

# Product profile



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## **BITZER IQ MODULE: Smart functions bring digitisation to refrigeration, air conditioning and heat pump components**

*The growing complexity of refrigeration, air conditioning and heat pump systems requires not only sound technical expertise, but also considerable time and effort to install, commission and maintain a compressor. The IQ MODULE CM-RC-02 for BITZER ECOLINE reciprocating compressors was developed to make the daily working routine easier for installers and contractors with smart functions and a user-friendly operating concept. It also paves the way for even more efficient compressor operation.*

Since the beginning of the year, BITZER ECOLINE reciprocating compressors from the C3 series onwards have been equipped as standard with the new generation of the IQ MODULE CM-RC-02, and can optionally be ordered with extension boards and wired and configured compressor accessories straight from the factory. In combination with the BEST SOFTWARE or BEST app, operating data can be sent to a smartphone or laptop via Bluetooth or Modbus interface and displayed, configured and analysed in a matter of seconds. These functions in the app are particularly useful for installers and contractors on site and help them commission and maintain compressors with both speed and reliability.

### **Faster and simpler installation and commissioning**

The compressor and accessories are pre-mounted, wired and configured in the BITZER factory. Tests are also performed on the hardware and function logic to reduce the amount of work required on site. This simplifies the installation and commissioning of the compressor and guarantees optimal, efficient operation for the installed accessories. The accessories supplied with the compressor no longer have to be installed individually and the correct application limits and allowable temperatures no longer

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have to be monitored separately. This means that the application limits can be pushed further and the availability of the compressor can be increased.

## **Improved data handling and comprehensive support**

The IQ MODULE connects the compressor to useful digital services that make day-to-day work easier. Installers and contractors can configure the compressor and its accessories via Bluetooth with the BEST SOFTWARE or the BEST app. They can even display clearly structured current and historical operating data from the compressor. In the event of malfunctions, plain text messages and tips assist in identifying and resolving the causes. The IQ MODULE grants optional access to the BITZER Digital Network (BDN), making it possible to access the operating data of the compressor at any time and carry out optimisations remotely. The real-time data also help with preventive maintenance.

BITZER offers comprehensive support for installers and contractors working with the IQ MODULE. This includes quick-start guides, such as information about replacing SE-B compressor protection devices with an IQ MODULE, as well as technical documentation. The numerous tutorials, which offer step-by-step guides focusing on the essentials of commissioning, arrangement of the wiring and retrofitting, are also exceptionally useful. Installers and contractors can use the following website to access the tutorials and other support: [https://www.bitzer.de/gb/en/iqmodule\\_technical.jsp](https://www.bitzer.de/gb/en/iqmodule_technical.jsp)

## **Retrofitting enhanced compressor functions made easy**

Additional functions for BITZER ECOLINE reciprocating compressors, such as VARISTEP capacity control, additional cooling, oil level monitoring with OLM-IQ or application limit monitoring with suction gas and discharge gas sensors, can be operated from the IQ MODULE with extension boards, which are available separately. This approach means less wiring arrangement and documentation work for installers and contractors, as fewer modifications have to be made to the control system in the switch cabinet compared to conventional system designs.

The extension boards are available with different functionalities when ordering new compressors or for retrofitting. This makes even retrofitting existing compressors easier than ever before. If, for example, the cooling demand changes after glass doors are retrofitted to the refrigerated display cabinets in a supermarket, capacity control steps can be added without significant wiring arrangement work or having to replace the compressor.

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## **Save the date: experience the IQ MODULE live at Chillventa**

This year's Chillventa is a special occasion: visitors can experience the added value of the IQ MODULE live on-site. Interactive live demonstrations will be running in the new Experience Area at the BITZER stand 350 in Hall 7, and the main theme will be 'New business concepts with the IQ MODULE'. The experts from BITZER will explain the modular concept of the IQ MODULE as well as the practical benefits it offers for installers and contractors. They will show how simple it is to retrofit ECOLINE reciprocating compressors with performance kits and what efficiency improvements these bring. Participation in the live sessions is free of charge and registration is not required. More information is available at: [https://www.bitzer.de/gb/en/2024\\_chillventa.jsp](https://www.bitzer.de/gb/en/2024_chillventa.jsp)



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 75 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 2023, more than 4,300 employees generated a turnover of €1.01 billion; expenditure for research and development totalled €61 million.

[www.bitzer.de](http://www.bitzer.de)

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Image: The CM-RC-02 IQ MODULE for BITZER ECOLINE reciprocating compressors simplifies the day-to-day work of installers and contractors