



## 06EA299 40HP Industrial Reciprocating Chiller Compressor

Our Product Introduction

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### Basic Information

- Place of Origin: China
- Brand Name: Carlyle
- Certification: CE
- Model Number: 06EA299
- Minimum Order Quantity: 1
- Price: Discussed
- Packaging Details: WOODEN CASE
- Delivery Time: 1 Month
- Payment Terms: Western Union,T/T
- Supply Ability: 100PC



### Product Specification

- Horse Power: 40HP
- Compressor Type: Semi Hermetic Piston
- Condensertype: Air-cooled
- Refrigerant: R22, R134a, R404A, R407C, R507, R407A
- Commercial Refrigeration: HVAC&Cooling Units
- Highlight: **40HP industrial reciprocating chiller compressor, semi hermetic chiller compressor, industrial reciprocating compressor with warranty**



### More Images



## Product Description

### 06EA299 40HP Industrial Reciprocating Chiller Compressor

#### Product Overview

##### High-Capacity Efficiency with Swedish Steel Valving

Designed for large-scale liquid chillers, industrial process cooling, and commercial refrigeration racks, this 40HP reciprocating chiller compressor delivers maximum thermal efficiency under demanding operational loads. It eliminates capacity degradation during peak cooling demands by utilizing low-pressure valve plates manufactured from Swedish steel and oversized porting. Furthermore, contoured piston profiles combined with vented connecting rods minimize clearance volume and optimize crankcase oil flow, ensuring this reciprocating chiller compressor maintains superior performance over extended duty cycles.

##### Advanced Lubrication and 6-Cylinder Unloading Control

Severe load fluctuations and frequent restarts often cause lubricant dilution and component friction in high-horsepower refrigeration systems. This heavy-duty reciprocating chiller compressor combats these risks through an oversized oil sump that maintains crankcase oil levels safely above minimum thresholds during cold starts. Supported by a bidirectional positive displacement vane oil pump and a 66% or 33% suction cutoff unloading mechanism, it handles partial thermal loads at significantly lower operating temperatures than traditional hot gas bypass configurations.

##### Continuous Motor Protection and Heavy-Bearing Durability

Built for continuous industrial service, the machinery incorporates enlarged internal suction passages that reduce gas turbulence and pressure drop, maximizing motor cooling via suction gas flow. The main bearings are constructed with steel-backed aluminum alloy or tin babbitt materials, offering extraordinary load capacity and superior resistance against liquid refrigerant slugging, thermal breakdown, and high operating pressures.

#### Product Image



## Technical Specifications

|                  |                                       |
|------------------|---------------------------------------|
| Model            | 06EA299                               |
| Nominal Power    | 40 HP                                 |
| Refrigerant Type | R22, R134a, R404A, R407C, R507, R407A |
| Rated Current    | 95 A                                  |
| Oil Charge       | 9 L                                   |
| Weight           | 236 kg                                |

| Model   | Displacement @ 1450 rpm/ min | Nominal Power (HP) | Cylinders | Energy Regulation % | Interface Size          |                        | Voltage Options   |                          | Oil Charge (L) | Weight (kg) |
|---------|------------------------------|--------------------|-----------|---------------------|-------------------------|------------------------|-------------------|--------------------------|----------------|-------------|
|         |                              |                    |           |                     | Connection Port mm (in) | Discharge Port mm (in) | 400-3-50,460-3-60 | LRA (A) XL/PW First coil |                |             |
| 06EA_50 | 71.4                         | 20                 | 4         | 50                  | 42 (1-5/8)              | 28 (1-1/8)             | 44                | 173/104                  | 8              | 195         |
| 06EA_65 | 91.8                         | 25                 | 6         | 66 / 33             | 42 (1-5/8)              | 35 (1-3/8)             | 56                | 223/134                  | 9              | 218         |
| 06EA_75 | 106.8                        | 30                 | 6         | 66 / 33             | 54 (2-1/8)              | 35 (1-3/8)             | 68                | 253/162                  | 9              | 222         |
| 06EA_99 | 140.4                        | 40                 | 6         | 66 / 33             | 54 (2-1/8)              | 42 (1-5/8)             | 95                | 345/207                  | 9              | 236         |

## Company Introduction

Ruifujie is a modern industrial cooling enterprise with over 20 years of manufacturing expertise, supplying high-performance scroll, piston, rotary, semi-hermetic, and screw refrigeration compressors, along with complete cold storage units and ice machines. Our robust products are exported to major international markets including Spain, Chile, and Malaysia. Backed by solid technical strength and excellent cost performance, Ruifujie maintains reliable, long-term partnerships with global distributors, earning high praise across international markets.



## Frequently Asked Questions

**Q1: What are the displacement and port connection sizes for the 06EA299 compressor?**

A1: The 06EA299 yields a displacement of 140.40 m³/h at 1450 rpm, featuring a 54 mm (2-1/8 in) suction port and a 42 mm (1-5/8 in) discharge port for seamless connection into industrial piping networks.

**Q2: How does the 66% / 33% suction cutoff unloading system operate on this 40HP unit?**

A2: The capacity modulation system deactivates suction to specific cylinder banks during reduced thermal loads, cutting electricity

consumption while keeping operating temperatures lower than hot gas bypass designs.

**Q3: What internal protections keep the 40HP motor cool during continuous operation?**

A3: The unit utilizes high-grade motor insulation and enlarged suction passages that use cool suction gas to maintain low motor winding temperatures even under heavy thermal loads.

**Q4: How is this heavy unit safely packaged for international sea freight?**

A4: Each unit is securely bolted onto a reinforced wooden pallet, wrapped in moisture-proof anti-corrosion film, and encased in a heavy-duty export plywood box.

**Q5: How fast can I receive a technical datasheet and price quote for bulk procurement?**

A5: After submitting your specific working parameters, refrigerant preference, and required quantity, our engineering team will provide a formal quotation within 8 hours.

## Heavy Industrial System Integration & OEM Supply

Selecting a high-horsepower reciprocating chiller compressor requires precise engineering matching to maximize efficiency and operational longevity in industrial cooling systems. Ruifujie offers full technical consultation, customized electrical specifications, and flexible supply terms tailored to your regional market requirements. Please submit your project parameters, working temperatures, target refrigerant, and estimated procurement volume, and our engineering team will deliver a comprehensive proposal within 8 hours.



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