

MAQ QD168H, Can this compressor be installed in a 1.5-meter two-door refrigerator?

Category: Refrigeration

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Mbsmpro.com, Compressor, MAQ QD168H, 1/4 HP, R134a, 195W, 220-240V 50Hz, LBP, Hermetic Refrigerator Compressor

The MAQ QD168H is a high-efficiency hermetic reciprocating compressor specifically engineered for low back pressure (LBP) applications. As an industry-standard power unit for domestic refrigeration, it is the ideal choice for large double-door refrigerators and deep freezers. Its design prioritizes thermal stability and energy conservation, making it a reliable workhorse for technicians and manufacturers alike.

Technical Specifications Data Sheet

| | |
|------------------------------|-------------------------|
| Model | MAQ QD168H |
| Utilization | LBP (Low Back Pressure) |
| Domaine | Freezing / Cooling |
| Oil Type and Quantity | POE / Mineral – 220ml |
| Horsepower (HP) | 1/4 HP |

| | |
|----------------------------------|---|
| Model | MAQ QD168H |
| Refrigerant Type | R134a |
| Power Supply | 220-240V / 50Hz |
| Cooling Capacity | 665 BTU/h (Approx. 195W) |
| Motor Type | RSIR (Remote Start Induction Run) |
| Displacement | 6.8 cm ³ |
| Winding Material | Copper |
| Pressure Charge (Suction) | 0.5 to 1.2 Bar |
| Capillary Recommendation | 0.031" to 0.036" |
| Compatible Appliance | Double door fridge (1.5m) / Chest Freezer |
| Temperature Function | -35°C to -15°C |
| Cooling Method | Static (Natural Convection) |
| Commercial Use | Light Commercial / Domestic |
| Amperage (RLA) | 1.1A – 1.3A |
| LRA (Locked Rotor Amps) | 7.5A |
| Type of Relay | PTC Relay |
| Capacitor | N/A (Optional 4-5µF for RSCR conversion) |

Engineering Insights: Performance and Application

From a field perspective, the QD168H is recognized for its robust starting torque. When installed in a 1.5-meter double-door refrigerator, it provides sufficient mass flow to ensure the evaporator reaches sub-zero temperatures quickly. Because it uses **Copper Windings**, it handles the heat of continuous operation much better than cheaper aluminum-clad alternatives, leading to a significantly longer lifespan.

Comparative Performance Analysis

Below is a comparison of the MAQ QD168H against other global standards in the 1/4 HP category.

| Brand/Model | Refrigerant | HP | Cooling Power (W) | COP (W/W) |
|--------------------|--------------|---------------|-------------------|-------------|
| MAQ QD168H | R134a | 1/4 HP | 195 W | 1.25 |
| Embraco FFI 7.5HAK | R134a | 1/4 HP | 202 W | 1.29 |
| Huayi QD75H | R134a | 1/4 HP | 190 W | 1.22 |
| Samsung SD162 | R134a | 1/5+ HP | 175 W | 1.20 |

Professional Replacement Guide

If you cannot find the MAQ QD168H, use these cross-references. Ensure you verify the physical dimensions and mounting base before installation.

5 Compressor Replacements (Same Gas – R134a):

1. **Embraco:** FFI 7.5HAK / EMI 70HER
2. **Secop:** TLES7.5FT.3
3. **Huayi:** QD75H

4. **ZEL:** GQD75Y
5. **Jiaxipera:** N1113GZ

5 Compressor Replacements (Other Gas – R600a):

Note: R600a requires a complete vacuum, different oil compatibility checks, and a specific charging scale.

1. **Embraco:** EMX70CLC
 2. **Wanbao:** HMK95AA
 3. **Donper:** KKL70CY
 4. **Secop:** TLES7.5KK.3
 5. **Jiaxipera:** NT1114Y
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Installation Notice and Benefits

- **Optimal Performance:** Always replace the Filter Drier when installing this compressor.
- **System Integrity:** Use a vacuum pump for at least 20 minutes to eliminate non-condensables.
- **Voltage Guard:** It is highly recommended to use a voltage protector to shield the PTC relay and motor from spikes.

Focus Keyphrase: MAQ QD168H Compressor 1/4 HP R134a Specifications

SEO Title: Mbsmpro.com | MAQ QD168H Compressor 1/4 HP R134a LBP Technical Review

Meta Description: Detailed technical specifications for the MAQ QD168H 1/4 HP compressor. Learn about its cooling capacity, R134a compatibility, and 1.5m refrigerator suitability. Includes cross-reference guides and pro installation tips.

Slug: maq-qd168h-compressor-1-4-hp-r134a-specifications

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Excerpt: The MAQ QD168H is a high-performance 1/4 HP hermetic compressor designed for R134a refrigerant systems. Ideal for domestic refrigerators and freezers, it offers a cooling capacity of approximately 195W. This article provides a deep dive into its electrical characteristics, displacement, and compatible replacements to ensure a professional and efficient cooling system repair or build.



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