



06DR013 3HP Industrial Cooling Semi Compressor

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: Carlyle
- Certification: CE
- Model Number: 06DR013
- 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: 3HP
- Highlight: **3HP industrial cooling compressor, semi hermetic compressor with warranty, 06DR013 semi compressor 3HP**



More Images



Product Description

06DR013 3HP Industrial Cooling Semi Compressor

High-Precision Valve Design for Commercial Cooling

This compact 3HP **semi compressor** is engineered for commercial cold rooms and low-temperature food preservation equipment, delivering stable refrigeration capacity under continuous thermal loads. It addresses baseline industry challenges such as cooling capacity degradation during peak operational hours by utilizing Swedish steel valve plates and high-flow porting. Furthermore, contoured pistons paired with vented connecting rods optimize internal clearance and ensure proper bearing lubrication, allowing this **semi compressor** to maintain outstanding operating efficiency across extended working cycles.

Advanced Lubrication and Capacity Unloading System

Fluctuating operating pressures and cold starts frequently cause lubricant dilution and severe mechanical wear in standard refrigeration equipment. This durable **semi compressor** overcomes these operational vulnerabilities with an oversized oil sump that keeps oil levels safely above minimum thresholds during initial startup. Equipped with a bidirectional positive displacement vane oil pump and a 50% suction cutoff unloading mechanism, it operates at significantly lower temperatures than hot gas bypass designs while effortlessly adjusting to partial load demands.

Heavy-Duty Motor Protection and Bearing Resilience

To guarantee continuous operation in demanding environments, the system features oversized suction passages that reduce turbulence and pressure drop, maximizing suction gas cooling across the motor winding. The main bearings are constructed with steel-backed aluminum alloy or tin babbitt materials, offering superior load-bearing strength and preventing premature breakdown caused by liquid slugging, thermal degradation, or corrosive refrigerant exposure.

Product Image



Technical Specifications

Parameter Name	Standard Specifications
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Model	06DR013
Nominal Power	3 HP
Refrigerant Type	R22, R134a, R404A, R407C, R507, R407A
Rated Current	5.6 A
Oil Charge	2.1 L
Weight	104 kg

Company Introduction

As a modern, large-scale manufacturing enterprise, Ruifujie supplies high-efficiency scroll, piston, rotary, semi-hermetic, and screw refrigeration compressors alongside complete cold storage units and ice machinery. We offer full OEM/ODM customization services to accommodate diverse regional electrical and engineering specifications. Our premium refrigeration products are exported worldwide, serving major markets in Saudi Arabia, the United Arab Emirates, and the United Kingdom. Built on strong technical expertise and exceptional cost performance, Ruifujie has fostered long-standing, trusted relationships with international distributors, earning consistent acclaim across global markets.



Frequently Asked Questions

Q1: What is the displacement and port connection size of the 06DR013 compressor?

A1: The 06DR013 model provides a displacement of 18.60 m³/h at 1450 rpm, utilizing a 28 mm (1-1/8 in) suction port and a 19 mm (5/8 in) discharge port for easy system integration.

Q2: How does the 50% suction cutoff unloading system function on this 3HP unit?

A2: The unloading mechanism deactivates suction to specific cylinders during low thermal demand, reducing energy consumption and lowering operational temperatures without relying on hot gas bypass setups.

Q3: How does the oversized oil sump prevent compressor damage during cold starts?

A3: During shutdown, refrigerant can dilute the crankcase oil. The oversized sump holds additional lubricant to ensure oil levels never drop below safe operational limits when the compressor restarts.

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

A4: In-stock sample items are dispatched within 3 days, while complete bulk production orders are fulfilled within 10 to 15 working days.

Q5: What warranty protection is provided for overseas buyers?

A5: We provide a comprehensive 1-year warranty across all product categories to guarantee reliable, hassle-free operation.

Distributor Partnership & Long-Term Cooperation Terms

Leveraging our robust manufacturing capacity and proven technical strength, Ruifujie offers highly supportive commercial terms and reliable supply chains for regional distributors and equipment wholesalers. We ensure competitive pricing structures and dedicated technical support to help expand your market footprint with every **semi compressor** unit. Please share your project parameters, required order quantity, or specific target market needs, and our commercial team will deliver a customized cooperation proposal within 8 hours.

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