

Press Release

Gerlingen, Aug. 2022

Roller presents innovative, highly efficient air coolers suitable for use with F-Gas compliant refrigerants at Chillventa

Delivery reliability, energy efficiency and the use of F-Gas compliant refrigerants are the key themes of Roller's participation at this year's Chillventa. In line with these topics, Roller will be presenting a wide range of innovative, newly developed products at its exhibition stand in Hall 6 Stand 210.

After customer contacts that have been mainly digital for the last two years, Chillventa is the platform to discuss the pressing topics of an increasingly challenging market environment in person. Roller presents a variety of innovative, new products at Chillventa and offers itself as a reliable partner for air coolers, heat exchangers and air conditioning systems - Made in Germany.

Delivery capability as a decisive competitive advantage

Acceptable delivery times, reliable delivery time information, functioning communication and the immediate availability of standardized fast-moving products have become much more important in a challenging economic environment and have turned into the main factors of a trustworthy business relationship. With its production in Gerlingen/Germany, Roller enables its customers to plan with a high degree of certainty. This energy-efficient defrosting concept is the result of various individual measures, which can only achieve its full savings potential in the interaction of all components.

Smooth changeover to F-Gas compliant refrigerants guaranteed

The switch to environmentally friendly refrigerants, such as natural CO₂ and ultra low-GWP refrigerant A2L, are of particular interest to plant engineers. For the use of CO₂ in deep freezing, Roller presents an optimized heat exchanger system for evaporators that meets the specific requirements of CO₂ (PS 80 bar) for small tube diameters of 9.52 mm, paired with a maximum fin spacing of 12 mm.

Roller also offers air cooler solutions for the use of A2L flammable refrigerants in freezer applications. Their re-designed electric defrost system is designed with heating rods that maintain the maximum allowable surface temperature, ensuring trouble-free operation.

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Energy-efficient products in times of global energy scarcity

Due to the current energy situation, the switch to renewable energies and the sustainable use of resources, energy-efficient plant operation is more important than ever.

To meet these increased requirements, the expansion of heat pumps and heat recovery systems is unavoidable. At Chillventa, Roller will be presenting type-tested heat exchanger tube geometries for highly efficient closed-loop heat recovery systems. Also, for waste heat recovery, heat pump applications and other diverse applications in building technology.

In the commercial refrigeration sector, Roller presents an air cooler concept for deep-freezing that can save up to 75% power consumption in the energy-intensive electrical defrosting processes.

Roller presents innovative products at Chillventa

The topics of energy efficiency and the use of F-Gas Regulation-compliant refrigerants are making their way into several innovative new product developments that Roller is exhibiting at this year's Chillventa.

For the first time, Roller is presenting the **DHNI/DHNIT** dual-sided discharge industrial air cooler with optional upward or downward air distribution. The ceiling air cooler is characterized by a very high load resistance, the use also with CO₂ up to 80 bar operating pressure and AxiEco Diagonal EC fans for energy-efficient and pressure-stable operation. A textile hose adapter for connecting textile air distribution hoses for particularly uniform air distribution and other options round off the DHNI/DHNIT. **(Fig. 1)**

For installation situations where particularly flat air coolers are to be used, Roller is showing the new **KBK/KBKT** for the first time with a unit height of only 419 mm. The KBK is available with 1 to 6 fans, can also be used with CO₂ and, thanks to its large heat exchanger surface with 8 rows of tubes in the air direction, is particularly suitable for demanding cooling tasks and gentle air conditioning of sensitive chilled goods, such as dough pieces. **(Fig. 2)**

The completely new **DLK/DLKT** ceiling air cooler will also be presented. This will replace the DLK/T...EP (Euroline Plus) in the future. The new air cooler has an easy-to-install housing with particularly generously dimensioned cut-out options for high flexibility, as well as stainless steel suspension brackets for flush ceiling installation. The evaporator blocks are available in 4 and 6 tube rows for greater variance, which is accompanied by correspondingly large heat exchanger surfaces. With the 9.52mm core tube, PS 80bar is now also possible for CO₂ direct evaporation, and when operating with A2L, the tube volumes are correspondingly compact.

Also, to be exhibited for the first time is the optimization of the **FHV/FHVT** product range. New is the additional variability of 4 or 6 tube rows in the block depth, for the larger types with 1-3 fans and \varnothing 450 mm. For these, fin spacing up to 12 mm can be offered for CO₂ applications. In addition, innovative defrost options are shown on this unit, which in the full expansion stage allow energy savings of up to 75% for the defrost system.

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For air conditioning in buildings, Roller is presenting the proven HKN climate control fan coils as a new wall-mounted version **HKNW**. The further development brings a fresh, new look and is characterized for high comfort in offices, whisper-quiet operation in laboratories and robustness in workshops. For heating and/or cooling operation; chilled water or refrigerant and even CO₂.

In addition to the revised FKN/FKNT compact air coolers and VW/VM/VD refrigeration furniture air coolers, the new Roller EasySelect selection software will also be presented live.

Technical presentations on future-proof use of air coolers

As a manufacturer of innovative air coolers, Roller is offering three technical presentations as part of the Refrigeration Technology Forum in Hall 7A. These will deal with the safe use of alternative refrigerants, indirect cooling via water and brine, and effective corrosion protection.

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About Walter Roller:

Walter Roller GmbH & Co. is an internationally operating family-owned company in the refrigeration and air conditioning industry. At the head office in Gerlingen near Stuttgart Walter Roller stands for 75 years for the development, production and the selling of high-quality heat exchanger products in the premium segment. Examples of the highly efficient solutions for heating, cooling and ventilation are applications in commercial and industrial refrigeration, air conditioning and process cooling where customized products are of high importance.

Via trade and service partners Walter Roller is present in over 30 countries worldwide. The products which are developed in Germany are as well produced in Bangkok for the Asian market. The company is led by the acting partner Joachim Reule and managing director Wolfgang Krenn.

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Illustration 1:

New DHNI/DHNIT dual discharge industrial air cooler from Roller



Illustration 2:

Particularly flat KBK/KBKT air cooler for gentle air conditioning of sensitive refrigerated goods

