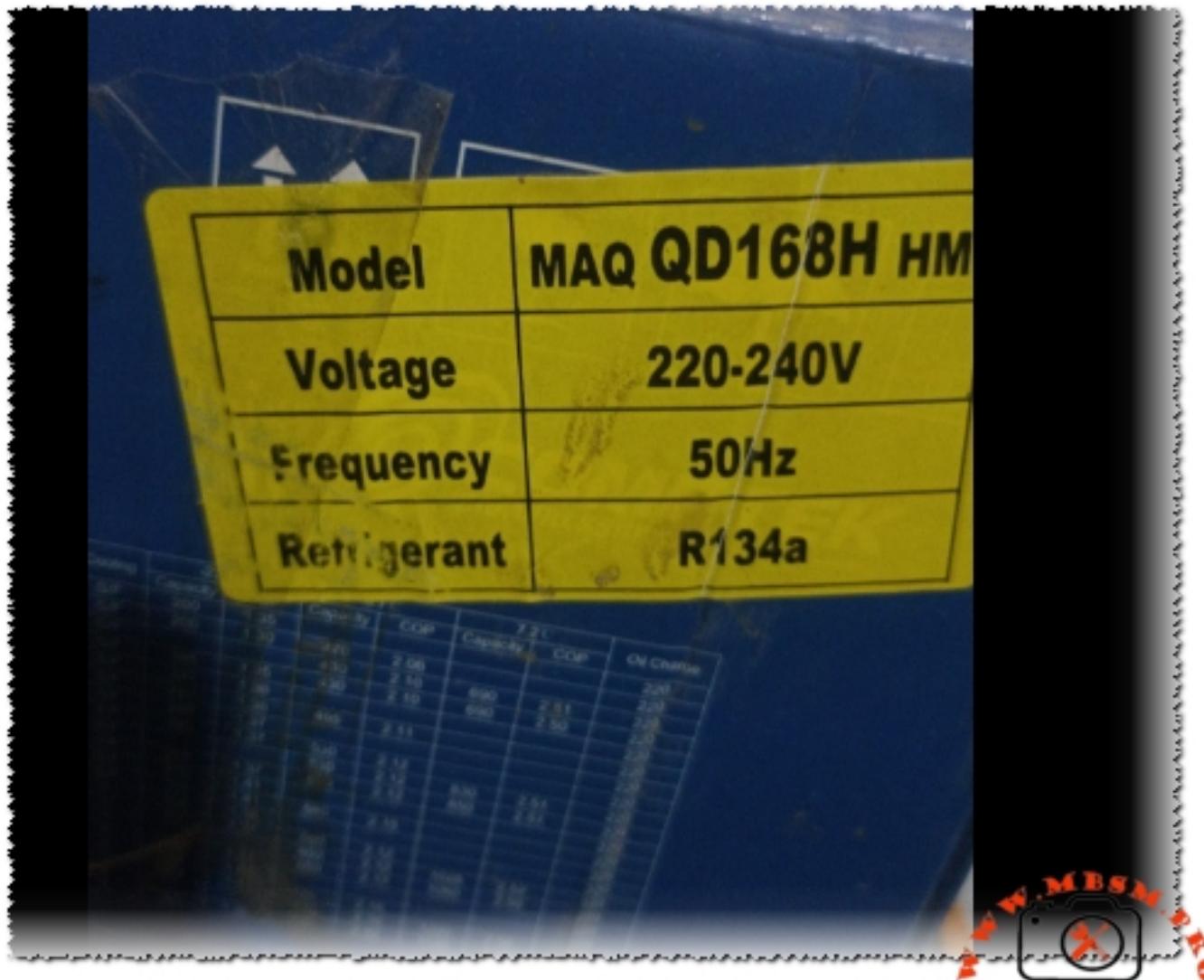


MAQ QD168H, Can this compressor be installed in a 1.5-meter two-door refrigerator?

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January 29, 2026



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
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
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. **Jaxipera:** 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. **Jaxipera:** 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

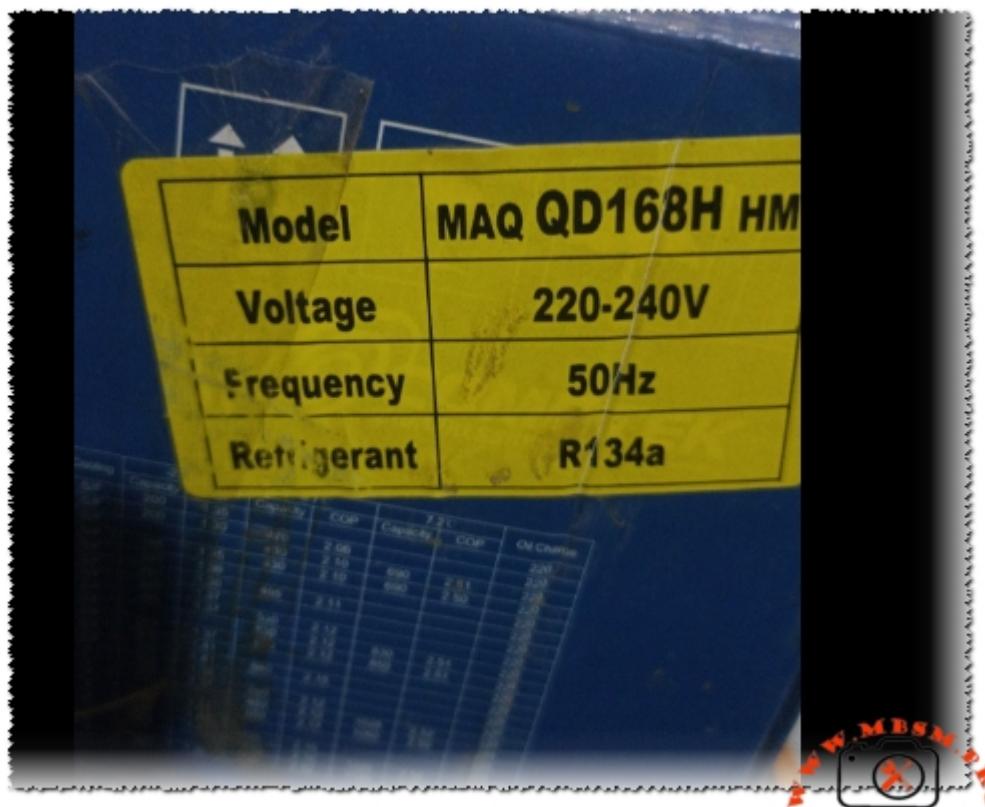
SEO Title: [Mbsmpro.com](#) | [MAQ QD168H](#) Compressor 1/4 HP [R134a](#) LBP Technical Review

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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