

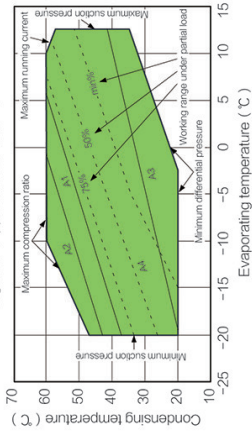
Applications

The compressor can be widely applied to central air-conditioning, concrete cooling and ice-storage projects.



Working Conditions

Figure1 Application of SRC-S



Technical Parameters

Model	Inside diameter of exhaust port (mm)	Inside diameter of suction port (mm)	Dimensions (mm)			Refrigeration capacity (m³/h)		Rated motor power (kW)
			Length	Width	Height	50-Hz	60-Hz	
SRC-S-113	42.2	54.1	1212	430	495	118	142	30
SRC-S-133	42.2	54.1	1212	430	495	150	180	37
SRC-S-163	42.2	54.1	1212	430	495	175	210	45
SRC-S-183	54.1	67.0	1430	489	635	205	246	52
SRC-S-213	54.1	67.0	1430	489	635	237	284	60
SRC-S-255	54.1	80.0	1515.5	504	655	286	343	75
SRC-S-285	54.1	80.0	1515.5	504	655	318	382	82
SRC-S-305	54.1	80.0	1515.5	504	655	341	409	90
SRC-S-353	80.0	92.5	1620	556	763	402	482	105
SRC-S-413	80.0	92.5	1620	556	763	445	534	120
SRC-S-463	80.0	92.5	1620	556	763	510	612	135
SRC-S-503	80.0	105.5	1725	590	814	582	674	150
SRC-S-553	80.0	105.5	1725	590	814	600	720	164
SRC-S-603	80.0	105.5	1725	590	814	700	840	179
SRC-S-755	80.0	105.5	1776	616	819	860	1030	179
SRC-S-785	105.5	134.8	2091	696	874	910	1092	224
SRC-S-885	105.5	134.8	2091	696	874	1000	1200	261
SRC-S-985	105.5	134.8	2091	696	874	1100	1320	291

RefComp

SRC-S Semi-hermetic type Refrigeration Screw Compressor

RefComp Italy

The World Famous Brand for Screw Compressor and Piston Compressor
Subsidiary 100% owned by Snowman

Specialized in Commercial Refrigeration Compressor

25 Years of Exploration in Screw Technology for Energy-saving and Environment-protection.

The First R134a Screw Compressor in the World
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RefComp SRC-S Semi-hermetic Screw Compressor

RefComp SRC-S is a kind of dual-screw compressor with oil spraying design and has 13 models in total. It has discharge volume of 118~1,100 m³/h, and power range of 30~390hp, suitable for refrigerants like R22, R407C, R404A and R507A. It features compact structure, low noise, high efficiency, multiple models and simple installation, meeting the requirements of various high performance/efficiency water cooling, air cooling and heat pump units.



Compressor body

- Working pressure is up to 25 bar;
- Optimized design of suction air ways, low suction resistance and sufficient cooling for motor; straight-through middle airway, reduction of on-way loss; little discharge throttling loss and low energy consumption;
- Compact design and compact structure with integrated filter, check valve and temperature sensor.

Motor

- Adopting part-winding or in the Y-Δ starting method, small starting current, low energy consumption in operation;
- Several operating voltages and frequencies are designed for different areas to meet different voltage demands;
- Special customized materials, compatible with multiple refrigerants, such as R22, R404A, R507A and R410A;
- Special structure design and layout, using over-flow refrigerant gas in the section from air suction check valve to the screw suction side to cool motor effectively.



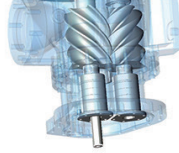
Motor protection

- Part-winding or Y-Δ start-up, with small starting current and low energy consumption in operation;
- Several operating voltages and frequencies are designed for different areas to meet different voltage demands; special customized materials are used to adapt to different requirements;
- System operational information tracking, providing real-time feedback of operating status of the motor and the system.



Bearing

- Multi bearings are combined to prevent the rotor being worn axially/radially and achieve high loads and low noise;
- Highly precise & wear-resistant roller element and special profile line with a designed service-life of 80,000 h.



Suction filter

- Suction filters are configured at an interval of 100 μm to remove cold gas impurities and protect the motor;
- The suction end is arranged in the body outside, compact structure, convenient replacement.



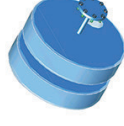
Rotor

- Asymmetric tooth profile at 5/6 for male rotors/female rotors designed by RefComp is used to optimize compression stroke and maintain smooth and quiet operation of the compressor with favorable lubrication and perfect meshing;
- With high efficiency, high strength and low vibration, low gas pulsation and noise made possible through new technologies, our compressors reaching the highest level worldwide among the equivalent;
- The optimized length/diameter ratio design improving the compression efficiency, effectively working for refrigeration in moderate to high temperatures.



Refrigeration capacity control

- Choose different refrigeration capacities based on different working conditions with full load or partial load; control solenoid valves to adjust cooling capacity in a stepped or step-less way;
- The minimum, 50%, 75% and 100% refrigeration capacities are available with stepped control, completely satisfying the various capacity of refrigeration system;
- The sliding valve is installed between the shell and rotor, presenting a reasonable and compact design with superior sealing performance;
- The proper design of discharge port structure improves radial discharge efficiency effectively..



Built-in oil separator

- An built-in oil separator, boasting low-noise design, three-stage separation, multilayer oil mist filters, with oil separating efficiency up to 99.85%;
- Embedded structure, reducing the size of compressor, ensuring there is lubricating oil inside the compressor to keep bearings and rotors lubricated, preventing lubricating oil from entering the refrigeration system.



Check valve

- Built-in discharge check valves with low resistance to prevent refrigerant oil backflow during downtime.
- Air suction/discharge check valves rotate 360° with a compact structure, for easy and flexible installation.



Safety valve

- The built-in safety valve connecting the high pressure side and the low pressure side, ensures the internal pressure does not exceed the safety value;
- Designed with high specifications, reliable sealing, precise opening, fully opening timely, stable discharging and closing timely, safe and reliable.