



06EA250 20HP Semi Hermetically Sealed Compressor

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: Carlyle
- Certification: CE
- Model Number: 06EA250
- 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

- Compressor Type: Semi Hermetic Piston
- Condensertype: Air-cooled
- Commercial Refrigeration: HVAC&Cooling Units
- Refrigerant: R22, R134a, R404A, R407C, R507, R407A
- Horse Power: 20HP
- Highlight: 20HP semi hermetically sealed compressor, 06EA250 semi hermetic compressor, 20HP semi hermetic compressor with warranty



More Images



Product Description

06EA250 20HP Semi Hermetically Sealed Compressor

High-Efficiency Valving for Large Commercial Cooling

Engineered for high-demand industrial refrigeration and commercial cold storage systems, this 20HP **semi hermetically sealed compressor** delivers exceptional thermal performance across medium and low-temperature applications. It eliminates capacity loss during peak refrigeration cycles through low-pressure valve plates crafted from Swedish steel and high-flow port design. In addition, contoured piston profiles combined with vented connecting rods optimize cylinder clearance and maintain continuous bearing lubrication, allowing this **semi hermetically sealed compressor** to operate with maximum efficiency over heavy-duty service cycles.

Advanced Lubrication Sump and 50% Unloading System

Fluctuating operational loads and severe cold starts often cause oil dilution and premature mechanical wear in large-capacity cooling networks. This robust **semi hermetically sealed compressor** overcomes these challenges using an oversized 8.0 L oil sump that keeps crankcase oil levels safely above minimum thresholds upon startup. Supported by an automatic bidirectional vane oil pump and a 50% suction cutoff unloading system, the unit effectively manages partial thermal loads while maintaining lower operating temperatures than conventional hot gas bypass setups.

Heavy-Duty Motor Protection and Reinforced Bearings

Built to endure continuous industrial service, the compressor incorporates enlarged suction passages that minimize gas turbulence and pressure drop, significantly enhancing suction gas cooling across the motor windings. The main journal bearings feature steel-backed aluminum alloy or tin babbitt construction, delivering superior load-bearing strength and outstanding resistance against liquid refrigerant slugging and thermal degradation.

Product Image



Technical Specification

Parameter Name	Standard Specifications
Model	06EA250
Nominal Power	20 HP

Refrigerant Type	R22, R134a, R404A, R407C, R507, R407A
Rated Current	44 A
Oil Charge	8 L
Weight	195 kg

Company Introduction

With over two decades of expert manufacturing in industrial cooling solutions, Ruifujie specializes in supplying top-tier scroll, piston, rotary, semi-hermetic, and screw refrigeration compressors, as well as complete cold storage systems and ice-making machinery. We provide fully customized OEM/ODM engineering solutions tailored to regional voltage standards and operational conditions. Our products are exported to key global markets including Brazil, Vietnam, and South Korea, earning high acclaim from commercial contractors and international distributors.



Frequently Asked Questions

Q1: What are the displacement and suction/discharge port dimensions for the 06EA_50 model?

A1: The 06EA_50 delivers a high displacement of 71.40 m³/h at 1450 rpm, utilizing a 42 mm (1-5/8 in) suction connection and a 28 mm (1-1/8 in) discharge connection for high-capacity fluid circuits.

Q2: What starting methods are supported by the 06EA_50 motor, and what are the starting current (LRA) specifications?

A2: The unit supports Direct-on-Line (XL) starting with a Locked Rotor Amperage (LRA) of 173 A, as well as Part-Winding (PW) starting with a reduced first-winding LRA of 104 A to lower initial power grid impact.

Q3: How does the 50% suction cutoff unloading system operate under partial load conditions?

A3: The suction cutoff capacity control deactivates suction to two of the four cylinders during periods of lower thermal demand, reducing electrical consumption while keeping compressor operating temperatures lower than traditional hot gas bypass methods.

Q4: How does the automatic bidirectional vane pump protect the compressor when using HFC/POE oil?

A4: The positive-displacement vane oil pump rapidly builds oil pressure regardless of rotational direction, preventing oil pressure drops during startup or load shifts when operating with HFC refrigerants and POE lubricants.

Q5: What protective packaging is used to ensure safe transport for this 195 kg compressor?

A5: Every heavy unit is secured on heavy-duty wooden pallets, wrapped in vacuum anti-corrosion film, and enclosed in multi-layer reinforced

export wooden crates designed for international sea freight.

Commercial Cold Chain Sizing & B2B Procurement

Selecting a high-capacity **semi hermetically sealed compressor** requires accurate system matching to maintain optimum refrigeration efficiency and minimize total operational cost. Ruifujie provides technical consultation, custom mounting configurations, and full system integration support for large-scale refrigeration projects. Send us your project parameters, working conditions, and target order quantities today, and our engineering specialists will provide a detailed proposal within 8 hours.



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