# R134a compressor, 1/3 HP, LBP, commercial refrigeration, domestic freezer, cooling capacity, COP, mbsm.pro, mbsmgroup.tn, mbsmgroup, mbsmpro, mbsmpro.com, Siberia, Panasonic, Embraco, Secop, Tecumseh, Donper, Cubigel, Zero, ZMC, Samsung

Category: Refrigeration
written by www.mbsm.pro | 4 November 2025




Selecting a compressor for refrigeration and freezing is more than numbers; it’s about trust, energy efficiency, and optimal performance in demanding environments. This professional comparison presents 10 of the most respected LBP R134a compressors, used worldwide for both commercial and domestic cooling solutions. All models deliver consistent results, and this data-driven guide will help you make a confident choice.

**Comparison Table:**

| Model | Brand | HP | Voltage/Freq | Refrigerant | Cooling Capacity (W) | C.O.P (W/W) | Application | Typical Use |
|---|---|---|---|---|---|---|---|---|
| GFF75AA | Siberia | 1/3 | 220-240V/50Hz | R134a | 215 | 1.25 | LBP | Freezing/Cooling |
| PFL75AA | Panasonic | 1/3 | 220-240V/50Hz | R134a | 248–324 | 1.41–2.03 | LBP | Freezing/Cooling |
| EGAS100HLR | Embraco | 1/3 | 220-240V/50Hz | R134a | 250 | ~1.20–1.30 | LBP | Freezing/Cooling |
| STT134L | Secop | 1/3 | 220-240V/50Hz | R134a | 205 | ~1.20 | LBP | Freezing/Cooling |
| AEA4440Y | Tecumseh | 1/3 | 220-240V/50Hz | R134a | 226 | 1.10 | LBP | Freezing/Cooling |
| ZR86AA | Zero | 1/3 | 220-240V/50Hz | R134a | 250 | 1.52 | LBP | Commercial/Freezing |

| Model | Brand | HP | Voltage/Freq | Refrigerant | Cooling Capacity (W) | C.O.P (W/W) | Application | Typical Use |
|---|---|---|---|---|---|---|---|---|
| GPY14NGA | Cubigel | 1/3 | 200-220V/50Hz | R134a | 250 | ~1.30 | LBP | Display fridges |
| LM72CZ | Donper | 1/3 | 220V/50Hz | R134a | ~245 | ~1.25 | LBP | Fridge/Freezer |
| EGM90AZ | ZMC | 1/3 | 220-240V/50Hz | R134a | ~235 | ~1.20 | LBP | Domestic, commercial |
| ML200A | Samsung | 1/3 | 220-240V/50Hz | R134a | ~240 | ~1.22 | LBP | Home/commercial |

**Exclusive Images:**

- 


**Analysis and Use Cases:**

- **Siberia GFF75AA:** Known for balanced performance and robust construction.
- **Panasonic PFL75AA:** Superior range, especially for commercial applications.
- **Embraco EGAS100HLR:** Quiet, efficient—choice for high-demand retail.
- **Secop STT134L:** Trusted for reliability and multi-temperature settings.
- **Tecumseh AEA4440Y:** Durable, time-tested, fits tough environments.
- **Zero ZR86AA:** High efficiency, strong for commercial setups.
- **Cubigel GPY14NGA:** Reliable, used in display and retail cooling.
- **Donper LM72CZ:** Versatile and value-focused.
- **ZMC EGM90AZ:** Efficient for domestic and small business.
- **Samsung ML200A:** Modern electronics, energy efficiency.

**Conclusion:**

Every fridge, freezer, and cold chain project has its unique requirements. The compressors above deliver trusted results for cooling and freezing, each with strengths in performance, efficiency, and system compatibility. For professional guidance and integration help, contact **mbsmgroup.tn** or **mbsmpro.com**.




mbsmpro.com-R134a compressor 13 HP LBP commercial refrigeration domestic freezer cooling capacity COP mbsmpro mbs