

FFI10HAK-FFI10HAKW

Category: Refrigeration
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Embraco FFI10HAKW compressor nameplate: key data and professional overview

The *Embraco FFI 10HAKW* is a hermetic reciprocating compressor, 220-230 V single-phase, designed for low and medium back pressure refrigeration systems using R134a. It delivers around 1/3 HP with a 9.04 cm³ displacement, fitting many small commercial cabinets, coolers, and display fridges.

Main technical specifications

The nameplate in the image shows model **FFI 10HAKW**, voltage 220-230 V~ and frequency 50-60 Hz, which allows operation on most European and international single-phase networks. It is thermally protected and approved for refrigerant R134a, with locked-rotor current around 17-18 A, and is manufactured in Brazil for the Embraco/Nidec APA family.

Technical data table

Specification	Value (typical)
Model	FFI10HAK / FFI10HAKW
Compressor type	Hermetic reciprocating, on-off
Displacement	9.04 cm ³
Voltage / phase / freq.	220-230 V, 1~, 50/60 Hz
Refrigerant	R134a
Application range	L/MBP (Low & Medium Back Pressure)
Motor type	RSIR/CSIR, LST starting torque
Nominal motor power	≈ 1/3 HP
Cooling capacity at -10 °C evap., +45 °C cond.	≈ 401-510 W (EN12900)

Typical applications in commercial refrigeration

This compressor is commonly used in upright beverage coolers, refrigerated counters, pastry displays and small commercial freezers where compact size and efficient R134a performance are critical. Thanks to its L/MBP envelope and moderate displacement, it suits positive-temperature cabinets and light low-temperature duties, such as small freezers or ice-cream displays.

Selection and replacement guidelines

When replacing an FFI10HAKW, technicians should match displacement, voltage, application range (L/MBP) and refrigerant to ensure similar cooling capacity and reliability. It is good practice to consult the official Embraco datasheet for operating envelopes, oil charge and performance curves, and to respect EN12900/ASHRAE test conditions when comparing with alternative models.



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