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- FG65
- FG75
- FG85
- FG95
- EGu130
- Es60

Domestic Embraco Compressors: A Comprehensive Guide to R134a Low-Temperature Models

When it comes to refrigeration systems, selecting the right compressor is a crucial step in ensuring efficient and reliable performance. Embraco, a globally recognized brand, has long been known for its high-quality compressors designed for a wide range of applications. In this article, we will explore their lineup of domestic R134a low-temperature compressors, focusing on various models and their specifications.

Overview of R134a Low-Temperature Compressors

R134a is a commonly used refrigerant known for its excellent thermodynamic properties and environmental friendliness compared to older refrigerants like R22. Embraco's R134a low-temperature compressors are designed to operate efficiently even in demanding conditions, such as freezer applications where temperatures can drop as low as -23.3°C (-9.9°F). These compressors are suitable for both residential and light commercial use, providing reliable cooling solutions for freezers, display cases, and other cold storage needs. Below is a detailed breakdown of the key models offered by Embraco, along with their technical specifications:

Technical Specifications Table

Model	Displacement (cc)	Horsepower (HP)	Capacity @ -23.3°C (Watts)
EM30 HNP	3.01	1/10	62
EM40 HNP	3.77	1/8	88
EM50 HNP	4.99	1/6	120
EM60 HNP	5.54	1/6	139
FG65 HAKW	6.67	1/5	164
FG75 HAKW	7.95	1/4	184
FG85 HAKW	9.05	1/4	227
FG95 HAKW	10.61	1/3	258
EGU130 HLCW	11.20	1/3	311

Key Features of Each Model

1. EM30 HNP

- **Displacement:** 3.01 cc
- **Horsepower:** 1/10 HP
- **Capacity at -23.3°C :** 62 Watts
- The EM30 HNP is ideal for smaller applications where space and energy efficiency are critical. With a displacement of 3.01 cc, it provides sufficient capacity for compact freezer units.

2. EM40 HNP

- **Displacement:** 3.77 cc
- **Horsepower:** 1/8 HP
- **Capacity at -23.3°C :** 88 Watts
- This model offers slightly higher displacement and horsepower, making it suitable for small to medium-sized freezers or coolers.

3. EM50 HNP

- **Displacement:** 4.99 cc
- **Horsepower:** 1/6 HP
- **Capacity at -23.3°C :** 120 Watts
- The EM50 HNP is a step up in terms of performance, offering a balance between size and cooling power for medium-duty applications.

4. EM60 HNP

- **Displacement:** 5.54 cc
- **Horsepower:** 1/6 HP
- **Capacity at -23.3°C :** 139 Watts

- With an increased displacement and higher cooling capacity, the EM60 HNP is well-suited for larger freezers or more demanding environments.
5. **FG65 HAKW**
 - **Displacement:** 6.67 cc
 - **Horsepower:** 1/5 HP
 - **Capacity at -23.3°C:** 164 Watts
 - The FG65 HAKW introduces greater cooling potential, making it an excellent choice for medium to large freezers requiring consistent performance at low temperatures.
 6. **FG75 HAKW**
 - **Displacement:** 7.95 cc
 - **Horsepower:** 1/4 HP
 - **Capacity at -23.3°C:** 184 Watts
 - Offering enhanced capacity and horsepower, the FG75 HAKW is designed for heavy-duty applications that require robust cooling capabilities.
 7. **FG85 HAKW**
 - **Displacement:** 9.05 cc
 - **Horsepower:** 1/4 HP
 - **Capacity at -23.3°C:** 227 Watts
 - This model further elevates performance with a higher displacement and wattage output, making it suitable for industrial-grade freezers.
 8. **FG95 HAKW**
 - **Displacement:** 10.61 cc
 - **Horsepower:** 1/3 HP
 - **Capacity at -23.3°C:** 258 Watts
 - The FG95 HAKW is one of the most powerful compressors in the lineup, capable of delivering significant cooling capacity for large-scale freezing operations.
 9. **EGU130 HLCW**
 - **Displacement:** 11.20 cc
 - **Horsepower:** 1/3 HP
 - **Capacity at -23.3°C:** 311 Watts
 - As the top-tier model in the series, the EGU130 HLCW boasts the highest displacement and cooling capacity. It is perfect for heavy-duty applications that demand maximum performance under extreme conditions.

Conclusion

Embraco's R134a low-temperature compressors provide a versatile range of options for various refrigeration needs. Whether you're looking for a compact solution for home use or a heavy-duty compressor for industrial applications, Embraco has a model to meet your requirements. By understanding the specifications and capabilities of each model, you can make an informed decision that ensures optimal performance and energy efficiency in your refrigeration system. In summary, Embraco continues to lead the industry with innovative and reliable compressor designs that cater to a broad spectrum of cooling demands. Their commitment to quality and sustainability makes them a trusted choice for both domestic and commercial refrigeration solutions.



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