

Refcomp SW3L-7000 70HP 52KW R134a Semi-Hermetic Screw Air Conditioning Compressor

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Refcomp
- Certification: CE
- Model Number: SW3L-7000
- 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: 70HP/52KW
- Voltage: 400V/3/50Hz, 460/3/60Hz
- Refrigerant: R22, R134a, R507, R404A, R407C, R410a
- Displacement: 237/284 M3/hr
- Highlight: **Refcomp SW3L-7000 screw compressor**, **70HP 52KW semi-hermetic compressor**, **R134a air conditioning compressor**



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Our Product Introduction

Product Description

Product Overview

The Refcomp SW3L-7000 is a 70 HP (52 kW) semi-hermetic screw air conditioning compressor engineered for flexible capacity matching, stable mechanical operation, and dependable pressure protection. It supports both stepped and stepless capacity control, allowing output to track system load and avoid unnecessary full-capacity running.

Key Features

Flexible Capacity Matching

The SW3L-7000 offers stepped or stepless capacity control to accommodate changing cooling demands. As a variable capacity screw compressor, it adjusts output to system loads, helping avoid unnecessary full-capacity operation.

Precision Multi-Bearing Support

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

Efficient Motor Starting & Cooling

Partial-winding starting helps reduce initial electrical demand compared with direct-on-line starting. An optimized suction-gas cooling arrangement removes motor heat during operation, helping maintain stable operating temperatures and supporting reliable motor performance.

Integrated Pressure Safety Protection

The internal safety valve connects the high- and low-pressure sides, helping protect against excessive pressure differences. Its precise opening and reliable reset provide additional protection during abnormal operating conditions, reducing the risk of pressure-related damage.

Product Image



Technical Specification

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Model	SW3L-7000
Rated power	70HP / 52KW
Displacement 50/60Hz	237 / 284 m³/hr
Weight	420 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	139 / 459 A
Max operating current	117 A

Model		SW3L(Low Temperature)						
		3000	4000	5000	6000	7000	8000	9500
Nominal Power	HP/KW	30/22	40/30	50/37	60/45	70/52	80/60	95/71
Displacement 50/60Hz	m³/hr	118/142	150/180	175/210	205/246	237/284	286/343	318/382
Weight	Kg	245	255	265	410	420	520	525
Discharge Pipe Inner Diameter	mm / in	42/(1-5/8")	42/(1-5/8")	42/(1-5/8")	54/(2-1/8")	54/(2-1/8")	54/(2-1/8")	54/(2-1/8")
Suction Pipe Inner Diameter	mm / in	54/(2-1/8")	54/(2-1/8")	54/(2-1/8")	67/(2-5/8")	67/(2-5/8")	80/(3-1/8")	80/(3-1/8")
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	110/331	131/398	134/406	139/422	139/459	223/670	318/953
Max Operating Current	A	65	80	88	103	117	139	154

FAQ

Q1: Can the SW3L-7000 be used in a conventional air-conditioning system?

The SW3L-7000 belongs to the low-temperature refrigeration range. Before selecting this screw air conditioning compressor, confirm that the required refrigerant, evaporating and condensing temperatures, and cooling duty fall within its approved operating range.

Q2: What should be checked before connecting the compressor motor?

This 70 HP screw compressor uses partial-winding starting in its standard configuration. Verify the motor wiring sequence, site power supply, phase condition and protection connections against the manufacturer's electrical diagram before commissioning.

Q3: What should be considered when preparing the lubrication system?

An air conditioning screw compressor replacement requires careful checking of the existing oil circuit. Since the SW3L series has no integrated oil separator, verify that the external oil separation, return arrangement and oil-flow protection are compatible with the selected compressor.

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

If the screw air conditioning compressor does not adjust output correctly, first verify the selected stepped or stepless control configuration, controller signals and solenoid-valve wiring. Confirm electrical and control compatibility before inspecting the slide-valve mechanism.

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