

Refcomp SW3L-22000 220HP 164KW Low Temperature Screw Type Refrigeration Compressor

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Refcomp
- Certification: CE
- Model Number: SW3L-22000
- 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

- Displacement: 700/840 M3/hr
- Rated Power: 220HP/164KW
- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Refrigerant: R22, R134a, R507, R404A, R407C, R410a
- Voltage: 400V/3/50Hz, 460/3/60Hz
- Highlight: **SW3L-22000 screw refrigeration compressor**, **220HP low temperature screw compressor**, **164KW semi hermetic compressor**



More Images



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Our Product Introduction

Product Description

Product Overview

Flexible Capacity Regulation

The SW3L-22000 screw type refrigeration compressor offers stepped or stepless slide-valve capacity control to accommodate changing cooling demands. This helps match compressor output to actual system loads and reduces unnecessary full-capacity operation.

Compact Housing & Optimized Gas Flow

Optimized internal gas passages help reduce suction resistance and flow losses, supporting smoother refrigerant movement. The integrated housing keeps key components in a compact arrangement, making this industrial refrigeration screw compressor easier to accommodate within refrigeration equipment.

Integrated Pressure Safety Protection

The built-in safety valve connects the high- and low-pressure sides to help prevent excessive internal pressure differences. Its precise opening and reliable reseating provide additional protection against abnormal pressure conditions, helping safeguard the compressor's internal components.

High-Precision Suction Filtration

The integrated 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 cleaner and more reliable compressor operation.

Product Image



Technical Specification

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Model	SW3L-22000
Rated power	220HP / 164KW
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 – 460/3/60Hz
Star/Delta Start Current	543 / 1645 A
Max operating current	300 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 select the SW3L-22000 for my refrigeration system?

When selecting this screw type refrigeration compressor, provide the required cooling capacity, refrigerant, evaporating and condensing temperatures, power supply and expected load conditions. Confirm that the system requirements fall within the compressor's approved operating range.

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

For a screw compressor for low-temperature refrigeration, ensure that the external oil separation and return arrangement meets the compressor's lubrication requirements. Check oil-line connections, filtration and oil-flow monitoring devices before commissioning.

Q3: What electrical checks are necessary before initial startup?

Before starting this refrigeration screw compressor, verify that the available power supply matches the motor specifications. Check the star-delta starter wiring, phase sequence and INT69 SNY protection connections against the manufacturer's electrical diagram.

Q4: What should I check if the compressor does not respond to capacity-control commands?

If the screw type refrigeration compressor does not adjust output correctly, verify the selected stepped or stepless control configuration, controller signals and solenoid-valve wiring. If these checks are satisfactory, have a qualified technician inspect the slide-valve control assembly.

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