package                      | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        |

S: Standard    0: Optional    (0): Optional for -F version    -: Not available

### 3. SCREW COMPRESSORS



| H - motor |   |                              |          |          |          |          |          |
|-----------|---|------------------------------|----------|----------|----------|----------|----------|
| Options   | Model                                       | RW3-H140                     | RW3-H160 | RW3-H190 | RW3-H210 | RW3-H240 | RW3-H250 |
|           | Displacement (m <sup>3</sup> /h @50Hz)      | 402                          | 445      | 510      | 562      | 600      | 700      |
|           | Nominal motor power (HP)                    | 140                          | 160      | 190      | 210      | 240      | 250      |
|           | Length                                      | 144                          | 144      | 144      | 148      | 148      | 148      |
|           | Width                                       | 72                           | 72       | 72       | 75       | 75       | 75       |
|           | Height (cm)                                 | 67                           | 67       | 67       | 67       | 72       | 72       |
|           | Weight (kg)                                 | 665                          | 675      | 710      | 1030     | 1050     | 980      |
| 1         | Standard motor voltage                      | 400V/3/50Hz - 440V/3/60Hz YD |          |          |          |          |          |
| 2         | Motor with special voltage                  | 0                            | 0        | 0        | 0        | 0        | 0        |
| 3         | Suction & discharge shut-off valve          | 5                            | 5        | 5        | 5        | 5        | 5        |
| 4         | Adapter for liquid injection                | 0                            | 0        | 0        | 0        | 0        | 0        |
| 5         | Adapter & shut-off valve for ECO connection | 0                            | 0        | 0        | 0        | 0        | 0        |
| 6         | Bridges for D.O.L. start                    | 0                            | 0        | 0        | 0        | 0        | 0        |
| 7         | Rubber vibration dampers                    | 5                            | 5        | 5        | 5        | 5        | 5        |
| 8         | Special wooden package                      | 0                            | 0        | 0        | 0        | 0        | 0        |

# RW3

Screw compressor without oil separator

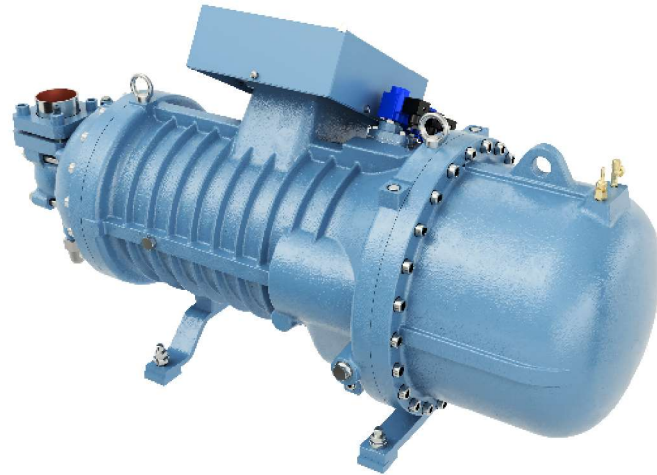
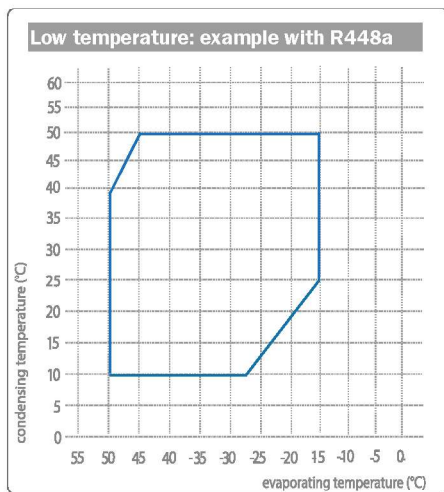
For HFC/HFO refrigerants

## OPTIONS

|         |   | L - motor                    |          |          |          |         |         |          |          |
|---------|---|------------------------------|----------|----------|----------|---------|---------|----------|----------|
| Options | Model                                       | RW3-L030                     | RW3-L040 | RW3-L050 | RW3-L060 | RW3-L70 | RW3-L80 | RW3-L095 | RW3-L105 |
|         | Displacement (m <sup>3</sup> /h @50Hz)      | 118                          | 150      | 175      | 205      | 237     | 286     | 318      | 341      |
|         | Nominal motor power (HP)                    | 30                           | 40       | 50       | 60       | 70      | 80      | 95       | 105      |
|         | Length                                      | 94                           | 94       | 94       | 115      | 115     | 132     | 132      | 132      |
|         | Width                                       | 56                           | 56       | 56       | 52       | 52      | 60      | 60       | 60       |
|         | Height (cm)                                 | 47                           | 47       | 47       | 60       | 60      | 66      | 66       | 66       |
|         | Weight (kg)                                 | 245                          | 255      | 265      | 410      | 420     | 520     | 525      | 530      |
| 1       | Standard motor voltage                      | 400V/3/50Hz - 440V/3/60Hz PW |          |          |          |         |         |          |          |
| 2       | Motor with special voltage                  | 0                            | 0        | 0        | 0        | 0       | 0       | 0        | 0        |
| 3       | Suction & discharge shut-off valve          | S                            | S        | S        | S        | S       | S       | S        | S        |
| 4       | Adapter for liquid injection                | 0                            | 0        | 0        | 0        | 0       | 0       | 0        | 0        |
| 5       | Adapter & shut-off valve for ECO connection | 0                            | 0        | 0        | 0        | 0       | 0       | 0        | 0        |
| 6       | Bridges for D.O.L. start                    | 0                            | 0        | 0        | 0        | 0       | 0       | 0        | 0        |
| 7       | Rubber vibration dampers                    | S                            | S        | S        | S        | S       | S       | S        | S        |
| 8       | Special wooden package                      | 0                            | 0        | 0        | 0        | 0       | 0       | 0        | 0        |

