



06EA275 30HP Reciprocating Semi Hermetic Compressor

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: Carlyle
- Certification: CE
- Model Number: 06EA275
- 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

- Commercial Refrigeration: HVAC&Cooling Units
- Horse Power: 30HP
- Compressor Type: Semi Hermetic Piston
- Refrigerant: R22, R134a, R404A, R407C, R507, R407A
- Condensertype: Air-cooled
- Highlight: **30HP semi hermetic compressor, reciprocating semi hermetic compressor, 06EA275 semi hermetic compressor**



More Images



Product Description

06EA275 30HP Reciprocating Semi Hermetic Compressor

Engineered for High-Capacity Industrial Refrigeration

Built for heavy-duty cooling, process chilling, and large-scale cold storage systems, this 30HP reciprocating semi hermetic compressor delivers consistent thermal output under demanding operating environments. It eliminates baseline capacity loss during peak cooling cycles by employing low-pressure valve plates manufactured from Swedish steel and high-flow porting. Additionally, contoured piston heads matched with vented connecting rods optimize internal clearances and maintain proper bearing lubrication, ensuring this reciprocating semi hermetic compressor operates at peak thermodynamic efficiency across extended service intervals.

Advanced Oil Sump and Partial Load Unloading

Frequent pressure fluctuations and low-temperature restarts often lead to oil dilution and severe mechanical wear in high-capacity refrigeration systems. This heavy-duty reciprocating semi hermetic compressor overcomes these challenges using an oversized oil sump that prevents crankcase oil levels from dropping below safe operating limits during startup. Supported by an automatic bidirectional positive displacement vane oil pump and a 66% or 33% suction cutoff unloading system, the unit operates at lower thermal levels than conventional hot gas bypass setups while seamlessly adapting to variable load demands.

Heavy-Duty Motor Protection and Superior Bearing Strength

Designed for continuous industrial duty, the unit features oversized suction passages that minimize internal gas turbulence and pressure drops, maximizing motor cooling via suction gas flow. The main bearing surfaces are crafted from steel-backed aluminum alloy or tin babbitt materials, offering exceptional load capacity and superior resistance against liquid refrigerant slugging, thermal breakdown, and operational stress.

Product Image



Technical Specifications

Model	06EA275
Nominal Power	30 HP
Refrigerant Type	R22, R134a, R404A, R407C, R507, R407A
Rated Current	68 A
Oil Charge	9 L
Weight	222 kg

Company Introduction

Ruifujie is a modern industrial refrigeration enterprise with over 20 years of manufacturing experience, specializing in high-performance scroll, piston, rotary, semi-hermetic, and screw compressors, as well as complete cold room systems and ice machinery. We offer full OEM/ODM customization options to accommodate regional voltage standards, custom mounting frames, and multi-refrigerant demands. Our machinery is exported worldwide to major markets, including Brazil, Saudi Arabia, and Germany, earning consistent praise and trusted long-term partnerships with international distributors.



Frequently Asked Questions

Q1: What are the exact displacement and port connection sizes for the 06EA275 compressor?

A1: The 06EA275 model yields a displacement of 106.80 m³/h at 1450 rpm, equipped with a 54 mm (2-1/8 in) suction port and a 35 mm (1-3/8 in) discharge port for standardized pipeline integration.

Q2: How does the 6-cylinder capacity unloading mechanism benefit heavy cooling setups?

A2: The suction cutoff unloading system allows the compressor to modulate to 66% or 33% capacity during partial thermal loads, significantly reducing power consumption and maintaining lower operating temperatures than hot gas bypass designs.

Q3: What internal features protect the 30HP motor against electrical overheating?

A3: The motor is equipped with advanced insulation systems, heavy-duty protective relays, and enlarged suction gas channels that maintain low motor winding temperatures even under high operating pressure conditions.

Q4: What is the typical lead time for sample units and bulk shipping?

A4: In-stock sample items are dispatched within 3 to 5 business days, while standard bulk production orders are completed and ready for shipment within 10 to 15 working days.

Q5: How is this heavy compressor packaged to prevent damage during transit?

A5: Each compressor unit is securely mounted on reinforced wooden pallets, sealed in moisture-proof anti-corrosion film, and enclosed in heavy-

duty export plywood crates.

Engineering Consultation & Custom Bulk Procurement

Selecting the right reciprocating semi hermetic compressor is essential to ensuring high energy efficiency and uninterrupted operation for large commercial cold storage and industrial chilling applications. Ruifujie provides technical consultation, precision component matching, and flexible OEM services tailored to your market requirements. Please submit your project parameters, working temperatures, target refrigerant, and estimated procurement volume, and our engineering team will provide a comprehensive quotation within 8 hours.

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