

Product profile



BITZER SE

Peter-Schaufler-Platz 1
71065 Sindelfingen // Germany
Tel +49 7031 932-0
Fax +49 7031 932-147
bitzer@bitzer.de // www.bitzer.de

Unser Zeichen // Our Ref.

Abs. // Sender	Stefanie Holst
Abt. // Dept.	Public Relations
Tel Dw. // Ext.	+49 7031 932-4327
Fax Dw. // Ext.	+49 7031 932-54327
E-Mail	stefanie.holst@bitzer.de

BITZER LHE PRO: air cooled condensing units for hydrocarbon refrigerants

With the LHE PRO series, BITZER is expanding its portfolio of proven air cooled LHE condensing units for R290 (propane) and R1270 (propene) – for medium and low temperature applications in a wide application range. BITZER therefore offers efficient and economical solutions based on natural refrigerants for commercial refrigeration.

BITZER LHE condensing units are now available for the natural refrigerants R290 (propane), R1270 (propene) and R600a (isobutane). Equipped with the specially optimised ECOLINE PRO compressors, they enable medium and low temperature applications with an evaporation temperature of -40°C to $+10^{\circ}\text{C}$ and ambient temperatures of more than 43°C . All the compressor's components and its oil management have been adjusted to fulfil the requirements of these refrigerants. Flexible solutions with additional factory mounted components in accordance with system requirements are possible.

Robust all-rounder

The condensing units are available in eleven construction sizes and two motor versions. At present, displacements of 4 to $13.4\text{ m}^3/\text{h}$ are available for R290 (propane), which corresponds to cooling capacities of 1.74 kW to 5.71 kW for medium temperature application and 0.69 kW* to 1.78 kW* for low temperature application (*operating conditions: $t_{\text{amb}} = +32^{\circ}\text{C}$, $t_0 = -10^{\circ}\text{C}$ for medium temperature application and $t_0 = -35^{\circ}\text{C}$ for low temperature application, each at 50 Hz). LHE PRO condensing units are therefore suitable particularly for applications such as smaller commercial refrigeration systems, including small cold stores, bakeries and petrol stations.

All LHE PRO condensing units fulfil the requirements of EU Ecodesign Directive 2015/1095.

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No ATEX zone, thanks to increased tightness

Upon delivery, LHE PRO condensing units achieve an increased level of tightness in accordance with EN1127-1, thanks to the design and testing of their seal systems. Increased tightness means that they are specially designed to be technically tight on a permanent basis thanks to production and testing processes at BITZER. Because no ATEX zone forms inside the condensing unit when using hydrocarbon refrigerants, there is no need to use ATEX components. When installed in accordance with the operating instructions, BITZER products are also free of ignition sources in normal operation pursuant to the IEC60335-2-40:2022 standard for the approved refrigerants. All that simplifies the risk assessment required by the Machinery Directive, which benefits the system manufacturer.



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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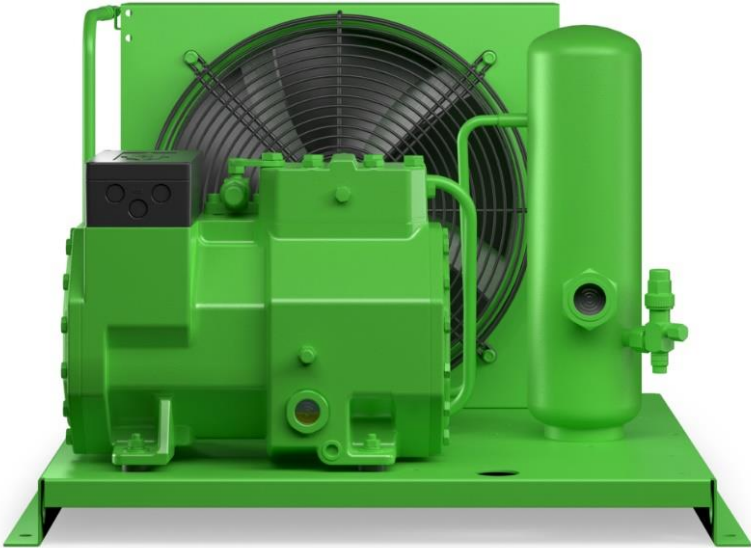


Image: BITZER has expanded its portfolio of air cooled condensing units to include the LHE PRO series for hydrocarbon refrigerants