S: Standard    0: Optional    (0): Optional for -F version    -: Not available

### 3. SCREW COMPRESSORS



#### L - motor

| Options | Model                                       | RW3-L115                     | RW3-L130 | RW3-L160 | RW3-L180 | RW3-L200 | RW3-L220 |
|---------|---|------------------------------|----------|----------|----------|----------|----------|
|         | Displacement (m <sup>3</sup> /h @50Hz)      | 402                          | 445      | 510      | 562      | 600      | 700      |
|         | Nominal motor power (HP)                    | 115                          | 130      | 160      | 180      | 200      | 220      |
|         | Length                                      | 144                          | 144      | 144      | 148      | 148      | 148      |
|         | Width                                       | 72                           | 72       | 72       | 75       | 75       | 75       |
|         | Height (cm)                                 | 67                           | 67       | 67       | 72       | 72       | 72       |
|         | Weight (kg)                                 | 665                          | 675      | 710      | 1030     | 1050     | 980      |
| 1       | Standard motor voltage                      | 400V/3/50Hz - 440V/3/60Hz YD |          |          |          |          |          |
| 2       | Motor with special voltage                  | 0                            | 0        | 0        | 0        | 0        | 0        |
| 3       | Suction & discharge shut-off valve          | 5                            | 5        | 5        | 5        | 5        | 5        |
| 4       | Adapter for liquid injection                | 0                            | 0        | 0        | 0        | 0        | 0        |
| 5       | Adapter & shut-off valve for ECO connection | 0                            | 0        | 0        | 0        | 0        | 0        |
| 6       | Bridges for D.O.L. start                    | 0                            | 0        | 0        | 0        | 0        | 0        |
| 7       | Rubber vibration dampers                    | 5                            | 5        | 5        | 5        | 5        | 5        |
| 8       | Special wooden package                      | 0                            | 0        | 0        | 0        | 0        | 0        |

# RW5

## High efficiency screw compressor without oil separator

For HFC/HFO refrigerants

### REFRIGERANTS

- R22
- R1233ze
- R407C
- R448A
- R404A
- R449A
- R507

### KEY ADVANTAGES

- The most innovative compressor for refrigeration applications
- Silent and vibration free
- Easy installation and maintenance: valves can be repositioned left hand side or right hand side
- Compact dimensions
- Patented variable compression ratio ( $V_i$ )
- Built in capacity control system: step or stepless
- Modern rotor profile for higher specific displacement
- Suitable for heavy loads and continuous operations
- Electronic motor protection with 6 PTC sensors
- Suitable for variable speed operations with external inverter

### STANDARD EXTENT OF DELIVERY

- Built-in volumetric ratio  $V_i=4,0$
- Integrated discharge check valve
- Integrated safety relief valve
- Two phases partial load check
- Pressure relieve valve
- Motor PTC temperature sensor
- Motor protector INT69SNY
- IP54 electrical box
- Nitrogen protection
- Rubber vibration damper
- IP54 electrical box
- Oil circuit kit (solenoid valve, changeable oil filter, oil flow switch, sight glass, INT69VS elec. protection module, and capacitor)



