

Product profile



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BITZER ECOLITE LHL7EF: condensing units with advanced capacity control for maximum efficiency

BITZER is expanding its series of flexible, versatile and user-friendly ECOLITE air cooled condensing units to include four LHL7EF models, a variant of the LHL7E housing size. The new additions come standard with the IQ MODULE CM-RC-02 featuring the extension board CONDENSING UNIT, the VARIPACK frequency inverter and CR mechanical capacity control – a powerful combination for maximum efficiency and performance.

The ECOLITE series now comprises a total of 15 models in three housing sizes (LHL3E, LHL5E, LHL7E, LHL7EF) and offers the right solution for any project requirements. Semi-hermetic ECOLINE reciprocating compressors with displacements between 11.3 and 56.3 m³/h at 1450 rpm form the heart of all compact ECOLITE condensing units. The series is approved for many low-GWP refrigerants as well as refrigerant blends of the A1 and A2L safety classes.

The extensive range of models accommodates a variety of low and medium temperature applications across all climates such as cold stores in petrol station shops and fast food restaurants. The ECOLITE series operates with low sound levels and features robust weather protective housing suitable for outdoor installation. The design ensures direct access to all components at all times.

ECOLITE LHL7EF – efficiency at the highest level

The new ECOLITE LHL7EF continues the proven plug-and-play concept of the ECOLITE series, making installation fast and easy for users. The condensing unit compressors in this variant come standard with the IQ MODULE CM-RC-02 and the special extension board CONDENSING UNIT. The IQ MODULE combines the CR mechanical capacity control (50% or 100%) and the VARIPACK frequency inverter

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(30 Hz to 70 Hz) to provide a comprehensive capacity control concept. Compressor capacity can be adjusted with precision in line with actual evaporator requirements, guaranteeing maximum efficiency in full and part load. The IQ MODULE therefore serves as the condensing unit's intelligent control centre, assuming full responsibility for controlling the ECOLITE LHL7EF and thus ensuring reliable and efficient operation. The ECOLITE LHL7EF can provide cooling capacities of up to 28 kW* in medium temperature (MT) application and up to 8 kW* in low temperature (LT) application (*with R454C, operating conditions: $t_{amb} = +32^{\circ}\text{C}$, $t_0 = -10^{\circ}\text{C}$ (MT) at 60 Hz, $t_0 = -35^{\circ}\text{C}$ (LT) at 70 Hz, $\Delta t_{0h} = 10\text{ K}$, $\Delta t_{cu} = 1\text{ K}$).

The IQ MODULE also features smart functions designed to optimise commissioning, compressor operation and maintenance, and connects the compressor to helpful digital services like the BEST SOFTWARE. For example, compressors and accessories can be connected to a laptop or smartphone via Bluetooth to simplify and accelerate configuration and commissioning. The BEST SOFTWARE clearly visualises operating data to assist with the analysis and evaluation conducted in connection with maintenance. If desired, the IQ MODULE can also provide access to the BITZER Digital Network (BDN), allowing users to view compressor operating data at any time – even from a remote location.

The ECOLITE LHL7EF also offers another option for modern system concepts: the heat recovery connection enables combined use of heating and cooling if required, which in turn further increases system efficiency and lowers operating costs over the long term.

Further information about BITZER ECOLITE condensing units is available at https://www.bitzer.de/gb/en/topic_story_ecolite.jsp

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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.

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Image: ECOLITE LHL7EF condensing unit – equipped with the IQ MODULE CM-RC-02 featuring extension board, VARIPACK frequency inverter and CR mechanical capacity control