



Refcomp SP6H3700 SP6H370E Semi-Hermetic Compressor for Chiller

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Refcomp
- Certification: CE
- Model Number: SP6H3700, SP6H370E
- Minimum Order Quantity: 1
- Price: Discussed
- Packaging Details: WOODEN CASE
- Delivery Time: 1 Month
- Payment Terms: Western Union, T/T
- Supply Ability: 100000Pcs/Year



Product Specification

- Refrigerant: R22, R407C, R134a, R404A, R507
- Rated Power: 37HP/27.6KW
- Displacement 50/60Hz: 112.5/135 M3/hr
- Oil Charge: 4.2L
- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Highlight: Refcomp SP6H3700 chiller compressor, SP6H370E semi-hermetic compressor, semi-hermetic compressor for chiller



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Product Description

Refcomp SP6H3700 SP6H370E Semi-Hermetic Compressor for Chiller

Product Overview

Three-Stage Capacity Control - Offers 100%, 66%, and 33% energy regulation stages, allowing this reciprocating chiller compressor to match fluctuating system thermal loads and reduce part-load energy consumption.

Six-Cylinder Direct Flow Geometry - Features an optimized 6-cylinder valve plate layout and direct-path gas suction channels to minimize internal pressure losses and optimize volumetric efficiency.

Heavy-Duty Mechanical Protection - Built with a dynamically balanced crankshaft, wear-resistant sleeve bearings, an internal safety relief valve, and an INT69B2 module for continuous motor thermal protection.

Standard Component Package - Includes 360° rotatable suction (54 mm) and discharge (35 mm) valves, 230V / 150W crankcase heater, and high-density internal suction gas filter.

Product Image



Technical Specifications

Model	SP6H3700, SP6H370E
Rated Power	37HP / 27.6KW
Exhaust Volume (50Hz/60Hz)	112.5 / 135 m³/hr
Refrigerant Type	R22, R407C, R134a, R404A, R507

Weight	241 KG
Oil Charge	4.2 L
Voltage	400V/3/50Hz, 460V/3/60Hz PW
Starting Current PW/DOL	178 / 290 A
Max Operating Current	60 A

Model SP		H (High-Temp Compressor)									
		SP4H					SP6H			SP8H	
		2200 220E	2500 250E	3000 300E	3500 350E	3700 370E	4000 400E	5000 500E	6000 600E	7000 700E	
Rated power	Hp/kW	22/16.4	25/18.7	30/22.4	35/26.1	37/27.6	40/29.9	50/37.3	60/45	70/52	
Exhaust volume 50/60Hz	m³/hr	64.7/77.6	75/90	86.1/103.3	102.9/123.5	112.5/135	129.1/154.9	154.4/185.3	186/224	222/268	
Cylinders		4	4	4	4	6	6	6	8	8	
Weight	Kg	193	206	209	238	241	246	250	345	350	
Oil Charge	dm³	3.7	3.7	3.7	3.7	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	28/1-1/8"	28/1-1/8"	28/1-1/8"	35/1-3/8"	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	42/1-5/8"	54/2-1/8"	54/2-1/8"	54/2-1/8"	54/2-1/8"	54/2-1/8"	54/2-1/8"	67/2-5/8"	67/2-5/8"	
Energy regulation		100,50%	100,50%	100,50%	100,50%	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	102/170	123/201	150/243	178/290	178/290	201/330	233/394	271/361	329/439	
Starting current Y/D	A	—	—	—	—	—	—	—	—	—	
Max operating current	A	37	43	52	56	60	75	93	115	140	

Frequently Asked Questions

What operating environment factors should be verified prior to placing this reciprocating chiller compressor into service?

Ensure adequate ambient room ventilation, keep ambient temperatures within allowable limits, and protect electrical connections against excessive moisture, dust, or corrosive vapors.

How does capacity stepping improve running efficiency during partial load conditions?

Modulating output down to 66% or 33% prevents frequent compressor cycling under reduced cooling demand, stabilizing leaving water temperatures while lowering power usage.

What diagnostic steps are recommended if the compressor trips on motor protection?

Inspect the INT69B2 control module wiring, verify line voltage balance across all power phases, check running current against the 60 A maximum, and confirm sufficient suction gas cooling.

What mounting and piping considerations help manage vibration when integrating a reciprocating chiller compressor?

Install flexible vibration absorbers on suction and discharge lines, secure the unit with resilient rubber mounting pads, and ensure rigid alignment of connected refrigeration piping.