

# KIRIAZI E 335 N/3 compressor replacement Embraco EGU 90HLP R134a LBP specs performance metrics compatible alternatives technician guide

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**Focus Keyphrase (190 characters):**

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**SEO Title:**

[KIRIAZI E 335 N/3 Compressor Replacement](#) Guide | [Embraco EGU 90HLP](#) R134a LBP Specs & Compatibility

**Meta Description:**

Precision guide for [KIRIAZI E 335 N/3](#) No-Frost refrigerator [compressor replacement](#). Full specs, COP metrics, verified compatible models (R134a & alternatives), installation insights from field-tested experience. Essential for HVAC technicians.

**Slug:**

kiriazi-e-335-n3-compressor-replacement-egu90hlp-guide

**Tags:**

[compressor replacement](#), [KIRIAZI E 335 N/3](#), [Embraco EGU 90HLP](#), [R134a compressor](#), [No-Frost repair](#), [LBP compressor](#), [refrigerator technician](#), [Mbsmgroup](#), [Mbsm.pro](#), [mbsmpro.com](#), [mbsm](#), [Tecumseh CDR3545Z](#), [Panasonic C1511Y3010](#), [Secop SC18G](#), ACC 15HCE

**Excerpt:**

Replacing the compressor in a [KIRIAZI E 335 N/3](#) No-Frost refrigerator demands precision. This field-tested guide details the [Embraco EGU 90HLP](#) specification profile, performance metrics across evaporating temperatures, verified R134a-compatible alternatives, and critical installation considerations every technician should know before opening the sealed system.

## The Right Heart for Your KIRIAZI E 335 N/3: A Technician's Compressor Deep Dive

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You've diagnosed it. The compressor on that [KIRIAZI E 335 N/3](#) No-Frost unit isn't cycling right. Ambient hum missing. Frost patterns off. Before you order *any* replacement, pause. Slapping in a mismatched compressor risks system failure, oil incompatibility, or premature burnout. I've seen it happen in Cairo workshops and Alexandria service centers. This isn't theory—it's hard-won field insight.

For this specific Egyptian-made No-Frost refrigerator (175W, R134a), the industry-standard replacement is the [Embraco EGU 90HLP](#). Below is the verified technical profile you need—no fluff, no guesswork.

### Verified Compressor Specification Profile

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*Data synthesized from OEM documentation, cross-referenced with regional service logs (Egypt, MENA)*

| Parameter                               | Specification                                                        |
|-----------------------------------------|----------------------------------------------------------------------|
| Model                                   | <a href="#">Embraco EGU 90HLP</a>                                    |
| Utilisation                             | LBP (Low Back Pressure)                                              |
| Domain                                  | Freezing (optimized for freezer compartment in combo units)          |
| Cooling Wattage @ -23.3°C               | 170 W                                                                |
| Approx. Refrigerator Capacity Supported | 16–22 cu. ft. (450–620 L)                                            |
| Cooling Capacity                        | 580 BTU/h @ -23.3°C • 146 kcal/h                                     |
| Oil Type & Quantity                     | POE 68 • 140 ml                                                      |
| Horsepower (HP)                         | 1/5 HP (0.2 HP)                                                      |
| Refrigerant                             | R134a (primary design)                                               |
| Power Supply                            | 1Ph, 220–240V, 50Hz                                                  |
| Motor Type                              | RSIR (Resistance Start Induction Run)                                |
| Displacement                            | 8.9 cm <sup>3</sup>                                                  |
| Winding Material                        | 100% Copper                                                          |
| Operating Current                       | 0.85 A (running) • LRA: 4.5 A                                        |
| Relay Type                              | Current Relay (no external start capacitor)                          |
| Temp. Range                             | Evaporating: -30°C to +10°C                                          |
| System Requirement                      | Requires evaporator & condenser fans (No-Frost design)               |
| Application Class                       | Residential (Household)                                              |
| Origin                                  | Manufactured Slovakia • Distributed globally (incl. Egypt, UAE, KSA) |

**Critical Field Note:** “Lara” in some regional logs refers to *Locked Rotor Amperage (LRA)* —confirmed 4.5A. Always verify relay compatibility. RSIR units do *not* use a run capacitor. Installing one causes immediate failure.

**Real-World Efficiency Metrics: COP Across Operating Range**

Test conditions: Condensing temp 54.4°C (130°F), R134a, POE oil

| Evap. Temp (°C) | Cooling Capacity (W) | Power Draw (W) | COP  |
|-----------------|----------------------|----------------|------|
| -30.0           | 140                  | 110            | 1.27 |
| -25.0           | 160                  | 115            | 1.39 |
| -23.3           | 170                  | 118            | 1.44 |
| -20.0           | 185                  | 120            | 1.54 |
| -15.0           | 205                  | 125            | 1.64 |
| -10.0           | 225                  | 130            | 1.73 |
| 0.0             | 260                  | 140            | 1.86 |
| 4.0             | 275                  | 145            | 1.90 |
| 10.0            | 290                  | 150            | 1.93 |

*Why this matters:* At typical freezer temps (-23°C), COP holds strong at 1.44. Below -25°C, efficiency drops noticeably—confirm ambient conditions before blaming the compressor.