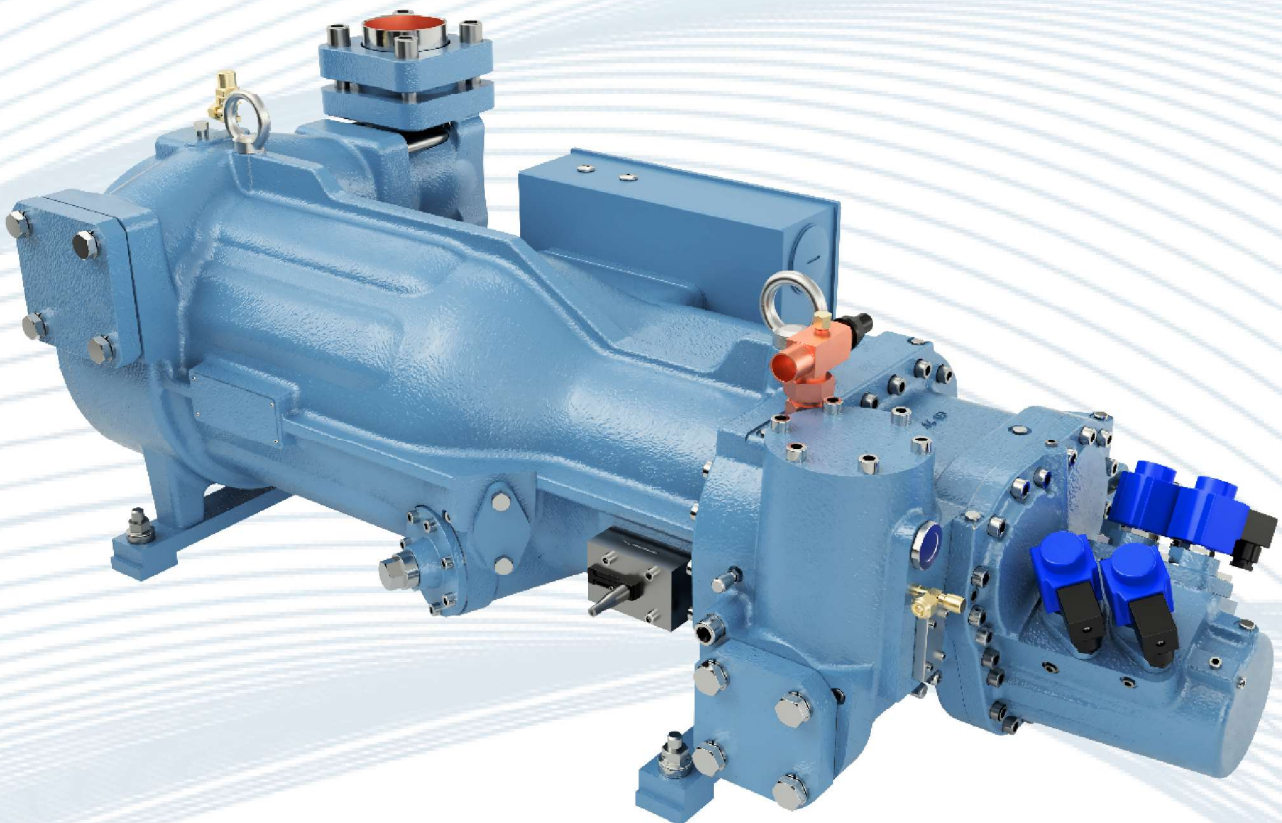
### APPLICATIONS

Low and medium evaporating temperatures

- Refrigeration
- High efficiency systems
- Process cooling



Refrigeration



# RW5

## High efficiency screw compressor without oil separator

For HFC/HFO refrigerants

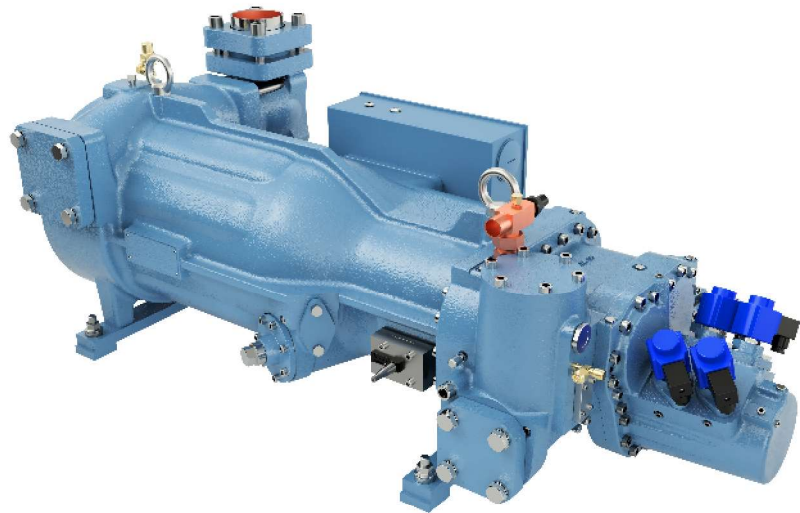
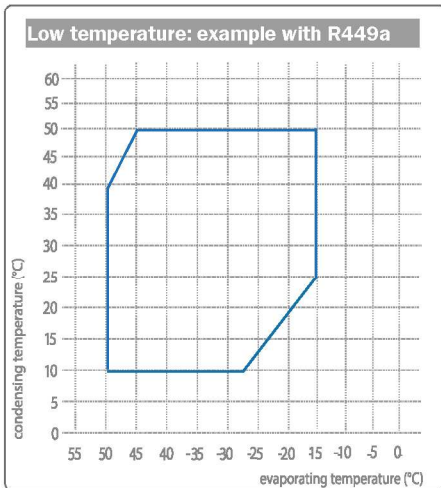
### OPTIONS

|         |   | L - motor                    |          |          |          |          |          |          |          |
|---------|---|------------------------------|----------|----------|----------|----------|----------|----------|----------|
| Options | Model   | RW5-L020                     | RW5-L025 | RW5-L030 | RW5-L040 | RW5-L050 | RW5-L060 | RW5-L070 | RW5-L075 |
|         | Displacement (m <sup>3</sup> /h @50Hz)        | 84                           | 100      | 120      | 140      | 168      | 210      | 230      | 250      |
|         | Nominal motor power (HP)                      | 20                           | 25       | 30       | 40       | 50       | 60       | 70       | 75       |
|         | Housing size                                  | 1                            | 1        | 1        | 2        | 2        | 3        | 3        | 3        |
|         | Lenght  | 80                           | 80       | 80       | 89       | 89       | 104      | 104      | 104      |
|         | Width   | 47                           | 47       | 47       | 49       | 49       | 59       | 59       | 59       |
|         | Height (cm)                                   | 41                           | 41       | 41       | 39       | 39       | 49       | 49       | 49       |
|         | Weight (kg)                                   | 190                          | 200      | 210      | 245      | 250      | 365      | 370      | 375      |
| 1       | Standard motor voltage                        | 400V/3/50Hz - 440V/3/60Hz PW |          |          |          |          |          |          |          |
| 2       | Motor with special voltage                    | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 3       | Shut-off valve for oil injection              | -                            | -        | -        | -        | -        | S        | S        | S        |
| 4       | Suction & discharge shut-off valve            | S                            | S        | S        | S        | S        | S        | S        | S        |
| 5       | Adapter for liquid injection                  | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 6       | Adapter & shut-off valve for ECO connection   | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 7       | External oil circuit kit*                     | S                            | S        | S        | S        | S        | -        | -        | -        |
| 8       | Oil flow switch                               | S                            | S        | S        | S        | S        | 0        | 0        | 0        |
| 9       | Oil filter differential pressure switch       | -                            | -        | -        | -        | -        | 0        | 0        | 0        |
| 10      | Vi adjust device - automatic                  | -                            | -        | -        | -        | -        | -        | -        | -        |
| 11      | Internal oil filter & internal oil stop valve | -                            | -        | -        | -        | -        | S        | S        | S        |
| 12      | Special wooden box                            | 0                            | 0        | 0        | 0        | 0        | 0        | 0        | 0        |

