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Press Release

NEW EQPIPE TECHNOLOGY SUPPORTS GREENER REFRIGERATION

Bochum, September 09th 2020 – Kelvion is supporting the growing trend in the refrigeration and heat pump market towards more environmentally friendly refrigerants, with its newly integrated heat exchanger technology EQPipe.

It has been a challenge to equip various sized brazed plate heat exchangers with different distribution systems. Now the geometric dimensioning can be varied or extended depending upon the individual use of refrigerant.

Compared to older refrigerants, the newer ones have different properties, which vary depending on the mixtures of the coolants. These differences and the flow behavior can lead to an unfavorable behavior, causing an uneven distribution of the refrigerant. This in combination with the more new efficient heat pump technologies makes the perfect distribution necessary.

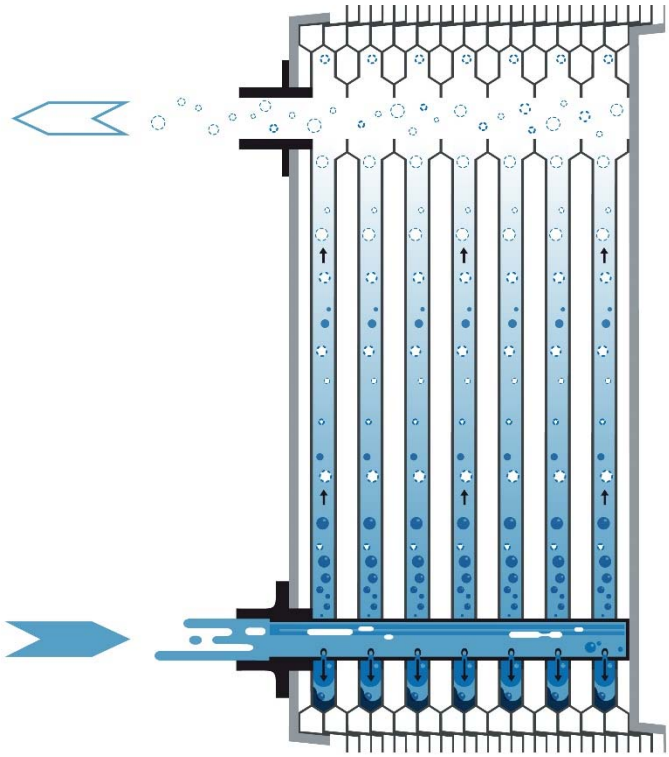
As a result, EQPipe is more efficient than conventional refrigerant distribution systems and able to solve more demanding new heat pump duties with much lower LMTD's. Kelvion developed the EQPipe to offer a solution with a reliable and competitive product.

"By means of a freely configurable stainless steel tube, with flexible lengths, tube and nozzle diameters, our new distribution pipe can turn a potential uneven distribution of refrigerant into an even distribution," explains Cornelia Schmidt, Head of Product Management. "Therefore all primary channels within the heat exchanger can be evenly supplied with refrigerant, thus 100% of the available surface area is used.

This results in the flexible use of low-GWP refrigerants in high efficiency brazed plate heat exchangers (BPHE's)."
The modular nature of the EQPipe allows Kelvion to expand and update its well-established brazed plate heat exchanger range of units with distribution systems. Kelvion also offers customized solutions with variable properties to original equipment manufacturers.

This new addition to the Kelvion heat exchanger technology portfolio combines high levels of efficiency with maximum flexibility to achieve the best thermodynamic results with today's refrigerants. The EQPipe, which is also easy to handle and comes at a fair price, is available to customers using the selection software myKelvion HX.

This technology can and will be extended according to requirements of new refrigerants, applications and markets.



Picture 1: *Low-GWP refrigerants are being distributed evenly in the high efficiency BPHE: The EQPipe maintains the optimal flow of any refrigerant's liquid-gas mixture.*

Picture 2: *Currently available High Efficiency Brazed Plate Heat Exchanger GBS-DW equipped with EQPipe*

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Company Overview of Kelvion

The name Kelvion represents innovation and tradition in heat transfer. Kelvion's roots go back to the 1920s and the company is now an international technology partner to the industry and continues to produce new product solutions, optimized for specific areas of application. Kelvion designs, manufactures, and markets Compact Fin Heat Exchangers, Plate Heat Exchangers, Single Tube Heat Exchangers, Shell & Tube Heat Exchangers, Transformer Cooling Systems and Cooling Towers.

The company supplies customers in global markets for power generation, oil and gas, chemicals and marine, food and beverage as well as sugar, heavy industry, transportation and the HVAC and refrigeration technology sectors. Customers in these industries benefit from durable, secure solutions and low operating costs, and are supported by a global service network. As of 31 December 2017, the company had generated annual sales of approx. 800 million euros and employed around 5,000 staff around the world.

For more details on Kelvion, please consult www.kelvion.com