



## Refcomp SP4HF1500 SP4HF150E 15HP Chiller Reciprocating Compressor for Air Conditioning

Our Product Introduction

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### Basic Information

- Place of Origin: China
- Brand Name: Refcomp
- Certification: CE
- Model Number: SP4HF1500, SP4HF150E
- 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

- Displacement 50/60Hz: 49/58.8 M3/hr
- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Oil Charge: 2.6L
- Weight: 152KG
- Rated Power: 15HP/11.2KW
- Refrigerant: R22, R407C, R134a, R404A, R507
- Highlight: 15HP reciprocating chiller compressor, SP4HF1500 air conditioning compressor, semi hermetic compressor with warranty



### More Images



## Product Description

### Refcomp SP4HF1500 SP4HF150E 15HP Chiller Reciprocating Compressor for Air Conditioning

#### Product Overview

The SP4HF1500(SP4HF150E) chiller semi-hermetic reciprocating compressor is a high-capacity 4-cylinder semi-hermetic unit engineered for commercial HVAC liquid chillers, industrial process cooling, and medium-to-high temperature refrigeration systems.

#### Key Features

##### Optimized Low-Loss Body & Gas Channel Design

Featuring an optimized gas passage and integrated valve layout, this chiller reciprocating compressor minimizes internal pressure drop and flow resistance. The compact housing integrates the suction strainer, shut-off valves, and temperature sensor dry well into a unified structure, significantly saving cabinet installation space in chillers.

##### Built-In Internal Pressure Safety Valve

Equipped with a high-precision internal safety relief valve connecting the high and low-pressure chambers, the compressor automatically opens to relieve pressure whenever internal limits are exceeded. The valve reseats accurately after pressure drops, providing reliable self-protection against overpressure conditions during unexpected system surges.

##### High-Efficiency Suction Filtration System

An internal high-density suction strainer effectively captures solid impurities and debris carried by the refrigerant gas before entering the motor chamber. Positioned on the outer end of the housing, the filter element allows easy inspection and quick replacement during routine maintenance without dismantling major piping connections.

##### 360° Rotatable Shut-Off Valve Assembly

Both suction and discharge shut-off valves can be adjusted 360 degrees to match diverse piping orientations inside chiller frames. This flexible configuration simplifies field installation, reduces pipe stress, and facilitates convenient connections during system setup and service.

#### Application Areas

**Commercial HVAC Chillers** - Suitable for central air conditioning chillers, water-cooled package units, and air-cooled liquid chillers operating in commercial buildings.

**Industrial Process Cooling** - Ideal for manufacturing, plastic molding, and chemical processing facilities where a heavy-duty chiller reciprocating compressor ensures continuous fluid temperature control.

**Cold Storage & Distribution Centers** - Designed for medium-temperature cold rooms, agricultural pre-cooling, and logistics temperature-controlled storage.

**Parallel Compressor Racks** - Applicable to multi-compressor parallel rack configurations feeding supermarket refrigeration systems and food process chillers.

#### Product Image



### Technical Specifications

|                            |                                |
|----------------------------|--------------------------------|
| Model                      | SP4HF1500, SP4HF150E           |
| Rated Power                | 15HP/11.2KW                    |
| Exhaust Volume (50Hz/60Hz) | 49/58.8 m³/hr                  |
| Refrigerant Type           | R22, R407C, R134a, R404A, R507 |
| Weight                     | 152KG                          |
| 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                          | 1200      | 1500      | 2000      | 2200                        | 2500      | 3000       | 3500        |
|                                  |           | 100E                          | 120E      | 150E      | 200E      | 220E                        | 250E      | 300E       | 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<br>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<br>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<br>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<br>460V/3/60Hz PW |           |           |           | 400V/3/50Hz -460V/3/60Hz PW |           |            |             |
| Starting current<br>PW/DOL       | A         | 71/110                        | 75/125    | 86/144    | 106/168   | 102/170                     | 123/201   | 150/243    | 178/290     |
| Starting current<br>Y/D          | A         | -                             | -         | -         | -         | -                           | -         | -          | -           |
| Max operating<br>current         | A         | 24                            | 27        | 33        | 40        | 37                          | 43        | 52         | 56          |

## Company Introduction

Coolstart is a modern, large-scale refrigeration enterprise with over 20 years of technical expertise in the cooling industry. Specializing in reciprocating, scroll, screw, semi-hermetic, and rotary compressors, as well as cold storage and ice-making equipment, Coolstart delivers full OEM/ODM customization services to global partners. Our products are exported to numerous international markets, including Russia, the United States, the United Kingdom, the United Arab Emirates, and Saudi Arabia, earning widespread recognition for engineering quality and cost-effectiveness.



## Frequently Asked Questions

### What key factors should be verified when selecting the SP4HF1500 for a liquid chiller project?

You should verify the required cooling capacity, operating evaporating and condensing temperatures, refrigerant choice, and motor electrical specs against the unit's displacement. Providing detailed working conditions ensures accurate model matching.

### What precautions should be taken when retrofitting this unit into an existing chiller unit?

Confirm line connection diameters, ensure oil compatibility with the existing refrigerant (such as R134a, R407C, or R404A), and inspect the electrical starter panel to verify starting current capacity.

### How often should the suction strainer be inspected during routine chiller operation?

The internal suction strainer should be checked after the initial 100 hours of commissioning to clear installation debris, and subsequently inspected during annual maintenance overhauls to ensure unrestricted suction gas flow.

### What is Coolstart's warranty policy for semi-hermetic compressors?

Coolstart provides a standard 1-year warranty covering all compressor product lines against manufacturing and material defects under normal operating conditions.

### What details are required to obtain a formal quotation from Coolstart?

To issue an accurate quotation within 8 hours, please provide the required compressor model, order quantity, preferred refrigerant, voltage/frequency specification, and target operating conditions.

## Get a Custom Quotation Today

Coolstart delivers high-performance compressor solutions backed by responsive engineering support and competitive pricing for global B2B buyers. Contact our technical sales team today to receive a detailed quotation within 8 hours. Please specify your target **Model, Quantity, Refrigerant, Voltage/Frequency, Operating Conditions, and Project Requirements** when submitting your inquiry.

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