



Refcomp SP4HF1000 SP4HF100E 10HP Semi Hermetic Reciprocating Compressor

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: Refcomp
- Certification: CE
- Model Number: SP4HF1000, SP4HF100E
- 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

- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Oil Charge: 2.6L
- Displacement 50/60Hz: 35/42 M3/hr
- Rated Power: 10HP/7.5KW
- Refrigerant: R22, R407C, R134a, R404A, R507
- Weight: 143KG
- Highlight: 10HP semi hermetic compressor, SP4HF1000 reciprocating compressor, SP4HF100E refrigeration compressor



More Images



Product Description

Refcomp SP4HF1000 SP4HF100E 10HP Semi Hermetic Reciprocating Compressor

Product Description

- **Advanced Crankshaft, Connecting Rod & Piston Assembly:** Precision-engineered crankshaft with counterweights for optimal dynamic balance and low vibration. High-strength connecting rod and piston setup lowers clearance volume, improves gas compression efficiency, and prolongs component operational life.
- **High-Reliability Sliding Bearings:** Engineered to withstand heavy-duty thermal loads with high-precision hydrodynamic sliding bearings and thrust washers. Minimizes radial and axial frictional wear, prevents scoring, and delivers exceptional operational stability with estimated bearing design life of 50,000 to 80,000 hours.
- **High-Efficiency Motor Design:** Custom electrical stator and rotor structure supporting Part-Winding (PW) or Direct-On-Line (DOL) starting configurations. Continuously cooled by low-temperature suction gas flowing through internal motor passages, lowering thermal stress, reducing startup power surges, and maintaining high operating efficiency across multi-refrigerant applications.

Application Areas

- **Commercial Supermarket Display & Cold Rooms:** Ideal as a reliable semi hermetic compressor for medium-to-high temperature cold storage, walk-in coolers, and display cases.
- **Commercial HVAC & Liquid Chillers:** Provides stable, energy-efficient chilling for air conditioning plants, water chillers, and process cooling loops.
- **Agricultural Precooling & Processing:** Delivers high cooling capacity for post-harvest precooling facilities and food processing plants.

Product Image



Technical Specification

Model	SP4HF1000, SP4HF100E
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Rated power	10HP/7.5KW
Exhaust volume (50Hz/60Hz)	35/42 m³/hr
Refrigerant Type	R22, R407C, R134a, R404A, R507
Displacement (60/50Hz)	1117/929 m3/hr
Weight	143KG
Oil Charge	2.6L
Energy regulation	100, 50%
Standard motor	400V/3/50Hz, 460V/3/60Hz PW
Oil lubrication method	Pressure lubrication

Model SP		H (High-Temp Compressor)							
		SP4HF/SP4HN				SP4H			
		1000 100E	1200 120E	1500 150E	2000 200E	2200 220E	2500 250E	3000 300E	3500 350E
Rated power	Hp/kW	10/7.5	12/8.9	15/11.2	20/14.9	22/16.4	25/18.7	30/22.4	35/26.1
Exhaust volume 50/60Hz	m³/hr	35/42	42/50.4	49/58.8	56/67.2	64.7/77.6	75/90	86.1/103.3	102.9/123.5
Cylinders		4	4	4	4	4	4	4	4
Weight	Kg	143	146	152	155	193	206	209	238
Oil Charge	dm³	2.6	2.6	2.6	2.6	3.7	3.7	3.7	3.7
Crankcase heater		230V~220W~50/60Hz				230V~150W~50/60Hz			
Exhaust pipe inner diameter Φ	mm/inches	22/7/8"	28/1-1/8"	28/1-1/8"	28/1-1/8"	28/1-1/8"	28/1-1/8"	28/1-1/8"	35/1-3/8"
Suction pipe inner diameter Φ	mm/inches	28/1-1/8"	35/1-3/8"	42/1-5/8"	42/1-5/8"	42/1-5/8"	54/2-1/8"	54/2-1/8"	54/2-1/8"
Energy regulation		100,50%	100,50%	100,50%	100,50%	100,50%	100,50%	100,50%	100,50%
Standard motor		400V/3/50Hz 460V/3/60Hz PW				400V/3/50Hz~460V/3/60Hz PW			
Starting current PW/DOL	A	71/110	75/125	86/144	106/168	102/170	123/201	150/243	178/290
Starting current Y/D	A	—	—	—	—	—	—	—	—
Max operating current	A	24	27	33	40	37	43	52	56

Company Introduction

Coolstart brings over two decades of engineering expertise and global export capability to the B2B refrigeration and HVAC marketplace. We deliver comprehensive cooling solutions—from scroll, semi-hermetic, and screw compressors to customized unit coolers and commercial cold storage systems. Our commitment to strict factory quality controls, competitive direct-from-factory pricing, and reliable lead times makes us a trusted supply chain partner for HVAC OEMs, mechanical contractors, and engineering firms worldwide.



Frequently Asked Questions

Q1: How does the SP4HF1000 handle sudden electrical voltage fluctuations in industrial facilities?

A: The motor supports Part-Winding (PW) starting to reduce inrush current, while an integrated INT6982 electronic module monitors motor temperatures to prevent electrical damage.

Q2: How does the compressor maintain efficient oil lubrication during prolonged low-load operation?

A: The internal splash lubrication system, paired with balanced crank throw oil channels, delivers a continuous oil film to all sliding bearings and wrist pins even when stepped down to 50% capacity.

Q3: Is the suction filter difficult to service during routine system maintenance?

A: No, the high-density suction strainer is mounted near the end cover, allowing maintenance technicians to inspect and clean the filter without disconnecting main refrigerant lines.

Q4: What is your standard lead time for global commercial shipments?

A: In-stock sample units ship within 3 business days, while volume commercial manufacturing orders are fulfilled within 10 to 15 working days.

Q5: Can Coolstart provide customized motor voltages and OEM nameplates?

A: Yes, Coolstart provides complete OEM/ODM solutions, including customized multi-language metal nameplates, tailored motor voltage configurations, and private labeling.

Connect with Our Engineering Team

Upgrading your commercial refrigeration systems or sourcing reliable semi-hermetic reciprocating compressors for an upcoming project? Contact the Coolstart technical department today for selection support, dimensional drawings, and factory-direct B2B pricing.

To receive a detailed quotation within 8 hours, please include your required Model, Quantity, Refrigerant, Voltage/Frequency, and Operating Conditions in your request.



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