

FFI10HAK-FFI10HAKW

Site: Mbsmpro

Date: December 23, 2025 | **Author:** www.mbsmpro.com

URL: <https://mbsmpro.com/embraco-ffi10hakw-compressor-r134a/>





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.



[embraco-catalog-apaDownload](#)

[eweb-compressors-072020-en-1Download](#)

Latest Articles

- [Guide de Dépannage de la Carte Inverter : Climatiseur Kolin KSM-IW20WAE](#)
- [RCFF-2HP Capillary Tube for a Samsung 18000 BTU air conditioner](#)
- [Carbon brushes washing machine motors](#)
- [Chauffe-eau Junkers : Restauration d'un Classique](#)
- [WS57H Compressor, 1/6 hp, Capacitor Requirement 4mf](#)
- [Hisense inverter expert, installtion](#)
- [Copeland D3DS5-100X 10 HP Freezer Compressor](#)
- [Bitzer 6G-30.2Y: The High-Performance 30 HP Semi-Hermetic](#)
- [Réparer un chauffe-eau à gaz Olympic 6L](#)
- [Best piping practices for semi-hermetic systems](#)
- [Core ChauffeEau Junkers Mid-1980s to Late 1990s](#)
- [Not recommended R410A to R407c](#)
- [Details of refrigerant R134a](#)
- [The electrical circuit for a timer-based steam refrigerator is an interesting one](#)
- [Changing Filter 1/5 Hp](#)
- [1/5 HP Compressor oil change: How much and how to do it right](#)
- [Deep cleaning AC units from A to Z... that's our craft](#)
- [Plumbing Fittings Explained](#)
- [Can the GL80 compressor be installed in place of the GL90?](#)
- [The process of replacing the air conditioner compressor is successful, and it is working as it was before ?](#)