Jiaxipera VMH1111Y Inverter Compressor R600a

Category: Refrigeration
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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

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 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

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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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.



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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