

# 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

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

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

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## 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)
<b>MAQ QD168H</b>	<b>R134a</b>	<b>1/4 HP</b>	<b>195 W</b>	<b>1.25</b>
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

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## 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

**Tags:** Mbsmgroup, Mbsm.pro, mbsmpro.com, mbsm, MAQ QD168H, 1/4 HP Compressor, R134a, LBP Compressor, Refrigerator Repair, QD168H Replacement, Embraco FFI 7.5HAK, Secop TLES7.5FT, Huayi QD75H, ZEL GQD75Y, Samsung SD162, Cooling Capacity.

**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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