

# Embraco FMXY9C Compressor: R600a, 1/6 HP

Category: Refrigeration

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## **Embraco FMXY9C Compressor: R600a, 1/6 HP, Fullmotion Inverter, 220-240V, LBP Cooling - Technical Review and Comparison**

*This article provides a full technical breakdown of the Embraco FMXY9C compressor, including specs, performance, comparisons, and engineering advice for refrigeration systems.*

**Mbsmpro.com, Compressor, FMXY9C, Embraco, R600a, 1/6 hp, Cooling, 220-240V, 1Ph 50Hz, LBP, Fullmotion, Inverter, -35°C to -10°C, CE UL, Austria**

### ***Overview of Embraco FMXY9C Compressor***

The **Embraco FMXY9C** is a hermetic reciprocating compressor designed for **low back pressure (LBP)** refrigeration systems. It uses **R600a (isobutane)** refrigerant, offering high efficiency and low environmental impact. Built in Austria, this model features **Fullmotion inverter technology**, allowing variable speed operation for optimized cooling and energy savings.

### ***Technical Specifications Table***

<b>Parameter</b>	<b>Value</b>
Model	FMXY9C
Brand	Embraco
Refrigerant	R600a
Voltage/Frequency	220-240V / 50Hz
Phase	Single (1Ph)
Rated Load Amps (RLA)	1.1 A
Locked Rotor Amps (LRA)	1.7 A
HP Rating	~1/6 HP
Cooling Type	LBP
Compressor Type	Fullmotion (Inverter)
Displacement	8.74 cm <sup>3</sup>
Max Winding Temp	130°C
Certifications	CE, UL

Parameter	Value
Origin	Austria
Oil Type	Alkyl Benzene
Application Range	-35°C to -10°C

## Comparison with Similar Compressors

Model	Refrigerant	HP Rating	Application	Voltage	Technology
FMXY9C	R600a	~1/6 HP	LBP	220-240V	Fullmotion Inverter
VTH1113Y	R600a	~1/6 HP	LBP	220-240V	Inverter
NEK6210U	R290	~1/5 HP	MBP	115V	RSIR

*FMXY9C offers superior energy control and quieter operation compared to fixed-speed models like NEK6210U.*

## Engineering Insights & Usage Tips

- **Fullmotion Technology:** Adjusts compressor speed based on cooling demand, reducing energy consumption.
- **R600a Refrigerant:** Eco-friendly with zero ozone depletion, but flammable—requires sealed systems and proper ventilation.
- **Electronic Protection:** Prevents overload and ensures safe operation under voltage fluctuations.
- **Maintenance Advice:** Use only Embraco-approved components and compatible oil to maintain performance and warranty.

## Benefits of FMXY9C Compressor

- **Energy Efficiency:** Variable speed operation reduces power draw.
- **Quiet Performance:** Ideal for residential and commercial refrigeration.
- **Durability:** Designed for high ambient temperatures and long duty cycles.

## Focus Keyphrase

Embraco FMXY9C Compressor R600a 1/6 HP Fullmotion Inverter 220-240V 50Hz LBP Cooling Austria CE UL Specs Comparison

## SEO Title

Mbsmpro.com, Compressor, FMXY9C, Embraco, R600a, 1/6 hp, Cooling, 220-240V, 1Ph 50Hz, LBP, Fullmotion

## Meta Description

Explore the full specifications of Embraco FMXY9C compressor for refrigeration systems using R600a. Includes technical tables, performance comparisons, and engineering advice for LBP cooling

applications.

## Slug

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## Tags

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## Excerpt

The Embraco FMXY9C compressor is a high-efficiency inverter model using R600a refrigerant. Designed for LBP applications, it operates on 220-240V and offers quiet, reliable cooling with electronic protection.



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