

Refcomp SW3L-10500 105HP R407C R410a Commercial HVAC Screw Compressor

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Refcomp
- Certification: CE
- Model Number: SW3L-10500
- 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
- Rated Power: 105HP/78KW
- Displacement: 341/409 M3/hr
- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Highlight: **Refcomp SW3L-10500 screw compressor**, **105HP R407C R410a compressor**, **semi hermetic HVAC compressor**



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Our Product Introduction

Product Description

Product Overview

Optimized Asymmetric Rotor Design

The SW3L-10500 HVAC screw compressor features RefComp's asymmetric 5/6-tooth rotor profile, promoting smooth rotor engagement and reduced vibration. Its optimized geometry helps improve compression efficiency and supports stable mechanical operation.

Compact Housing & Optimized Gas Flow

This RefComp screw compressor integrates key components within a compact housing, simplifying equipment layout and system integration. Optimized internal gas passages help reduce suction resistance and flow losses, supporting smoother refrigerant flow.

High-Precision Suction Filtration

The semi-hermetic screw compressor incorporates a built-in 100 µm suction filter that captures impurities from incoming refrigerant gas before they reach the motor. This helps protect internal components from contamination and reduces the risk of damage caused by foreign particles.

Flexible Valve Connections & Backflow Protection

The 360° rotatable suction and discharge shut-off valves allow flexible piping orientation, making installation more convenient in different equipment layouts. An integrated discharge check valve helps prevent refrigerant backflow during shutdown.

Product Image



Technical Specification

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Model	SW3L-10500
Rated power	105HP / 78KW
Displacement 50/60Hz	341 / 409 m³/hr
Weight	530 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	318 / 953 A
Max operating current	163 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: Is the SW3L-10500 suitable for an air-conditioning or chiller system?

The SW3L-10500 belongs to RefComp's low-temperature refrigeration range. Before selecting it as an HVAC screw compressor, verify that the required refrigerant, cooling capacity and operating temperatures fall within its approved operating envelope.

Q2: How should the capacity control system be integrated?

For a screw compressor for process cooling, confirm whether the ordered configuration uses stepped or stepless capacity regulation. Ensure the controller signals and slide-valve control connections match the selected configuration before commissioning.

Q3: What lubrication requirements should be considered before installation?

The SW3 series does not include an integrated oil separator, so an appropriately matched external oil separation and return system is required. Check the oil connections, filtration and flow-protection devices against the manufacturer's installation requirements.

Q4: What should I check if the motor protection module triggers an alarm?

If this HVAC screw compressor stops following an INT69 SNY alarm, inspect motor temperature, phase sequence, power supply and protection wiring. Identify and correct the underlying fault before restarting the compressor.

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