

## **Copeland to Launch Vilter Industrial, Single-Skid Heat Pump to Help Customers Accelerate the Energy Transition**

*Simple design with a single-screw compressor increases durability, reliability and performance in industrial spaces*

ST. LOUIS (Oct. 2, 2024) — Copeland, a global provider of sustainable climate solutions, announced today the launch of the Vilter VQ95 industrial heat pump to help customers reduce their carbon footprints. Copeland's innovative Vilter VQ95 heat pump is a single-stage heat pump designed to decarbonize district heating and industrial process heating applications, including food and beverage production.

Ambitious climate goals and initiatives to reduce dependency on fossil fuel boilers are underway in many parts of the world, with leading companies worldwide making sustainability pledges that target the decarbonization of plants and operations. As a result, the global industrial heat pump market (hardware) is [forecast to grow](#) exponentially over the next several years, and in energy-intensive industrial processes the electrification of heating systems is widely recognized as a necessary step. A new report published by McKinsey values the industrial heat pump market at \$4 billion in 2023 and is estimated to reach \$21 billion by 2030.

Meeting sustainability targets and integrating industrial heat pump technology into existing facilities will require a simpler solution than the bespoke systems that have typically been built on-site. With the launch of the Vilter VQ95 industrial heat pump, Copeland adds a robust platform of scalable and configurable options to its industrial process heating market portfolio. The system leverages Vilter single-screw technology to enable unprecedented simplicity, performance, reliability and flexibility using ammonia (NH<sub>3</sub>) — a natural refrigerant solution that has low global warming potential (GWP). Because the heat delivered far exceeds the energy consumed, industrial heat pumps greatly reduce reliance on fossil fuels and expand opportunities to utilize renewable energy sources. Copeland's Vilter VQ95 industrial heat pump system balances these characteristics with a compact footprint while maximizing efficiency and minimizing total cost of ownership.

**Simple:** The system is designed to be intuitive and user-friendly to operate and maintain. The unit's plug-and-play, modular design has fewer moving parts than multi-stage units and can often be serviced without removing the compressor from the system. Selection and configuration are streamlined by Copeland's web-based software tool, helping users meet their unique specifications.

**Exceptional performance:** The Vilter VQ95 industrial heat pump has a high coefficient of performance and exceptional high lift capabilities, often eliminating the need for multistage systems, while helping to reduce overall costs.

**Reliable:** The single-screw compressor delivers industrial-grade performance and reliability. The Vilter VQ95 industrial heat pump is a complete single-stage, closed loop NH<sub>3</sub> system that offers lower maintenance costs and longer times between service periods. Eliminating the oil pump, eliminates one of the most common causes of failure.

**Flexible:** The Vilter VQ95 industrial heat pump has a modular and scalable design. It is available in two compact footprints supporting more than 2,000 standard configurations, which provide higher capacity per skid — potentially meeting application requirements with fewer units. With a 1 to 5 MW heating capacity per skid, its modularity enables systems to be scaled with parallel or serial pipe connections, allowing it to scale in capacity as needed. Additionally, the Vilter VQ95 heat pump provides a high standard temperature rating of up to 95 C with high lift capability in a single-stage system.

“The Vilter VQ95 heat pump removes the complexities that are traditionally associated with applying industrial heat pumps,” said Grant Kovac, director of product management, Vilter industrial solutions for Copeland. “We focused on striking the perfect balance of a standard, configurable product with enough flexibility to maximize best fit and coefficient of performance for each unique application. To date, the market feedback has been overwhelmingly positive, and we look forward to helping our customers achieve their sustainability goals with this modular, plug-and-play solution.”

Copeland has built a center of excellence for this product in Denmark, which is now available globally. The Vilter VQ95 industrial heat pump will make its debut at Chillventa 2024. To register for the show, go [here](#). More information about the Vilter VQ95 industrial heat pump and other Copeland heat pump solutions can be found at [Copeland.com](https://www.copeland.com).

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## About Copeland

Copeland is a global leader in sustainable heating, cooling, refrigeration and industrial solutions. We help commercial, industrial, refrigeration and residential customers reduce their carbon emissions and improve energy efficiency. We address issues like climate change, growing populations, electricity demands and complex global supply chains with innovations that advance the energy transition, accelerate the adoption of climate friendly, low-GWP (global

warming potential) and natural refrigerants, and safeguard the world's most critical goods through an efficient and sustainable cold chain. We have over 18,000 employees, with feet on the ground in more than 40 countries — a global presence that makes it possible to serve customers wherever they are in the world and meet challenges with scale and speed. Our industry-leading brands and diversified portfolio deliver innovation and technology proven in over 200 million installations worldwide. Together, we create sustainable solutions that improve lives and protect the planet today and for future generations. For more information, visit [copeland.com](http://copeland.com).

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