

Danfoss BOCK® compressors | Stationary compressors

BOCK® LG compressors range

Designed for use with low-GWP HFO refrigerants.

Longer lifetime

thanks to robust design.





LG compressors for low and medium temperature, air-conditioning, heat pumps

Always one step ahead! With this claim BOCK odevelops for almost 90 years innovative compressor solutions for refrigeration and air-conditioning technology that set standards. Current example: The new range of semihermetic LG compressors - specially designed for use with low-GWP HFO refrigerants.

With the new LG range (LG = Low-GWP) BOCK® now offers a compressor portfolio with suitable compressor technology for all synthetic refrigerants. This includes the common HFC fluids as well as the new HFO low-GWP fluids with a GWP value <150, enabling planners and operators to create individually configurable, economical system solutions for sustainable refrigerants that meet the requirements for the global phase down of F-Gases in a safe and sustainable way (F-Gas Regulation, Kigali Amendment etc.).

Long-term tests show: HFO refrigerants need special compressor technology

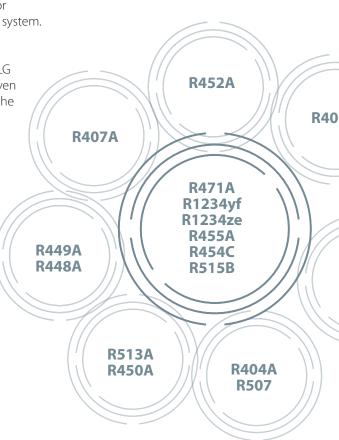
The development of pioneering BOCK® products such as the new LG compressor range is the result of continuous research including internal and external longterm tests in various applications. Here it became apparent that conventional compressors are not suitable for safe and reliable operation with HFO refrigerants. In particular, the driving gear and seals usually lost their functional reliability in the long run due to the higher requirements of these refrigerants.

Once again, the decades of experience of the BOCK® experts were confirmed: Different refrigerants require compressors with special technical design – for maximum robustness, reliability and durability over the entire life cycle of a system.

New series with complete product range

Within the semi-hermetic BOCK® standard HG compressor range, the new LG compressors are an independent series with a complete product range: seven model sizes with 25 capacity stages exceed all features and advantages of the standard series, which BOCK® customers worldwide appreciate.

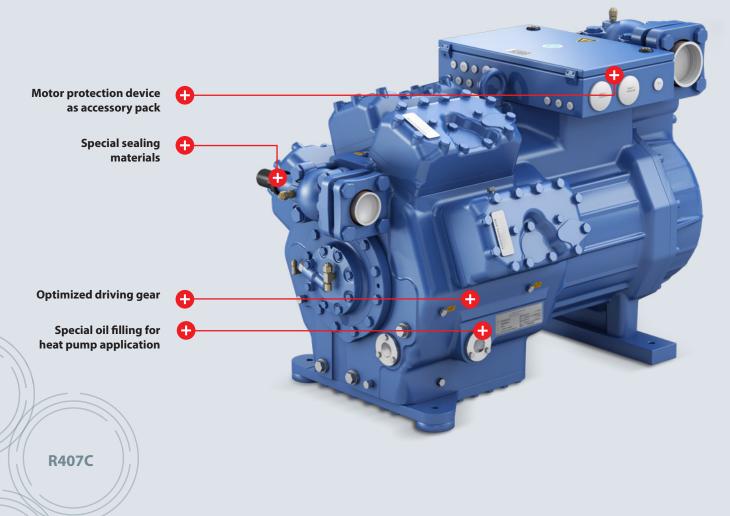
> One compressor version for all common refrigerants



HFO specialists thanks to optimized **BOCK®** driving gear design

HFO refrigerants such as R455A or R1234ze place significantly higher demands on the compressors than standard HFC refrigerants such as R404A and R134a – especially with regard to the driving gear, keyword emergency running properties. The reason: HFO refrigerants have a much higher solubility in oil, which leads to a sharp reduction in oil viscosity and thus increases the susceptibility to compressor damage.

For this reason, BOCK® engineers – based on their many years of experience in dealing with the technically demanding refrigerants CO₂ and hydrocarbons – have developed a special driving gear design for the new LG range that makes the compressors "less sensitive" to falling oil viscosity.



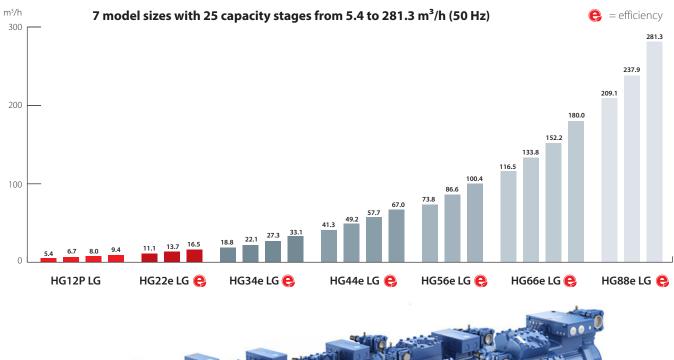
R134a

VAP tool

Current information on technical data, performance data, operating limits and much more can be done online via the BOCK® compressor selection program (VAP): vap.bock.de

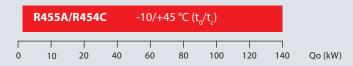


Single-stage LG compressors

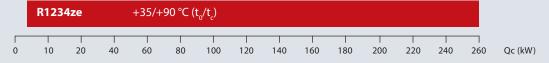




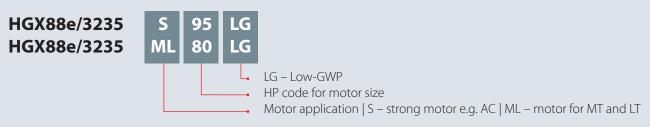
Cooling capacity R455A/R454C



Heating capacity R1234ze



Type key - adapted to worldwide requirements



Any information, including, but not limited to information on selection of product, its application or use, product design, weight, dimensions, capacity or any other technical data in product manuals, catalogues descriptions, advertisements, etc. and whether made available in writing, orally, electronically, online or via download, shall be considered informative, and is only binding if and to the extent, explicit reference is made in a quotation or order confirmation. Danfoss cannot accept any responsibility for possible errors in catalogues, brochures, videos and other material. Danfoss reserves the right to alter its products without notice. This also applies to products ordered but not delivered provided that such alterations can be made without changes to form, fit or function of the product. All trademarks in this material are property of Danfoss A/S or Danfoss group companies. Danfoss and the Danfoss logo are trademarks of Danfoss A/S. All rights reserved.