



## Refcomp SP8H6000 SP8H600E 60HP Reciprocating Chiller Compressor for HVAC System

Our Product Introduction

### Basic Information

- Place of Origin: China
- Brand Name: Refcomp
- Certification: CE
- Model Number: SP8H6000, SP8H600E
- 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

- Oil Charge: 5L
- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Rated Power: 60HP/45KW
- Refrigerant: R22, R407C, R134a, R404A, R507
- Displacement: 186/224 M3/hr
- Highlight: **SP8H6000 60HP reciprocating compressor, SP8H600E semi hermetic compressor, 60HP HVAC chiller compressor**



### More Images



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## Product Description

### Product Overview

The RefComp SP8H6000 / SP8H600E is a 60 HP semi-hermetic reciprocating chiller compressor engineered for HVAC and refrigeration systems. It combines three-stage capacity control, a high-temperature compressor design, a refined crankshaft and connecting-rod structure, and partial-winding motor starting to deliver dependable performance across demanding operating conditions.

### Key Features

#### Three-Stage Capacity Control

The SP8H6000 reciprocating chiller compressor features three-stage capacity control, allowing compressor output to adjust according to changing cooling demand. This helps match refrigeration capacity to actual system loads and avoids unnecessary full-load operation during periods of lower demand.

#### High-Temperature Compressor Design

As a high-temperature reciprocating compressor in the RefComp SP H series, the SP8H6000 features optimized internal gas passages that reduce intake resistance and exhaust flow losses. This supports smoother refrigerant flow and helps the compressor operate under its intended high-temperature refrigeration conditions.

#### Refined Crankshaft & Connecting-Rod Structure

RefComp's crankshaft design promotes smooth mechanical movement, effective lubrication and reduced vibration. The wear-resistant bushing at the connecting rod's small end helps minimize friction and mechanical wear, supporting reliable operation over extended service periods.

#### Partial-Winding Motor Starting

The partial-winding starting arrangement helps reduce motor starting current compared with direct-on-line starting. This reduces the initial electrical demand on the power supply and makes it easier to coordinate compressor startup with the refrigeration system's electrical configuration.

### Product Image



## Technical Specification

|                                 |                                |
|---------------------------------|--------------------------------|
| <b>Model</b>                    | SP8H6000, SP8H600E             |
| <b>Rated power</b>              | 60HP / 45KW                    |
| <b>Exhaust volume (50/60Hz)</b> | 186 / 224 m³/hr                |
| <b>Refrigerant Type</b>         | R22, R407C, R134a, R404A, R507 |
| <b>Weight</b>                   | 345KG                          |
| <b>Oil Charge</b>               | 5L                             |
| <b>Voltage</b>                  | 400V/3/50Hz, 460V/3/60Hz PW    |
| <b>Starting current PW/DOL</b>  | 276 / 361A                     |
| <b>Max operating current</b>    | 115A                           |

| 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<br>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<br>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<br>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<br>460V/3/60Hz PW |             |             | 400V/3/50Hz<br>460V/3/60Hz P W |            |
| Starting current<br>PW/DOL       | A         | 178/290                       | 201/330     | 233/394     | 271/361                        | 329/439    |
| Starting current<br>Y/D          | A         | —                             | —           | —           | —                              | —          |
| Max operating<br>current         | A         | 60                            | 75          | 93          | 115                            | 140        |

## FAQ

### Q1: How do I select the right SP8H6000 for my chiller application?

When selecting a 60 HP compressor for a chiller, provide the required cooling capacity, refrigerant, evaporating and condensing temperatures, ambient conditions and power supply. These details help verify whether the reciprocating chiller compressor matches your actual operating requirements.

### Q2: How does the three-stage capacity control benefit refrigeration system operation?

The available capacity steps allow the compressor to respond to different cooling loads instead of continuously operating at full capacity. This provides greater flexibility when system demand changes throughout the operating cycle.

### Q3: What should be confirmed before connecting the compressor motor?

Check that the site power supply matches the specified motor configuration and that the partial-winding starter, phase sequence and electrical protection are correctly arranged. Proper electrical matching helps avoid starting problems and protects the motor during operation.

### Q4: What routine maintenance should operators pay attention to?

For a semi-hermetic reciprocating compressor, regularly monitor lubrication condition, abnormal noise, vibration and refrigerant leakage. If the reciprocating chiller compressor experiences repeated protection trips or unusual operating conditions, identify the underlying cause before restarting.



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