

Refcomp SW3H-5000 50HP R407C Commerical Refrigeration HVAC Screw Compressor

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Refcomp
- Certification: CE
- Model Number: SW3H-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
- Refrigerant: R22, R134a, R507, R404A, R407C, R410a
- Rated Power: 50HP/37KW
- Displacement: 150/180 M3/hr
- Voltage: 400V/3/50Hz, 460/3/60Hz
- Highlight: **Refcomp SW3H-5000 screw compressor**, **50HP R407C refrigeration compressor**, **semi hermetic HVAC compressor**



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Our Product Introduction

Product Description

Product Overview

The Refcomp SW3H-5000 is a 50 HP semi-hermetic screw compressor engineered for commercial refrigeration and HVAC applications using R407C refrigerant. Its design emphasizes efficient gas flow, durable bearing support, reliable filtration, and stable motor operation.

Key Design Features

Integrated Housing & Optimized Gas Flow

Optimized internal gas passages reduce intake resistance and flow losses. The compact, integrated housing supports smoother refrigerant flow while simplifying the overall compressor structure.

Precision Multi-Bearing Support

A combination of bearings handles axial and radial loads, while precision fitting and effective lubrication help reduce friction and mechanical noise. This arrangement supports smooth rotor movement and helps minimize wear on critical components.

High-Precision Suction Filtration

The integrated 100 μm suction filter captures 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.

Efficient Motor Starting & Cooling

The semi-hermetic screw compressor uses star-delta starting to reduce initial motor current. Its suction-gas-cooled motor design supports effective heat removal, helping manage electrical demand during startup and maintain stable motor operation.

Product Image



Technical Specifications

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Model	SW3H-5000
Rated Power	50 HP / 37 kW
Displacement (50/60 Hz)	150 / 180 m³/hr
Weight	255 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	134 / 406 A
Max Operating Current	90 A

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-5000 is suitable for my HVAC system?

When selecting an HVAC screw compressor, provide the required cooling capacity, refrigerant, evaporating and condensing temperatures, and power supply. As a high-temperature series model, its operating range should be verified against the actual system requirements.

Q2: What should be checked before connecting the compressor motor?

For this 50 HP screw compressor, confirm that the power supply matches the motor specifications and that the star-delta starter is correctly configured. Check the phase sequence, electrical protection, and wiring connections before commissioning.

Q3: How can contamination be prevented during compressor installation?

Before starting the HVAC screw compressor, ensure the suction piping is clean and free from installation debris. Proper system cleaning and filtration help prevent foreign particles from entering the compressor during initial operation.

Q4: What should I consider when replacing an existing compressor with the SW3H-5000?

When replacing a screw compressor for HVAC systems, compare mounting dimensions, suction and discharge connections, oil-line requirements, electrical supply, and control compatibility. Confirm these details against the equipment drawings before installation.

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