

LG NS24LAEG Compressor Specs and Replacements

Category: Mbsmpro, Refrigeration

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