

Refcomp SW3L-3000 30HP Low Temperature Refrigeration Screw Semi-Hermetic Compressor

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Refcomp
- Certification: CE
- Model Number: SW3L-3000
- 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

- Refrigerant: R22, R134a, R507, R404A, R407C, R410a
- Displacement: 118/142 M3/hr
- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Rated Power: 30HP/22KW
- Voltage: 400V/3/50Hz, 460/3/60Hz
- Highlight: **Refcomp SW3L-3000 screw compressor**, **30HP semi-hermetic compressor**, **low temperature refrigeration compressor**



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Our Product Introduction

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Product Description

Product Overview

The Refcomp SW3L-3000 is a 30HP (22KW) low-temperature semi-hermetic screw compressor engineered for reliable refrigeration performance. It combines flexible capacity regulation, integrated pressure safety protection, precision multi-bearing construction and intelligent motor monitoring to support stable operation across demanding cooling applications.

Key Features

Flexible Capacity Regulation

The SW3L-3000 semi-hermetic screw compressor supports stepped or stepless capacity control configurations. Its slide-valve mechanism allows output to follow changing cooling loads, improving load matching and reducing unnecessary full-capacity operation.

Built-in Pressure Safety Protection

The integrated safety valve connects the high- and low-pressure sides to help prevent excessive internal pressure differences. Precise opening and reliable reset provide additional protection during abnormal operating conditions, helping reduce the risk of pressure-related damage.

Precision Multi-Bearing Design

Multiple bearing assemblies support axial and radial loads while maintaining stable rotor alignment. High-precision fitting and effective lubrication help reduce friction, vibration and mechanical noise, supporting smooth operation and limiting component wear.

Intelligent Motor Protection

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

Product Image



Technical Specification

Model	SW3L-3000
Rated power	30HP / 22KW
Displacement 50/60Hz	118 / 142 m³/hr
Weight	245 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	110 / 331 A
Max operating current	65 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 check whether the SW3L-3000 is suitable for my refrigeration system?

When selecting a low-temperature screw compressor, provide the required cooling capacity, refrigerant, evaporating and condensing temperatures, power supply and expected load conditions. These details help confirm whether this semi-hermetic screw compressor operates within the required system range.

Q2: What should be checked in the oil circuit before commissioning?

For a screw compressor for refrigeration systems, verify the oil-line connections, filter condition, solenoid valve operation and oil-flow monitoring according to the supplied configuration. Proper oil circulation is essential for bearing lubrication and reliable compressor operation.

Q3: What electrical requirements should be confirmed before installation?

Before commissioning this 30 HP screw compressor, confirm that the site power supply matches the motor specifications. Check the partial-winding starter configuration, phase sequence and electrical protection connections against the manufacturer's wiring diagram.

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

If the semi-hermetic screw compressor stops following an INT69 SNY alarm, inspect the indicated fault, motor temperature, phase condition and protection wiring. Identify and correct the underlying problem before restarting the compressor.

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