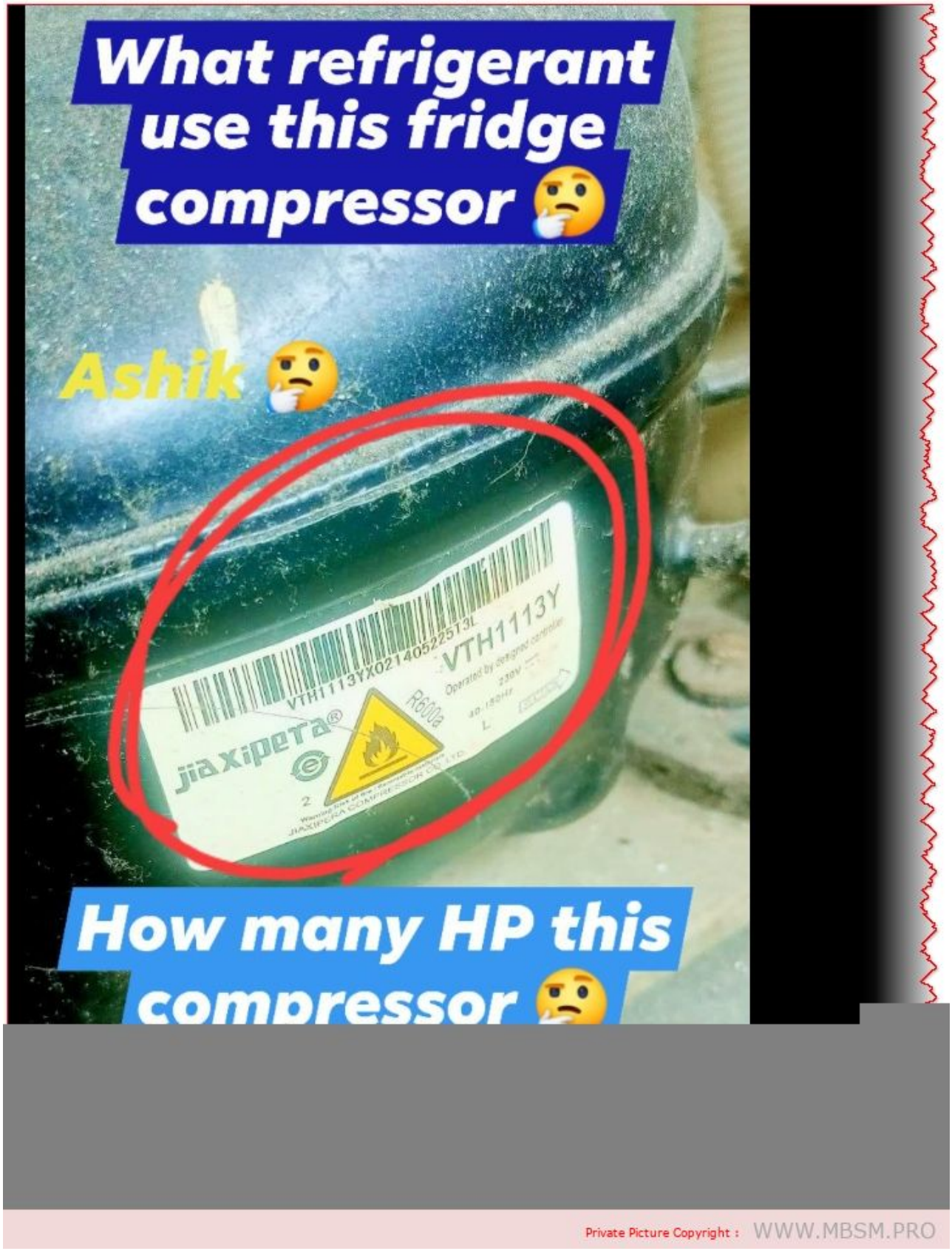
Jiaxipera VTH1113Y Compressor: R600a

Category: Refrigeration
written by www.mbsm.pro | 8 January 2026



Jiaxipera VTH1113Y Compressor: R600a, 220-240V, LBP Cooling, Technical Breakdown and Engineering Insights

Jiaxipera VTH1113Y Compressor Horsepower Rating

The **Jiaxipera VTH1113Y** compressor is typically rated at approximately **1/6 HP (Horsepower)**. This rating aligns with its application in **low back pressure (LBP)** systems, such as household refrigerators using **R600a** refrigerant. The compressor is designed for efficient cooling in temperature ranges from **–35°C to –10°C**, making it suitable for static cooling environments.

