



PRESS RELEASE

SPECTRUM Water contributes to decarbonisation ENGIE Refrigeration sells new model as heat pump and chiller

Lindau, 28 March 2022 – ENGIE Refrigeration GmbH from Lindau on Lake Constance, Germany, is strengthening its position on the international refrigeration and heating market. From today, 28 March 2022, the SPECTRUM Water will be part of the product portfolio as a heat pump; in the second half of the year, the SPECTRUM Water will also be available as a chiller. Thanks to its broad temperature range from +65 degrees Celsius to -10 degrees Celsius, the new oil-free model is suitable for many different areas and applications. The SPECTRUM Water from ENGIE Refrigeration is now helping customers decarbonise in new fields of application and thus achieve their climate protection targets – above all in the generation of heat.

How can the decarbonisation of heat generation be promoted? This is a question that nearly all companies are currently dealing with. ENGIE Refrigeration offers users around the world a new and innovative solution: the redesigned SPECTRUM Water series is available from today – first as a water-water heat pump for condenser leaving water temperatures of up to +65 degrees Celsius, and then, in the second half of 2022, as a water-cooled chiller for brine applications down to -10 degrees Celsius. As Jochen Hornung, CEO of ENGIE Refrigeration, says: 'We at ENGIE Refrigeration believe it is our mission to offer our customers future-proof investments. For us, this means developing products that meet tough requirements in terms of economy, efficiency and sustainability. We have achieved our goal once again in exemplary fashion with the SPECTRUM Water; if the compressor is powered with green electricity from renewable energy, the machine can be operated in carbon-neutral fashion. This way, we contribute to the decarbonisation of heat generation and promote the transition to climate neutrality.'

SPECTRUM WATER: a future-proof investment

The SPECTRUM Water series will be available as a heat pump and as a chiller, each version featuring twelve basic models, and with a performance range between 340 and 3,100 kilowatts of rated heating power (as a heat pump), or between 200 and 1,200 kilowatts of rated refrigeration power (as a chiller). All versions are based on the technology of the QUANTUM Water from ENGIE Refrigeration, which is currently the most efficient water-cooled chiller on the international market. As a result, the SPECTRUM Water features highly condensing, oil-free turbo compressors with magnetic bearing, flooded shell and tube condensers and an open-flash economizer integrated as standard. It also contains high-quality technology components made in Germany, such as the intelligent Siemens S7 PLC, and can be operated



via a 10-inch touch panel or via any mobile end device with the help of smart control. The oil-free machine design makes the system unique in the market for large heat pumps, which is currently still very heterogeneous. As well as making the system highly energy-efficient throughout its service life, the choice to do without lubricant oils in the refrigerant circuit has improved operational reliability and reduced the necessary number of labour and cost-intensive service deployments in the long term. Because of its very high energy efficiency in heating mode, the system not only exceeds the requirements of the Ecodesign Directive by a multiple, but also easily meets the efficiency requirements stipulated by the BAFA federal fund for efficient buildings (BEG).

ENGIE offers solutions for refrigeration and heating

Operating companies can choose between the A2L low-GWP R-1234ze refrigerants and the high-efficiency A1 safety refrigerants R-515B, R-514A and R-134a. With all these features, the SPECTRUM Water offers excellent power density, operational reliability, energy efficiency and sustainability – both as a heat pump and as a chiller. It is suitable for many different applications in a wide range of industries – as a heat pump providing heat in monovalent fashion for new and existing large-volume buildings; for integration into urban and communal heat networks; or as a chiller for the food production and processing industry, for example. 'With its specific features, the SPECTRUM Water is perfect for a great many different applications. We are proud to say that our customers are guaranteed to benefit from one of the best machines for the respective area of application – and thus improve efficiency while reducing their carbon footprint,' says Jochen Hornung. And ENGIE Refrigeration has a lot more planned for 2022: further product innovations are already being planned and developed.

Pictures

Caption: ENGIE Refrigeration strengthens its position on the heating market: the new SPECTRUM Water is the ecologically sustainable alternative to boilers operated with fossil fuels.

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About ENGIE Refrigeration

ENGIE Refrigeration GmbH specialises in products, solutions and services for economical and energy-efficient refrigeration and heat generation. The refrigeration specialist plans, manufactures, operates and looks after refrigeration systems, heat pumps, re-cooling systems and system solutions. Based in Lindau on the shores of Lake Constance, the company has a nationwide sales and service network in Germany. As part of the ENGIE Group, ENGIE Refrigeration benefits from the support that the structures of a global corporation provide. The origins of ENGIE Refrigeration extend all the way back to the Sulzer company, which was founded in 1834. ENGIE Refrigeration GmbH is part of ENGIE Deutschland. ENGIE Deutschland has pooled the combined expertise of ENGIE Deutschland GmbH, ENGIE Refrigeration GmbH, ENGIE Deutschland AG and H.G.S. GmbH, among others, since June 2016. ENGIE Deutschland maintains 50 branch offices and has approximately 4,650 employees in Germany, who generated sales of around €1.4 billion in 2021. The share of sales accounted for by ENGIE Refrigeration GmbH – with 325 employees – added up to around €82 million.

www.engie-refrigeration.de/en

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