S: Standard    0: Optional    (0): Optional for -F version    -: Not available

\* Including solenoid valves, coils, oil filter with replaceable cartridge, sight glass, oil flow switch, and electrolytic condenser

### 3. SCREW COMPRESSORS



| L - motor |   |                              |          |          |          |          |          |  |
|-----------|---|------------------------------|----------|----------|----------|----------|----------|--|
| Options   | Model   | RWS-L090                     | RWS-L100 | RWS-L110 | RWS-L125 | RWS-L140 | RWS-L150 |  |
|           | Displacement (m <sup>3</sup> /h @50Hz)        | 310                          | 340      | 370      | 420      | 450      | 500      |  |
|           | Nominal motor power (HP)                      | 90                           | 100      | 110      | 125      | 140      | 150      |  |
|           | Housing size                                  | 4                            | 4        | 4        | 5        | 5        | 5        |  |
|           | Lenght  | 128                          | 128      | 128      | 135      | 135      | 135      |  |
|           | Width   | 60                           | 60       | 60       | 80       | 80       | 80       |  |
|           | Height (cm)                                   | 50                           | 50       | 50       | 63       | 63       | 63       |  |
|           | Weight (kg)                                   | 505                          | 510      | 515      | 680      | 690      | 700      |  |
| 1         | Standard motor voltage                        | 400V/3/50Hz - 440V/3/60Hz YD |          |          |          |          |          |  |
| 2         | Motor with special voltage                    | 0                            | 0        | 0        | 0        | 0        | 0        |  |
| 3         | Shut-off valve for oil injection              | 5                            | 5        | 5        | 5        | 5        | 5        |  |
| 4         | Suction & discharge shut-off valve            | 5                            | 5        | 5        | 5        | 5        | 5        |  |
| 5         | Adapter for liquid injection                  | 0                            | 0        | 0        | 0        | 0        | 0        |  |
| 6         | Adapter & shut-off valve for ECO connection   | 0                            | 0        | 0        | 0        | 0        | 0        |  |
| 7         | External oil circuit kit*                     | -                            | -        | -        | -        | -        | -        |  |
| 8         | Oil flow switch                               | 0                            | 0        | 0        | 0        | 0        | 0        |  |
| 9         | Oil filter differential pressure switch       | 0                            | 0        | 0        | 0        | 0        | 0        |  |
| 10        | Vi adjust device - automatic                  | 0                            | 0        | 0        | 0        | 0        | 0        |  |
| 11        | Internal oil filter & internal oil stop valve | 5                            | 5        | 5        | 5        | 5        | 5        |  |
| 12        | Special wooden box                            | 0                            | 0        | 0        | 0        | 0        | 0        |  |

## SRS DOUBLE STAGE

Screw compressor without oil separator

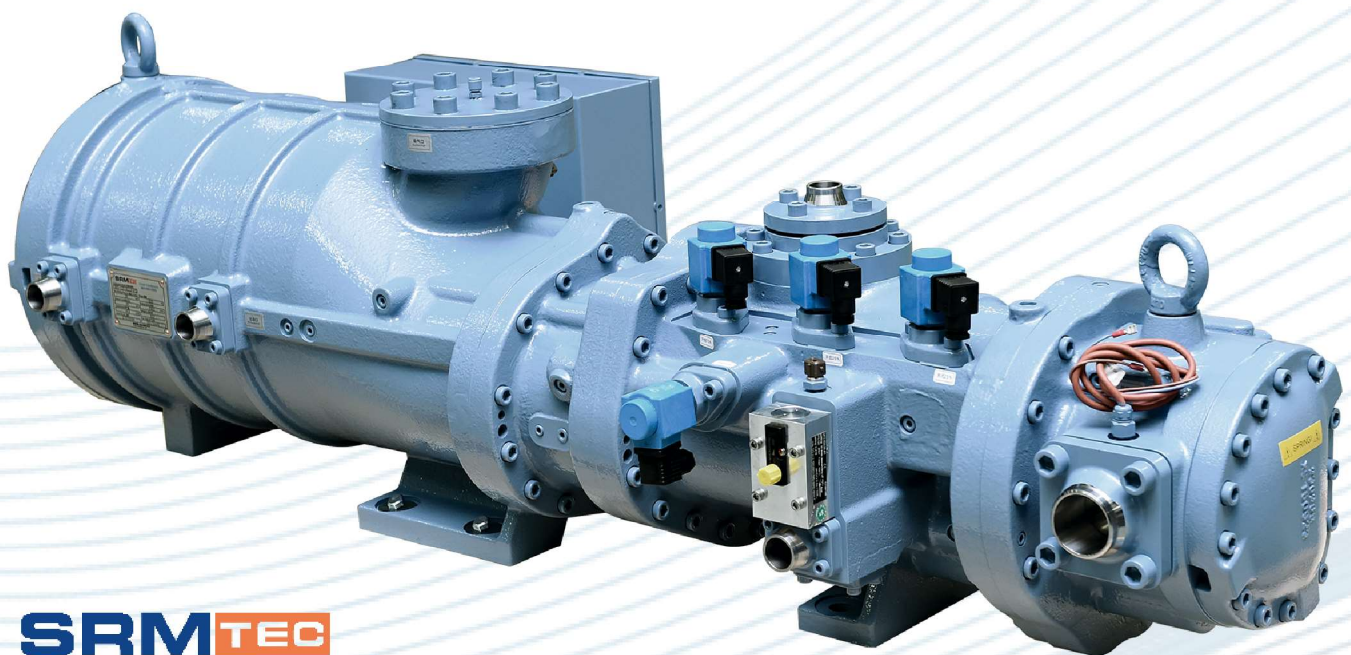
For Ammonia

### REFRIGERANTS

- Ammonia (R717)

