

Product profile



BITZER SE

Peter-Schaufler-Platz 1
71065 Sindelfingen // Germany
Tel +49 7031 932-0
bitzer@bitzer.de // www.bitzer.de

Unser Zeichen // Our Ref.

Abs. // Sender	Stefanie Holst
Abt. // Dept.	Head of Corporate Communications and Marketing Content
Tel Dw. // Ext.	+49 7031 932-4327
E-Mail	stefanie.holst@bitzer.de

Upgrade existing systems: PERFORMANCE KITS for BITZER ECOLINE reciprocating compressors

For more efficient and reliable operation of existing refrigeration systems, new compressor functions can be retrofitted. BITZER offers dedicated PERFORMANCE KITS with various functions for ECOLINE series reciprocating compressors for HFC/HFO refrigerants as well as ECOLINE PRO series compressors for hydrocarbons (for orders placed from 11 November 2024 onwards) that were not supplied ex-works with the IQ MODULE CM-RC-02. These kits simplify the retrofitting of functions such as capacity control, enabling refrigeration contractors and installers to unlock the maximum potential of existing systems with minimal effort.

In practice, time- and cost-efficient solutions are often required to respond to changing capacity requirements, improve compressor efficiency¹ and reliability or reduce operating costs. The PERFORMANCE KITS for BITZER ECOLINE reciprocating compressors include the IQ MODULE CM-RC-02 and peripheral devices. They can be mounted on the terminal box of an existing compressor within a very short time. Depending on project requirements, three versions of the PERFORMANCE KITS are available. They make useful compressor operating and protection functions, as well as the user-friendly operating concept of the IQ MODULE CM-RC-02, available for existing compressors. Wiring is carried out directly via the module and at the compressor itself, eliminating the need for complex modifications to the switch cabinet.

¹ Cf. <https://www.bitzer.de/empco>

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Reliability and efficiency: optimisation made easy

The ENERGY KIT version of the PERFORMANCE KITS focuses on optimising compressor operation and energy efficiency. With only minimal effort, the mechanical VARISTEP capacity control can be retrofitted to precisely match capacity to actual cooling demand and, in particular, improve part load efficiency. Mechanical capacity control helps prevent frequent compressor start-stop cycles, minimises suction pressure fluctuations and ensures a constant evaporating temperature. The optimised compressor operation results in more energy-efficient system performance and reduces operating costs over the long term.

With the OPERATIONAL SAFETY KIT version, intelligent compressor protection functions, such as oil level monitoring, can be retrofitted. These functions increase operational reliability and contribute to improved compressor availability.

Optimised data management

The PERFORMANCE KITS also connect existing compressors to a range of useful digital services. In combination with BEST SOFTWARE or the BEST APP, compressor operating data can be displayed in real time on a laptop or smartphone via Bluetooth. The clear data visualisations support refrigeration contractors and installers in analysing system performance, enabling them to take appropriate action quickly whenever required. In the event of faults, plain-text messages and troubleshooting guidance help identify and resolve the root cause. In addition, the PERFORMANCE KITS can provide access to the BITZER DIGITAL NETWORK (BDN), if required, enabling remote access to compressor operating data. The real-time data also supports preventive maintenance activities.



As an independent specialist for refrigeration, air conditioning and heat pump technology, BITZER is present all over the world: with products and services for refrigeration, air conditioning and process cooling as well as transport, BITZER ensures optimum temperature conditions for trade in goods, industry processes and indoor climate control – always striving for the highest possible energy efficiency and quality. BITZER is represented all over the world with 74 sites in 40 countries, including its sales companies and production facilities. Trade and service partners included, the BITZER network of manufacturing, development and sales extends to almost all countries in the world. In 2025, 4,500 employees generated a turnover of €1.135 billion; expenditure for research and development totalled €67 million.

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Overview of images

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Image: BITZER PERFORMANCE KITS enable easy upgrades of existing compressors