

Press information



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Future-proof and reliable: BITZER Ammonia Compressor Packs

Sindelfingen, 13.10.2020. BITZER, the specialist for refrigeration and air conditioning technology, presents its Ammonia Compressor Packs (ACPs) for industrial refrigeration at Chillventa eSpecial 2020. They provide customers with fully assembled, ready-to-use compressor units which can be installed quickly and easily on-site.

Due to its exceptional energy efficiency and outstanding thermodynamic characteristics, ammonia is the ideal refrigerant for industrial refrigeration applications such as ice rinks, warehouses and larger systems in the food industry. Because it doesn't have any global warming or ozone depletion potential (GWP and ODP 0), ammonia is absolutely future-proof and the perfect option for environmentally conscious companies.

BITZER has decades of experience in the production of components suitable for ammonia – and, with its Ammonia Compressor Packs, also offers higher cooling capacities, each up to 3 MW (–10/35 °C). Each ACP contains up to three compressors as well as a motor, oil separator and oil circuit. Operating unit, economiser and frequency inverter are optionally available.

Safety and efficiency for each operating condition

In combination with the integrated BITZER IQ technology, an ACP operating unit ensures reliable, efficient ACP operation based on the current operating conditions. The most important sensors are redundant and the operating unit has been developed with a proactive regulator to increase system reliability. Thanks to their compound set strategy, the ACPs offer exceptional starting behaviour. They require around half the starting current of a single compressor with the same refrigerating capacity,

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which results in smaller components and lower installation costs. Connecting several BITZER screw compressors and their intelligent capacity control in parallel ensures high efficiency especially in part load and offers higher operating reliability than single compressors in the same capacity class.

Their sophisticated mechanical construction makes the ACPs exceptionally service-friendly. Application limits can be monitored with the aid of alarm and shut-off thresholds as well as operating parameters to ensure maximum reliability. The moment the alarm threshold is exceeded, the operating unit automatically initiates countermeasures and sends a message to the master control system.



As an independent specialist for refrigeration and air conditioning 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 considering highest possible energy efficiency and quality. BITZER is represented all over the world with 72 sites in 37 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 2019, 3,800 employees generated a turnover of €808 million; expenditure for research and development totalled €46 million.

Overview of images

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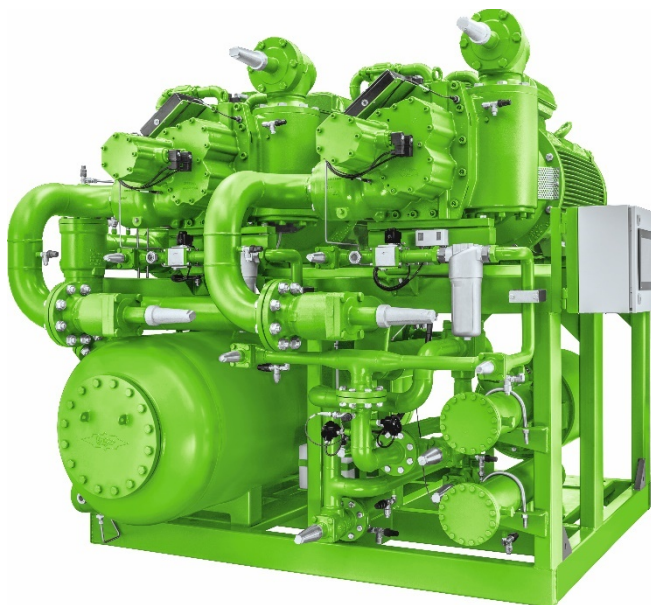


Image: BITZER ACPs are available with a capacity range of 200 to 4,500 kW