

Refcomp SW3H-24000 Screw Refrigeration Compressor for HVAC Water Chiller

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Refcomp
- Certification: CE
- Model Number: SW3H-24000
- 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
- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Rated Power: 240HP/179 KW
- Displacement: 600/720 M3/hr
- Highlight: **Refcomp SW3H-24000 screw compressor**, **screw refrigeration compressor for HVAC**, **semi hermetic compressor for water chiller**



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Product Description

Product Overview

The Refcomp SW3H-24000 is a semi-hermetic screw refrigeration compressor engineered for HVAC water chiller applications. It combines flexible capacity regulation, integrated pressure safety protection, and high-precision suction filtration to deliver dependable performance across varying cooling loads.

Key Features

Flexible Capacity Regulation

For screw compressor HVAC systems, the SW3H-24000 offers four-step or optional stepless capacity regulation. Its slide-valve mechanism adjusts output to changing cooling demand, helping improve load matching and reduce unnecessary full-load operation.

Integrated Pressure Safety Protection

The internal safety valve of this semi-hermetic refrigeration compressor connects the high- and low-pressure sides, helping protect against excessive pressure differences. Precise opening and reliable reset provide an additional safeguard during abnormal operating conditions.

Efficient Motor Starting & Cooling

Star-delta starting helps reduce initial motor current compared with direct-on-line starting, easing electrical demand during startup. Suction-gas cooling removes motor heat, supporting stable operation and effective temperature management.

High-Precision Suction Filtration

The integrated 100 µm suction filter captures impurities from incoming refrigerant gas before they reach the motor. This helps reduce internal contamination and protects critical components from foreign particles, supporting reliable compressor operation.

Product Image



Technical Specification

Model	SW3H-24000
Rated power	240HP / 179KW
Displacement 50/60Hz	600 / 720 m³/hr
Weight	1050 KG
Capacity Regulation	25%, 50%, 75%, 100% 4-step; 25%–100% stepless
Standard Motor	Y/△ – 400V/3/50Hz – 460/3/60Hz
Star/Delta Start Current	595 / 1802A
Max operating current	360A

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-24000 is suitable for my cooling system?

For screw compressor HVAC selection, provide the required cooling capacity, refrigerant, evaporating and condensing temperatures, power supply and expected load conditions. Compare these requirements with the manufacturer's approved operating range before selecting the compressor.

Q2: How should I choose the capacity regulation configuration?

For a variable capacity screw compressor, consider the expected load variation and required control precision. Confirm whether four-step or stepless regulation is needed, and check controller compatibility before ordering.

Q3: What should I check when replacing an existing compressor?

When replacing a screw compressor for air conditioning, compare the mounting dimensions, suction and discharge connections, oil-line fittings and available maintenance space. Verify compatibility with the existing equipment drawings and control system.

Q4: What checks should be completed before initial startup?

Before commissioning a screw compressor HVAC system, verify the oil circuit, suction and discharge valve positions, motor wiring, phase sequence and protection circuits. Follow the manufacturer's commissioning instructions to identify potential installation or electrical issues before operation.

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