



06EM199 Mid Temperature Semi Hermetic Type Reciprocating Compressor for Cold Storage

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Carlyle
- Certification: CE
- Model Number: 06EM199
- Minimum Order Quantity: 1
- Price: Discussed
- Packaging Details: WOODEN CASE
- Delivery Time: 1 Month
- Payment Terms: Western Union, T/T
- Supply Ability: 10000Pcs/Year



Product Specification

- Compressor Type: Semi Hermetic Piston
- Horse Power: 35HP
- Refrigerant: R22, R134a, R404A, R407C, R507, R407A
- Commercial Refrigeration: HVAC/Air Conditioning/Cold Room/Condensing Unit
- Condensertype: Air-cooled
- Highlight: **Mid Temperature Semi Hermetic Compressor, Reciprocating Compressor for Cold Storage, 06EM199 Semi Hermetic Compressor**



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Product Description

06EM199 Mid Temperature Semi Hermetic Type Reciprocating Compressor for Cold Storage

Product Overview

The 06EM199 semi hermetic type compressor is engineered for high-demand commercial refrigeration rack systems, large cold storage distribution hubs, industrial process chillers, and environmental chambers.

High Volumetric Capacity & Multi-Temperature Flexibility: Driven by a high-torque 35 HP motor delivering a 6-cylinder volumetric displacement of 140.4 m³/h at 1450 rpm, this compressor incorporates Swedish spring steel valve plates and high-flow orifice geometry to minimize valve pressure losses and maximize heat transfer efficiency across R404A, R507, R134a, R407C, and R22 refrigerants.

Suction Cutoff Capacity Control & Reversible Oil Lubrication: Features advanced suction cutoff cylinder unloading design, regulating system output to 66% while running substantially cooler than hot-gas bypass configurations. An automatic reversible positive-displacement oil pump combined with an extra-large oil sump ensures instant, stable oil pressure to critical bearings during cold starts and rapid system transients.

Heavy-Duty Mechanical Build & Global Quality Approvals: Constructed with contoured pistons matching internal head recesses and oil-channelled connecting rods, this compressor eliminates excess clearance volume and reduces friction wear under continuous load duty. Built with steel-backed sleeve bearings, high-temperature motor insulation, and internal thermal sensors, the compressor complies with strict international manufacturing standards including UL, CSA, and ISO 9002 certifications.

Standard Accessories

- Suction Stop Valve
- Discharge Stop Valve
- Discharge Temperature Protector
- Crankcase Heater (Optional)
- Compressor Shock Absorber Springs
- Spring Seats
- Jumper Bars
- Terminal Nuts

Product Image



Technical Specifications

Parameter Name	Standard Specifications
Model	06EM199
Cylinders	6
Nominal Power	35 HP
Refrigerant Type	R22, R134a, R404A, R407C, R507, R407A
Rated Current	77 A
LRA(50/60Hz)	305/183A
Oil Charge	9 L
Weight	229 kg

Model	Displacement @ 1450 rpm/ min (m3/h)	Nominal Power (HP)	Cylinders	Energy Regulation %	Interface Size		Voltage Options		Oil Charge (L)	Weight (kg)
					Connection Port mm (in)	Discharge Port mm (in)	400-3-50,460-3-60			
							*RLA(A)	LRA (A) XL/PW First coil		
06DM808	11.4	3	2	-	22 (7/8)	19 (5/8)	5.6	36	1.4	73
06DM313	18.6	5	4	50	22 (7/8)	19 (5/8)	8.6	50	2.1	107
06DM316	22.8	5	4	50	28 (1-1/8)	19 (5/8)	8.6	50	2.1	107
06DM337	52.4	10	6	66 / 33	42 (1-5/8)	28 (1-1/8)	19.9	114	3.8	147
06EM_50	71.4	15	4	50	54 (2-1/8)	28 (1-1/8)	36	142/85	8	195
06EM_75	106.8	25	6	66	54 (2-1/8)	35 (1-3/8)	56	223/134	9	222
06EM_99	140.4	35	6	66	54 (2-1/8)	42 (1-5/8)	77	305/183	9	229

Company Introduction

Drawing upon over two decades of technical expertise in industrial cooling systems, Ruifujie operates as a modernized enterprise producing premium scroll, piston, rotary, semi-hermetic, and twin-screw compressors, alongside cold room evaporators, quick-freezing equipment, and industrial ice machinery.

We offer full OEM/ODM engineering customization tailored to international project standards. Ruifujie products are exported across worldwide markets, serving engineering clients in Russia, the United States, the United Kingdom, Saudi Arabia, the UAE, and other regions. With dedicated technical capabilities and outstanding cost efficiency, Ruifujie maintains strong, long-term strategic relationships with global commercial buyers.



Frequently Asked Questions

Q1: What refrigeration installations are most suitable for the 35 HP 06EM199 compressor?

A1: The 06EM199 is designed for heavy commercial refrigeration racks, walk-in freezing rooms, cold storage facilities, and process chilling systems requiring high volumetric displacement.

Q2: How does suction cutoff cylinder unloading benefit part-load operations?

A2: By shutting off suction gas to selected cylinder pairs, capacity drops to 66%, reducing power draw and keeping discharge temperatures much lower than conventional bypass methods.

Q3: What lubricants are recommended when operating with HFC refrigerants?

A3: Polyolester (POE) lubricants are recommended for HFC refrigerants like R404A and R134a to ensure proper oil return and compressor lubrication.

Q4: What standard accessories are included with the 06EM199 unit?

A4: Standard accessories include suction/discharge stop valves, discharge temperature protection, mounting springs, spring seats, jumper bars, and terminal hardware.

Q5: What are the standard lead times and export packaging specifications?

A5: In-stock units ship within 3 business days, while volume factory orders require 10-15 days, packed securely in heavy-duty export wooden crates.

Commercial Refrigeration Engineering Support

As an established manufacturer and supplier of commercial refrigeration compressors, Ruifujie offers direct factory wholesale pricing, specialized technical selection guidance, and complete OEM support for every semi hermetic type compressor. Send us your required cooling capacity, operating voltage, refrigerant choice, or batch requirements today, and our sales engineering team will deliver a comprehensive proposal within 8 hours.

 **Shenzhen Coolstart Refrigeration Equipment Co., Ltd**



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