

# Embraco EGAS 100HLR Guide: Technical Specs & Field Replacements

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- **Focus Keyword:** [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-100h1r-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

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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

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

## Electrical & Origin Details

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- **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  $\mu$ F) is often added for high-torque starts.
- **Manufacturing Origin:** Joinville, Brazil (as seen on the nameplate).

## Efficiency Metrics (ASHRAE LBP)

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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

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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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