

# Refcomp SW3H-14000 150HP R410a Semi-Hermetic Screw Air Conditioning Compressor

Our Product Introduction

## Basic Information

- Place of Origin: China
- Brand Name: Refcomp
- Certification: CE
- Model Number: SW3H-14000
- 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
- Displacement: 402/482 M3/hr
- Rated Power: 150HP/112KW
- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Refrigerant: R22, R134a, R507, R404A, R407C, R410a
- Highlight: **SW3H-14000 semi-hermetic screw compressor**, **150HP R410a air conditioning compressor**, **semi-hermetic compressor with warranty**



## More Images



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Our Product Introduction

# Product Description

## Product Overview

The Refcomp SW3H-14000 is a 150 HP semi-hermetic screw air conditioning compressor designed for R410A systems. It combines flexible capacity regulation, built-in pressure protection, precision bearing support, and intelligent motor monitoring to deliver reliable performance across varying cooling loads.

## Key Features

### Flexible Capacity Regulation

The SW3H-14000 offers four-step capacity control or stepless regulation from 25% to 100%. Its slide-valve mechanism adjusts compressor output to changing cooling demands, improving load matching and reducing unnecessary full-capacity operation.

### Built-in 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 an additional safeguard during abnormal operating conditions.

### Precision Multi-Bearing Support

The semi-hermetic screw compressor uses a combination of bearings to handle axial and radial loads, helping maintain stable rotor alignment. Precision fitting and effective lubrication reduce friction and operating noise, supporting smooth operation and limiting mechanical wear.

### Intelligent Motor Protection

The INT69 SNY protection module monitors motor overheating, reverse phase sequence, and phase loss. Combined with six PTC temperature sensors and operating-status feedback, it helps prevent motor damage and makes electrical faults easier to identify.

## Product Image



## Technical Specifications

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| | |
|---|---|
| **Model** | SW3H-14000 |
| **Rated Power** | 150 HP / 112 kW |
| **Displacement (50/60 Hz)** | 402 / 482 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** | 354 / 1155 A |
| **Max Operating Current** | 249 A |

| Model | | SW3H(High Temperature) | | | | | |
|---|---|---|---|---|---|---|---|
| | | 14000 | 16000 | 19000 | 21000 | 24000 | 25000 |
| Nominal Power | HP/KW | 150/112 | 170/127 | 200/149 | 220/164 | 240/179 | 240/179 |
| Displacement 50/60Hz | $m^3$/hr | 402/482 | 445/534 | 510/612 | 562/674 | 600/720 | 700/840 |
| Weight | Kg | 665 | 675 | 710 | 1030 | 1050 | 980 |
| Discharge Pipe Inner Diameter | mm / in | 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 | 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%, 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 | 354/1155 | 374/1155 | 453/1333 | 543/1645 | 595/1802 | 595/1802 |
| Max Operating Current | A | 249 | 270 | 305 | 335 | 360 | 410 |

## Frequently Asked Questions

**Q1: How do I determine whether the SW3H-14000 is suitable for my air-conditioning system?**

When selecting a screw air conditioning compressor, consider the required cooling capacity, refrigerant, evaporating and condensing temperatures, power supply, and expected load variation. These details help verify whether the compressor matches the system's operating requirements.

**Q2: What electrical checks are required before commissioning?**

Before starting this 150 HP screw compressor, verify the motor voltage, frequency, phase sequence, and star-delta starter wiring. Check all electrical protection connections against the manufacturer's wiring diagram.

**Q3: What should be checked when connecting the compressor oil circuit?**

For an air conditioning screw compressor, ensure the oil-line connection and circuit layout match the manufacturer's installation drawings. Verify the oil circuit and keep service connections accessible before commissioning.

**Q4: What should I consider when replacing an existing compressor with the SW3H-14000?**

When replacing a screw air conditioning compressor, compare mounting dimensions, suction and discharge connections, oil-line requirements, and capacity-control compatibility. Confirm that the replacement matches the existing system's operating conditions rather than selecting by horsepower alone.

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