

Siemens presents innovative and sustainable building technology at MCE 2024

- **Siemens provides sustainable heating, cooling and ventilation solutions and thus, supports partners and customers in the decarbonization of buildings**
- **One of the highlights will include an energy efficient magnetic expansion valve, with which OEMs can gain up to 21% more heating capacity**
- **Also being showcased is a heat pump automation system as part of Siemens Xcelerator**

At this year's Mostra Convegno Expocomfort (MCE) trade show, Siemens Smart Infrastructure will present a broad range of innovative and sustainable products, systems, and solutions for Original Equipment Manufacturers (OEM) and installers to accelerate the decarbonization of real-estate. The global marketplace and event, that takes place from March 12 to 15 in Milan, Italy, brings together companies and industry experts from the heating, ventilation, air conditioning and refrigeration (HVACR), renewable energy sources and energy efficiency fields.

Highly efficient chillers and heat pumps with magnetic expansion valve

One of the highlights will be the fast MVL702 magnetic expansion valve. The product, which has been designed specifically for refrigeration cycle processes in heat pump and chiller applications, is easy to integrate into any existing automation system and saves development and testing costs.

Its instant and precise response ensures system stability for commercial heat pumps and chillers as well as high energy efficiency, with an annual energy saving potential of up to 14 percent for end customers. Compared to a stepper motor technology,

OEMs can gain up to 21 percent more heating capacity when implementing the valve into their existing heat pumps. With the integration of the MVL702, the heat pump continues to provide the same heating output, while consuming less energy and therefore delivering cost savings and improving sustainable operations. In addition, the valve closes automatically in case of power failure or cable disconnection, offering additional safety in chiller and heat pump applications.

Efficient heat pump automation for residential buildings

The Climatix system is part of the open digital business platform Siemens Xcelerator, which enables customers to accelerate their digital transformation easier, faster and at scale. The product allows OEMs in the HVACR sector to design, control, install, maintain, and innovate their offering in an efficient, open and sustainable way, while enabling Software-as-a-Service (SaaS) offerings. With the new Climatix S400 controller, Siemens provides equipment automation – specifically for residential HVACR applications, such as heat pumps and heat recovery ventilation. Its use favors the shift towards energy efficiency and decarbonization as due to its modularity, it can be employed in innovative and scalable heat pump applications. In addition, the controllers' native cloud connectivity ensures remote access, which provides full transparency to OEMs and installers and allows fast, cost-efficient and sustainable reactions.

“We are very excited to again be present at this year’s MCE in Milan. As buildings account for 40 percent of global energy consumption, taking action in terms of energy efficiency has never been more urgent. True to Mostra’s focus topic for 2024 ‘transform today, to create a sustainable tomorrow’ we will showcase innovative and sustainable technology that helps our customers to accelerate delivery against their sustainability targets,” said Henning Sandfort, CEO of Building Products at Siemens Smart Infrastructure.

In addition to the highlights above, Siemens will present an HVACR plug-and-play solution to decrease heating and cooling costs in small- and mid-sized buildings, as well as further building automation solutions, which address leading CO₂ reduction challenges. Applications range from chillers, heat pumps and turnkey solutions for OEMs to state-of-the-art communication and cloud technologies. The Siemens booth U01 can be visited in Hall 5.

This press release as well as press pictures / further material are available [here](#).

For further information on Siemens at MCE, please see www.siemens.com/mce.

For further information on Siemens Smart Infrastructure, please see www.siemens.com/smart-infrastructure.

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Contact for journalists:

Siemens AG

Maike Wagner

Phone: +41 79 448 9214

Email: maike.wagner@siemens.com

Siemens Smart Infrastructure (SI) is shaping the market for intelligent, adaptive infrastructure for today and the future. It addresses the pressing challenges of urbanization and climate change by connecting energy systems, buildings and industries. SI provides customers with a comprehensive end-to-end portfolio from a single source – with products, systems, solutions and services from the point of power generation all the way to consumption. With an increasingly digitalized ecosystem, it helps customers thrive and communities progress while contributing toward protecting the planet. Siemens Smart Infrastructure has its global headquarters in Zug, Switzerland. As of September 30, 2023, the business had around 75,000 employees worldwide.

Siemens AG (Berlin and Munich) is a leading technology company focused on industry, infrastructure, transport, and healthcare. From more resource-efficient factories, resilient supply chains, and smarter buildings and grids, to cleaner and more comfortable transportation as well as advanced healthcare, the company creates technology with purpose adding real value for customers. By combining the real and the digital worlds, Siemens empowers its customers to transform their industries and markets, helping them to transform the everyday for billions of people. Siemens also owns a majority stake in the publicly listed company Siemens Healthineers, a globally leading medical technology provider shaping the future of healthcare.

In fiscal 2023, which ended on September 30, 2023, the Siemens Group generated revenue of €77.8 billion and net income of €8.5 billion. As of September 30, 2023, the company employed around 320,000 people worldwide. Further information is available on the Internet at www.siemens.com.