

Refcomp SW3L-13000 130HP 460V Refrigeration Screw Compressor for Freezing Cold Room

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Refcomp
- Certification: CE
- Model Number: SW3L-13000
- 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
- Rated Power: 130HP/98KW
- Displacement: 445/534 M3/hr
- Voltage: 400V/3/50Hz, 460/3/60Hz
- Highlight: **Refcomp SW3L-13000 screw compressor**, **460V refrigeration screw compressor**, **semi hermetic compressor cold room**



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Our Product Introduction

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Product Description

Product Overview

The Refcomp SW3L-13000 is a 130HP (98 kW) refrigeration screw compressor engineered for freezing cold room applications. Built around an optimized asymmetric rotor profile and supported by integrated pressure, filtration and motor-protection systems, it delivers stable, efficient compression in low-temperature refrigeration environments.

Key Features

Optimized Asymmetric Rotor Design

The SW3L-13000 refrigeration screw compressor features RefComp's asymmetric 5/6-tooth rotor profile, promoting smooth rotor engagement and reduced vibration. Its optimized geometry supports efficient compression and stable mechanical operation in low-temperature refrigeration systems.

Integrated Pressure Safety Protection

This RefComp screw compressor features an internal safety valve connecting the high- and low-pressure sides. Its precise opening and reliable reset help prevent excessive pressure differences, providing additional protection against abnormal operating conditions.

High-Precision Suction Filtration

The integrated 100 µm suction filter captures impurities from incoming refrigerant gas before they reach the motor. This helps protect internal components from contamination, reducing the risk of damage caused by foreign particles.

Intelligent Motor Monitoring & Protection

The INT69 SNY protection module works with six PTC temperature sensors to protect against motor overheating, reverse phase sequence and phase loss. Operating-status feedback helps technicians identify abnormal conditions and troubleshoot electrical faults more efficiently.

Product Image



Technical Specification

Model	SW3L-13000
Rated power	130HP / 98KW
Displacement 50/60Hz	445 / 534 m³/hr
Weight	675 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	354 / 1155 A
Max operating current	210 A

Model		SW3L(Low Temperature)						
		10500	11500	13000	16000	18000	20000	22000
Nominal Power	HP/KW	105/78	115/89	130/98	170/127	180/135	200/149	220/164
Displacement 50/60Hz	m^3/hr	341/409	380/456	445/534	510/612	562/674	600/720	700/840
Weight	Kg	530	665	675	710	1030	1050	980
Discharge Pipe Inner Diameter	mm / in	54/(2-1/8")	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	80/(3-1/8")	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%, full load 4-step regulation or 25%~full load stepless regulation						
Protection Module		INT69 SNY						
Standard Motor		Y/△ - 400V/3/50Hz - 460/3/60Hz						
Star/Delta Start Current	A	318/953	276/876	354/1155	374/1155	453/1333	543/1645	543/1645
Max Operating Current	A	163	196	210	236	250	270	300

Frequently Asked Questions

Q1: How do I determine whether the SW3L-13000 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. Compare these requirements with the compressor's approved operating range before ordering.

Q2: What should be considered when designing the lubrication system?

A screw compressor for refrigeration systems requires a properly matched oil separation and return arrangement. Since the SW3 series has no integrated oil separator, verify the external oil circuit, filtration and flow-protection devices against the manufacturer's requirements.

Q3: What electrical checks are necessary before commissioning?

Before starting this screw refrigeration compressor, verify the motor power supply, star-delta starter connections, phase sequence and INT69 SNY protection wiring. Ensure the lubrication circuit and protective controls are functioning correctly before initial operation.

Q4: What should I check when replacing an existing compressor with the SW3L-13000?

When replacing an existing refrigeration screw compressor, compare the mounting dimensions, suction and discharge connections, capacity-control configuration and electrical interfaces. These checks help identify potential installation and control compatibility issues before replacement.

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