

Refcomp SW3L-18000 180HP Industrial AC Screw Compressor for Large Cold Room

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Refcomp
- Certification: CE
- Model Number: SW3L-18000
- 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

- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Rated Power: 180HP/135KW
- Refrigerant: R22, R134a, R507, R404A, R407C, R410a
- Displacement: 562/674 M3/hr
- Voltage: 400V/3/50Hz, 460/3/60Hz
- Highlight: **Refcomp SW3L-18000 screw compressor**, **180HP industrial AC compressor**, **semi hermetic compressor cold room**



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Our Product Introduction

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Product Description

Product Overview

The Refcomp SW3L-18000 is a 180HP (135kW) industrial AC screw compressor engineered for large cold room and process cooling applications. It combines flexible capacity regulation, integrated pressure safety protection, high-precision suction filtration, and flexible piping connections to deliver dependable performance in demanding refrigeration systems.

Key Features

Flexible Capacity Regulation

The SW3L-18000 offers stepped or stepless slide-valve capacity control configurations. Adjusting compressor output to changing cooling demand improves load matching and reduces unnecessary full-capacity operation.

Integrated Pressure Safety Protection

A built-in safety valve connects the high- and low-pressure sides to help protect against excessive internal pressure differences. Its controlled opening and reliable reseating provide an additional safeguard against abnormal pressure conditions.

High-Precision Suction Filtration

The integrated 100 µm suction filter captures impurities from incoming refrigerant gas before they reach the motor. This reduces internal contamination and protects critical components from damage caused by foreign particles.

Flexible Piping & Backflow Protection

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



Technical Specifications

Model	SW3L-18000
Rated Power	180HP / 135KW
Displacement (50/60Hz)	562 / 674 m³/hr
Weight	1030 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	453 / 1333 A
Max Operating Current	250 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: Can the SW3L-18000 be used in an air-conditioning system?

The SW3L series is primarily designed for low-temperature refrigeration and process cooling. Before selecting this model as an AC screw compressor, verify that the required refrigerant, cooling capacity, and operating temperatures fall within its approved operating range.

Q2: What should I consider when replacing an existing compressor?

For an air conditioning screw compressor replacement, compare the required operating range, mounting dimensions, suction and discharge connections, oil-line fittings, and controller compatibility. These checks help identify potential installation and system-matching issues before replacement.

Q3: Does the SW3L-18000 require an external oil separator?

Yes. The SW3L series does not include an integrated oil separator, so a properly matched external oil separation and return system is required. For a screw compressor used in process cooling, verify oil filtration, flow monitoring, and piping connections against the manufacturer's installation requirements.

Q4: What electrical checks are necessary before commissioning?

Before starting this 180 HP screw compressor, verify the motor power supply, star-delta starter wiring, phase sequence, and INT69 SNY protection connections. Proper electrical configuration helps prevent startup faults and supports reliable operation of the AC screw compressor.

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