

Refcomp SW3H-6000 60HP R410a Semi-Hermetic Screw Compressor for HVAC System

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Refcomp
- Certification: CE
- Model Number: SW3H-6000
- 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
- Voltage: 400V/3/50Hz, 460/3/60Hz
- Displacement: 175/210 M3/hr
- Rated Power: 60HP/45KW
- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Highlight: **SW3H-6000 semi-hermetic screw compressor**, **60HP R410a screw compressor**, **semi-hermetic compressor for HVAC**



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Our Product Introduction

Product Description

Product Overview

The Refcomp SW3H-6000 is a 60HP (45kW) semi-hermetic screw compressor designed for R410a HVAC systems. It combines internal pressure protection, flexible capacity regulation, a precision multi-bearing design and intelligent motor protection to deliver stable, efficient performance under varying load conditions.

Key Features

Reliable Internal Pressure Protection

The SW3H-6000 features an internal safety valve connecting the high- and low-pressure sides. Its precise opening and reset help protect the semi-hermetic screw compressor against excessive internal pressure differences, adding an important safeguard during abnormal operating conditions.

Flexible Capacity Regulation

For screw compressor HVAC systems with variable cooling demand, the SW3H-6000 offers four-step or stepless capacity control. This allows compressor output to follow changing loads, reducing unnecessary full-capacity operation and improving system load matching.

Precision Multi-Bearing Design

The carefully arranged bearing system accommodates both axial and radial loads, helping maintain stable rotor movement. Precision fitting and effective lubrication reduce mechanical friction and operating noise, supporting reliable operation and minimizing wear on critical components.

Intelligent Motor Protection

The INT69 SNY protection module monitors motor overheating, reverse phase sequence and phase loss. Combined with motor temperature sensors and operating-status feedback, it helps prevent electrical damage and makes abnormal operating conditions easier to identify.

Product Image



Technical Specification

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Model	SW3H-6000
Rated power	60HP / 45KW
Displacement 50/60Hz	175 / 210 m³/hr
Weight	265KG
Capacity Regulation	25%, 50%, 75%, 100% 4-step; 25%–100% stepless
Standard Motor	Y/△ – 400V/3/50Hz – 460V/3/60Hz
Star/Delta Start Current	182 / 547A
Max operating current	105A

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

FAQ

Q1: What information is required to select the SW3H-6000 for an HVAC system?

For screw compressor HVAC selection, provide the required cooling capacity, refrigerant, evaporating and condensing temperatures, power supply and expected load conditions. These details help determine whether the compressor matches the system's operating requirements.

Q2: What should be considered when connecting the compressor to an existing refrigeration system?

When integrating this refrigeration screw compressor, check the suction and discharge piping connections, oil-line arrangement, mounting dimensions and available service space. Confirm compatibility with the existing system drawings before installation.

Q3: What electrical checks are necessary before commissioning?

For this 60 HP screw compressor, verify that the site power supply matches the motor specifications and that the star-delta starter is correctly wired. Check the phase sequence, protection circuit and electrical connections before startup.

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

During screw compressor HVAC operation, check the motor temperature, phase sequence, power supply and protection wiring if the INT69 SNY module signals a fault. Identify and resolve the underlying problem before restarting the compressor.

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