### KEY ADVANTAGES

- Compact solution
- Two compressors on one single drive-shaft



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## APPLICATIONS

### Very low temperatures

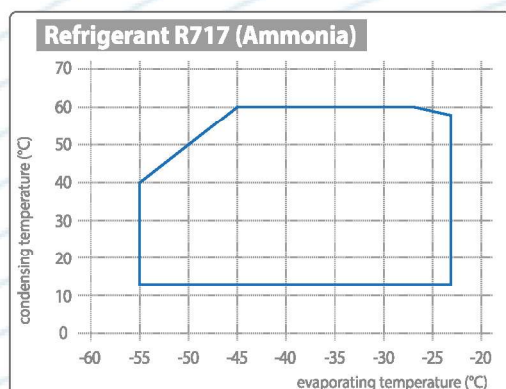
- Food processing
- Blast
- Spiral and tunnel-freezing
- Marine refrigeration
- Very low cold storage



Refrigeration



Ammonia



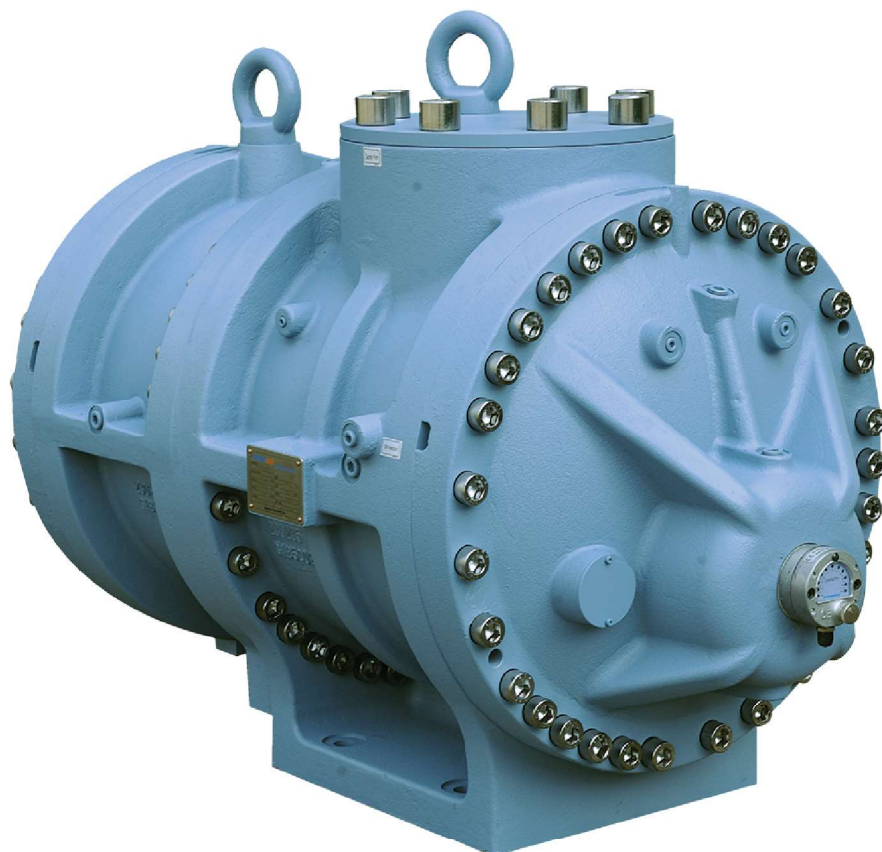
## OPTIONS

|             |                                   | L - motor |           |           |           |           |
|-------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|
|             |                                   | SRS1008SS | SRS1008LL | SRS1210SS | SRS1210LL | SRS1612LS |
| Options     | Model                             | SRS1008SS | SRS1008LL | SRS1210SS | SRS1210LL | SRS1612LS |
|             | Displacement (m <sup>3</sup> /h)# | 141       | 221       | 332       | 463       | 652       |
|             | Nominal motor power (kW)#         | 28,8      | 44,4      | 67,2      | 90        | 155       |
|             | Length                            | 133       | 140       | 147       | 154       | 198       |
|             | Width                             | 67        | 67        | 73        | 73        | 78        |
|             | Height (cm)                       | 46        | 46        | 47        | 47        | 69        |
| Weight (kg) |                                   | 362       | 445       | 500       | 700       | 1161      |

# Referred to rated speed 3600rpm

# OPEN-TYPE COMPRESSORS

Open screw compressors ideal for industrial refrigeration: petrolchemical, pharmaceutical, chemical, low temperatures, storage and marine refrigeration. This compressors are characherized by low noise levels, i-profile rotor design (5+7 lobes) and Auto-Vi regulation.





Open screw compressors  
working with ammonia.

