

Product profile



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BITZER KE and KF condenser series: the new generation of water-cooled condensers for every design need and high energy efficiency

BITZER has developed an energy-efficient condenser family, setting a new industry standard with customisable solutions for both fresh water or brine fluids. The series is designed for hydrocarbon refrigerants (R290, R1290) as well as ammonia (R717) and includes versions for HFC, HFO and HFC+HFO blends.

Whether the condensers are used in process cooling applications, in large-capacity high-temperature heat pumps or in refrigeration racks, the design of the two new KE and KF condenser families from BITZER ensures the balance between performance, efficiency and reliability. The KE series is designed for universal applications with fresh water and brine fluids. The KF series, with its new design approach, focuses on highly efficient chiller applications.

These new families will replace the current K, CXP and CRF condenser series from BITZER. The KE series is available with condensing capacities from 8 to 2600 kW and the KF series ranges from 300 to 2600 kW. All connections and dimensions are designed to replace the existing condensers.

Focus on efficiency and flexibility

The KF series is designed to offer customers premium efficiency, aiming to reach and exceed the minimum efficiency targets of international regulations for chiller applications such as EcoDesign. The condensers combine high efficiency with compact length thanks to the newly developed two-pass design on the refrigerant side. This design makes it possible to reach a minimum thermal approach between the water leaving temperature and the refrigerant condensing temperature. The KE condensers, in two- or four-pass design, provide an energy-efficient solution with eleven shell

Product profile



diameters and ten standard tube lengths. This flexibility allows for easy integration of the KE condensers into any system, even when space constraints are a challenge.

The KE and KF condensers can be delivered in different versions such as medium-pressure versions for hydrocarbons and ammonia (R717), HFC, HFO and HFC+HFO blends, as well as high-temperature versions for heat pump applications with HFO and hydrocarbons for production of pressurised water up to +130°C.

In addition to the two versions mentioned above, high-pressure versions with 48-bar design pressure are available for refrigerants within this pressure range.



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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Product profile

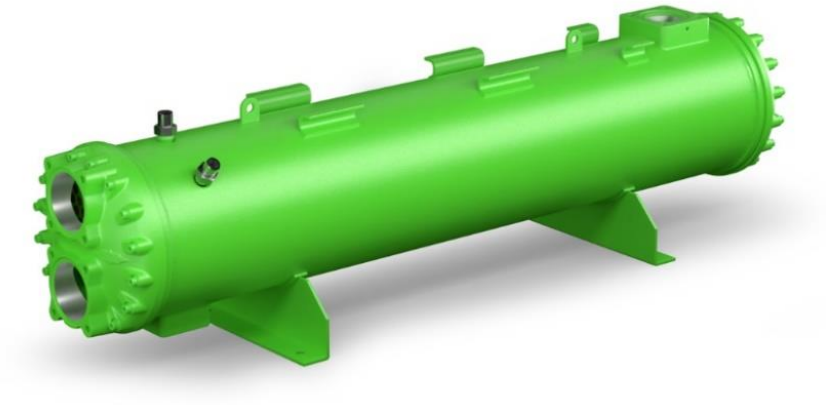


Image 1: BITZER KE condenser

Product profile



Image 2: BITZER KF condenser