Comparison Table: HP Ratings of Similar Compressors

Model	Refrigerant	HP Rating	Application
VTH1113Y	R600a	~1/6 HP	LBP
VTX1116Y	R600a	~1/5 HP	MHBP
VNC1118Z	R134a	~1/5 HP	HBP

Engineering Insight

- **1/6 HP compressors** are ideal for compact refrigerators and deep freezers.
- They offer **low energy consumption** and **quiet operation**, especially when paired with inverter technology.
- **R600a refrigerant** enhances efficiency but requires careful handling due to its flammability.

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This article explores the Jiaxipera VTH1113Y compressor used in inverter refrigerators, highlighting its specifications, performance, and comparisons with similar models.

Mbsmpro.com, Compressor, VTH1113Y, Jiaxipera, R600a, 220-240V, 1PH, 50Hz, LBP, Static Cooling, –35°C to –10°C, Alkyl Benzene Oil, ASHRAE Standard

Technical Overview of Jiaxipera VTH1113Y

Compressor

The **Jiaxipera VTH1113Y** is a hermetic inverter compressor designed for household refrigerators using **R600a (isobutane)** refrigerant. It operates on **220-240V at 50Hz**, with a single-phase configuration. This model is optimized for **Low Back Pressure (LBP)** applications, making it ideal for cooling environments ranging from −35°C to −10°C.

Performance Specifications Table

Parameter	Value
Refrigerant	R600a
Voltage/Frequency	220-240V / 50Hz
Cooling Type	Static
Application	LBP
Evaporating Temp Range	−35°C to −10°C
Displacement	8.9 cm³
Max Winding Temp	130°C
Max Discharge Pressure	0.98 MPa
COP Range	1.60 – 1.72
Power Consumption	40.7W – 131.3W
Current Range	0.44A – 1.25A
Speed Range	1320 – 4500 RPM
Oil Type	Alkyl Benzene

Comparison with Similar Compressors

Model	Refrigerant	HP Rating	Application	COP	Voltage
VTH1113Y	R600a	~1/6 HP	LBP	1.60–1.72	220-240V
VTX1116Y	R600a	~1/5 HP	MHBP	1.65–1.75	220-240V
VNC1118Z	R134a	~1/5 HP	HBP	1.55–1.70	220-240V

VTH1113Y is best suited for low-temperature applications, while VTX1116Y and VNC1118Z serve medium and high pressure systems respectively.

Engineering Insights & Usage Recommendations

- **Use in LBP Systems:** Ideal for deep-freezing and low-temperature refrigeration.
- **R600a Compatibility:** Environmentally friendly with low GWP, but requires leak-proof systems due to flammability.
- **Voltage Stability:** Ensure consistent 220-240V supply to avoid overload protection triggers.
- **Oil Maintenance:** Use only Alkyl Benzene oil for optimal lubrication and longevity.

Benefits of VTH1113Y Compressor

- **Energy Efficient:** High COP values reduce electricity consumption.
- **Quiet Operation:** Inverter technology minimizes noise.

- **Durable Design:** Withstands high discharge pressure and ambient temperatures up to 43°C.

Focus Keyphrase

Jiaxipera VTH1113Y Compressor R600a 220-240V 50Hz LBP Cooling Static Inverter Refrigerator Technical Specifications Comparison

SEO Title

Mbsmpro.com, Compressor, VTH1113Y, Jiaxipera, R600a, 220-240V, LBP, Static Cooling, −35°C to −10°C

Meta Description

Explore the full specifications of Jiaxipera VTH1113Y compressor for inverter refrigerators using R600a. Includes technical tables, performance comparisons, and engineering advice for LBP cooling systems.

