



Refcomp SP6H4000 SP6H400E Semi-Hermetic Chiller Reciprocating Compressor

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Refcomp
- Certification: CE
- Model Number: SP6H4000, SP6H400E
- 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

- Rated Power: 40HP/29.9KW
- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Refrigerant: R22, R407C, R134a, R404A, R507
- Oil Charge: 4.2L
- Displacement 50/60Hz: 129.1/154.9 M3/hr
- Highlight: **Refcomp SP6H4000 semi-hermetic chiller compressor**
,
SP6H400E reciprocating compressor with warranty
, **semi-hermetic compressor for chiller systems**



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Product Description

Refcomp SP6H4000 SP6H400E Semi-Hermetic Chiller Reciprocating Compressor

Product Overview

Optimized 6-Cylinder Flow Geometry

Featuring a 6-cylinder configuration and direct gas suction channels, this chiller reciprocating compressor minimizes internal pressure drop and flow resistance for efficient operation.

Broad Refrigerant & Voltage Compatibility

Supports multi-refrigerant operation including R22, R134a, R404A, R407C, and R507 across dual 50Hz and 60Hz industrial power supplies.

Heavy-Duty Mechanical Protection

Built with dynamically balanced crankshafts, wear-resistant sleeve bearings, an internal safety valve, and an INT69B2 module for long-term reliability under demanding operating conditions.

Standard Maintenance & Configuration Features

360° rotatable suction (54 mm) and discharge (35 mm) shut-off valves

Built-in high-density suction gas filter

Factory 230V / 150W crankcase heater

Product Image



Technical Specifications

Model	SP6H4000, SP6H400E
Rated Power	40HP / 29.9KW
Exhaust Volume (50Hz/60Hz)	129.1 / 154.9 m³/hr
Refrigerant Type	R22, R407C, R134a, R404A, R507
Weight	246KG
Oil Charge	4.2L
Voltage	400V/3/50Hz, 460V/3/60Hz PW
Starting Current PW/DOL	201 / 330A
Max Operating Current	75A

Model SP		H (High-Temp Compressor)									
		SP4H					SP6H			SP8H	
		2200	2500	3000	3500	3700	4000	5000	6000	7000	
		220E	250E	300E	350E	370E	400E	500E	600E	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 considerations should be addressed regarding oil management in this chiller reciprocating compressor?

Keep the oil level clearly visible within the sight glass center, preheat the crankcase heater prior to startup, and monitor oil return velocity during reduced capacity stages.

What electrical characteristics apply when starting this 40 Hp compressor model?

The unit supports Part Winding (PW) or Direct On Line (DOL) starting methods on 400V/50Hz or 460V/60Hz systems, with starting currents of 201 A (PW) and 330 A (DOL).

How does the internal high/low pressure safety valve function?

The internal relief valve bypasses gas directly between high and low pressure chambers if pressure thresholds are exceeded, preventing structural damage to the housing up to its 28 bar design limit.

What optional accessories can be added for customized chiller package integration?

Optional field equipment includes external oil separators, oil differential pressure switches, discharge gas temperature sensors, and

liquid injection cooling kits based on operating conditions.

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