



Refcomp SRC-S(W)-553 SRC-S-553-L4 Refrigeration Screw Compressor for HVAC Cold Room

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Refcomp
- Certification: CE
- Model Number: SRC-S(W)-553, SRC-S-553-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: 600/720 M3/hr
- Oil Charge: 19L
- Rated Power: 200HP/150KW
- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Refrigerant: R22, R407C, R410a, R404A, R507A
- Highlight: **Refcomp SRC-S-553 screw compressor, HVAC refrigeration screw compressor, cold room screw compressor**



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Product Description

Product Overview

- High-Efficiency Rotor Geometry:** Patented asymmetric rotor profile ensures smooth meshing and continuous gas displacement, delivering robust compression performance for heavy-duty screw compressor HVAC applications.
- Flexible Stepless Capacity Regulation:** Provides 4-step capacity control (100%, 75%, 50%, 25%) and continuous stepless modulation to match high-capacity chiller loads precisely in a screw compressor HVAC system.
- Integrated Multi-Stage Oil Separation:** Built-in internal oil separator achieves up to 99.85% separation efficiency, minimizing oil carryover and maintaining optimal heat exchange performance in large screw compressor HVAC units.
- Advanced Motor Thermal Protection:** Equipped with an INT69 SNY protection module and six embedded PTC thermistors for real-time monitoring of motor coils and discharge gas temperatures.

Product Image



Technical Specification

Model	SRC-S(W)-553	SRC-S-553-L4
Rated power	200HP / 150KW	
Exhaust volume (50Hz / 60Hz)	600 / 720 m³/hr	
Refrigerant Type	R22, R407C, R410a, R404A, R507A	
Weight	1030 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	543 / 1645A	595 / 1802A

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

Frequently Asked Questions

Q: What design guidelines should be followed when sizing suction and discharge headers for the SRC-S(W)-553 (SRC-S-553-L4) compressor?

A: Piping must match the 105.5 mm (4-1/8") suction line and 80.0 mm (3-1/8") discharge connection to prevent pressure drops and ensure smooth refrigerant flow.

Q: How does the slide valve control mechanism operate during variable chiller load demands?

A: The hydraulic slide valve shifts via solenoid valves to provide stepped control at 100%, 75%, 50%, and 25%, or continuous stepless modulation across the 100% to 25% range.

Q: What pre-start electrical checks are necessary before energizing the 220 HP motor?

A: Verify that the 275W crankcase heater has been energized to evaporate liquid refrigerant, check phase rotation sequence, and confirm proper wiring of the INT69 SNY protection module.

Q: What routine maintenance practices ensure reliable long-term oil management in this high-capacity unit?

A: Regularly monitor oil level visibility through the sight glass, inspect suction strainer cleanliness, and periodically test lubricant viscosity and acidity.

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