INTELLIGENT COMPRESSORS
EXPERIENCE FORMS THE BASIS FOR OUR COMPRESSORS. INTELLIGENCE GIVES THEM THE EDGE.

Rising energy costs and growing environmental awareness are major issues affecting all areas of the refrigeration industry. At the same time, customers have increasingly high expectations when it comes to optimizing annual energy consumption. In most applications, depending on variables like the removal of chilled goods and fluctuating ambient temperatures, high part-load efficiency is key to meeting these needs.

Intelligent compressors from BITZER enable you to master today’s challenges more efficiently than ever – thanks to their integrated frequency inverter and their networkability with all electric and electronic components in your system.

So you can offer your customers exactly what they need: Precise, simple, safe, and most of all, economical solutions for all kinds of refrigeration, air conditioning and heat pump applications. Want to find out more about BITZER’s innovative intelligent compressors? Then visit www.intelligent-compressors.com.
... AND HIGH INTELLIGENCE.

**ANALYSE**

Our intelligent compressors actively monitor operating conditions to ensure they remain within tolerance. So you have advance warning of any risks and can pass on the information. They also continually monitor operating parameters like pressure, temperature, current and voltage.

**PROTECT**

Intelligent compressors provide lasting protection of goods and systems. They monitor all relevant operating parameters continually to ensure any deviations are immediately detected. By raising the alarm when deviations occur, intelligent compressors allow you to take corrective action long before the situation becomes critical.

**REACT**

The integrated frequency inverter ensures infinitely variable speed control. So you can adjust the level of refrigeration precisely to your needs.

**REMEMBER**

An intelligent compressor forgets nothing. In fact, it keeps a log of all operating conditions. In the event of a deviation from operating conditions, it automatically raises the alarm.

**COMMUNICATE**

Intelligent compressors can be connected to standard interfaces such as Modbus and Ethernet. This makes it possible to exchange data quickly and reliably.

**FURTHER INFORMATION**

For further information on intelligent compressors, please contact us directly.
TO US, IT’S AN INTELLIGENT COMPRESSOR.
TO OUR CUSTOMERS, IT’S BENEFIT AFTER BENEFIT.

ECONOMY
Level of refrigeration capacity can be tailored to your needs // Reduced operating costs // Easy to configure // Major savings

ENERGY EFFICIENCY
Preconfigured frequency inverter // Precise adjustment of setpoints // Eco-friendly operation // Superior part-load efficiency and annual COP

FLEXIBILITY
Perfect temperature adjustment for the refrigeration of various goods // Large operating range // Wide variety of applications

RELIABILITY
Proven BITZER quality // State-of-the-art production facilities // Subsidiaries worldwide // Reliable service // Comprehensive training // Detailed technical documentation

FUTURE READINESS
Technology and market leader // Innovative products // Networkable // Updateable // Reliable refrigeration // Long life period // Compatible with future refrigerants

SAFETY
Tried-and-tested technology // Frequency inverter cooled by refrigerant // Extremely low noise // Minimum Velcor // Minimum wear thanks to soft start function // Monitoring of application limits // Optimum protection of goods and compressor // Maximum operational reliability for entire system // Satisfied customers

SIMPLICITY
Integrated, preconfigured frequency inverter // Simplified system design and compressor selection // Easy to install // Quick and easy to connect to rest of system

PRECISION
Maintain the required temperature of the refrigerated goods // Permanent monitoring // Satisfactory product quality

COMPACT SCREW COMPRESSORS
DIFFERENT INDUSTRIES, DIFFERENT COMPRESSORS.
AND EVERYWHERE, AN INTELLIGENT SOLUTION
BY BITZER.

Screw compressors or reciprocating compressors, stationary or mobile use, maximum or minimum refrigeration capacity: Whatever your needs, we can provide you with the right intelligent solution. BITZER compressors offer first-class quality and efficiency: Exactly what you’d expect from an experienced market leader.

The OCTAGON VARISPEED series was BITZER’s first line of intelligent compressors. Its highlight is the integrated suction-gas-cooled frequency inverter. This system significantly lowers operating costs and ensures reliable and effective performance, even at high ambient temperatures. The maintenance-free frequency inverter and the easy installation and configuration are just some of the many benefits offered by this tried-and-tested BITZER compressor series, which for many years has also included successful solutions for container cooling.

Application areas include supermarket refrigeration, chilled food logistics, process and container cooling.
Application areas include liquid chillers for comfort air conditioning systems, server cooling, industrial cooling, process cooling and heat pump applications.

ECOSTAR
AN INTELLIGENT SYSTEM

ECOSTAR condensing units are the intelligent solution for all of your refrigeration needs. They contain everything you and your customers have come to expect from an economical system, fully pre-assembled and pre-programmed. ECOSTAR includes a BITZER reciprocating compressor offering infinitely variable speed control to ensure energy-efficient operation. Maximum operational reliability and flexibility are par for the course thanks to the suction gas-cooled, parameterized frequency inverter, active monitoring of operating tolerance, and the inbuilt TCP/IP network port. As all components are perfectly tailored to each other, operating costs and setup time are minimal.

Application areas include supermarket refrigeration, gas station shops, chilled food logistics, bakeries and butchers.

CSV
THE SCREW COMPRESSOR THAT THINKS WITH YOU

The CSV series of intelligent, networkable compact screw compressors features unrivalled efficiency thanks to their ultra-modern technology. The fully integrated frequency inverter is cooled by refrigerant and includes automatic, infinitely variable speed control to ensure the right temperature profile. Proactive monitoring of the application limits guarantees the utmost in operational reliability. While older systems simply switch off when a deviation is detected, CSV series compressors send an advance warning to the overriding controller, allowing you to take preemptive action.

All CSV series compressors are fitted with pressure and temperature sensors, oil heater and power supply monitoring. All components are functionally pre-wired and tested, so installation is remarkably quick. Our CSV series compressors are also easy to use in combination with CSH and CSW series compressors for maximum efficiency with no hassle. Further benefits of the CSV series include broad operating parameters spanning the entire speed range, compact design, soft start function and an automatic compressor system check every time the compressor is switched on.

Application areas include liquid chillers for comfort air conditioning systems, server cooling, industrial cooling, process cooling and heat pump applications.