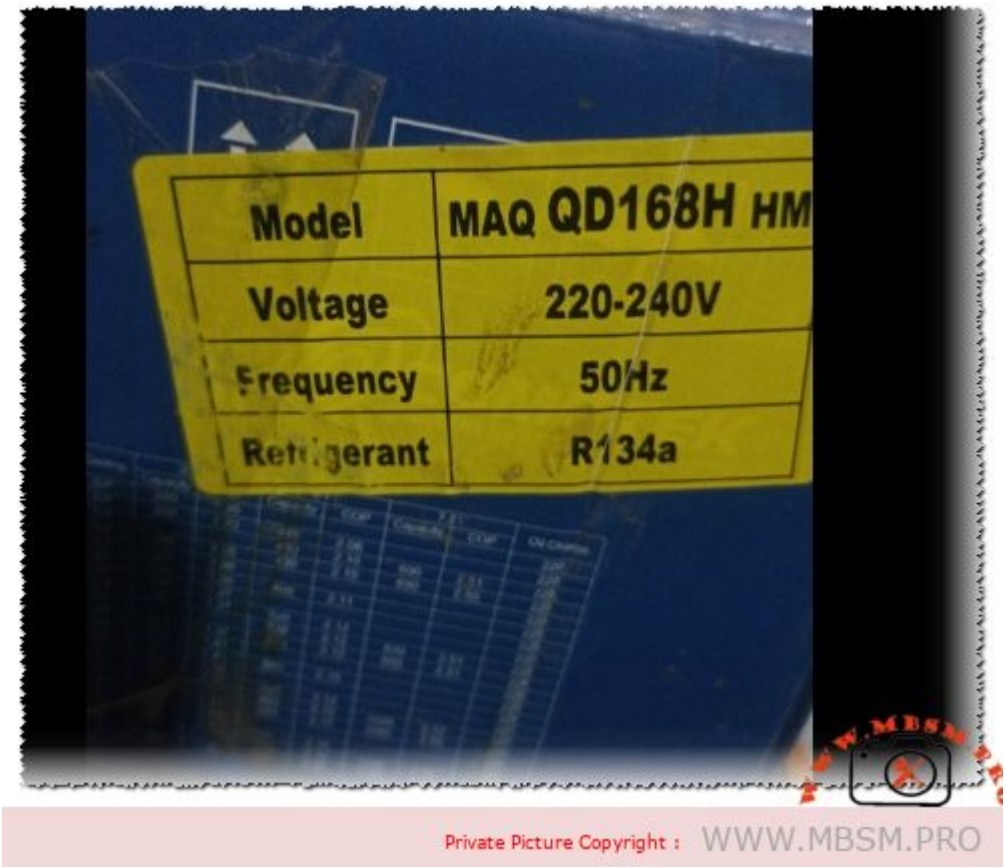
MAQ QD168H, Can this compressor be installed in a 1.5-meter two-door refrigerator?

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 cm³
Winding Material	Copper
Pression 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

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

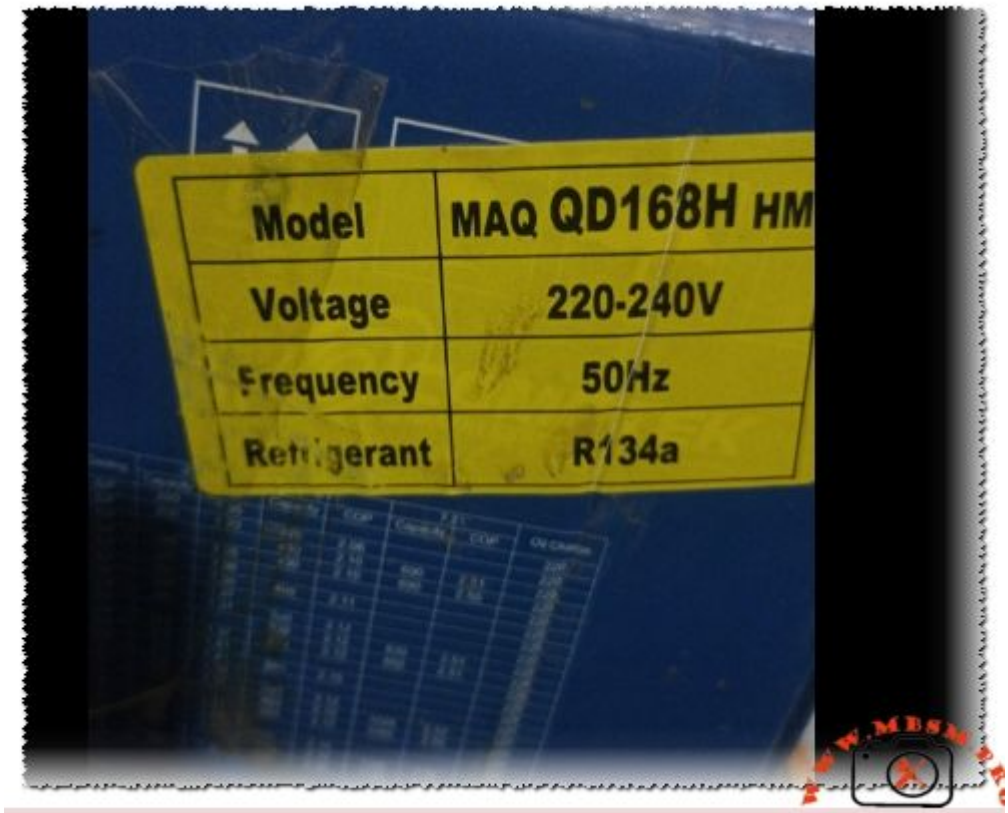
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Meta Description: Detailed technical specifications for the MAQ QD168H 1/4 HP compressor. Learn about its cooling capacity, R134a compatibility, and 1.5m refrigerator suitability. Includes cross-reference guides and pro installation tips.

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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