

Refcomp SW3L-11500 115HP 89KW R410a Semi-Hermetic Screw Compressor for HVAC System

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Refcomp
- Certification: CE
- Model Number: SW3L-11500
- 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
- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Displacement: 380/456 M3/hr
- Rated Power: 115HP/89KW
- Refrigerant: R22, R134a, R507, R404A, R407C, R410a
- Highlight: **Refcomp SW3L-11500 screw compressor**, **115HP R410a semi-hermetic compressor**, **89KW HVAC screw compressor**



More Images



for more products please visit us on coldroomunit.com

Our Product Introduction

for more products please visit us on coldroomunit.com

Product Description

Product Overview

The Refcomp SW3L-11500 is a 115 HP (89 kW) semi-hermetic screw compressor engineered for R410a HVAC and refrigeration systems. It combines flexible capacity regulation, efficient motor starting and cooling, and precision multi-bearing support to deliver stable, reliable performance across demanding operating conditions.

Key Features

Flexible Capacity Regulation

For screw compressor HVAC projects requiring low-temperature cooling, the SW3L-11500 offers stepped or stepless capacity control. Its slide-valve mechanism helps match compressor output to changing loads, reducing unnecessary full-capacity operation.

Efficient Motor Starting & Cooling

Star-delta starting helps reduce motor starting current compared with direct-on-line starting, easing the initial demand on the electrical supply. Suction-gas cooling helps remove motor heat, supporting stable operating temperatures.

Precision Multi-Bearing Support

Multiple high-precision bearings support axial and radial rotor loads, helping maintain stable alignment during compression. Effective lubrication and precision fitting reduce mechanical friction and noise, supporting smoother operation and limiting component wear.

Flexible Piping & Backflow Protection

The 360° rotatable suction and discharge shut-off valves allow installers to adjust pipe routing according to equipment layout. An integrated discharge check valve helps prevent refrigerant backflow during shutdown, providing additional system protection.

Product Image



Refcomp SW3L-11500 semi-hermetic screw compressor

Technical Specification

Model	SW3L-11500
Rated power	115 HP / 89 kW
Displacement 50/60 Hz	380 / 456 m³/hr
Weight	665 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	276 / 876 A
Max operating current	196 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-11500 suitable for an air-conditioning or chiller system?

Before selecting this model for screw compressor HVAC applications, confirm that the required refrigerant, cooling capacity and operating temperatures fall within its approved operating range. The SW3L series is primarily intended for low-temperature refrigeration and process cooling.

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

This refrigeration screw compressor requires an appropriately matched external oil separation and return system. Verify the oil-line connections, filtration and flow-protection devices to ensure reliable lubrication during operation.

Q3: What electrical checks are necessary before commissioning?

Before starting this 115 HP screw compressor, verify that the site power supply matches the motor specifications. Check the star-delta starter wiring, phase sequence and INT69 SNY protection circuit against the manufacturer's electrical diagram.

Q4: How should I integrate the capacity control system with an existing controller?

For a variable capacity screw compressor, confirm whether the selected configuration uses stepped or stepless regulation. When integrating it into a screw compressor HVAC system, verify the controller signals, solenoid-valve wiring and slide-valve control compatibility before commissioning.

Coolstart Shenzhen Coolstart Refrigeration Equipment Co., Ltd

86-13922880636 info@coolstartcn.com coldroomunit.com

Room 1801, Building 1, Kangli city, No. 66 Pingji Road, Longgang District, Shenzhen, Guangdong,China