

Refcomp SW3H-25000 240HP Refrigeration Screw Compressor for Condensing Unit

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Refcomp
- Certification: CE
- Model Number: SW3H-25000
- 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
- Displacement: 700/840 M3/hr
- Rated Power: 240HP/179 KW
- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Refrigerant: R22, R134a, R507, R404A, R407C, R410a
- Highlight: **Refcomp SW3H-25000 screw compressor**, **240HP refrigeration screw compressor**, **semi hermetic compressor for condensing unit**



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Our Product Introduction

Product Description

Product Overview

The Refcomp SW3H-25000 is a 240HP semi-hermetic refrigeration screw compressor engineered for condensing unit applications. It combines an optimized asymmetric rotor profile, compact integrated housing, intelligent motor protection, and flexible piping connections to support stable and efficient refrigeration operation.

Key Features

Optimized Asymmetric Rotor Design

The SW3H-25000 refrigeration screw compressor features RefComp's asymmetric 5/6-tooth rotor geometry, promoting smooth rotor engagement and efficient compression. Its optimized design helps reduce vibration and supports stable mechanical operation.

Compact Housing & Optimized Gas Flow

The semi-hermetic screw compressor features streamlined internal gas passages that reduce suction resistance and flow losses. Its integrated housing combines key components into a compact arrangement, simplifying equipment layout while supporting smoother refrigerant flow.

Intelligent Motor Monitoring & Protection

This RefComp screw compressor uses the INT69 SNY protection module with six PTC temperature sensors to monitor motor overheating, phase loss and reverse phase sequence. Operating-status feedback helps identify abnormal conditions and supports timely troubleshooting.

Flexible Piping & Backflow Prevention

The 360° rotatable suction and discharge shut-off valves provide greater flexibility for pipe routing, simplifying installation in different equipment layouts. An integrated discharge check valve helps prevent refrigerant backflow during shutdown.

Product Image



Technical Specification

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Model	SW3H-25000
Rated power	240HP / 179KW
Displacement 50/60Hz	700 / 840 m³/hr
Weight	980 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	595 / 1802A
Max operating current	410A

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

FAQ

Q1: How do I determine whether the SW3H-25000 is suitable for my refrigeration system?

When selecting a refrigeration screw compressor, provide the required cooling capacity, refrigerant, evaporating and condensing temperatures, power supply and expected load conditions. Verify the compressor's operating range rather than relying on horsepower alone.

Q2: Which capacity regulation method should I choose for the SW3H-25000?

The series offers four-step capacity control or stepless regulation from 25% to 100%. Stepped control suits systems with defined load stages, while stepless regulation allows finer output adjustment. Confirm the required configuration and controller compatibility before ordering.

Q3: What should be checked before commissioning the compressor?

Before starting the refrigeration screw compressor, verify the site power supply, star-delta starter wiring, phase sequence and motor protection connections. Check the oil circuit and suction/discharge valve positions against the manufacturer's commissioning instructions.

Q4: What should I consider when replacing an existing compressor?

When replacing an existing screw refrigeration compressor, compare the operating range, mounting dimensions, piping connections, oil-line fittings and capacity-control interface. These checks help identify potential mechanical and electrical compatibility issues before installation.

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