



Refcomp SRC-S(W)-503 SRC-S-503-L4 Central HVAC Air Conditioning Screw Compressor

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: Refcomp
- Certification: CE
- Model Number: SRC-S(W)-503, SRC-S-503-L4
- Minimum Order Quantity: 1
- Price: Discussed
- Packaging Details: WOODEN CASE
- Delivery Time: 1 Month
- Payment Terms: Western Union, T/T
- Supply Ability: 100000Pcs/Year



Product Specification

- Displacement 50/60Hz: 562/674 M3/hr
- Oil Charge: 19L
- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Refrigerant: R22, R407C, R410a, R404A, R507A
- Rated Power: 180HP/135KW
- Highlight: **Refcomp SRC-S-503 Screw Compressor, Central HVAC Screw Compressor, Refrigeration Screw Compressor**



More Images



Product Description

Product Description

- High-Efficiency Rotor Geometry:** Patented rotor profile design ensures smooth engagement and continuous gas flow, delivering optimal compression efficiency for commercial HVAC installations.
- Flexible Stepless Capacity Control:** Supports 4-step capacity regulation (100%, 75%, 50%, 25%) and continuous stepless modulation to handle varying cooling loads efficiently.
- Integrated Multi-Stage Oil Separation:** Built-in internal oil separator achieves up to 99.85% separation efficiency, keeping system heat exchangers clean and maintaining high heat transfer efficiency.
- Advanced Motor Protection Module:** Features an INT69 SNY protection module integrated with 6 series PTC thermistors for continuous real-time thermal monitoring of motor coils and discharge gas.

Product Image



Technical Specification

Parameter	SRC-S(W)-503	SRC-S-503-L4
Rated power	180HP / 135KW	
Exhaust volume (50Hz / 60Hz)	562 / 674 m³/hr	
Refrigerant Type	R22, R407C, R410a, R404A, R507A	
Weight	1010 KG	
Oil Charge	19 L	
Voltage	400/3/50Hz – 460/3/60Hz	
Cooling Capacity Regulation	100%, 75%, 50%, 25% (stepless 100%–25%)	
LRA Y/Δ	453 / 1333A	543 / 1645A

Model SRC-S(W)			353	413	463	503	553	603	755	785	885	985	
Standard Motor Power		HP/kW	120/90	140/105	160/120	180/135	200/150	220/164	220/164	240/179	270/201	300/224	
Displacement 50/60[Hz]		m³/h	402/482	445/534	510/612	562/674	600/720	700/840	860/1030	910/1092	1000/1200	1100/1320	
Weight		kg	730	740	775	1010	1030	1020	980	1400	1400	1400	
Oil Charge		dm³	14		16	19		20	23	25			
Electrical Heater			275W-230V-50/60Hz										
Discharge pipe inner diameter/pipe size		mm	80.0/3-1/8"							105.5/4-1/8"			
Suction pipe inner diameter/pipe size		mm	92.5/3-5/8"			105.5/4-1/8"				134.8/0133			
Liquid Injection Connection		mm	10(copper pipe)										
Economizer Connection		mm	28			42		28	42				
Cooling Capacity Regulation			100%,75%,50%,25%(stepless 100%-25%)										
Protection Device			INT69 SNY										
Lubricating Oil			R22:S001,R407C、R404A、R507:S002										
Compressor Positioning Hole			4×Ø19										
Standard Motor			400/3/50Hz-460/3/60Hz										
Y/Δ	SRC-S-W	LRA Y	A	276	354	374	453	543	543	595	783	876	1062
		LRA Δ	A	876	1155	1155	1333	1645	1645	1802	2348	2627	3186
		FLA	A	195	210	230	265	290	320	418	475	540	590
	SRC-S	LRA Y	A	354	374	453	543	595	595	595	876	1062	1062
		LRA Δ	A	1155	1155	1333	1645	1802	1802	1802	2627	3186	3186
		FLA L	A	225	245	270	300	334	400	418	520	590	650

FAQ

Q: What information should be submitted for technical selection of the SRC-S(W)-503 (SRC-S-503-L4) HVAC screw compressor?

A: Provide target cooling capacity, design evaporating and condensing temperatures, target refrigerant type, power supply standards, and whether an economizer loop or liquid injection is required.

Q: What crucial pre-start checks ensure safe initial commissioning of this unit?

A: Pre-heat the oil sumps via the 275W heater prior to start-up to clear liquid refrigerant, verify phase rotation for correct rotor spinning, and check that oil level and filter cleanliness meet startup standards.

Q: How does the built-in INT69 SNY protection system operate during high thermal loads?

A: The INT69 SNY module constantly processes temperature signals from six series-connected PTC sensors inside the motor coils and discharge port, tripping the control relay if limits are exceeded.

Q: What routine maintenance should be performed to maintain lubrication stability and compressor lifespan?

A: Monitor oil level clarity through the sight glass, inspect suction filter pressure drop, test oil quality periodically for viscosity loss, and inspect electrical connections on the terminal box.

 **Shenzhen Coolstart Refrigeration Equipment Co., Ltd**

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