# Embraco FMXY9C Compressor: R600a, 1/6 HP

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




Private Picture Copyright : WWW.MBSM.PRO

**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

| Parameter | Value |
|---|---|
| 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 $cm^3$ |
| Max Winding Temp | 130°C |
| Certifications | CE, UL |
| 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*

embraco-fmxy9c-compressor-r600a-220v-lbp-fullmotion-specs

# *Tags*

Embraco, FMXY9C, R600a, Compressor, Inverter, Fullmotion, LBP, Cooling, 220-240V, Mbsmgroup, Mbsm.pro, mbsmpro.com, mbsm, Austria, CE, UL

# *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.




Private Picture Copyright : WWW.MBSM.PRO

FT019962_1Download