

Refcomp SW3H-9000 90HP Semi-Hermetic Screw Compressor for Cold Room

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Refcomp
- Certification: CE
- Model Number: SW3H-9000
- 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: 90HP/67KW
- Refrigerant: R22, R134a, R507, R404A, R407C, R410a
- Displacement: 237/284 M3/hr
- Voltage: 400V/3/50Hz, 460/3/60Hz
- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Highlight: **Refcomp SW3H-9000 screw compressor**, **90HP semi-hermetic compressor**, **screw compressor for cold room**



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Our Product Introduction

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Product Description

Product Overview

The Refcomp SW3H-9000 is a 90HP semi-hermetic screw compressor engineered for cold room and industrial refrigeration applications. It combines optimized refrigerant flow, reliable internal pressure protection, precision bearing support, and efficient motor starting and cooling to deliver stable, long-term performance.

Key Features

Optimized Housing & Refrigerant Flow

The SW3H-9000 semi-hermetic screw compressor features optimized internal gas passages that reduce intake resistance and flow losses. Its compact, integrated housing supports smoother refrigerant flow while simplifying equipment layout and component integration.

Reliable Internal Pressure Protection

The built-in safety valve connects the high- and low-pressure sides, helping protect the compressor against excessive internal pressure differences. Its precise opening and reset provide an additional safeguard during abnormal operating conditions.

Precision Multi-Bearing Support

A carefully arranged bearing system handles axial and radial loads, helping maintain stable rotor alignment. Precision fitting and effective lubrication reduce friction and mechanical noise, supporting smoother operation and minimizing wear on critical components.

Efficient Motor Starting & Cooling

This high-temperature screw compressor uses star-delta starting to reduce initial motor current compared with direct-on-line starting. Suction-gas cooling helps remove motor heat, supporting stable operating temperatures and more manageable electrical demand.

Product Image



Technical Specifications

Model	SW3H-9000
Rated Power	90HP / 67KW
Displacement (50/60Hz)	237 / 284 m³/hr
Weight	420KG
Capacity Regulation	25%, 50%, 75%, 100% 4-step; 25%–100% stepless
Standard Motor	Y/△ – 400V/3/50Hz – 460/3/60Hz
Star/Delta Start Current	193 / 580A
Max Operating Current	140A

Model		SW3H(High Temperature)							
		4000	5000	6000	7500	9000	10500	11500	12500
Nominal Power	HP/KW	40/30	50/37	60/45	75/55	90/67	105/78	115/89	125/89
Displacement 50/60Hz	m^3/hr	118/142	150/180	175/210	205/246	237/284	286/343	318/382	341/409
Weight	Kg	245	255	265	410	420	535	540	545
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")	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")	80/(3-1/8")
Oil Line Connector	mm / in	Φ16mm / (5/8")SAE							
Capacity Regulation		25%, 50%, 75%, 100% 4-step regulation or 25%~100% stepless regulation							
Protection Module		INT69 SNY							
Standard Motor		Y/△ - 400V/3/50Hz - 460/3/60Hz							
Star/Delta Start Current	A	131/398	134/406	182/547	139/459	193/580	338/1015	318/953	318/953
Max Operating Current	A	75	90	105	124	140	180	182	196

Frequently Asked Questions

Q1: How do I determine whether the SW3H-9000 is suitable for my refrigeration system?

When selecting a semi-hermetic screw compressor, provide the required cooling capacity, refrigerant, evaporating and condensing temperatures, power supply, and expected load conditions. Confirm the compressor's operating range rather than selecting by horsepower alone.

Q2: What should be checked before commissioning the SW3H-9000?

Before starting this 90HP screw compressor, verify the oil circuit, suction and discharge valve positions, motor wiring, phase sequence, and safety controls. Follow the commissioning instructions to reduce the risk of startup faults.

Q3: What should I do if the INT69 SNY motor protection module triggers an alarm?

If the semi-hermetic screw compressor trips, check the indicated fault and inspect motor temperature, phase sequence, phase loss, and protection wiring. Identify and correct the underlying problem before resetting the protection module.

Q4: What should I consider when replacing an existing compressor with the SW3H-9000?

For a refrigeration screw compressor replacement, compare the mounting dimensions, suction and discharge connections, oil-line fittings, and capacity-control interface. Verify controller compatibility and available installation space before proceeding.

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