



Refcomp SP8H7000 SP8H700E 70HP R404A Chiller Reciprocating Compressor for Cold Room

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Refcomp
- Certification: CE
- Model Number: SP8H7000, SP8H700E
- 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
- Displacement: 222/268 M3/hr
- Rated Power: 70HP/52KW
- Refrigerant: R22, R407C, R134a, R404A, R507
- Oil Charge: 5L
- Highlight: SP8H7000 R404A reciprocating compressor, 70HP semi hermetic compressor, SP8H700E cold room compressor



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Product Description

Product Overview

The Refcomp SP8H7000 / SP8H700E is a 70 HP semi-hermetic reciprocating compressor engineered for chiller and cold room applications. It supports R22, R407C, R134a, R404A and R507 refrigerants and is built around four core design features that support safe, reliable and low-maintenance operation.

Integrated Safety Valve Protection

An internal safety valve connects the high- and low-pressure sides of the compressor. Its precise opening and timely reset help protect the unit against abnormal pressure conditions, adding an important layer of operational safety.

High-Density Suction Filtration

A built-in high-density suction filter captures impurities from the refrigerant gas before it enters the compression chamber. This protects internal components from contamination, while its external installation makes inspection and replacement easier, simplifying routine maintenance.

Precision Bearing Arrangement

A combination of sliding and thrust bearings accommodates both axial and radial loads. High-precision fitting and effective lubrication help reduce friction and operating noise, supporting smoother mechanical operation and reducing component wear.

INT69B2 Motor Protection

The integrated INT69B2 protection module helps prevent motor burnout by providing dedicated electrical protection. This additional safeguard reduces the risk of motor damage and supports safer compressor operation under abnormal conditions.

Product Image



Technical Specification

Model	SP8H7000, SP8H700E
Rated power	70 HP / 52 kW
Exhaust volume (50/60 Hz)	222 / 268 m³/hr
Refrigerant type	R22, R407C, R134a, R404A, R507
Weight	350 KG
Oil charge	5 L
Voltage	400V/3/50Hz, 460V/3/60Hz PW
Starting current PW/DOL	329 / 439 A
Max operating current	140 A

Model SP		H (High-Temp Compressor)				
		SP6H			SP8H	
		3700	4000	5000	6000	7000
		370E	400E	500E	600E	700E
Rated power	Hp/kW	37/27.6	40/29.9	50/37.3	60/45	70/52
Exhaust volume 50/60Hz	m³/hr	112.5/135	129.1/154.9	154.4/185.3	186/224	222/268
Cylinders		6	6	6	8	8
Weight	Kg	241	246	250	345	350
Oil Charge	dm³	4.2	4.2	4.2	5	5
Crankcase heater		230V-150W-50/60Hz			230V-200W-50/60Hz	
Exhaust pipe inner diameter Φ	mm/inches	35/1-3/8"	35/1-3/8"	42/1-5/8"	54/2-1/8"	54/2-1/8"
Suction pipe inner diameter Φ	mm/inches	54/2-1/8"	54/2-1/8"	54/2-1/8"	67/2-5/8"	67/2-5/8"
Energy regulation		100,66,33%	100,66,33%	100,66,33%	100,75,50%	100,75,50%
Standard motor		400V/3/50Hz 460V/3/60Hz PW			400V/3/50Hz 460V/3/60Hz P W	
Starting current PW/DOL	A	178/290	201/330	233/394	271/361	329/439
Starting current Y/D	A	—	—	—	—	—
Max operating current	A	60	75	93	115	140

FAQ

Q1: How do I select the right SP8H7000 for my chiller application?

When selecting a reciprocating chiller compressor, consider the required cooling capacity, refrigerant, evaporating and condensing temperatures, ambient conditions and power supply. The SP8H7000 is an eight-cylinder reciprocating compressor in the SP high-temperature range, so its operating conditions should be checked against the actual application.

Q2: What electrical requirements should be confirmed before installation?

For a 70 HP chiller compressor, verify that the site power supply matches the motor configuration. The supplied specifications list 400V/3-phase/50Hz and 460V/3-phase/60Hz partial-winding configurations, which should be checked against the motor nameplate and wiring diagram.

Q3: What should I do if the INT69B2 motor protection module trips?

If the chiller reciprocating compressor stops due to a protection trip, check the power supply, phase condition, motor wiring and operating conditions. Identify and correct the underlying fault before restarting rather than repeatedly resetting the protection module.

Q4: What maintenance practices help maintain reliable compressor operation?

During routine maintenance of the chiller reciprocating compressor, inspect the suction filter for contamination and check the lubrication condition, operating noise and vibration. Timely inspection helps identify potential problems before they develop into more serious mechanical issues.



