

# LG NS24LAEG Compressor Specs and Replacements

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- **Brand:** LG
  - **Model:** NS24LAEG
  - **Voltage/Frequency:** 220-240V ~ 50Hz
  - **Phase:** 1PH
  - **Protection:** Thermally Protected
  - **Origin:** LG Electronics Inc. / Made in Korea
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## SEO Metadata

- **Focus Keyword:** LG NS24LAEG Compressor Specs and Replacements
- **SEO Title:** Mbsm.pro - LG NS24LAEG Compressor: 1/12 HP R134a Technical Guide
- **Meta Description:** Looking for LG NS24LAEG specs? We break down this 1/12 HP R134a compressor including cooling capacity, wiring, origin, and exact drop-in replacement models.
- **Slug:** lg-ns24laeg-compressor-r134a-specs
- **Tags:** Mbsmgroup, Mbsm.pro, mbsmpro.com, mbsm, LG Compressor, NS24LAEG, R134a, LBP, 1/12 HP, RSIR, HVAC Repair.
- **Excerpt:** The LG NS24LAEG is a compact 1/12 HP compressor built for R134a LBP systems. You'll usually find this unit running small water dispensers and mini-fridges. Here is the raw technical data and field replacements.

## Field Introduction

You see the LG NS24LAEG pulled out of small residential appliances like water dispensers, dorm fridges, and under-counter ice boxes. It is a strictly Low Back Pressure (LBP) pump running R134a. Rated right around 1/12 HP,

it has a tiny 2.42 cc displacement. It is not built to handle heavy commercial loads. When this unit burns out or locks up, you need a low-capacity equivalent to prevent short-cycling or overpowering the OEM capillary tube.

### Technical Specifications Table

Feature	Details
<b>Model</b>	NS24LAEG
<b>Brand</b>	LG
<b>Application</b>	LBP (Low Back Pressure)
<b>Refrigerant</b>	R134a
<b>Displacement</b>	2.42 cm <sup>3</sup>
<b>Voltage</b>	220-240V / 50Hz / 1Ph
<b>Motor Type</b>	RSIR (Resistance Start - Induction Run)
<b>Cooling Capacity (-23.3°C)</b>	44 W / 150 BTU/h
<b>Horsepower (HP)</b>	~1/12 HP
<b>Input Power</b>	76 W

### Electrical & Origin Details

- **Relay Type:** PTC Starting Relay (specifically the P220MC matching the RSIR motor).
- **Capacitor Needs:** None. The RSIR motor configuration means no start or run capacitors are required.
- **Overload Protector:** 4TM117SFB external thermal overload.

- **Manufacturing Origin:** Manufactured by LG Electronics Inc. in Korea.

### Efficiency Metrics Table

Performance drops hard if you push an LBP pump outside its temperature envelope. Here is how the NS24LAEG runs across the standard low-temp spectrum.

<b>Evaporating Temp (°C)</b>	<b>Cooling Capacity (Watts)</b>	<b>Power Consumption (Watts)</b>	<b>COP (W/W)</b>
-35	22	52	0.42
-30	31	61	0.50
-25	41	72	0.56
-23.3	44	76	0.58
-20	55	83	0.66
-15	73	94	0.77

### Drop-in Replacements

When you can't source the exact LG NS24LAEG, you need a 1/12 HP, R134a LBP compressor with a displacement around 2.4 to 3.0 cc. Here are solid field equivalents:

- **Embraco EMY20CLC:** A rock-solid 1/12 HP drop-in. Matches the LBP footprint and capillary demands perfectly.
- **Secop / Danfoss TL3G:** Slightly larger displacement (3.13 cc) but throttles well for small fridges and dispensers.
- **Jiaxipera T1040Y:** Common Chinese market equivalent. Easy to pipe in and matches the RSIR electrical setup.

- **Huayi HYB35YG:** Standard replacement. Pulls similar wattage and fits exactly the same base plate.
- **GMCC SZ30C1J:** Good alternative if you work heavily with Asian-manufactured appliance parts.



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