

Refcomp SW3H-7500 75HP R404A Semi-Hermetic Refrigeration Screw Compressor

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Refcomp
- Certification: CE
- Model Number: SW3H-7500
- 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: 75HP/55KW
- Voltage: 400V/3/50Hz, 460/3/60Hz
- Displacement: 205/246 M3/hr
- Refrigerant: R22, R134a, R507, R404A, R407C, R410a
- Highlight: **Refcomp SW3H-7500 screw compressor**, **75HP R404A semi-hermetic compressor**, **semi-hermetic refrigeration compressor**



More Images



for more products please visit us on coldroomunit.com

Our Product Introduction

Product Description

Key Design Features

Optimized Asymmetric Rotor Design

The SW3H-7500 refrigeration screw compressor uses RefComp's asymmetric 5/6-tooth rotor profile with an optimized length-to-diameter ratio. This design supports smooth rotor engagement, reduces vibration, and helps improve compression efficiency under varying refrigeration loads.

Flexible Capacity Regulation

The refrigeration screw compressor offers four-stage capacity control or optional stepless regulation from 25% to 100%. Its sliding-valve mechanism allows output to follow changing cooling demands, improving load matching and reducing unnecessary full-capacity operation.

High-Precision Suction Filtration

An integrated 100 µm suction filter captures impurities from incoming refrigerant gas before they reach the motor. This helps protect internal components from contamination and reduces the risk of foreign particles affecting compressor operation.

Rotatable Valves & 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.

Product Image



Technical Specification

for more products please visit us on coldroomunit.com

Model	SW3H-7500
Rated power	75HP / 55KW
Displacement 50/60Hz	205 / 246 m³/hr
Weight	410KG
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 / 459A
Max operating current	124A

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-7500 suits my refrigeration system?

For this refrigeration screw compressor, provide the required cooling capacity, refrigerant, evaporating and condensing temperatures, and power supply. As a high-temperature screw compressor, its operating range should be verified against the actual system conditions rather than selected by horsepower alone.

Q2: What should be considered when selecting the capacity control method?

Consider how frequently the refrigeration load changes and the level of control precision required. Confirm whether the supplied compressor uses stepped or stepless regulation, and ensure the refrigeration controller supports the selected configuration.

Q3: What electrical checks are needed before starting the compressor?

For this 75 HP screw compressor, verify the motor voltage, frequency, phase sequence, and star-delta starter wiring. Ensure all protection circuits are correctly connected before commissioning to reduce the risk of electrical faults.

Q4: What should be checked when replacing an existing compressor with the SW3H-7500?

Before installing this semi-hermetic screw compressor, compare the mounting arrangement, suction and discharge connections, oil-line fitting, and available service space. Electrical and capacity-control compatibility should also be checked against the existing system.

Coolstart Shenzhen Coolstart Refrigeration Equipment Co., Ltd

86-13922880636 info@coolstartcn.com coldroomunit.com

Room 1801, Building 1, Kangli city, No. 66 Pingji Road, Longgang District, Shenzhen, Guangdong,China