# 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

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**SEO Metadata**

- **Focus Keyphrase:** 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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