

# Jiaxipera VMH1111Y Inverter Compressor R600a

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Jiaxipera VMH1111Y Inverter Compressor R600a

**Mbsmpro.com, Compressor, Jiaxipera, 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	<a href="#">VMH1111Y</a>
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	<a href="#">R600a</a> (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
Pression 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 ( <a href="#">Jiaxipera</a> ) / 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 Jiaxipera 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 [Jiaxipera 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	<a href="#">Jiaxipera VMH1111Y</a> (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	<a href="#">R600a</a> (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:** [Jiaxipera VMH1111Y Inverter Compressor R600a](#)

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

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

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

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**Excerpt:** The [Jiaxipera 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.



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