

# Jiaxipera VMH1111Y Inverter Compressor R600a

Category: Refrigeration

written by [www.mbsm.pro](http://www.mbsm.pro) | 2 February 2026



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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

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## 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)                |

| Feature                   | Details  |
|---------------------------|--|
| Cooling Capacity BTU      | 532 BTU/h  |
| Motor Type                | BLDC (Brushless DC Motor)                          |
| Displacement              | 11.1 $\text{cm}^3$                                 |
| 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)               |
| Country of Origin         | China (Jiaxipera) / 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      |

| Evaporating Temp (°C) | Cooling Capacity (Watts) | Power Consumption (Watts) | COP (W/W) |
|-----------------------|--------------------------|---------------------------|-----------|
| -10                   | 285                      | 145                       | 1.96      |

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# 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            | Jiaxipera 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.

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**Focus Keyword:** 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

**Tags:** Mbsmgroup, Mbsm.pro, mbsmpro.com, mbsm, Jiaxipera, VMH1111Y, R600a,

Inverter Compressor, Refrigerator Repair, Sharp Compressor, Embraco FMXA9C, Secop FMXA6C, 1/5 HP Compressor, BLDC Motor, HVAC Engineering.

**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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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

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