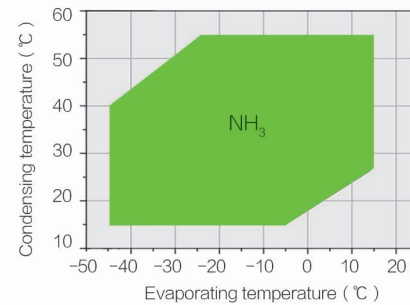


## Application

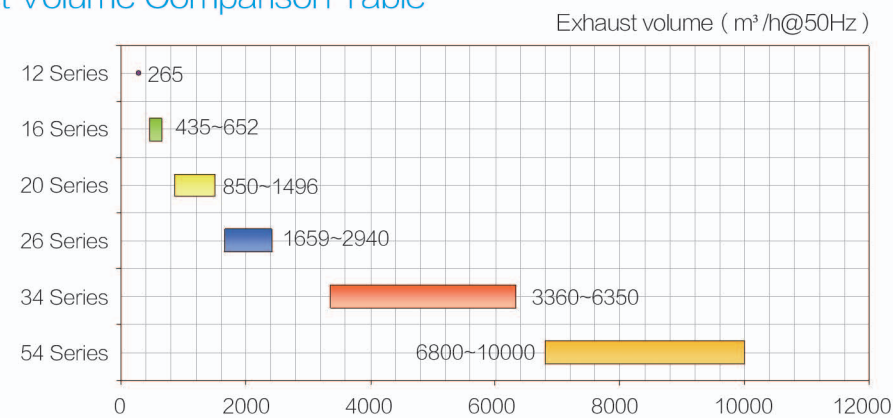
The compressors are widely applied in the petrochemical, pharmaceutical chemical, industrial refrigeration, low-temperature storage, marine refrigeration and other fields.



## Application Scope



## Exhaust Volume Comparison Table



## Technical Parameters

Model	Exhaust volume (m³/h)	Suction port diameter (mm)	Exhaust port diameter (mm)	Dimensions (mm)			Refrigeration volume (kW)	
				Length	Width	Height	NH <sub>3</sub> -35/+35°C	NH <sub>3</sub> -15/+35°C
SRM-12M	265	80	50	877	370	374	57.69	140.3
SRM-16S	435	125	80	1071	480	485	95.73	232.8
SRM-16M	544	125	80	1170	480	485	120.4	294.3
SRM-16L	652	125	80	1232	480	485	145.1	356.6
SRM-20S	850	150	125	1219	532	561	183.1	472.8
SRM-20M	1100	150	125	1292	532	561	239.5	611.9
SRM-20L	1270	150	125	1417	532	561	279.5	706.4
SRM-20LL	1496	150	125	1515	532	561	332.8	835.6
SRM-26S	1659	250	200	1565	645	800	365.1	916.9
SRM-26M	2075	250	200	1637	645	800	461.5	1140.8
SRM-26L	2478	250	200	1706	645	800	551.2	1355.2
SRM-26LL	2940	250	200	1785	645	800	647	1590.7
SRM-34S	3360	350	250	1583	828	1026	739.4	1798.4
SRM-34M	4280	350	250	1765	828	1026	931.8	2265.9
SRM-34L	5084	350	250	1925	828	1026	1096.1	2724.4
SRM-34LL	5938	350	250	2094	828	1026	1368	3380.4
SRM-41S	6804	500	350	2169	1327	1645	1448.2	3560.5
SRM-41M	8410	500	350	2414	1327	1645	1769.1	4349.4
SRM-41L	10850	500	350	2785	1327	1645	2177.1	5119.7

Notes: 1. Speed: 2,960rpm; 2. suction superheat: 5°C;

# SRMTEC

## Open-type Single-stage Screw Compressor

### SRM Sweden

Subsidiary 100% owned by Snowman

The inventor and leader of screw compressor  
100-year legacy of technical quality & energy efficiency



Focus on screw technology  
for one hundred years

More than 3 million screw compressors all over the world  
are technologically licensed by SRM



### SRMTEC

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## Introduction

Snowman SRM open-type single-stage screw compressors offer 19 models in 6 series, with the discharge volume of 265–10,850m<sup>3</sup>/h (at 2,960rpm) and the evaporating temperature ranging from –45°C to +15°C. They are applicable to various natural refrigerants and environment-friendly refrigerants such as R717, R404A, R507A, etc. With the function of 10%–100% stepless energy regulation and the intelligent controller which could achieve accurate positioning and fast response, it can keep energy-efficient operation under different conditions. The design slope is over 30° , which is applicable to marine refrigeration units.



