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soluções

Subject to alteration without previous notice. - Code 06009 - Date January 2010 - Version 03.

HERMETIC COMPRESSORS



Product Line **EK**



www.embraco.com



Embraco is participating in the United Nations Global Compact.





EK Series

The light commercial refrigeration market has been seeking a solution that utilizes CO₂ (R-744).

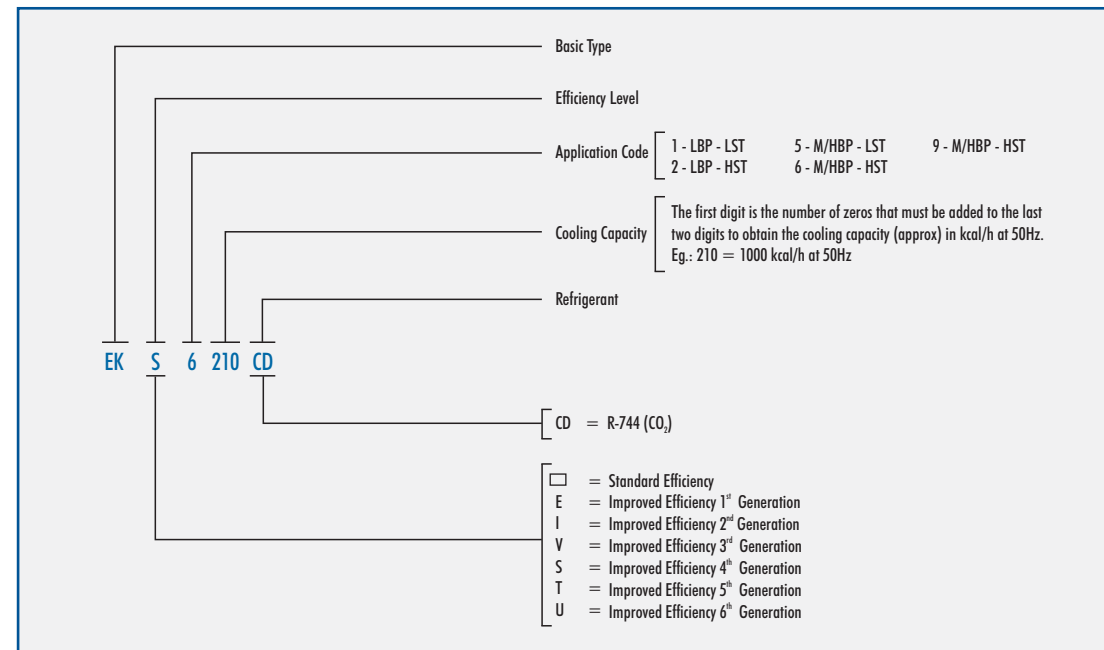
Embraco, the market and technology leader in hermetic compressors for refrigeration now offers a CO₂ solution. Our aim is to meet the demand of the market and make available to our partners an HFC-free refrigeration solution that promotes a cleaner and purer environment.

The EK Series is the fruit of intensive research and rigorous testing with the goal of producing a safe, quiet, reliable, cost effective, and efficient product. Embraco's CO₂ project is another example of our ongoing commitment to environmental preservation. This began in the early 90s when we pioneered actions like replacing CFCs and introducing HCs.

EK Series - The CO₂ Compressor

- ✓ New platform concept
- ✓ Single stage
- ✓ Low sound level
- ✓ Efficiency driven design

Nomenclature - Compressor Model



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.

CO₂ Technology: Research efforts focused on CO₂ optimization (compressor & system components).

Product Data - R-744 (M/HBP)

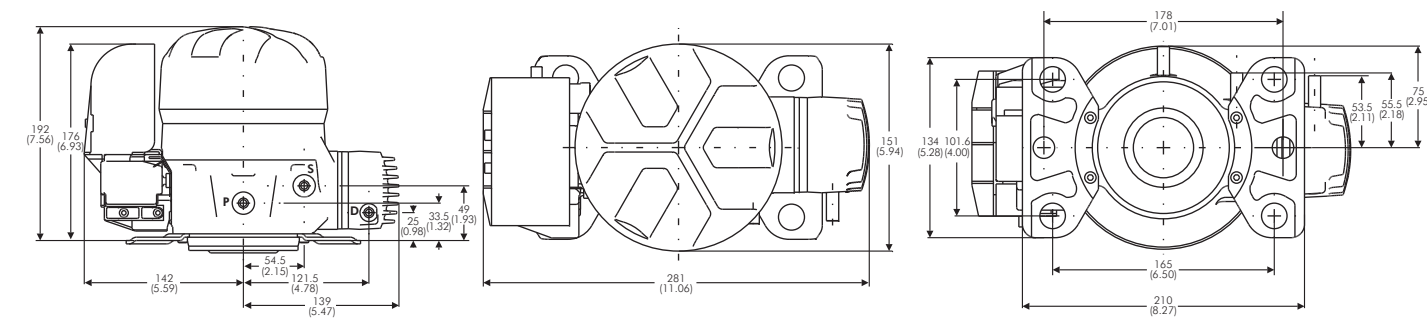
Compressor	Voltage / Frequency	Displacement		Cooling Capacity W
		cc	cu in	
EK6160CD	100V 50-60Hz 1~	1.00	0.06	380*
EK6175CD	100V 50-60Hz 1~	1.30	0.08	500*
EK6210CD	220-240V 50Hz 1~	1.75	0.11	700
EK6210CD	115V 60Hz 1~	1.75	0.11	805
EK6210CD	220V 60Hz 1~	1.75	0.11	805
EK6214CD	220-240V 50Hz 1~	2.45	0.15	905

* at 50Hz

Testing Conditions

	Evaporating Temperature °C (°F)	Discharge Pressure bar	Return Gas Temperature °C (°F)	Ambient Temperature °C (°F)	Approach Temperature °C (°F)
MBP	-10.0 (14.0)	85.0	32.0 (89.6)	32.0 (89.6)	32.0 (89.6)

External Views



Unit: mm (inches)

CONNECTORS	COMPRESSORS (STANDARD VERSION)
MATERIAL	COPPER PLATED STEEL
S - Suction	6.5 (1/4)
D - Discharge	6.5 (1/4)
P - Process	6.5 (1/4)

Unit: mm (inches)

CO₂ Technology

- ✓ Natural and lowest GWP refrigerant fluid
- ✓ Environmental friendly technology
- ✓ Application in refrigeration and heat pumps