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BITZER equips semi-hermetic reciprocating compressor series with optimised IQ MODULE CM-RC-02

Sindelfingen, 30.01.2024. BITZER, the refrigeration, air conditioning and heat pump specialist, is setting new benchmarks in the operation of reciprocating compressors. For all orders received from 1 January 2024, ECOLINE reciprocating compressors of the C3 series or later installed at the Schkeuditz factory will come with the new generation of the IQ MODULE CM-RC-02. The IQ MODULE simplifies and optimises compressor installation, operation, maintenance and retrofitting for refrigeration, air conditioning and heat pump systems.

Since the beginning of the year, the Schkeuditz factory has been replacing the SE-B3 compressor protection devices in semi-hermetic ECOLINE reciprocating compressors of the C3 series and later with the CM-RC-02, the new generation of the BITZER IQ MODULE. The IQ MODULE CM-RC-02 not only assumes the functions once covered by the compressor protection device, but also offers a new world for operating the installed compressor functions as well as new digital services.

The IQ MODULE simplifies compressor installation and operation

In addition to monitoring the compressor's key operating parameters, the IQ MODULE CM-RC-02 can also operate compressor motor protection and the oil heater and keep an eye on the discharge gas temperature and oil supply. The high pressure switch can be connected directly to the compressor module. The IQ MODULE CM-RC-02 simply requires the switch signal from the superior system controller to activate the compressor.



For detailed information and the wiring diagrams for electrical installation, please consult the KT-240 technical information for the compressor module and the AT-300 document on wiring diagrams, which can be found on the [BITZER website](#) and under [BITZER SOFTWARE](#).

During the transition period, compressors can also be ordered with the software set to simulate the SE-B3 functions, in which case the compressor can be installed in the switch cabinet or even replaced without any modifications.

The IQ MODULE simplifies integration of compressor accessories and optimises operation

Additional functions included in the optional range of services for BITZER reciprocating compressors – for example, capacity control, oil level monitoring and control, and liquid injection – can be electrically connected to the IQ MODULE, which not only simplifies switch cabinet wiring, but also reduces the number of control outputs required.

There are three optional extension boards for the IQ MODULE CM-RC-02 to choose from, each with different features. With the IQ MODULE, the components selected in conjunction with the compressor can be ordered already wired, configured and tested by the BITZER factory in Schkeuditz, which simplifies compressor installation in the system and drastically reduces the amount of time necessary for production, troubleshooting and commissioning.

The extension board can also be added to compressors featuring the IQ MODULE CM-RC-02 even after delivery. The logic for operating the peripheral devices has been individually optimised to reduce energy consumption and increase compressor availability. If a system needs to be adjusted or retrofitted at a later date due to a change in refrigeration or heating requirements, for example, additional capacity control steps can be installed by arranging the wiring with the IQ MODULE – no modifications in the switch cabinet necessary.

The BEST SOFTWARE and the BEST app can be used to configure the compressor and its accessories as well as display operating and historical data, with data visualisation optimised to provide on-site service technicians with prompt, straightforward support.



BITZER is active all over the world as an independent specialist in refrigeration, air conditioning and heat pump technology: with products and services for refrigeration, air conditioning, process cooling and transport, BITZER ensures optimum temperature conditions in goods trading, industrial processes and air conditioning – with maximum energy efficiency and quality in mind. The BITZER Group is represented across the globe with distribution companies and production facilities at 75 locations in 40 countries. The BITZER production, development and sales association, including trading and service partners, operates in almost all countries around the world. In 2022, more than 4,000 employees generated sales of €983 million, with €53 million invested in research and development.

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Image: BITZER IQ MODULE CM-RC-02 for ECOLINE reciprocating compressors