

Refcomp SW3H-19000 200HP Screw Refrigeration Compressor for Walk-in Cold Room

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Refcomp
- Certification: CE
- Model Number: SW3H-19000
- 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
- Rated Power: 200HP/149KW
- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Refrigerant: R22, R134a, R507, R404A, R407C, R410a
- Displacement: 510/612 M3/hr
- Highlight: **Refcomp SW3H-19000 screw compressor**, **200HP screw refrigeration compressor**, **semi hermetic compressor cold room**



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Our Product Introduction

Product Description

Product Overview

The Refcomp SW3H-19000 is a 200HP screw refrigeration compressor engineered for walk-in cold room applications. It combines flexible capacity control, optimized internal gas flow, integrated pressure safety protection, and intelligent motor monitoring to deliver reliable, efficient performance across varying cooling loads.

Key Features

Flexible Capacity Control

The SW3H-19000 screw refrigeration compressor offers four-step capacity control or stepless regulation from 25% to 100%. Its slide-valve mechanism adjusts output to changing cooling loads, helping improve load matching and reduce unnecessary full-capacity operation.

Optimized Housing & Gas Flow

This RefComp screw compressor features optimized internal gas passages that help reduce suction resistance and flow losses. The compact housing integrates key components, simplifying equipment layout while supporting smooth refrigerant flow.

Integrated Pressure Safety Protection

An internal safety valve connects the high- and low-pressure sides to help prevent excessive pressure differences. Its precise opening and reliable reset provide additional protection during abnormal operating conditions, reducing the risk of pressure-related damage.

Intelligent Motor Protection

The INT69 SNY protection module monitors motor overheating, phase loss and reverse phase sequence. Working with six PTC temperature sensors and operating-status feedback, it helps protect the motor and makes electrical faults easier to identify.

Product Image



Refcomp SW3 Series Screw Compressor — SW3H-19000

Technical Specification

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Model	SW3H-19000
Rated power	200HP / 149KW
Displacement 50/60Hz	510 / 612 m³/hr
Weight	710 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	453 / 1333A
Max operating current	305A

Dimension Drawing

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	m³/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: What information is needed to select the SW3H-19000 for a refrigeration system?

When selecting a screw compressor for refrigeration systems, provide the required cooling capacity, refrigerant, evaporating and condensing temperatures, power supply and expected load conditions. The screw refrigeration compressor should be matched to its actual operating range rather than selected by horsepower alone.

Q2: How can I integrate the compressor's capacity control with my system controller?

For a variable capacity screw compressor, confirm whether the supplied configuration uses stepped or stepless regulation. Check that the controller's output signals and control wiring match the selected slide-valve arrangement before commissioning.

Q3: What should be checked before commissioning the SW3H-19000?

Verify the motor power supply, star-delta starter wiring, phase sequence and protection circuit. Also check the oil-line connection, refrigerant piping and valve positions against the manufacturer's installation instructions.

Q4: What should I do if the compressor stops unexpectedly?

If the screw refrigeration compressor stops unexpectedly, check the INT69 SNY fault indication, motor temperature, power supply and phase conditions. Identify and correct the underlying fault before restarting the equipment.

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