

Refcomp SW3L-8000 80HP 60KW Semi-Hermetic Screw Type Compressor for Ice Maker

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Refcomp
- Certification: CE
- Model Number: SW3L-8000
- 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

- Rated Power: 80HP/60KW
- Voltage: 400V/3/50Hz, 460/3/60Hz
- Displacement: 286/343 M3/hr
- Refrigerant: R22, R134a, R507, R404A, R407C, R410a
- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Highlight: **Refcomp SW3L-8000 screw compressor**, **80HP semi-hermetic compressor**, **60KW compressor for ice maker**



More Images



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Our Product Introduction

Product Description

Product Overview

Optimized Asymmetric Rotor Design

RefComp's asymmetric 5/6-tooth rotor profile helps the twin screw compressor achieve smoother rotor engagement and reduced vibration. Its optimized geometry supports efficient compression and stable mechanical operation in low-temperature refrigeration systems.

Compact Housing & Improved Gas Flow

The SW3L-8000 semi-hermetic screw type compressor features optimized internal gas passages that help reduce suction resistance and flow losses. Its integrated housing brings key components together, simplifying equipment layout while supporting smoother refrigerant flow.

Built-in High-Precision Suction Filter

The integrated 100 µm suction filter removes impurities from incoming refrigerant gas before they reach the motor. This helps protect internal components from contamination and reduces the risk of damage caused by foreign particles.

Flexible Valve Connections & Backflow Protection

The RefComp screw compressor features 360° rotatable suction and discharge shut-off valves for more flexible pipe routing and easier installation. An integrated discharge check valve also helps prevent refrigerant backflow during shutdown.

Product Image



Technical Specification

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Model	SW3L-8000
Rated power	80HP / 60KW
Displacement 50/60Hz	286 / 343 m³/hr
Weight	520 KG
Capacity Regulation	25%, 50%, 75%, 100% 4-step; 25%–100% stepless
Standard Motor	Y/△ – 400V/3/50Hz – 460/3/60Hz
Star/Delta Start Current	223 / 670 A
Max operating current	139 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

FAQ

Q1: How do I select the SW3L-8000 for a low-temperature refrigeration system?

When selecting a semi-hermetic screw type compressor, provide the required cooling capacity, refrigerant, evaporating and condensing temperatures, power supply and expected load conditions. Verify that the operating requirements fall within the compressor's approved application range.

Q2: What should I consider when choosing a capacity-control configuration?

For a screw compressor for refrigeration systems, the choice between stepped and stepless capacity regulation depends on load variation and controller requirements. Confirm the selected control mode, signal compatibility and slide-valve arrangement before ordering.

Q3: What should be checked in the oil circuit before commissioning?

Verify that the oil separation and return arrangement meets the compressor's lubrication requirements. Check oil-line connections, filtration and flow-protection devices according to the manufacturer's installation instructions to help ensure reliable oil circulation.

Q4: What should be checked if the compressor fails to start?

If the semi-hermetic screw type compressor does not start, check the power supply, motor starter, phase sequence and INT69 SNY protection module for fault indications. Identify and correct the underlying problem before attempting another startup.

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