

Refcomp SW3H-16000 170HP Refrigeration Semi-Hermetic Screw Type Compressor

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Refcomp
- Certification: CE
- Model Number: SW3H-16000
- 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
- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Displacement: 445/534 M3/hr
- Rated Power: 170HP/127KW
- Voltage: 400V/3/50Hz, 460/3/60Hz
- Highlight: **Refcomp SW3H-16000 screw compressor**, **170HP semi-hermetic refrigeration compressor**, **SW3H-16000 semi-hermetic compressor**



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Our Product Introduction

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Product Description

Product Overview

The Refcomp SW3H-16000 is a 170 HP semi-hermetic screw type refrigeration compressor engineered for reliable, efficient performance in demanding cooling systems. Its design combines optimized rotor geometry, precision bearing support, and flexible installation features to deliver stable operation across varying refrigeration loads.

Key Features

Optimized Asymmetric Rotor Design

The SW3H-16000 features RefComp's asymmetric 5/6-tooth rotor profile and optimized rotor geometry. This design promotes smooth engagement, reduces vibration, and helps improve compression efficiency during operation.

Precision Multi-Bearing Arrangement

A multi-bearing arrangement supports axial and radial loads, helping maintain stable rotor alignment. Precision fitting and effective lubrication reduce mechanical friction and operating noise, supporting smoother operation and reduced component wear.

Flexible Piping & Backflow Protection

The 360° rotatable suction and discharge shut-off valves allow installers to adjust piping orientation according to equipment layout. An integrated discharge check valve also helps prevent refrigerant backflow during shutdown, providing additional system protection.

Efficient Motor Starting & Cooling

Star-delta starting helps reduce the initial motor current compared with direct-on-line starting, lowering electrical demand during startup. The suction-gas-cooled motor design supports effective heat removal and stable motor operation under varying refrigeration loads.

Product Image



Technical Specifications

Model	SW3H-16000
Rated Power	170 HP / 127 kW
Displacement (50/60 Hz)	445 / 534 m³/hr
Weight	675 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	374 / 1155 A
Max Operating Current	270 A

Model		SW3H(High Temperature)					
		14000	16000	19000	21000	24000	25000
Nominal Power	HP/KW	150/112	170/127	200/149	220/164	240/179	240/179
Displacement 50/60Hz	m^3/hr	402/482	445/534	510/612	562/674	600/720	700/840
Weight	Kg	665	675	710	1030	1050	980
Discharge Pipe Inner Diameter	mm / in	80/ (3-1/8")	80/ (3-1/8")	80/ (3-1/8")	80/ (3-1/8")	80/ (3-1/8")	80/ (3-1/8")
Suction Pipe Inner Diameter	mm / in	92/ (3-5/8")	92/ (3-5/8")	92/ (3-5/8")	104.8/ (4-1/8")	104.8/ (4-1/8")	104.8/ (4-1/8")
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	354/1155	374/1155	453/1333	543/1645	595/1802	595/1802
Max Operating Current	A	249	270	305	335	360	410

Frequently Asked Questions

Q1: How do I determine whether the SW3H-16000 is suitable for my refrigeration system?

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

Q2: Which capacity regulation method should I choose for the SW3H-16000?

The compressor offers four-step capacity regulation or stepless control from 25% to 100%. For a refrigeration screw compressor, the appropriate choice depends on load variation, control precision, and system controller compatibility. Confirm the required configuration before ordering.

Q3: What electrical checks are necessary before commissioning?

Before starting this 170 HP screw compressor, verify the motor voltage, frequency, star-delta starter connections, and phase sequence. Check the INT69 SNY protection module and associated motor protection wiring against the manufacturer's electrical diagram.

Q4: What should I consider when replacing an existing compressor with the SW3H-16000?

When replacing an existing unit with this semi-hermetic screw type compressor, compare mounting dimensions, suction and discharge connections, oil-line fittings, and control interfaces. Verify that the replacement meets the system's operating requirements and available installation space.

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