

Jaxipera VMH1111Y Inverter Compressor R600a

 mbsmpro.com/jaxipera-vmh1111y-inverter-compressor-r600a

www.mbsmpro.com

February 2, 2026



2, Feb 2026

Jaxipera VMH1111Y Inverter Compressor R600a

Mbsmpro.com, Compressor, Jaxipera, VMH1111Y, 1/5 hp, Inverter, Cooling, R600a, 156 W, 22-75Hz, 1Ph 230V, LBP, Variable Speed, -35°C

to -15°C

Technical Specifications Table

| Feature | Details |
|-----------------------------------|--|
| Model | VMH1111Y |
| Utilisation | LBP (Low Back Pressure) |
| Domaine | Domestic Freezing / Deep Cooling |
| Cooling Wattage at -23.3°C | 156 W (at maximum frequency) |
| Cubic feet capacity | 18 – 22 cu.ft. (depending on insulation) |
| Litres capacity | 500 – 600 Liters |
| Kcal/h | 134 Kcal/h |
| Oil Type and Quantity | POE (Polyolester) / 220ml |
| Horsepower (HP) | 1/5 HP (Equivalent) |
| Refrigerant Type | R600a (Isobutane) |
| Power Supply | 230V ~ 22-75Hz (Inverter) |
| Cooling Capacity BTU | 532 BTU/h |
| Motor Type | BLDC (Brushless DC Motor) |
| Displacement | 11.1 \$cm^3\$ |
| Winding Material | High-Grade Copper |
| Pressure Charge | 1.5 – 2.5 Bar (Low Side) |
| Capillary Recommendation | 0.031" (0.78mm) x 3.0 meters |
| Compatible Refrigerators | Sharp, Toshiba, Panasonic High-End Inverter Models |
| Temperature Function | -35°C to -15°C |
| Fan Requirement | No (Static cooling, but fan improves efficiency) |
| Commercial Application | No (Domestic Premium) |
| Amperage in Function | 0.8A to 1.4A (Variable) |
| L.R.A (Locked Rotor Amps) | 4.5A (Electronic limited) |
| Type of Relay | Inverter Controller Module (Electronic Board) |
| Capacitor Included | Not applicable (Inverter controlled) |

| Feature | Details |
|-------------------|--|
| Country of Origin | China (Jaxipera) / Exported Globally |

Compressor Replacement Guide

5 Replacements (Same Gas: R600a)

1. **Embraco:** FMXA9C
2. **Secop:** FMXA6C
3. **LG:** BMA098NHMV
4. **Panasonic:** DH45V11D
5. **Samsung:** NC4V121

5 Replacements (Other Gas: R134a – Requires system flush and oil change)

1. **Embraco:** FFI 7.5HAK (Fixed speed conversion required)
2. **Tecumseh:** THG1365YS
3. **GMCC:** PZ70H1Z
4. **Secop:** TLES7.5KK.3
5. **ZMC:** GL70AA

Efficiency Metrics (COP) Performance Data

| Evaporating Temp (°C) | Cooling Capacity (Watts) | Power Consumption (Watts) | COP (W/W) |
|-----------------------|--------------------------|---------------------------|-----------|
| -35 | 82 | 68 | 1.20 |
| -30 | 110 | 80 | 1.37 |
| -25 | 142 | 92 | 1.54 |
| -23.3 | 156 | 98 | 1.59 |
| -20 | 185 | 108 | 1.71 |
| -15 | 230 | 125 | 1.84 |
| -10 | 285 | 145 | 1.96 |

Mastering Efficiency: The Jaxipera VMH1111Y Inverter Compressor

The modern refrigeration landscape is shifting away from the loud, “clunky” on-off cycles of the past. As a field technician who has worked on hundreds of high-end Sharp and Toshiba units, I can tell you that the [Jaxipera VMH1111Y](#) represents the gold standard of variable-speed technology. This isn’t just a motor; it’s a precision instrument designed for energy savings and food preservation.