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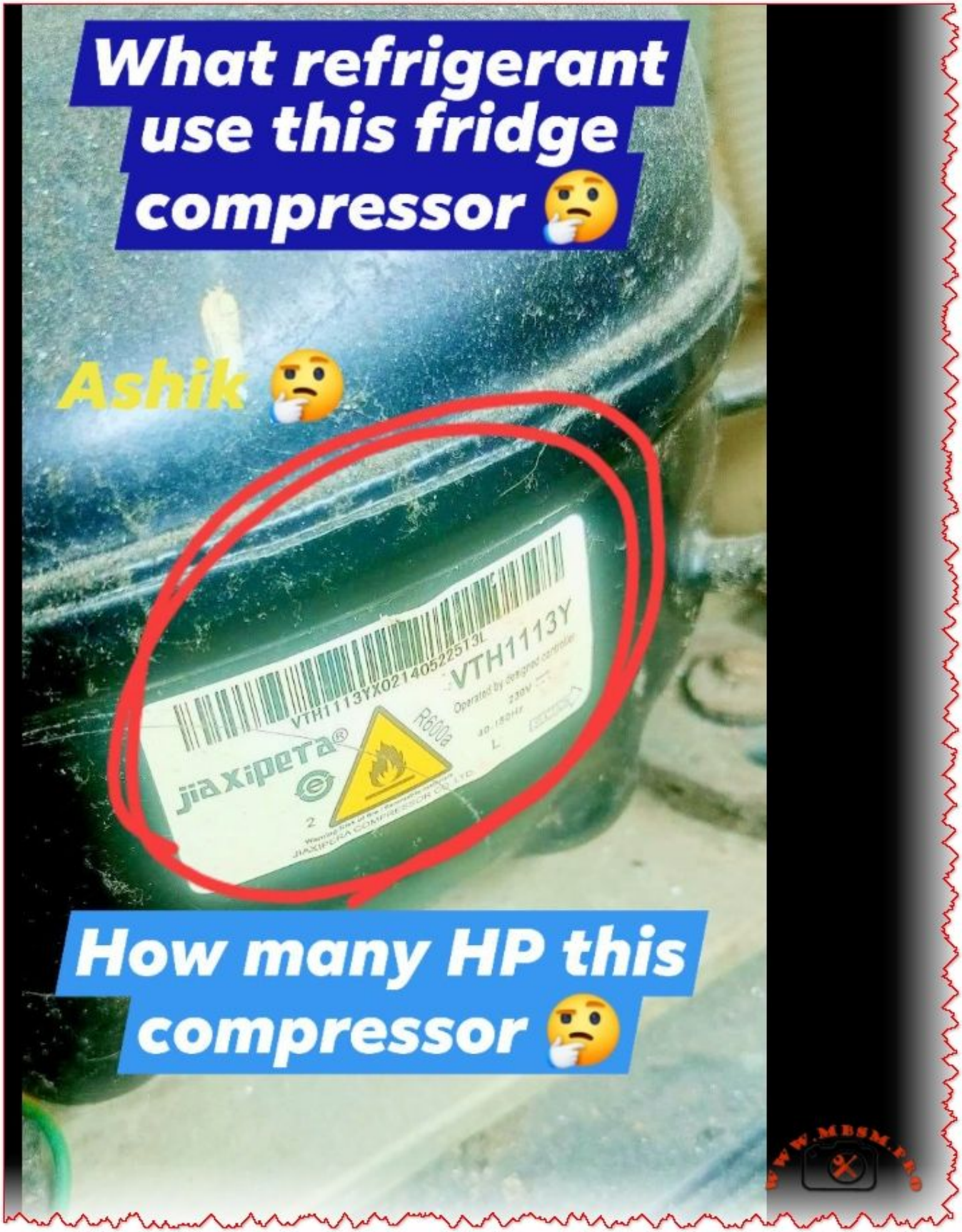
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Tags

Jiaxipera, VTH1113Y, R600a, Compressor, Inverter, Refrigerator, LBP, Mbsmgroup, Mbsm.pro, mbsmpro.com, mbsm, Cooling, Static, 220-240V

Excerpt

Jiaxipera VTH1113Y is a high-efficiency inverter compressor using R600a refrigerant. Designed for LBP applications, it operates on 220-240V and offers quiet, reliable cooling for household refrigerators.



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