

Product profile



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BITZER ACP SINGLE: compact solutions for industrial refrigeration

Whether for medium temperature or low temperature refrigeration, air conditioning or booster applications, the requirements of the industrial refrigeration sector are diverse – and BITZER AMMONIA COMPRESSOR PACKS (ACPs) are equally flexible. BITZER is expanding its ACP portfolio with options based on a single-compressor unit featuring the OS.A95 screw compressor: ACP SINGLE.

ACPs are particularly advantageous wherever high cooling capacities with the refrigerant ammonia (R717) are required within compact system dimensions. The ACP SINGLE version has been specifically designed to meet the demanding requirements of industrial refrigeration in terms of reliability, availability and long service life. The modular use of multiple single-compressor units, in particular, enables a fail-safe system architecture. The flexible combination of compressor units makes it possible to implement redundant system concepts that ensure a reliable cooling supply and reduce downtime.

In addition, the single-compressor version offers a wide range of application possibilities. It can be operated as a swing machine to provide backup for different compressor rack systems or used to selectively increase the capacity of existing systems. ACP SINGLE units can be operated across a wide speed range from 1,500 to 4,200 rpm.

Energy-efficient and cost-effective throughout the entire life cycle

The ACPs are supplied ready for installation, enabling particularly time-efficient installation and commissioning, even in complex industrial applications. At the heart of the compressor pack is an open drive screw compressor from the OS.A95 series with a matching motor. Thanks to the integrated

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IQ MODULE, the compressor benefits from intelligent functions for efficient¹ and reliable operation. For example, the IQ MODULE monitors key operating parameters and supports high availability. It also simplifies the integration of digital applications. In combination with BEST SOFTWARE or the BEST APP, operating data can be accessed via Bluetooth at any time and used to support service and maintenance activities. The ACP SINGLE also includes a horizontal, 3-stage OAHC oil separator and an oil cooler, all integrated into a robust frame. This coordinated combination of components ensures reliable and long-lasting operation with a low oil carry over rate of less than 10 ppm, offering operators potential energy and cost savings. If required, the ACP can also be supplied with additional options and accessories, such as an ECO valve station.

In addition to simple and fast commissioning, ACP SINGLE units are designed for easy service and maintenance thanks to their well-engineered mechanical design. All relevant components remain easily accessible at all times.

Future-proof with natural refrigerants

By using a BITZER ACP, consultants, planners and system manufacturers can more easily meet the growing demand for highly efficient industrial refrigeration solutions based on natural refrigerants. Ammonia (R717) has proven itself in large-scale industrial systems for decades. Its outstanding thermodynamic properties and minimal environmental impact (GWP and ODP = 0) make it a future-proof refrigerant option, particularly in view of current environmental regulations such as the EU F-Gas Regulation (EU) 2024/573.



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 74 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 2025, 4,500 employees generated a turnover of €1.135 billion; expenditure for research and development totalled €67 million.

www.bitzer.de

¹ Cf. <https://www.bitzer.de/empco>

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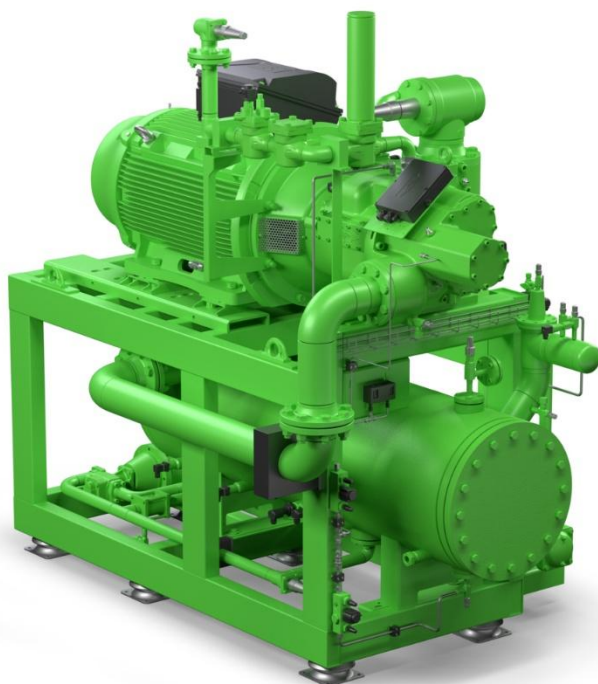


Image: BITZER ACP SINGLE with an open drive OS.A95 screw compressor