

Refcomp SW3L-5000 50HP 37KW Refrigeration Semi-Hermetic Screw AC Compressor

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Refcomp
- Certification: CE
- Model Number: SW3L-5000
- 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

- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Voltage: 400V/3/50Hz, 460/3/60Hz
- Refrigerant: R22, R134a, R507, R404A, R407C, R410a
- Rated Power: 50HP/37KW
- Displacement: 175/210 M3/hr
- Highlight: **Refcomp SW3L-5000 screw compressor**, **50HP 37KW semi-hermetic compressor**, **semi-hermetic refrigeration AC compressor**



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Our Product Introduction

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Product Description

Product Overview

The Refcomp SW3L-5000 is a 50 HP (37 kW) semi-hermetic screw compressor engineered for refrigeration and process cooling applications. It combines flexible capacity regulation, integrated pressure protection, precision bearing support and efficient motor starting to deliver dependable continuous operation.

Key Features

Flexible Capacity Regulation

The SW3L-5000 offers stepped or stepless capacity control configurations to accommodate changing cooling demands. Its slide-valve mechanism matches compressor output to actual system loads, reducing unnecessary full-capacity operation.

Integrated Pressure Safety Protection

An internal safety valve connects the high- and low-pressure sides of the compressor. Its precise opening and reliable reset help protect internal components against excessive pressure differences during abnormal operating conditions.

Precision Multi-Bearing Support

The multi-bearing arrangement supports axial and radial loads while maintaining stable rotor alignment. Precision fitting and effective lubrication reduce friction, vibration and operating noise, limiting mechanical wear during continuous operation.

Efficient Motor Starting & Cooling

Partial-winding starting reduces initial electrical demand compared with direct-on-line starting. The suction-gas cooling arrangement removes motor heat during operation, helping maintain stable motor temperatures and supporting reliable performance.

Product Image



Refcomp SW Series Screw Compressor

Technical Specification

Model	SW3L-5000
Rated power	50HP / 37KW
Displacement 50/60Hz	175 / 210 m³/hr
Weight	265 KG
Capacity Regulation	25%, 50%, 75%, 100% 4-step; 25%–100% stepless
Standard Motor	Y/Δ – 400V/3/50Hz – 460/3/60Hz
Star/Delta Start Current	134 / 406 A
Max operating current	88 A

Dimension Drawing

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/Δ - 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: Can the SW3L-5000 be used in an air-conditioning system?

Before using this screw AC compressor in an air-conditioning system, verify that the required refrigerant, cooling capacity, evaporating temperature and condensing temperature fall within the approved operating range. The SW3L series is primarily intended for low-temperature refrigeration and process cooling.

Q2: What should be confirmed when integrating the capacity control system?

For a screw compressor in refrigeration systems, the controller must match the selected stepped or stepless capacity-control configuration. Confirm the control signals, solenoid-valve connections and operating logic before commissioning.

Q3: What should I consider when designing the compressor lubrication system?

This 50 HP screw compressor requires an appropriately matched external oil separation and return arrangement. Verify the oil filter, flow monitoring and lubrication connections against the manufacturer's installation requirements to ensure proper oil circulation.

Q4: What should I check if the motor protection module triggers an alarm?

If the screw AC compressor stops following an INT69 SNY alarm, inspect the motor temperature, power supply, phase sequence and protection wiring. Identify and correct the underlying fault before restarting the compressor.

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