# SRM SERIES

Open-type compressor

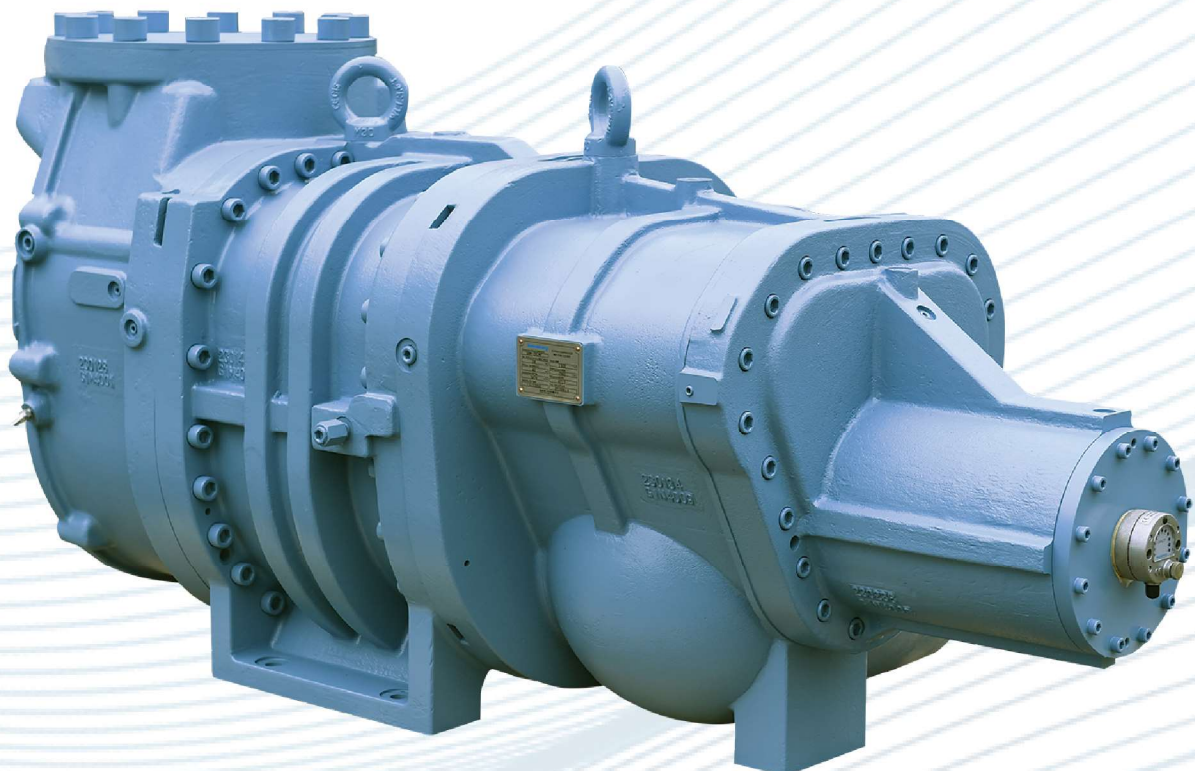
**For Ammonia**

## REFRIGERANTS

- Ammonia (R717)

## KEY ADVANTAGES

- Low noise levels
- Fixer moving parts
- High life spour bearings
- Low maintenance
- i-profile rotor design (5+7 lobes)
- Stepless capacity control
- Auto-Vi regulation
- Variable speed with external inverter



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## APPLICATIONS

### Industrial refrigeration

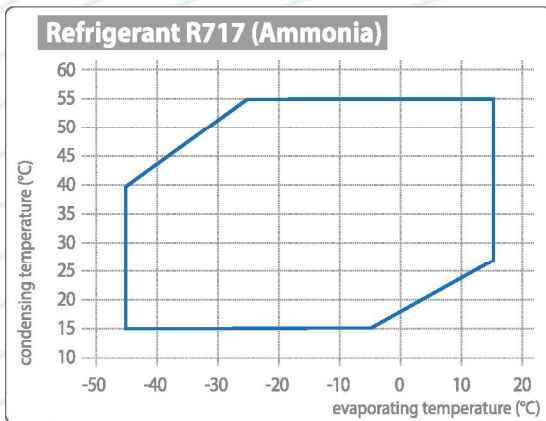
- Petrolchemical
- Pharmaceutical
- Chemical
- Low temperatures
- Storage
- Marine refrigeration



Refrigeration



Ammonia



## OPTIONS

|         |                 | L - motor                              |        |        |        |        |        |        |         |        |        |        |         |        |        |        |         |
|---------|-----------------|--|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|---------|--------|--------|--------|---------|
| Options | Model           | SRM12L                                 | SRM16S | SRM16M | SRM16L | SRM20S | SRM20M | SRM20L | SRM20LL | SRM26S | SRM26M | SRM26L | SRM26LL | SRM34S | SRM34M | SRM34L | SRM34LL |
|         |                 | Displacement (m <sup>3</sup> /h @50Hz) | 265    | 435    | 544    | 652    | 850    | 1100   | 1270    | 1496   | 1659   | 2075   | 2478    | 2940   | 3360   | 4280   | 5090    |
|         | Max speed (rpm) | 6000                                   | 4800   | 4800   | 4800   | 4800   | 4800   | 4800   | 4800    | 4500   | 4500   | 4500   | 4500    | 3600   | 3600   | 3600   | 3600    |
|         | Length          | 107                                    | 107    | 113    | 121    | 122    | 134    | 142    | 168     | 153    | 164    | 173    | 186     | 192    | 207    | 221    | 243     |
|         | Width           | 38                                     | 50     | 50     | 50     | 57     | 57     | 57     | 57      | 72     | 72     | 72     | 72      | 85     | 85     | 85     | 85      |
|         | Height (cm)     | 45                                     | 55     | 55     | 55     | 56     | 56     | 56     | 56      | 81     | 81     | 81     | 81      | 77     | 77     | 77     | 77      |
|         | Weight (kg)     | 280                                    | 470    | 514    | 530    | 745    | 789    | 850    | 990     | 1680   | 1800   | 1920   | 2075    | 2970   | 3190   | 3395   | 3741    |

