

Refcomp SW3L-6000 60HP R22 R404A Semi-Hermetic Screw Type Refrigeration Compressor

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Refcomp
- Certification: CE
- Model Number: SW3L-6000
- Minimum Order Quantity: 1
- Price: Discussed
- Packaging Details: WOODEN CASE
- Delivery Time: 1 Month
- Payment Terms: Western Union,T/T
- Supply Ability: 10000Pcs/Year



Product Specification

- Voltage: 400V/3/50Hz, 460/3/60Hz
- Refrigerant: R22, R134a, R507, R404A, R407C, R410a
- Displacement: 205/246 M3/hr
- Rated Power: 60HP/45KW
- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Highlight: **SW3L-6000 screw refrigeration compressor**, **60HP semi-hermetic screw compressor**, **R22 R404A screw compressor**



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Our Product Introduction

Product Description

Product Overview

The Refcomp SW3L-6000 is a 60HP semi-hermetic screw type refrigeration compressor engineered for reliable performance with R22 and R404A refrigerants. Its asymmetric rotor geometry, compact housing, and integrated protection module deliver efficient compression, flexible installation, and dependable long-term operation.

Key Features

Optimized Asymmetric Rotor Design

The SW3L-6000 screw type refrigeration compressor features RefComp's asymmetric 5/6-tooth rotor profile, promoting smooth rotor engagement and reduced vibration. Its optimized geometry helps improve compression efficiency and supports stable mechanical operation.

Compact Housing & Improved Gas Flow

This semi-hermetic screw compressor combines key components within a compact housing, simplifying equipment layout and system integration. Optimized internal gas passages help reduce suction resistance and flow losses, supporting smoother refrigerant circulation.

Flexible Piping & Backflow Prevention

The RefComp screw compressor features 360° rotatable suction and discharge shut-off valves, making piping arrangements more flexible for different installation layouts. An integrated discharge check valve also helps prevent refrigerant backflow during shutdown.

Intelligent Motor Monitoring & Protection

The INT69 SNY module works with PTC temperature sensors to monitor motor overheating, reverse phase sequence and phase loss. Operating-status feedback helps identify abnormal conditions, supporting faster troubleshooting and reducing the risk of motor damage.

Product Image



Technical Specifications

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Model	SW3L-6000
Rated Power	60HP / 45KW
Displacement (50/60Hz)	205 / 246 m³/hr
Weight	410 KG
Capacity Regulation	25%, 50%, 75%, 100% 4-step; 25%–100% stepless
Standard Motor	Y/△ – 400V/3/50Hz – 460V/3/60Hz
Star/Delta Start Current	139 / 422 A
Max Operating Current	103 A

Model		SW3L(Low Temperature)						
		3000	4000	5000	6000	7000	8000	9500
Nominal Power	HP/KW	30/22	40/30	50/37	60/45	70/52	80/60	95/71
Displacement 50/60Hz	m^3/hr	118/142	150/180	175/210	205/246	237/284	286/343	318/382
Weight	Kg	245	255	265	410	420	520	525
Discharge Pipe Inner Diameter	mm / in	42/(1-5/8")	42/(1-5/8")	42/(1-5/8")	54/(2-1/8")	54/(2-1/8")	54/(2-1/8")	54/(2-1/8")
Suction Pipe Inner Diameter	mm / in	54/(2-1/8")	54/(2-1/8")	54/(2-1/8")	67/(2-5/8")	67/(2-5/8")	80/(3-1/8")	80/(3-1/8")
Oil Line Connector	mm / in	Φ16mm / (5/8")SAE						
Capacity Regulation		25%, 50%, 75%, full load 4-step regulation or 25%~full load stepless regulation						
Protection Module		INT69 SNY						
Standard Motor		Y/△ - 400V/3/50Hz - 460/3/60Hz						
Star/Delta Start Current	A	110/331	131/398	134/406	139/422	139/459	223/670	318/953
Max Operating Current	A	65	80	88	103	117	139	154

Frequently Asked Questions

Q1: How do I select the SW3L-6000 for low-temperature refrigeration?

When selecting a screw type refrigeration compressor, provide the required cooling capacity, refrigerant, evaporating and condensing temperatures, power supply and expected load conditions. Verify that the model operates within the approved system requirements before ordering.

Q2: How should I choose the appropriate capacity control configuration?

For a variable capacity screw compressor, stepped regulation suits systems with defined load stages, while stepless regulation allows finer output adjustment. Confirm the required control mode and its compatibility with the refrigeration controller before ordering.

Q3: What should be checked in the lubrication system before commissioning?

The SW3L series does not include an internal oil separator, so an appropriate external oil separation and return arrangement is required. Check the oil connections, filtration and flow-monitoring devices against the system design before startup.

Q4: What should I consider when replacing an existing compressor?

When replacing a screw type refrigeration compressor, compare the mounting dimensions, suction and discharge connections, oil-line fittings, motor starter and capacity-control interface. These checks help identify potential compatibility issues before installation.

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