

# PRESS RELEASE

## GEA reciprocating compressors for marine applications

Düsseldorf, September 4, 2018 - Under the motto "Future on board.today." GEA will be presenting compressor solutions for maritime applications at this year's SMM in Hamburg. GEA compressors are suitable for the air conditioning of cruise ships and freighters as well as for the temperature control of cargo and food cooling. As a global expert in refrigeration technology, the company's GEA Bock HG44e and GEA Bock F76 series reciprocating compressors demonstrate that high efficiency does not have to be at the expense of longevity.

### Efficient solutions on ships

The semi-hermetic suction gas-cooled reciprocating compressors (HG) offer maximum delivery volumes of approx. 6.5 to 337.5 m<sup>3</sup>/h (at 60 Hz). The series thus covers the entire cooling and air-conditioning requirements on ships, from cabin air conditioning and food cooling to process cooling. The optimized, semi-hermetic compressors benefit from a state-of-the-art valve plate system, highly efficient electric motors and an improved internal refrigerant volume flow compared to its predecessors.

### Compact, robust and easy to handle

The F series comprises open, single-stage compressors with 2, 4, 6 or 8 cylinders designed for common synthetic refrigerants (e.g. R134a, R404A, R507, R407C, R22, R448, R449). The maximum delivery volumes range from 12.6 to 337.5 m<sup>3</sup>/h (1,740 l/min). They are driven either directly via a coupling or with a V-belt. Due to the large-volume oil sump and the reliable oil pump, which is independent of the direction of rotation, it can be used over a wide speed range. An extremely robust drive, optimum mass balance and low pulsation contribute to robustness and smooth running. The F Series runs smoothly on both axles even at short gradients of up to 30°, making it ideal for use at sea. The four new models in the F76 series replace the previous F14 and F16 compressors.

### GEA supplies compressors for the world's first transcritical CO<sub>2</sub> cooling solution for the maritime industry

With a new, modular technology, GEA offers the world's first transcritical CO<sub>2</sub> cooling solution for the maritime industry. The modular plants operate with several GEA Bock compressors that are optimally adapted to the high pressures of CO<sub>2</sub> refrigeration plants. The system can be tailored to almost any available space on board, is safe, robust and reliable even under difficult environmental conditions.

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Images (high-resolution images for download)

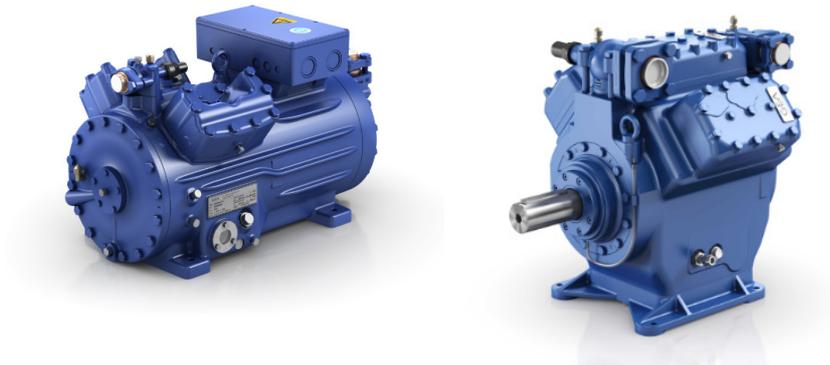


Photo: GEA Bock compressors of the HG44e (left) and F76 (right) series for maritime applications. (Source: GEA)

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## About GEA

GEA is one of the largest suppliers for the food processing industry and a wide range of other industries that generated consolidated revenues of approximately EUR 4.6 billion in 2017. The international technology group focuses on process technology, components and sustainable energy solutions for sophisticated production processes in various end-user markets. The group generates around 70 percent of its revenue in the food and beverages sector that enjoys long-term sustainable growth. As of December 31, 2017, the company employed almost 18,000 people worldwide. GEA is a market and technology leader in its business areas. The company is listed on the German MDAX (G1A, WKN 660 200). In addition, GEA's stock is included in the MSCI Global Sustainability Indexes. Further information is available on the Internet at [gea.com](http://gea.com).

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