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## Flexible energy savings with BITZER VARIPACK frequency inverters

*Sindelfingen, 27.07.2021. Intelligent capacity control: BITZER has added models with IP55 and IP66 enclosure classes to its range of VARIPACK frequency inverters. Naturally, the new additions retain all of the product family's known properties such as user-friendliness, reliability and performance.*

VARIPACK frequency inverters are designed for safe and easy capacity control and have been specially adapted for refrigeration and for the operation of BITZER refrigeration compressors. They open up a wide range of applications in supermarkets, hotels and restaurants as well as food manufacturing and processing. VARIPACK is suitable for refrigeration and air conditioning systems as well as heat pumps and can be combined with single compressors and compound systems alike. After intuitive commissioning, the frequency inverters take over the control functions of the refrigeration system. They can be mounted in a switch cabinet (IP20) or outside of the switch cabinet thanks to the higher IP55/66 enclosure class.

VARIPACK frequency inverters can be operated in two modes: The compressor's capacity can either be controlled depending on an externally set signal or on the evaporation temperature with an optionally available pressure control add-on module. In addition to direct control of the evaporation temperature, the speed of the condenser fan can be set via a 0–10 V output signal and a second compressor can be switched on. With regard to pressure control, the frequency inverters have a database of all commonly used refrigerants for ease of configuration and monitoring.

### Easy to use and very efficient

BITZER software can be used to select a frequency inverter for specific applications and BEST software (BITZER Electronics Service Tool) can be used for easy commissioning and monitoring. Thanks to the

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stored databases, simply select the compressor model to fully configure every compressor. BEST software is also the interface for communication to configure, monitor and read out error messages. VARIPACK frequency inverters with the IP55/66 protection class are also fitted with a display as standard which makes it possible to view the current operating conditions and adjust common parameters.

VARIPACK frequency inverters ensure that, when operating in field-weakening mode, the maximum frequency is automatically limited depending on the load. Optimised adjustment to suit the system's current cooling demand reduces energy consumption, increases efficiency and lowers running costs. VARIPACK is safe and reliable as it has been tailored to and optimised with BITZER refrigeration compressors – choosing from preconfigured set-ups prevents incorrect parametrisation. A high starting current reserve and special start-up procedure also make sure that the compressor starts up safely. Thanks to the flexibility of the VARIPACK series in combination with selection by using BITZER software, users can select the optimal combination of compressor, motor and frequency inverter for every application.



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 striving for the 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 2020, 3,800 employees generated a turnover of €808 million; expenditure for research and development totalled €45 million.

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Image: BITZER VARIPACK is now also available with the IP55/66 protection class