

Refcomp SW3H-4000 40HP R22 High Temperature Screw Refrigeration Compressor

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Refcomp
- Certification: CE
- Model Number: SW3H-4000
- 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

- Voltage: 400V/3/50Hz, 460/3/60Hz
- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Displacement: 118/142 M3/hr
- Rated Power: 40HP/30KW
- Refrigerant: R22, R134a, R507, R404A, R407C, R410a
- Highlight: **SW3H-4000 40HP screw compressor**, **R22 high temperature refrigeration compressor**, **semi hermetic screw compressor**



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Our Product Introduction

Product Description

Product Overview

The Refcomp SW3H-4000 is a 40HP (30kW) semi-hermetic screw refrigeration compressor engineered for high-temperature R22 applications. It combines an optimized asymmetric rotor profile with flexible capacity regulation and intelligent motor protection to deliver reliable, efficient performance in demanding industrial refrigeration systems.

Key Features

Optimized Asymmetric Rotor Design

The SW3H-4000 features RefComp's asymmetric 5/6-tooth rotor profile and an optimized length-to-diameter ratio. This design promotes smooth rotor engagement, reduces vibration, and helps improve compression efficiency.

Flexible Capacity Regulation

The compressor offers four-step capacity regulation or stepless control from 25% to 100%. These options allow compressor output to follow changing cooling demands, helping reduce unnecessary full-load operation and improve load matching.

Intelligent Motor Protection

The INT69 SNY protection module monitors motor overheating, reverse phase sequence, and phase loss. Combined with six PTC thermistors and operating-status feedback, it helps protect the motor and makes abnormal conditions easier to identify.

Flexible Piping & Backflow Protection

The semi-hermetic screw compressor features an internal discharge check valve that helps prevent refrigerant backflow during shutdown. Its 360° rotatable suction and discharge shut-off valves also simplify piping arrangements and provide greater installation flexibility.

Product Image



Refcomp SW3 Series Screw Compressor

Technical Specifications

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Model	SW3H-4000
Rated Power	40HP / 30kW
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 – 460V/3/60Hz
Star/Delta Start Current	131 / 398A
Max Operating Current	75A

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: What information is needed to select the SW3H-4000 for a refrigeration system?

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

Q2: How should I choose between stepped and stepless capacity control?

Consider how frequently the cooling load changes and how precisely the system needs to adjust compressor output. Confirm the required control configuration and its compatibility with the system controller before ordering.

Q3: What electrical checks are necessary before commissioning?

Before starting this 40HP screw compressor, confirm that the available power supply matches the specified motor configuration. Check the star-delta starter connections, phase sequence, and motor protection wiring against the manufacturer's electrical diagram.

Q4: What should I check when integrating the compressor into an existing refrigeration system?

For an industrial refrigeration screw compressor installation, compare the suction and discharge pipe connections, oil-line fitting, and available installation space with the existing system. Ensure the shut-off valves remain accessible for operation and maintenance.

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