

# Jaxipera VMH1111Y Inverter Compressor R600a

Category: Refrigeration

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**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**

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## Technical Specifications Table

Feature	Details
<b>Model</b>	VMH1111Y
<b>Utilisation</b>	LBP (Low Back Pressure)
<b>Domaine</b>	Domestic Freezing / Deep Cooling
<b>Cooling Wattage at -23.3°C</b>	156 W (at maximum frequency)
<b>Cubic feet capacity</b>	18 - 22 cu.ft. (depending on insulation)
<b>Litres capacity</b>	500 - 600 Liters
<b>Kcal/h</b>	134 Kcal/h
<b>Oil Type and Quantity</b>	POE (Polyolester) / 220ml
<b>Horsepower (HP)</b>	1/5 HP (Equivalent)
<b>Refrigerant Type</b>	R600a (Isobutane)
<b>Power Supply</b>	230V ~ 22-75Hz (Inverter)
<b>Cooling Capacity BTU</b>	532 BTU/h
<b>Motor Type</b>	BLDC (Brushless DC Motor)
<b>Displacement</b>	11.1 \$cm^3\$
<b>Winding Material</b>	High-Grade Copper
<b>Pressure Charge</b>	1.5 - 2.5 Bar (Low Side)
<b>Capillary Recommendation</b>	0.031" (0.78mm) x 3.0 meters
<b>Compatible Refrigerators</b>	Sharp, Toshiba, Panasonic High-End Inverter Models
<b>Temperature Function</b>	-35°C to -15°C
<b>Fan Requirement</b>	No (Static cooling, but fan improves efficiency)
<b>Commercial Application</b>	No (Domestic Premium)

Feature	Details
<b>Amperage in Function</b>	0.8A to 1.4A (Variable)
<b>L.R.A (Locked Rotor Amps)</b>	4.5A (Electronic limited)
<b>Type of Relay</b>	Inverter Controller Module (Electronic Board)
<b>Capacitor Included</b>	Not applicable (Inverter controlled)
<b>Country of Origin</b>	China (Jaxipera) / Exported Globally

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## 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

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## 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

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# 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)
<b>Energy Consumption</b>	Up to 40% lower	High (Cycle start-up peaks)
<b>Noise Level</b>	35-38 dB	42-45 dB
<b>Temperature Swing</b>	±0.5°C	±2.0°C
<b>Refrigerant</b>	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.

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**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, Jaxipera, mbsm, mbsm.pro, mbsmgroup, mbsmpro.com, R600a, Refrigerator Repair, Secop FMXA6C, Sharp Compressor, VMH1111Y

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