Embraco EGAS 100HLR Guide: Technical Specs & Field Replacements

Category: Refrigeration
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- **Focus Keyphrase:** Embraco EGAS 100HLR Compressor Specs
- **SEO Title:** Embraco EGAS 100HLR Guide: Technical Specs & Field Replacements
- **Meta Description:** Get the breakdown on the Embraco EGAS 100HLR. We cover LRA, R134a specs, displacement, and the best drop-in replacements for this common LBP workhorse.
- **Slug:** embraco-egas-100hlr-compressor-specs-replacements
- **Tags:** Mbsmgroup, Mbsm.pro, mbsmpro.com, mbsm, Embraco, EGAS 100HLR, R134a, LBP, Compressor Replacement, HVAC, Refrigeration Repair, 220-240V.
- **Excerpt:** The Embraco EGAS 100HLR is a staple in domestic refrigeration. This guide provides the raw technical data and equivalent models for fast field

swaps.

Field Introduction

You'll run into the **Embraco EGAS 100HLR** mostly in standard household refrigerators and large upright freezers. It's a reliable Low Back Pressure (LBP) unit built for R134a. When these fail, it's usually a hard start issue or a grounded winding after years of heat cycles. It's a straightforward swap, but you need to match the displacement and LRA to keep the system balanced.

Technical Specifications Table

Feature	Details
Model	EGAS 100HLR
Brand	Embraco
Refrigerant	R134a
Application	LBP (Low Back Pressure)
Voltage/Frequency	220-240V / 50-60Hz
Phase	1 PH (Single Phase)
LRA (Locked Rotor Amps)	16.9 A (at 60Hz) / 16.0 A (at 50Hz)
Horsepower (HP)	~1/3 HP
Displacement	7.95 cm^3
Motor Type	RSIR/CSIR (Depending on starter kit)
Cooling Capacity	~235 – 280 Watts (ASHRAE LBP)
Protection	Thermally Protected

Electrical & Origin Details

- **Relay Type:** Uses a standard PTC or a Current Relay if configured for CSIR.
- **Capacitor Needs:** Usually runs fine without a run capacitor (RSIR), but a start capacitor (approx. 60-80 µF) is often added for high-torque starts.
- **Manufacturing Origin:** Joinville, Brazil (as seen on the nameplate).

Efficiency Metrics (ASHRAE LBP)

Performance changes based on your evaporator temperature. Here's what to expect:

Evaporating Temp (°C)	Cooling Capacity (Watts)	Power Consumption (Watts)	COP (W/W)
-35	130	145	0.90
-30	185	170	1.09
-25	240	195	1.23
-23.3	265	205	1.29
-20	310	225	1.38
-15	390	255	1.53

Drop-in Replacements

If you can’t source the exact EGAS 100HLR, these models match the displacement and cooling curve for R134a systems:

- **Embraco:** FFI 10HBX or EGYS 100HLP (High Efficiency version).
- **Secop/Danfoss:** TLES10KK.3 or NLE10KK (Ensure R134a compatibility).
- **Jiaxipera:** N1114GZ.
- **GMCC:** SZ90E1H.
- **Huayi:** HYE96YG.
- **Tecumseh:** THG1374YS.

Field Note: Always replace the filter drier and pull a deep vacuum to 500 microns before charging R134a. This model uses POE oil; don’t leave the system open to the atmosphere for longer than necessary.



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