## SRM 2

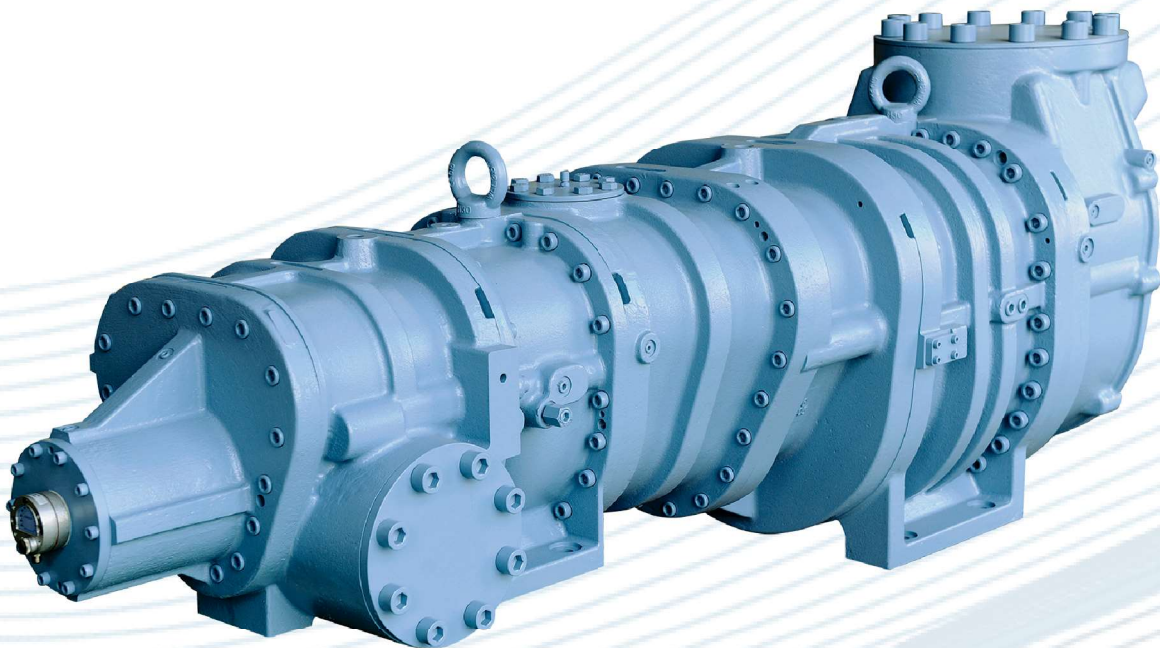
Double stage, open-type compressor  
For Ammonia

### REFRIGERANTS

- Ammonia (R717)

### Key advantages

- High efficient
- High compression ratio
- No side loads on the high storage are needed



**SRM**TEC


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## APPLICATIONS

Ultra low temperature in industrial refrigeration

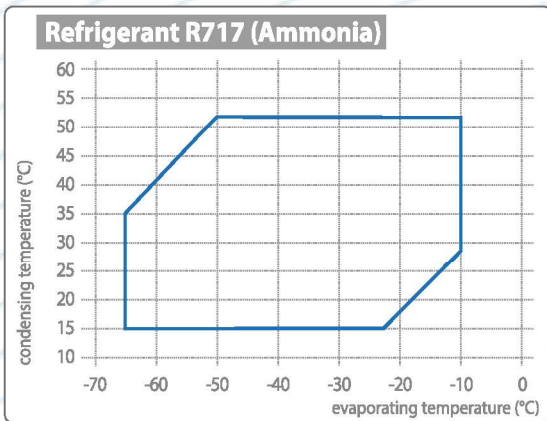
- Food freezing
- Cold chain logistics
- Marine refrigeration



Refrigeration



Ammonia



## OPTIONS

|         |  | L - motor  |           |           |           |           |
|---------|--|------------|-----------|-----------|-----------|-----------|
| Options | Model                                  | SRM11612LS | SRM2016LS | SRM2620MS | SRM2620LS | SRM3426LS |
|         | Displacement (m <sup>3</sup> /h @50Hz) | 652        | 1270      | 2075      | 2478      | 5090      |
|         | Max speed (rpm)                        | 3600       | 3600      | 3600      | 3600      | 3000      |
|         | Length                                 | 152        | 211       | 232       | 232       | 389       |
|         | Width                                  | 66         | 53        | 69        | 69        | 84        |
|         | Height (cm)                            | 66         | 60        | 85        | 85        | 97        |
|         | Weight (kg)                            | 990        | 1170      | 2200      | 2320      | 4300      |

