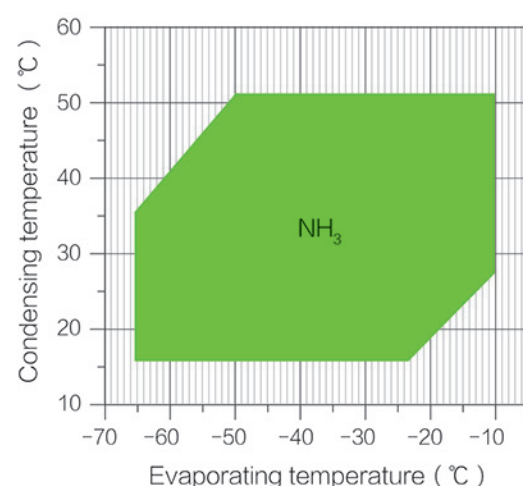


Applications

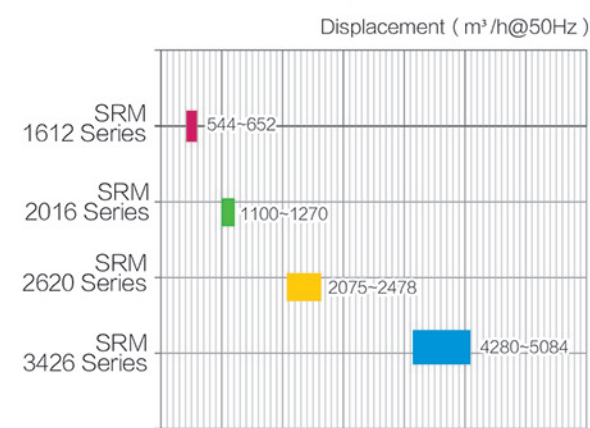
The compressor is widely used in industrial refrigeration, food freezing, cold chain logistics, ship refrigeration, ultra low temperature refrigeration and other fields.



Working Conditions



Displacement Comparison



Technical Parameters

Model	Suction port diameter (mm)	Exhaust port diameter (mm)	Dimensions (mm)			Refrigeration capacity (kW) *	
			Length	Width	Height	NH ₃ -35/+35℃	NH ₃ -50/+35℃
SRM-1612MS	125	65	1445	527	580	134	62
SRM-1612LS	125	65	1495	527	580	161	75
SRM-1612LL	125	65	1568	527	580	168	78
SRM-2016MS	150	80	2104	519	586	283	132
SRM-2016LS	150	80	2153	519	586	328	152
SRM-2016LL	150	80	2253	519	586	327	153
SRM-2620MS	250	125	2656	645	800	544	255
SRM-2620LS	250	125	2725	645	800	650	303
SRM-2620LL	250	125	2923	645	800	650	304
SRM-3426MS	350	200	3030	828	1026	1115	520
SRM-3426LS	350	200	3190	828	1026	1303	609
SRM-3426LL	350	200	3330	828	1026	1307	612

* Refrigeration capacity at the rotational speed of 2,960 rpm and suction superheat of 5℃, and with an intercooler.

SRMTEC

Open-type Compound Two-stage Refrigeration Screw Compressor

SRM Sweden
Wholly-owned subsidiary of 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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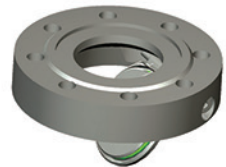
SRMTEC open-type compound two-stage screw compressor

SRMTEC open-type compound two-stage screw compressor covers 12 models in 4 series, with displacement of 544–5,084 m³/h, design pressure of 2.8 MPa and minimum available evaporating temperature of –65°C. The design slope of the compressor is over 30°, which is applicable to vehicles such as ships. With the function of 10% – 100% stepless energy regulation and the intelligent controller which could achieve accurate positioning and fast response, to keep energy-efficient operating in different conditions. The compressor is applicable to various natural refrigerants and environmentally-friendly refrigerants such as R717, R404A, R507A, etc.



Compressor body

- The high-strength housing is made of nodular cast iron, with working pressure up to 2.8 MPa;
- Special low temperature resistant castings guarantee the steady operation under low temperature conditions;
- Optimized design of suction flow path of low suction resistance and sufficient cooling of motor; with straight-through middle gas flue, to reduce the loss along the way; with little exhaust throttling loss and low energy consumption;
- Integrated oil line system that is easy to install with low failure rate;
- Small-sized design and compact structure.



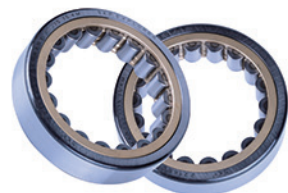
Check valve

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



Coupling

- It adopts couplings with patented built-in rigid gear, featuring good correction capability in axial, radial and angular directions.



Bearing

- Highly precise & wear-resistant rolling element and special type linear raceway with a design service life of 100,000 h;
- Cage of special machined metal for large load capacity to ensure long term running under any working condition.



Rotor

- Patented SRM “i” type profile, with high efficiency and stable operation;
- Rotor manufactured with quality forged steel is of high strength and wear resistance;
- The rotor is processed to micrometer precision with tight gearing, even stress and a long service life;
- Max. speed of 5,000 rpm by virtue of new technology, greatly enhancing refrigeration capacity by exceeding 50%;
- Male and female rotors are arranged vertically to prevent accumulation of refrigerant oil on the motor bottom, which is good for refrigerant to flow around the motor to cool it fully for high operation efficiency.



VI (Interior volume reduction ratio)

- Selectable VI (Interior volume reduction ratio), operation of high efficiency under various working conditions.



Shaft seal

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



Energy regulator

- Stepless energy regulation or stepped energy regulation based on optimal benefit;
- Hybrid regulating of slide valve and plunger with small size and superior performance;
- World unique explosion-proof device for energy regulation cylinder.