## Housing

- The high-strength nodular cast iron, with the working pressure up to 2.8Mpa;
- Special castings with low temperature resistance guarantee the stable operation under low temperature conditions;
- Optimized design of suction airways, with low suction resistance; little exhaust throttling loss and low energy consumption;
- Integrated oil line system that is easy to install with low failure rate;
- Small machine body with compact structure.



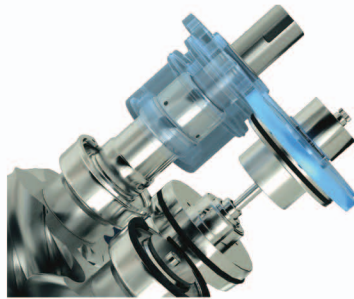
## Rotor

- SRM patent protected "I" profile, 5+7 best tooth mesh, high efficiency, low noise and stable operation.
- Manufactured with quality forged steel, high excellent overall mechanical properties like high strength and wear resistance.
- The rotor is processed to micrometer precision, which grants tight gearing, even stress distribution and a long service life
- Maximum rotating speed is up to 6,000 rpm by the virtue of new technology resulting a significant rise in the refrigeration capacity by 48%.



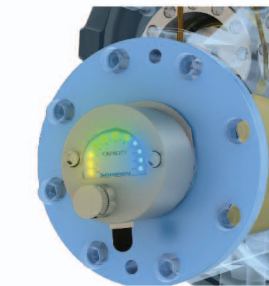
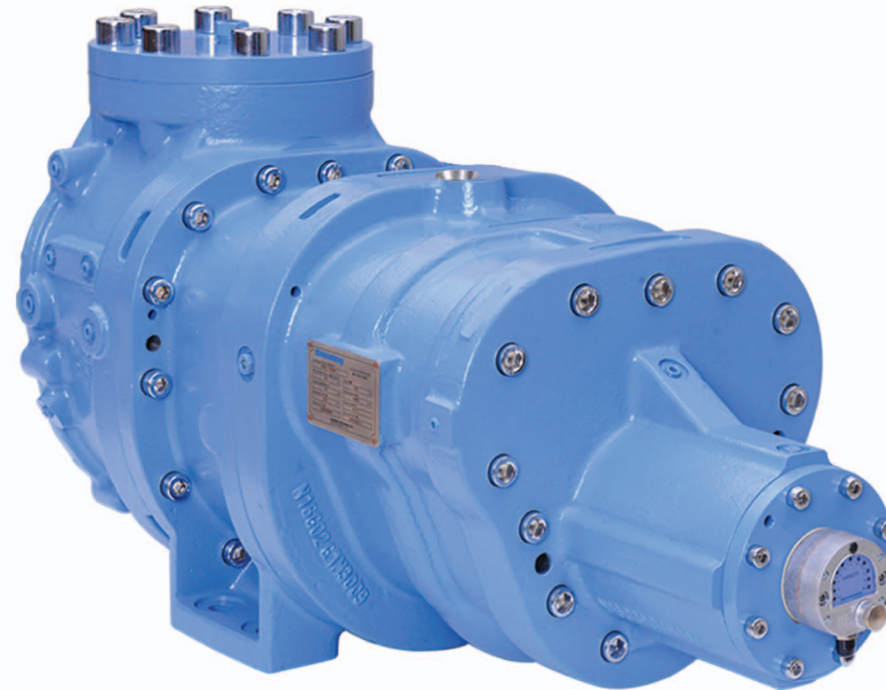
## VI (Interior volume specific ratio)

High-efficiency operation under various conditions with VI (interior volume specific ratio) stepless regulation.



## Shaft Seal

- Innovative shaft seal structure with high reliability;
- Wear resistance super hard sealing surface made of silicon carbide greatly extends its service life;
- It is applicable to compressors operating at a speed up to 10,000 rpm.



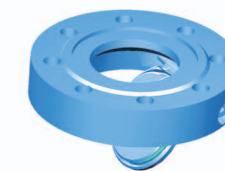
## Energy regulation

- Patented regulation mechanism unique over the world;
- 10%–100% stepless energy regulation and intelligent controller for accurate position and rapid response;
- World unique explosion-proof device for energy regulation cylinder.



## Bearing

- High precision and wear resistance roller bearing, special type linear track with a design service life of 100,000 hrs;
- Cage made of machined special alloy and with large load capacity, ensuring long-term operation under any working condition.



## Check valve

Built-in suction check valves with low resistance to prevent refrigerant oil backflow during downtime.