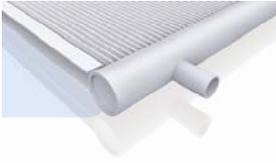


Press release



Fürstenfeldbruck,
October 2010

Development of
groundbreaking
technology

Benefits of microox[®]

Innovation and
quality

Güntner continues the microox[®] success story

microox[®] heat exchanger coils can be produced in sizes up to 4 m.

Conventional microchannel technology was difficult to use in stationary refrigeration technology because it proved impossible to achieve adequate power and the necessary depth of the coils.

Güntner microox[®] technology is a further development of microchannel technology. By carrying out many series of tests, the company was able to overcome the challenges for stationary refrigeration technology: the required dimensioning of the coil modules, adaptation to the application and consideration of the pressures.

In doing so, Güntner created an entirely new product class. Apart from using one single material, which provides much better corrosion resistance, microox[®] technology has several other advantages, such as a very high output per square meter of heat exchanger surface and in relation to the material input.

microox[®] heat exchangers can be used for all conventional refrigerants at operating pressures of up to 41 bar. Heat exchangers with microox[®] technology are made completely of aluminium and are up to 50% lighter than conventional fin-tube heat exchangers. In relation to output, microox[®] heat exchangers offer up to 75% less filling quantity, which, under certain circumstances, means fewer leak tests.

To guarantee the consistently high quality of microox[®] heat exchangers, the coils are produced in our own production line with no bought-in parts.

Quality assurance of the microox[®] production is guaranteed at several test stations. Only high-quality raw materials and semi-finished goods are used for production and these are all checked thoroughly before they enter the production process. After the brazing process, the fully automatically assembled heat exchanger coils are checked for leak tightness.



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Coils now up to 4m

The production process has also been continuously improved, so that we can now produce coils up to four metres. This means further application benefits, since in larger devices there is a considerable reduction in the amount of tubing as the connections are made for a smaller number of coils.

Next step: natural refrigerant

Of course, we will continue developing. As the next step we are working on adapting the technology to suit the requirements of natural refrigerants. Consequently, the innovative microox[®] technology will shortly also be available for natural refrigerants such as CO₂, NH₃ and propane.

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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