



Press release



Güntner penthouse coolers: Intelligent solution for modern refrigerated warehouses

The concept with penthouse coolers from Güntner offers many application benefits.

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Refrigerated warehouses are being built increasingly larger these days. High-rack warehouses with automatic conveyor systems are now up to 30 and 40 m high. The enormous dimensions and automatic warehousing technology raise new challenges for the choice and installation of air coolers.

**The intelligent solution
for modern refrigerated
warehouses**

With its penthouse coolers Güntner offers an intelligent solution that can be adapted flexibly to suit many different types of warehouse and installation situations. The concept has been used in the USA for many years and is now becoming increasingly popular in Europe too. Güntner penthouse coolers have a power spectrum of 50 to 350 kW.

**Good use of storage
space**

In the penthouse cooler concept the air cooler is installed on the roof, either in an insulated single housing or in a penthouse suitable for several units. This arrangement allows optimum utilisation of the storage space. The units don't block pallet positions and are not a hindrance for forklift trucks or automatic conveyor systems.

**Easy to install, good
accessibility**

The penthouse coolers stand on steel frames and draw air in through grates inserted in the roof. The penthouse is installed or the roof element is placed on top only after these have been inserted. Piping and valves are generally installed via the roof. This allows good accessibility for servicing and maintenance without impairing the movement of goods – saving time and money.



Different uses

The penthouse concept can be used in many different types of warehouse. Depending on the design, the units can be installed on one side or in the middle of the warehouse roof and can achieve optimum air routing and air throw through connection of a short air duct. The fans can be designed for different external pressures, such as 60 Pa or 120 Pa.

The cold-air lake principle can also be used. In this case cooled air is blown down and is then distributed on the warehouse floor as a cold-air lake. Supported by thermal activity, the warmer air flows upwards to the ceiling and back to the air coolers.

Different refrigerants can be used

The penthouse cooler series is available for all conventional refrigerants – NH₃, CO₂, HFC.

With this level of flexibility it is always possible to find the perfect solution for every warehouse.

Güntner Group

Güntner AG & Co. KG has its headquarters in Fürstfeldbruck in Germany and is a global leader for the manufacturing of refrigeration and air conditioning components. Decades of experience in the sector, as well as consistent use of the latest technologies and research results, ensure the high quality standard of Güntner solutions in accordance with DIN EN ISO 9001 and "Eurovent Certify All". Operators include the international vehicle, food, pharmaceutical and computer industries, as well as a range of public utilities. Founded in Germany in 1931, the Güntner Group currently serves its customers and partners with nine production facilities and 40 subsidiaries and representative offices throughout the world.

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