

# 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

## 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>	<a href="#">NS24LAEG</a>
<b>Brand</b>	LG
<b>Application</b>	<a href="#">LBP</a> (Low Back Pressure)
<b>Refrigerant</b>	<a href="#">R134a</a>
<b>Displacement</b>	2.42 cm <sup>3</sup>
<b>Voltage</b>	220-240V / 50Hz / 1Ph
<b>Motor Type</b>	<a href="#">RSIR</a> (Resistance Start – Induction Run)
<b>Cooling Capacity (-23.3°C)</b>	44 W / 150 BTU/h
<b>Horsepower (HP)</b>	~ <a href="#">1/12 HP</a>
<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.

Evaporating Temp (°C)	Cooling Capacity (Watts)	Power Consumption (Watts)	COP (W/W)
-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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