



06EA265 25HP Semi Sealed Reciprocating Compressor

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Carlyle
- Certification: CE
- Model Number: 06EA265
- 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

- Condensertype: Air-cooled
- Commercial Refrigeration: HVAC&Cooling Units
- Horse Power: 25HP
- Refrigerant: R22, R134a, R404A, R407C, R507, R407A
- Compressor Type: Semi Hermetic Piston
- Highlight: **25HP semi sealed compressor, semi hermetic reciprocating compressor, 06EA265 reciprocating compressor with warranty**



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Product Description

06EA265 25HP Semi Sealed Reciprocating Compressor

Engineered for High-Capacity Commercial and Industrial Cooling

Built for heavy-duty refrigeration, cold storage, and process cooling applications, this 25HP **semi sealed reciprocating compressor** delivers exceptional thermal performance under demanding operating conditions. It overcomes persistent system capacity losses during peak cooling cycles by utilizing low-pressure valve plates made of high-grade Swedish steel paired with high-flow porting. Furthermore, contoured piston profiles integrated with vented connecting rods optimize cylinder clearance and ensure continuous bearing lubrication, enabling long-term operational stability and high energy efficiency.

Reliable Oil Management and Partial-Load Flexibility

System pressure shifts and low-temperature restarts often induce oil dilution and dangerous wear in commercial cooling installations. This heavy-duty **semi sealed reciprocating compressor** mitigates these operational hazards using an oversized oil sump that maintains crankcase oil levels well above safe thresholds during initial startup. Equipped with a positive displacement bidirectional vane oil pump and a 66% or 33% suction cutoff unloading system, the compressor operates at lower thermal levels than conventional hot gas bypass configurations while smoothly adapting to variable load requirements.

Superior Motor Protection and Heavy-Duty Bearing Resilience

Designed for continuous-duty service, the unit features enlarged suction passages that minimize internal turbulence and pressure drop, drastically improving suction gas cooling across the motor windings. Main bearing and running surfaces are crafted from steel-backed aluminum alloy or tin babbitt materials, offering superior load-bearing capacity and robust resistance against liquid refrigerant slugging, thermal breakdown, and operational stress.

Product Image



Technical Specifications

Parameter Name	Standard Specifications
Model	06EA265
Nominal Power	25 HP
Refrigerant Type	R22, R134a, R404A, R407C, R507, R407A
Rated Current	56 A
Oil Charge	9 L
Weight	218 kg

Company Introduction

With over 20 years of manufacturing excellence in the industrial refrigeration sector, Ruifujie supplies high-performance scroll, piston, rotary, semi-hermetic, and screw compressors, along with complete cold room systems and commercial ice machines. We offer comprehensive OEM/ODM customization services to accommodate local electrical standards and specific system requirements. Our machinery is exported worldwide to key international markets, including Mexico, South Africa, and Vietnam, earning strong recognition and trust from global B2B buyers.



Frequently Asked Questions

Q1: What are the displacement and port connection dimensions for the 06EA265 model?

A1: The 06EA265 compressor delivers a nominal displacement of 91.80 m³/h at 1450 rpm, featuring a 42 mm (1-5/8 in) suction port and a 35 mm (1-3/8 in) discharge port for seamless piping installation.

Q2: How does the 6-cylinder capacity unloading system (66% or 33%) operate?

A2: The suction cutoff unloading mechanism cuts suction gas flow to specific cylinder banks during reduced thermal demand, lowering overall power consumption and operating temperatures compared to hot gas bypass setups.

Q3: How does the motor protection system ensure long-term durability in high ambient conditions?

A3: The motor incorporates heavy-duty insulation materials and enlarged internal suction passages that maximize motor cooling via suction gas flow, preventing overheating even under high pressure and load conditions.

Q4: Can Ruifujie customize the voltage, nameplate, or packaging for bulk orders?

A4: Yes, we provide full OEM/ODM options, including customized voltage specifications, private branding/nameplates, and heavy-duty export packaging according to your market needs.

Q5: How quickly can I get an official quotation and technical datasheet for this model?

A5: Simply provide your required operating temperatures, voltage, target refrigerant, and project quantity, and our technical sales team will send

a detailed proposal within 8 hours.

Technical Consultation & Custom Solution Inquiries

Selecting the right **semi sealed reciprocating compressor** is vital to ensuring low operational costs and high cooling reliability for large commercial systems. Ruifujie offers engineering support, system component matching, and customized manufacturing tailored to your exact project parameters. Send us your project requirements, refrigerant preference, operating conditions, and target order volume today, and our engineering team will provide a comprehensive quotation within 8 hours.

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