



TECHNOLOGY NATURALLY THOUGHT



 **Embraco**®



One in every five refrigerators in the world has an Embraco compressor

Embraco creates complete cooling solutions in the development of innovative and high performance products for the commercial and household refrigeration segments.

As a market leader throughout the world, Embraco owes its 36 years of success to long lasting and strategic relationships.

Market and Technological Leader in Hermetic Compressors for Refrigeration

Factories in Brazil, Italy, Slovakia and China

Distribution Centers in the USA, Mexico and Italy

Almost 10 thousand employees worldwide



Slovakia



USA



Italy



China



Brazil

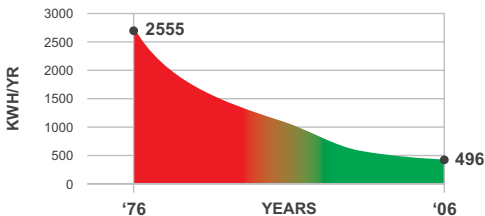


 **Embraco**®

Energy efficiency

Embraco, with its state-of-the-art technology and innovation, develops life transforming products. Its vision is to act effectively in creating energy efficient products that will contribute to a cleaner world and a sustainable future.

The following graph shows the significant reduction in energy consumption over the past 30 years in refrigerators using hermetic compressors. Compare the difference.



Responsible technology
for a better quality of life



Embraco top efficiency products

EGX The most efficient on-off compressor on the market

- Innovative technology
- Low sound and vibration levels
- Best in class efficiency
- Designed with a wide cooling capacity range for household applications

| Model | Voltage / Frequency | Refrigerant | Capacity (Btu/h) | EER (Btu/Wh) |
|-------------------|---------------------|-------------|------------------|--------------|
| EGX 60 HLC | 115-127V/60Hz | R 134a | 610 | 6.08 |
| EGX 70 HLC | 115-127V/60Hz | R 134a | 695 | 6.20 |
| EGX 80 HLC | 115-127V/60Hz | R 134a | 820 | 6.25 |
| EGX 90 HLC | 115-127V/60Hz | R 134a | 950 | 6.24 |



EM2Y | EM2Z Top efficiency and highest cooling capacity in a mini size platform

- State-of-the-art technology
- Reduced dimensions
- Very low sound and vibration levels
- Designed for household applications

| Model | Voltage / Frequency | Refrigerant | Capacity (Btu/h) | EER (Btu/Wh) |
|-------------------|---------------------|-------------|------------------|--------------|
| EM2Z 60HLT | 115-127V/60Hz | R 134a | 660 | 5.87 |
| EM2Z 70HLT | 115-127V/60Hz | R 134a | 760 | 5.96 |
| EM2Z 80HLT | 115-127V/60Hz | R 134a | 840 | 6.00 |
| EM2Y 60HLT | 115-127V/60Hz | R 134a | 660 | 5.54 |
| EM2Y 70HLT | 115-127V/60Hz | R 134a | 760 | 5.67 |
| EM2Y 80HLT | 115-127V/60Hz | R 134a | 840 | 5.70 |



VEGZ Most efficient variable capacity compressor (VCC) in the market

- State-of-the-art technology
- Very low sound and vibration levels
- Up to 40% savings in power consumption if compared to a standard on-off compressor
- Designed for side by side household applications

| Model | Voltage / Frequency | Refrigerant | Capacity (Btu/h) | EER (Btu/Wh) | Speed |
|------------------|---------------------|-------------|------------------|--------------|-------------|
| VEGZ 6H * | 115V53-150Hz | R 134a | 350 - 928 | 6.09 - 5.70 | 1600 - 4500 |
| VEGZ 7H * | 115V53-150Hz | R 134a | 411 - 1066 | 6.07 - 5.93 | 1600 - 4500 |
| VEGZ 8H * | 115V53-150Hz | R 134a | 472 - 1094 | 6.12 - 6.13 | 1600 - 4500 |
| VEGZ 11C | 230V53-120Hz | R 600a | 388 - 849 | 6.51 - 6.33 | 1600 - 3600 |

* Preliminary data



The environment

Embraco was one of the pioneers in the substitution of CFC and in the development of environmentally friendly cooling systems. Products for alternative fluids application first appeared in 1993. This concern with the environment is remarkable, in that, today, Embraco offers a variety of compressor versions for distinct alternative fluids.

An example of good practices and international recognition is Embraco's ISO 14001 and QC 080.000 certification of its plants.

Soluções

Alternative refrigerants

Embraco offers compressors that are compatible with the following refrigerants

CO₂ (R 744)

- Natural fluid
- No ozone depletion
- Application in commercial refrigeration systems
- Compatible compressor family = EK
 - Safe, silent and reliable product
 - Designed for high efficiency
 - Wide capacity range
 - Compatible with Variable Capacity (VCC) technology



Other refrigerant fluids

Propane (R 290)

- Natural fluid
- No ozone depletion
- Greater application in commercial system
- Up to 40% reduction in refrigerant fluid load*
(*If compared to CFC refrigeration systems)
- Compatible compressor families = EM, F, NE

Isobutane (R 600a)

- Natural fluid
- No ozone depletion
- Atmospheric life span only a few weeks
- Greater application in domestic systems
- Negligible contribution to global warming
- Compatible compressor families = EM, EG, NB

R 134a

- No ozone depletion
- One of the first refrigerant fluids used to substitute the CFCs
- Applied in domestic and commercial systems
- Compatible compressor families = EM, F, EG, NB, NE, NT, NJ



www.embraco.com

Embraco is participating in the United Nations Global Compact.



Note: After replacement, the compressor and its accessories must have proper processing, and the components must be recycled according to the material group (ferrous, non-ferrous, polymers, oils, ...) directives. These recommendations are intended to minimize the adverse impacts that may be caused to the environment.



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