



06DR820 6.5HP Semi Hermetic Type Compressor

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: Carlyle
- Certification: CE
- Model Number: 06DR820
- 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: 6.5HP
- Compressor Type: Semi Hermetic Piston
- Condensertype: Air-cooled
- Refrigerant: R22, R134a, R404A, R407C, R507, R407A
- Commercial Refrigeration: HVAC&Cooling Units
- Highlight: **6.5HP semi hermetic compressor, semi hermetic type compressor, 06DR820 semi hermetic compressor**



More Images



Product Description

06DR820 6.5HP Semi Hermetic Type Compressor

Product Overview

Built specifically for heavy-duty commercial cold storage and industrial chilling applications, this 6.5HP **semi hermetic type compressor** delivers consistent refrigeration performance under demanding thermal loads.

Optimizing Commercial Refrigeration Efficiency

Resolves system capacity degradation during peak operating hours by utilizing low-pressure valve plates manufactured from premium Swedish steel and high-flow porting. Contoured piston profiles combined with vented connecting rods minimize clearance volume and improve bearing lubrication, ensuring maximum energy efficiency over extended service cycles.

Advanced Oil Management and Capacity Modulation

Eliminates operational risks from fluctuating pressures and cold starts with an oversized oil sump that maintains safe oil levels during startup. Equipped with a bidirectional positive displacement vane oil pump and 50% suction cutoff unloading system, it handles partial thermal loads at lower operating temperatures than standard hot gas bypass designs.

Heavy-Duty Motor Cooling and Bearing Durability

Engineered for continuous commercial operation with oversized suction passages that minimize gas turbulence and pressure drops. Main bearing surfaces constructed from steel-backed aluminum alloy or tin babbitt materials provide extraordinary load-bearing strength and resistance against liquid refrigerant slugging and thermal degradation.

Product Image



Technical Specifications

Parameter Name	Standard Specifications
Model	06DR820
Nominal Power	6.5 HP
Refrigerant Type	R22, R134a, R404A, R407C, R507, R407A
Rated Current	14.1 A
Oil Charge	2.6 L
Weight	118 kg

Company Introduction

Bringing over 20 years of manufacturing excellence to the global cooling industry, Ruifujie specializes in supplying high-performance scroll, piston, rotary, semi-hermetic, and screw refrigeration compressors, as well as complete cold room systems and industrial ice machines.

We offer comprehensive OEM/ODM customization services to meet distinct regional electrical and engineering specifications. Our equipment is exported to major international markets including Australia, South Africa, and Germany, where Ruifujie maintains strong partnerships with global distributors and earns high acclaim across B2B channels.



Frequently Asked Questions

Q1: What is the exact displacement rate and port connection size for the 06DR820 model?

A1: The 06DR820 model delivers a displacement of 28.20 m³/h at 1450 rpm, featuring a 35 mm (1-3/8 in) suction port and a 22 mm (7/8 in) discharge port for seamless integration into commercial piping systems.

Q2: How does the 50% suction cutoff unloading system operate on this 4-cylinder model?

A2: The capacity modulation system deactivates suction to two cylinders during reduced cooling demands, cutting electrical power consumption while maintaining lower operating temperatures than traditional hot gas bypass designs.

Q3: How does the bidirectional vane oil pump ensure adequate lubrication with HFC refrigerants and POE oil?

A3: The positive displacement vane pump rapidly establishes sufficient oil pressure even when using HFC/POE oil combinations, preventing oil pressure drops during initial startup and load shifts.

Q4: What is your typical lead time for sample units and bulk orders?

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

Q5: What packaging standards are used to prevent shipping damage for heavy units (118 kg)?

A5: Each unit is securely mounted on reinforced wooden pallets, wrapped in anti-corrosion moisture-proof film, and enclosed in heavy-duty export cardboard boxes to ensure safe transit.

Technical Selection & Custom Wholesale Orders

Choosing the right **semi hermetic type compressor** configuration is essential for maximizing cooling performance and operational efficiency in industrial systems. Ruifujie offers full engineering support, custom electrical configurations, and personalized OEM solutions tailored to your market.

Please send us your specific project parameters, working conditions, and estimated procurement volume, and our team will issue a complete technical and commercial quote within 8 hours.



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