

Emerson unveils innovative low sound scroll compressors for quieter air-to-water heat pumps

NUREMBERG (GERMANY), October 12, 2022 – Amidst increased climate protection efforts and stricter energy-saving requirements, the sustainable heating of buildings and homes is becoming ever more important in the EU. In this context, heat pumps play a key role in promoting decarbonization and the phase-out of fossil fuel heating – especially air-to-water heat pumps that combine greenhouse gas emission reductions with low investment, operating, and maintenance costs. To advance this important segment, Emerson (NYSE: EMR) has developed an innovative range of Copeland[™] low sound scroll compressors that enable exceptionally quiet operation, which is particularly important for heat pump applications in residential environments.

Substantially quieter operation and best-in-class efficiency combined

The all-new portfolio consists of four compressors with capacities ranging from 29 cc (5 kW) to 94 cc (20 kW). Thanks to their sophisticated scroll technology, the compressors produce only half the sound pressure of a standard Copeland compressor – representing a reduction of 10 db(A) at full capacity – without the need for costly elaborate noise insulation to be added by OEMs.

Equally important and relevant to both the environment and costs is the efficiency of the new compressors. The low sound scroll compressors achieve best-in-class efficiency with an A+++ rating at a reference temperature of 55° C. Moreover, because they use either R290 or R454C refrigerants with a global warming potential (GWP) below 150, compliance with the F-Gas regulation and consequently future-proofness are guaranteed.

“The Copeland low sound scroll compressor’s properties allow for the design of very quiet and compact air-to-water heat pumps,” said Enrico Fraccari, director marketing residential comfort for Emerson. “Because of these technical characteristics, manufacturers can achieve significant cost savings in materials and labor: Utilizing these compressors can translate into lower system costs and improved competitiveness.”

Ideally equipped for a decarbonized future

With its new Copeland low sound scroll compressors, Emerson enables OEMs to prepare for the future strong growth in demand for air-to-water heat pumps. As the EU is committed to phase out fossil fuels in heating, air-to-water heat pumps are expected to take over the market due to their sustainability and cost efficiency benefits.

With about 75 percent of Europeans living in urban areas, the lowest possible noise emissions will be crucial for product differentiation and future market success. The sophisticated

Copeland solution for decarbonized residential heating offers all OEMs, installers and end users the best prerequisites to thrive in this environment.



[Caption]

Emerson's Copeland low sound compressors enable significantly quieter operation of air-to-water heat pumps

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About Emerson

Emerson (NYSE: EMR), headquartered in St. Louis, Missouri (USA), is a global technology and software company providing innovative solutions for customers in industrial, commercial, and residential markets. A leader in industrial automation, Emerson helps process, hybrid and discrete manufacturers optimize operations, protect personnel, reduce emissions and achieve their sustainability goals through its Automation solutions and AspenTech businesses. Emerson's Commercial and Residential Solutions business helps ensure human comfort and health, protect food quality and safety, advance energy efficiency, and create sustainable infrastructure. For more information visit [Emerson.com](https://emerson.com) or [Climate.emerson.com](https://climate.emerson.com).

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