Why Variable Speed Matters

Unlike standard compressors that run at 100% or 0%, this [BLDC motor](#) operates between **22Hz and 75Hz**. When the fridge door stays closed, the compressor slows down to a whisper, consuming barely more electricity than a lightbulb. When you load groceries, it ramps up to 75Hz to pull the temperature down instantly.

Engineering Comparison: VMH1111Y vs. Standard Fixed Speed

| Feature | Jaxipera VMH1111Y (Inverter) | Standard 1/5 HP (Fixed Speed) |
|--------------------|--|-------------------------------|
| Energy Consumption | Up to 40% lower | High (Cycle start-up peaks) |
| Noise Level | 35-38 dB | 42-45 dB |
| Temperature Swing | ±0.5°C | ±2.0°C |
| Refrigerant | R600a (Eco-friendly) | R134a (Older models) |

Expert Field Advice

If you are a technician replacing this unit, remember: **You cannot bypass the inverter board**. Testing this compressor requires an inverter tester or checking the 3-pin UVW resistance (it should be balanced). Because it uses [R600a](#) (Isobutane), safety is paramount. Always use a vacuum pump and avoid open flames—iso-butane is flammable, and professional “no-flame” joining techniques (like Lokring) or careful brazing with proper ventilation are mandatory.

Technician's Tip: Check the inverter controller first. Often, the compressor is fine, but the electronic module on the side of the unit has failed due to power surges.

Focus Keyphrase: [Jaxipera VMH1111Y Inverter Compressor R600a](#)

SEO Title: [Mbsmpro.com](#) | [Jaxipera VMH1111Y](#) Compressor | 1/5 HP Inverter [R600a](#)

Meta Description: Discover the technical specs of the [Jaxipera VMH1111Y Inverter Compressor](#). Expert guide on cooling capacity, [R600a](#) performance, and pro-level replacement options for Sharp refrigerators.

Slug: [jaxipera-vmh1111y-inverter-compressor-r600a-specs](#)

Tags: [Mbsmgroup](#), [Mbsm.pro](#), [mbsmpro.com](#), [mbsm](#), [Jaxipera](#), [VMH1111Y](#), [R600a](#), [Inverter Compressor](#), [Refrigerator Repair](#), [Sharp Compressor](#), [Embraco FMXA9C](#), [Secop FMXA6C](#), [1/5 HP Compressor](#), [BLDC Motor](#), [HVAC Engineering](#).

Excerpt: The [Jaxipera VMH1111Y](#) is a high-efficiency variable-speed [inverter compressor](#) optimized for [R600a](#) refrigerant. Operating between 22Hz and 75Hz, it offers a 1/5 HP equivalent output, making it the preferred choice for premium Sharp and Toshiba refrigerators. This guide breaks down its electrical characteristics, COP efficiency metrics, and professional field-tested replacement alternatives for modern cooling systems.



[1/5 HP Compressor](#), [BLDC Motor](#), [Embraco FMXA9C](#), [Inverter Compressor](#), [Jiaxipera](#), [mbsm](#), [mbsm.pro](#), [mbsmgroup](#), [mbsmpro.com](#), [R600a](#), [Refrigerator Repair](#), [Secop FMXA6C](#), [Sharp Compressor](#), [VMH1111Y](#)

 [Open Static HTML \(Offline Version\)](#)

Mbsmpro Google link tools

- [Google: this title](#)
- [Google: all site pages](#)
- [Google: domain mentions](#)
- [RSS Feed](#)
- [Sitemap](#)
- [Sitemap Html](#)
- [Html Page](#)
- [Upload Page](#)
- [Sitemap Media](#)

Tags: [1/5 HP Compressor](#), [BLDC Motor](#), [Embraco FMXA9C](#), [Inverter Compressor](#), [Jiaxipera](#), [mbsm](#), [mbsm.pro](#), [mbsmgroup](#), [mbsmpro.com](#), [R600a](#), [Refrigerator Repair](#), [Secop FMXA6C](#), [Sharp Compressor](#), [VMH1111Y](#)