

Refcomp SW3H-11500 115HP Twin-Screw AC Compressor for Commercial Refrigeration

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Refcomp
- Certification: CE
- Model Number: SW3H-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

- Rated Power: 115HP/89KW
- Displacement: 318/382 M3/hr
- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Voltage: 400V/3/50Hz, 460/3/60Hz
- Refrigerant: R22, R134a, R507, R404A, R407C, R410a
- Highlight: **Refcomp SW3H-11500 twin-screw compressor**, **115HP semi hermetic AC compressor**, **commercial refrigeration screw compressor**



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Product Description

Product Overview

The Refcomp SW3H-11500 is a 115 HP semi-hermetic twin-screw AC compressor engineered for commercial refrigeration and air-conditioning systems. It combines integrated pressure safety protection, precision multi-bearing rotor support, flexible valve arrangement and efficient motor starting to deliver stable, reliable performance under demanding operating conditions.

Key Features

Integrated Pressure Safety Protection

The SW3H-11500 screw AC compressor features an internal safety valve connecting the high- and low-pressure sides. Its precise opening and reset help prevent excessive internal pressure differences, providing additional protection during abnormal operating conditions.

Precision Multi-Bearing Support

The semi-hermetic screw compressor uses a multi-bearing arrangement to manage axial and radial loads, helping maintain stable rotor alignment. Precision manufacturing and effective lubrication reduce friction and mechanical noise, supporting smoother operation and limiting component wear.

Flexible Valve Arrangement & Backflow Prevention

The 360° rotatable suction and discharge shut-off valves provide flexible piping orientation, making installation easier in different equipment layouts. An integrated discharge check valve helps prevent refrigerant backflow during shutdown, providing additional system protection.

Efficient Motor Starting & Refrigerant Cooling

The motor uses star-delta starting to reduce initial electrical demand compared with direct-on-line starting. An optimized suction-gas cooling arrangement helps remove motor heat, supporting stable operation and effective temperature management.

Product Image



Technical Specification

Model	SW3H-11500
Rated Power	115 HP / 89 kW
Displacement (50/60 Hz)	318 / 382 m³/hr
Weight	540 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	182 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-11500 suits my air-conditioning system?

When selecting a screw AC compressor, provide the required cooling capacity, refrigerant, evaporating and condensing temperatures, power

supply and expected load conditions. These details help verify whether the model's operating range matches the actual system requirements.

Q2: What capacity control options are available for the SW3H-11500?

The compressor series offers four-step capacity control at 25%, 50%, 75% and 100%, or stepless regulation from 25% to 100%. For a screw compressor for air conditioning, the appropriate option depends on load variation and controller compatibility. Confirm the required configuration before ordering.

Q3: What should be checked before commissioning the compressor?

Before starting this 115 HP screw compressor, verify the lubrication circuit, suction and discharge valve positions, motor connections and star-delta starter wiring. Check the phase sequence and protective devices against the manufacturer's instructions.

Q4: What maintenance checks help maintain reliable compressor operation?

For this screw AC compressor, regularly monitor oil condition, abnormal vibration, bearing noise and operating temperatures. Check for refrigerant or oil leakage and investigate unusual operating conditions before they develop into more serious mechanical problems.

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