# SRH

High pressure, open-type compressor

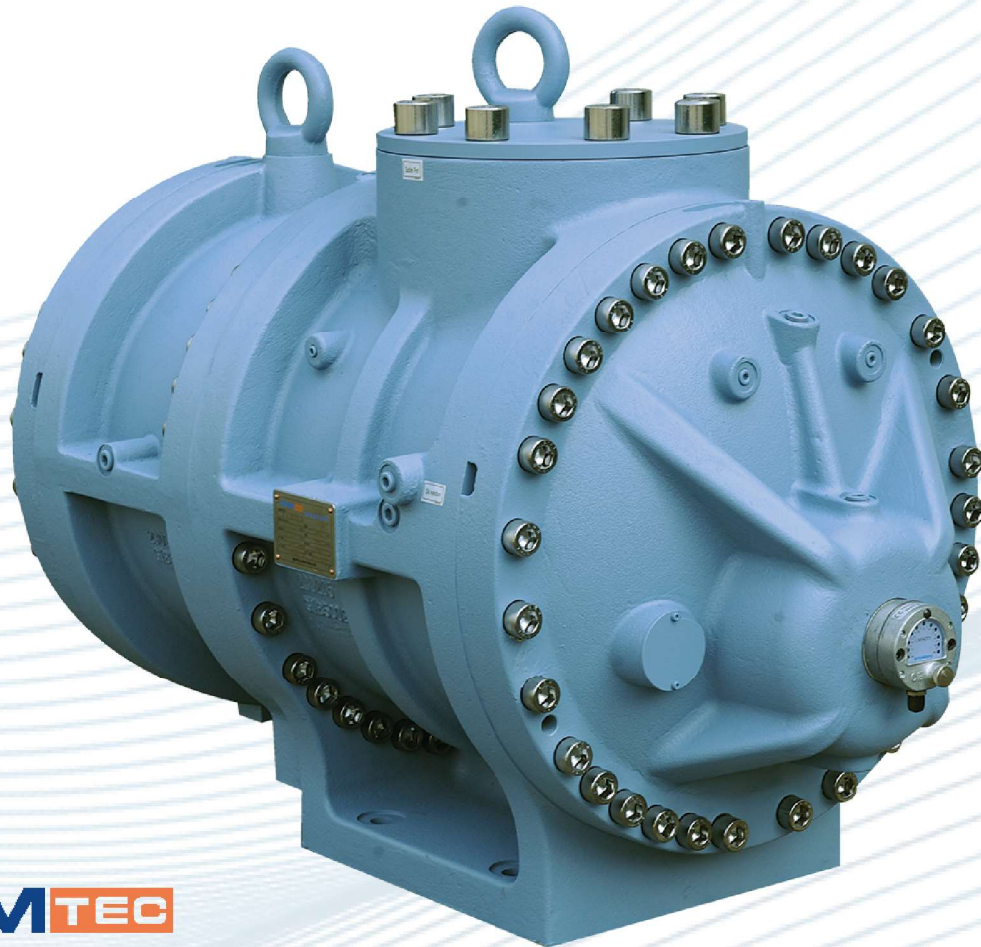
For Ammonia

### REFRIGERANTS

- Ammonia (R717)
- CO<sub>2</sub>

### Key advantages

- High compression ratio
- 63 bars
- Auto-Vi regulation
- High wear resistant slide bearings
- i-profile rotor (6+8 lobes)



## SRMTEC


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## APPLICATIONS

High temperatures Ammonia heat pumps


- Ammonia Heat pumps and CO<sub>2</sub> cascade systems



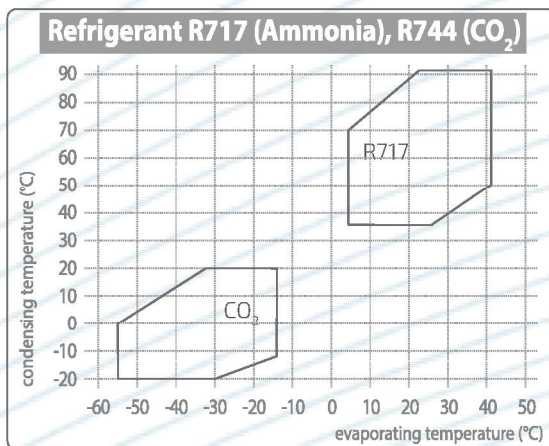
Refrigeration



Heat Pumps



Ammonia



## OPTIONS

|         |  | H - motor |        |        |        |        |
|---------|--|-----------|--------|--------|--------|--------|
|         |  | L - motor |        |        |        |        |
| Options | Model                                  | SRH12M    | SRH16M | SRH18M | SRH20M | SRH26M |
|         | Displacement (m <sup>3</sup> /h @50Hz) | 161       | 322    | 480    | 854    | 1409   |
|         | Max speed (rpm)                        | 4200      | 3600   | 3600   | 3600   | 3600   |
|         | Length                                 | 103       | 118    | 125    | 145    | 167    |
|         | Width                                  | 56        | 61     | 67     | 71     | 97     |
|         | Height (cm)                            | 73        | 79     | 79     | 89     | 117    |
|         | Weight (kg)                            | 380       | 965    | 1260   | 1477   | 2150   |

# APPLICATIONS



## COMMERCIAL REFRIGERATION

SRMTec compressors ensure customers to receive fresh and safe food all year round, with a 24/7 reliability these processes demand.



## INDUSTRIAL REFRIGERATION

SRMTec has already served countless industrial customer needs worldwide, with specific products and solutions this industry needs.



## COLD CHAIN LOGISTICS

The ideal solution for all temperature-controlled transport and storage requirements along the entire cold chain.



## PROCESS COOLING

From industrial processes to data centres and machinery, SRMTec compressors ensure efficient and reliable operation all year round.



## AIR CONDITIONING

Human comfort and well-being in the most varying commercial, residential, and institutional air conditioning applications.



## HEAT PUMPS

All heat pump applications, whether low, medium or high temperature, find their perfect companion with SRMTec compressors.

## WORLDWIDE NETWORK



## SERVICES



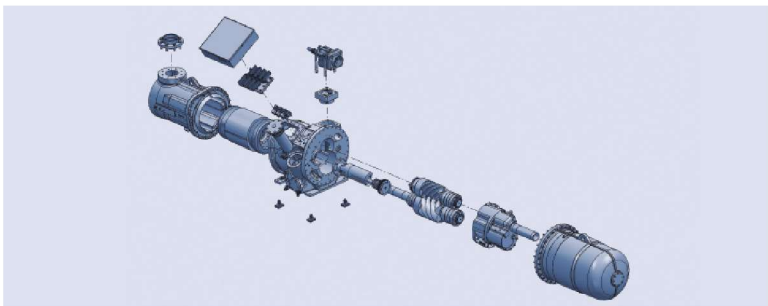
### SELECTION SOFTWARE

Download the selection software



### REFCOMP & SRMTEC SPARE PARTS

- All spare parts of SRMTEC compressors available and revision of old products.
- Worldwide service network to repair Refcomp & SRMTEC compressors.



### TECHNICAL SUPPORT

We help you choose the right product, fit in your application, and we give you assistance after installation.

Phone: +39 0444 726 726  
Email: [info@srmttec.it](mailto:info@srmttec.it)



# SRMTEC

SRM Italy s.r.l. - Via E. Majorana 10/12 - 36045 Lonigo (VI) - Italy - Tel. +39 0444 726726 - Fax. +39 0444 436295 - info@srmtec.it



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