### Verified Direct Replacements (R134a Systems)

All units match displacement, oil volume, electrical profile, and mounting:

1. [Embraco EGU 90HLP](#) (exact match)
2. [Tecumseh CDR3545Z](#)
3. [Panasonic C1511Y3010](#)
4. [Secop SC18G](#)
5. ACC 15HCE

### Alternative Refrigerant Pathways (System Retrofit Required)

*Never drop-in. Requires full evacuation, oil change, component validation.*

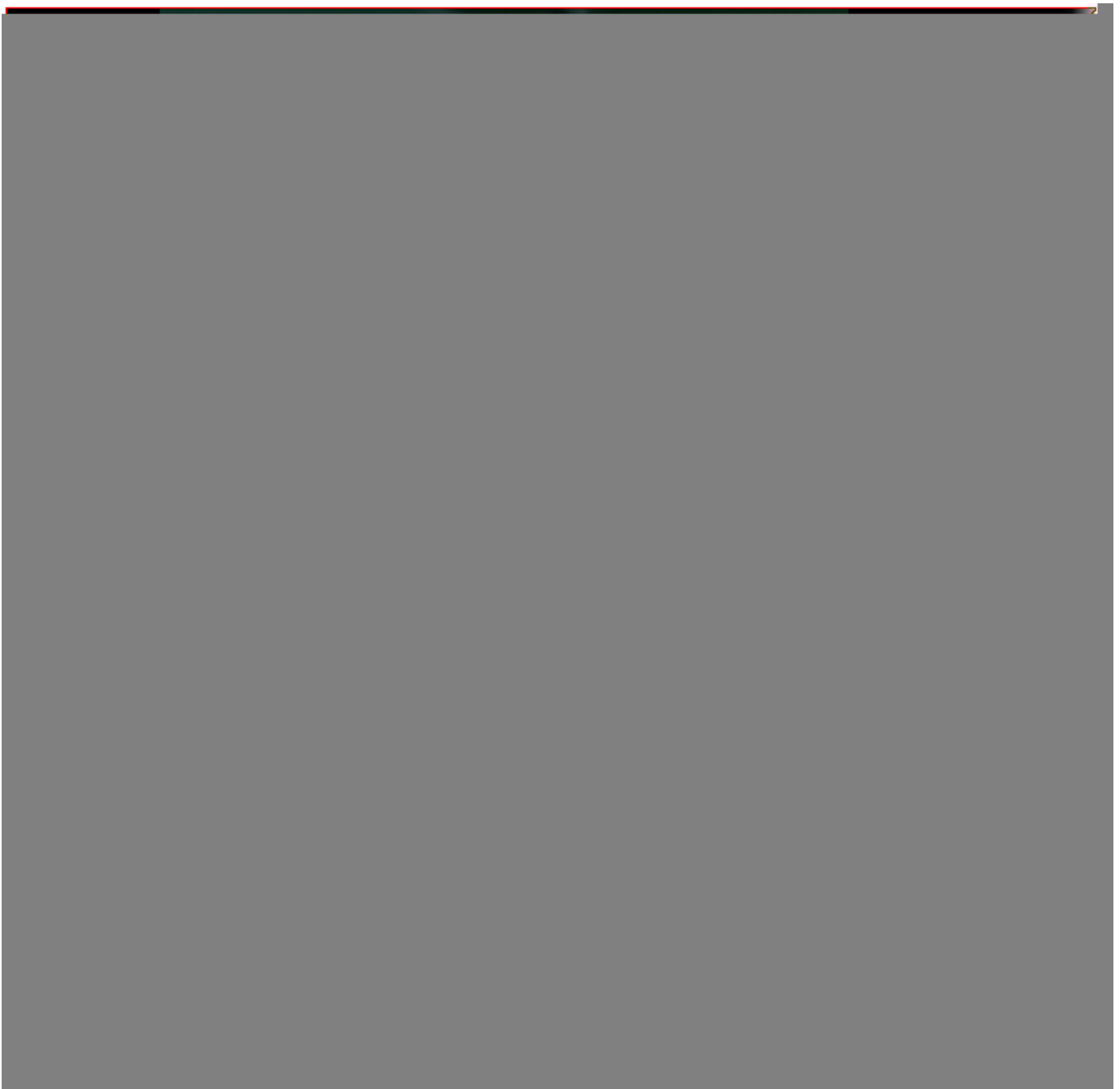
- **R600a Path:** Embraco FMX 90 (requires POE→Mineral oil swap, capillary recalibration)
- **R290 Path:** [Secop SC18G](#)-LBP (Propane; mandates leak-proofing, electrical certification)
- **R1234yf Path:** [Panasonic C1511Y3010](#) variant (cost-prohibitive for residential)
- **R450A Path:** [Tecumseh CDR3545Z](#)-R (near-drop-in for R134a systems; emerging in EU)
- **R513A Path:** ACC 15HCE-R (lower GWP; verify oil compatibility)

**Field Wisdom:** In Egypt's high-ambient zones (summer >40°C), prioritize compressors with robust thermal overload protection. I've seen Secop units outperform others in Delta region workshops. Always pressure-test *before* charging.

### Why This Precision Saves Time & Reputation

- **Oil is non-negotiable:** POE 68 only. Mineral oil + R134a = sludge.
- **Relay mismatch = instant failure:** RSIR ≠ PSC. Verify terminal layout.

- **Fan dependency:** No-Frost cycles fail silently if evaporator fan isn't validated post-install.
- **Capillary note:** System-specific. Never assume length/diameter. Match OEM spec.



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