



06CC665 20HP 400V Two Stage Cold Room Semi Hermetic Compressor

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Carlyle
- Certification: CE
- Model Number: 06CC665
- Minimum Order Quantity: 1
- Price: Discussed
- Packaging Details: WOODEN CASE
- Delivery Time: 1 Month
- Payment Terms: Western Union, T/T
- Supply Ability: 100PC

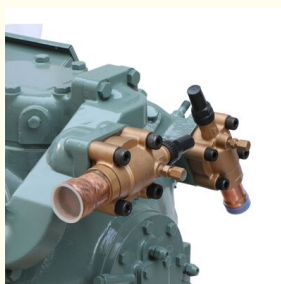


Product Specification

- Condensertype: Air-cooled
- Commercial Refrigeration: HVAC&Cooling Units
- Horse Power: 20HP
- Refrigerant: R22, R404A, R507
- Compressor Type: Semi Hermetic Reciprocating
- Highlight: **20HP semi hermetic compressor, 400V two stage compressor, cold room semi hermetic compressor**



More Images



for more products please visit us on coldroomunit.com

Product Description

06CC665 20HP 400V Two Stage Cold Room Semi Hermetic Compressor

High-Capacity Two-Stage Compression Performance

Built specifically for commercial cold storage, industrial freezing, and low-temperature process cooling, this 20HP semi hermetic compressor features a specialized two-stage compression mechanism housed within a single compact body. Utilizing 6 cylinders—4 cylinders dedicated to the low-pressure stage and 2 cylinders to the high-pressure stage—it achieves a low-stage displacement of 61.2 m³/h at 1450 rpm. The integrated subcooler heat exchanger maximizes liquid subcooling, allowing systems to operate with reduced refrigerant charge while maintaining stable cooling capacity under extreme thermal loads.

Reduced Pressure Ratios and Lower Energy Costs

By dividing total pressure elevation across two compression stages inside one housing, this advanced semi hermetic compressor operates at significantly lower compression ratios per cylinder stage. This design minimizes internal mechanical friction, lowers discharge gas temperatures, and eliminates the need for external booster compressors or complex supplementary subcooler units. Consequently, it maintains lubrication stability and significantly cuts electrical power consumption during low-temperature service.

Superior Structural Reliability and Eco-Refrigerant Support

Engineered for long-term continuous operation, this heavy-duty semi hermetic compressor is UL-approved and compatible with eco-friendly refrigerants including R22, R404A, and R507. Supported by a robust 243 kg cast-iron structure, high-flow Swedish steel valve plates, and a generous 9.0 L oil charge capacity, it delivers optimal bearing protection and exceptional resistance against thermal fatigue in demanding refrigeration systems.

Product Image



Technical Specifications

Model	06CC665
Nominal Power	20 HP
Refrigerant Type	R22, R404A, R507
Rated Current	40 A
Oil Charge	9 L
Weight	243 kg



Company Introduction

Ruifujie is a modern industrial cooling supplier delivering high-performance scroll, piston, rotary, semi-hermetic, and screw refrigeration compressors, alongside complete cold room units and commercial ice machinery. We offer full OEM/ODM customization options to adapt equipment to localized voltage requirements and regional engineering demands. Supported by competitive factory-direct pricing, our products are exported to major international markets including South Africa, Mexico, and the Philippines, earning trusted long-term partnerships with global contractors and equipment distributors.



Frequently Asked Questions

Q1: What are the exact low-pressure and high-pressure stage displacement figures for the 06CC665 compressor?

A1: At 1450 rpm, the 06CC665 model yields a low-pressure stage displacement of 61.2 m³/h across 4 cylinders and a high-pressure stage displacement of 30.6 m³/h across 2 cylinders.

Q2: How does two-stage compression improve performance in low-temperature refrigeration?

A2: By splitting total compression across two stages inside one body, compression ratios per cylinder are significantly reduced, lowering discharge temperatures, saving power, and maintaining high cooling capacity without extra booster units.

Q3: What refrigerants and electrical voltage options are supported by the 06CC665 model?

A3: The unit is UL-approved for R22, R404A, and R507 refrigerants, and operates on standard dual-voltage power supplies (400V-3-50 / 460V-3-60).

Q4: What is the Minimum Order Quantity (MOQ) for purchasing this compressor model?

A4: Our Minimum Order Quantity (MOQ) is 1 unit for standard models currently in stock.

Q5: How quickly can I receive a formal price quote for bulk order inquiries?

A5: Once you submit your project requirements, target refrigerant, and order quantity, our engineering team will provide a formal quotation within 8 hours.

Technical Consultation

Selecting the right two-stage semi hermetic compressor is essential for optimizing energy performance and maintaining stable deep-freezing conditions in industrial facilities. Ruifujie provides technical consultation, precision component selection, and customized OEM solutions tailored to your engineering requirements. Please send us your project parameters, operating temperatures, preferred refrigerant, and estimated quantity today, and our engineering team will issue a comprehensive technical proposal within 8 hours.



