

Refcomp SW3H-10500 105HP Semi-Hermetic Refrigeration AC Screw Compressor

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Refcomp
- Certification: CE
- Model Number: SW3H-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
- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Voltage: 400V/3/50Hz, 460/3/60Hz
- Displacement: 286/343 M3/hr
- Rated Power: 105HP/78KW
- Highlight: **SW3H-10500 semi-hermetic screw compressor**, **105HP refrigeration AC screw compressor**, **semi-hermetic compressor with warranty**



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Our Product Introduction

Product Description

Product Overview

The Refcomp SW3H-10500 is a 105 HP (78 kW) semi-hermetic refrigeration and air-conditioning screw compressor. It combines an asymmetric rotor profile, flexible capacity regulation, intelligent motor protection and high-precision suction filtration to deliver reliable performance across varying operating conditions.

Key Features

Asymmetric Rotor Design

The SW3H-10500 AC screw compressor uses RefComp's asymmetric 5/6-tooth rotor profile with optimized geometry. This design promotes smooth rotor engagement, reduces vibration and supports efficient compression under varying operating conditions.

Flexible Capacity Regulation

Four-step capacity control or stepless regulation from 25% to 100% allows compressor output to follow changing cooling demand. This helps avoid unnecessary full-capacity operation and improves load matching in air-conditioning systems.

Intelligent Motor Protection

The INT69 SNY module monitors motor overheating, reverse phase sequence and phase loss. Combined with six PTC sensors and operating-status feedback, it helps protect the motor and makes abnormal conditions easier to identify.

High-Precision Suction Filtration

A built-in 100 µm suction filter captures impurities from incoming refrigerant gas before they reach the motor. This helps reduce internal contamination and protects critical components from damage caused by foreign particles.

Product Image



Technical Specifications

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Model	SW3H-10500
Rated power	105 HP / 78 kW
Displacement 50/60 Hz	286 / 343 m³/hr
Weight	535 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	338 / 1015 A
Max operating current	180 A

Model		SW3H(High Temperature)							
		4000	5000	6000	7500	9000	10500	11500	12500
Nominal Power	HP/KW	40/30	50/37	60/45	75/55	90/67	105/78	115/89	125/89
Displacement 50/60Hz	m^3/hr	118/142	150/180	175/210	205/246	237/284	286/343	318/382	341/409
Weight	Kg	245	255	265	410	420	535	540	545
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")	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")	80/(3-1/8")
Oil Line Connector	mm / in	Φ16mm / (5/8")SAE							
Capacity Regulation		25%, 50%, 75%, 100% 4-step regulation or 25%~100% stepless regulation							
Protection Module		INT69 SNY							
Standard Motor		Y/△ - 400V/3/50Hz - 460/3/60Hz							
Star/Delta Start Current	A	131/398	134/406	182/547	139/459	193/580	338/1015	318/953	318/953
Max Operating Current	A	75	90	105	124	140	180	182	196

Frequently Asked Questions

Q1: How do I determine whether the SW3H-10500 is suitable for my air-conditioning system?

To select an AC screw compressor, provide the required cooling capacity, refrigerant, evaporating and condensing temperatures, power supply and expected load variation. The operating range of this high-temperature screw compressor should be checked against actual system conditions.

Q2: What should be considered when replacing an existing chiller compressor?

Before replacing an existing unit with this semi-hermetic screw compressor, compare mounting dimensions, suction and discharge connections, oil-line requirements and control compatibility. Confirm these details against the existing equipment drawings before ordering.

Q3: What electrical checks are necessary before commissioning?

For this 105 HP screw compressor, verify that the available power supply matches the motor nameplate. Check the star-delta starter, phase sequence and protection wiring before initial startup.

Q4: What should I check if capacity regulation does not respond correctly?

If the AC screw compressor does not follow the controller's load commands, first verify the selected capacity-control mode, wiring and control signals. If the issue remains, have a qualified technician inspect the slide-valve control assembly.

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