

## Press release

FÜRSTENFELDBRUCK, August 2016



### Güntner highlights at Chillventa 2016

The Chillventa fair is approaching with giant steps and the Güntner Group is looking forward to present innovations created for the trends of the future at the internationally leading trade fair for refrigeration engineering, HVAC and heat pumps.

Visitors to our stand will discover new high-end units and sophisticated accessories from the Güntner, JAEGGI and thermowave brands providing a clear added value – the special Plus which distinguishes Güntner as one of the most innovative component manufacturers in the industry.

#### Güntner: New adiabatic gas cooler for transcritical CO<sub>2</sub> plants

With the new Güntner Gas cooler Diagonal Compact **GGDC** equipped with humidification pad and Güntner Hydro Management **GHM** humidification control, Güntner's objective is to push the CO<sub>2</sub> equator geographically southwards: This newly developed unit with adiabatic air pre-cooling allows for efficient operation of transcritical CO<sub>2</sub> plants also in regions where ambient temperatures climb above +40 °C. The GGDC with its maximum operating pressure of 120 bar and a maximum operating temperature of +150 °C provides a capacity range of up to approx. 300 kW. The specifically developed GHM control continuously controls the water volume according to the heat exchanger's load requirement (fan speed) as well as the measured ambient temperature and humidity. This way, the wetting water distribution is constantly and ideally adjusted to the operating conditions.



#### Güntner: Operational reliability thanks to glycol collection system

As water/ethylene glycol mixtures are classified as fluids hazardous to water in Germany, operators of dry cooling plants usually use a closed circuit system for water protection. The **Güntner Glycol Guard** is a sophisticated glycol collection system with reliable monitoring of the ethylen glycol concentration of the waste water. The system's core is a specific sensor with integrated cleaning function developed by Güntner.

With a precision of +/- 0.3 % of glycol concentration, the operator can immediately react to minimum leakage and thus maintain the functionality of the plant.

#### Güntner: Masterpanel – The direct link to the building management system

Refrigerating and dry cooling systems become more and more complex. It is often the case that several units with different technologies for heat dissipation are combined: Dry coolers, adiabatic units, hybrid dry coolers or evaporative condensers, each of them equipped with an individual control specifically adjusted to the respective unit. Previously, each of these controllers had to be integrated individually into the superordinate building management system (BMS).



Güntner makes it easy for its customers: Not only does the new **Güntner Masterpanel** now provide a central interface to the superordinate system consolidating all the subordinate controllers; Güntner also implemented additional communication protocols. Besides the standard of classic fieldbus technology such as Modbus RTU and Profibus DB, Güntner now also offers industrial Ethernet protocols like BaCnet/IP and Modbus/TCP to name but a few. All this allows the Güntner Masterpanel to easily communicate with any BMS – in a secure manner.



### About Güntner

Based in Fürstfeldbruck near Munich, Germany, Güntner GmbH & Co. KG is a world leader in the manufacture of refrigeration and air conditioning equipment components. With approx. 3,000 employees worldwide and production sites in Germany, Hungary, Romania, Indonesia, Mexico, Brazil and Russia, the company shows a strong presence for their partners in all markets. Decades of experience in the industry and the consistent integration of the latest technologies and research findings ensure the high quality standard of Güntner solutions. The international areas of application comprise energy & process cooling projects, industrial and commercial applications in the field of food production and storage as well as HVAC applications for buildings and specific applications such as server room cooling.

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