

## Panasonic's Comprehensive Home Heating Solutions at Chillventa 2024

**Wiesbaden, Germany, 8 October 2024** – Panasonic Heating & Cooling Solutions proudly showcases its 'total solution' for residential heating and cooling, designed to offer homeowners increased comfort, control, and significant energy savings. This innovative offering combines state-of-the-art heat pump technology, smart controls, and energy management services to optimise home comfort while reducing energy costs and carbon footprints.

### Partnership with Tado°: Room control and smart energy management services

Panasonic recently revealed its first energy-saving integrated solution with tado°, combining Panasonic's Aquarea air-to-water heat pump technology with tado°'s smart heating products. The partnership underscores both companies' commitment to decarbonising homes while empowering customers to manage energy use more effectively. It offers end-users intelligent heating control meaning lower energy consumption, especially with tado° Smart Thermostats that help reduce energy consumption by up to 22%<sup>1</sup>. This solution also allows multi-room control, giving users the ability to manage temperatures across different areas of the home with precision and ease.

### Aquarea Air Smart Fan Coils: Style Meets Efficiency

In addition to the heat pump technology, Panasonic offers a new full range of smart fan coils and ventilation systems. The stylish fan coils are designed with advanced controllers that deliver high-efficiency climate control. The slimline design blends seamlessly into any home, with refined product features that ensure superior performance. The motor in the smart fan coils operates with exceptional efficiency, using significantly less energy thanks to its low wattage design.

### Ventilation Solutions: Enhancing Indoor Air Quality

The Aquarea Vent systems, available in a variety of size choices and formats to adapt to each house, are designed to enhance indoor air quality while providing energy-efficient solutions, ensuring homes remain comfortable year-round. Both smart fan coils and residential ventilation come with advanced wireless connectivity options.

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<sup>1</sup> Internal data averaged across all tado° customers, collected up to 11/2023.

## **Aquarea M Series: Modular Design for Every Home**

Panasonic's Aquarea M Series range of air-to-water heat pumps, available to market since Summer 2024, has been carefully crafted with a modular concept, offering flexibility for different home needs and property types. The range includes AiO units with 185L DHW tank and a new unit with 260L DHW tank, Bi-Bloc systems, and Control Box or Remote-only basic functionalities, delivering a tailored solution for every customer. The system utilises the natural refrigerant R290, which boasts a low Global Warming Potential (GWP) of just 3, making it a more environmentally responsible choice.

For more information visit Panasonic at Chillventa, Nuremberg, on October 8-10th 2024 in Hall 4A / Booth 4A-429 or visit <https://www.aircon.panasonic.eu>.

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## Panasonic Showcases an Extensive Array of Centralised Heating Solutions at Chillventa 24

**Wiesbaden, Germany, 8 October 2024** - Panasonic Heating & Cooling Solutions is pleased to introduce the Aquarea Loop and Cascade Manager, which together with its Big Aquarea portfolio, offers versatile and efficient solutions for all types and sizes of centralised heating and domestic hot water applications. This initiative reflects Panasonic's commitment to sustainability and its ongoing efforts to provide greener solutions for a better future.

**Big Aquarea T-CAP M Series** is the latest addition to Panasonic's air to water heat pump range. Providing a flexible, compact and energy-efficient solution for central heating and domestic hot water, the versatile unit is available in sizes ranging from 20, 25 and 30 kW capacities, with the capability to scale up to 300 kW in cascade. The unit utilises the natural refrigerant R290, which has a low GWP of 3 for a sustainable solution, and provides heating temperatures of up to 75°C. The unit utilises T-CAP technology that allows for maintained rated capacity down to -15°C at 55°C water outlet whilst being a cost and space saving sustainable option. This makes it easily integrable with water systems such as fan coils, floor heating, domestic hot water tanks and radiators.

**Aquarea Loop** is a decentralised water-to-air heat pump system, designed for low-temperature centralised water loops. Its design simplifies installation, reduces aesthetic impact, and offers versatile control options, ensuring efficient operation through thermal balancing. The solution can replace outdated radiators in centralised heating systems renovation, allowing the reuse of the existing piping, enhancing overall efficiency by also offering cooling capabilities. The Aquarea Loop connects to a water ring with water temperature between 20°C and 30°C. Thanks to a small built-in R290 compressor, it not only warms a room but can also provide cooling during summer.

Launching later this year, Panasonic introduces the new **Aquarea Cascade Edge Manager** for Aquarea projects, compatible with Aquarea H Series onwards. Cascading up to 10 Aquarea heat pumps, the local web controller can easily connect to management solutions through electronic devices like Smartphone, Tablet or PC, thanks to pre-configured Wi-Fi on the devices. Available as P-Smart Edge for control and monitoring for Aquarea cascade systems or P-Smart Nexus for smart multi-site

remote management, both offer a user-friendly interface, ensuring 24/7 remote management of installations and data history. In addition, it has alarm notice by email, 5 years Statistics of the working parameters and as well total Electrical Consumptions, Power Generations and COP.

These products collectively enhance Panasonic's centralised heating range, offering sustainable heating solutions to end-users whilst being able to manage its their own installations.

For more information visit Panasonic at Chillventa, Nuremberg, on October 8-10th 2024 in Hall 4A / Booth 4A-429 or visit <https://www.aircon.panasonic.eu>.

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## Panasonic Unveils New Room Conditioner Solutions at Chillventa 2024

**Wiesbaden, Germany, 8 October 2024** – Panasonic Heating & Cooling Solutions has unveiled its Room Conditioner solutions at Chillventa 2024 (Hall 4A / Booth 4A-429). This new range of products is designed to revolutionise the heating and cooling industry with advanced technology and eco-friendly features. The lineup includes the Power Heat Multi and RAC Solo, which collectively offer unique benefits to meet the diverse climate control needs of modern buildings.

### Power Heat Multi

Panasonic's Power Heat Multi Range is its first RAC outdoor lineup to feature an attractive dark colour, allowing it to blend seamlessly with home exteriors without compromising aesthetics. Designed specifically for installation in cold climates, it offers high efficiency and operation at temperatures as low as  $-25^{\circ}\text{C}$ . The units feature a SCOP of 4.6 and compatibility with Etherea Z indoor units. Cleverly designed with a base pan heater, the outdoor unit is prevented from freezing, ensuring consistent performance in the property. Even in temperatures as low as  $-25^{\circ}\text{C}$  outside, the unit delivers robust heating—3.9 kW for two rooms and 4.3 kW for three rooms when used with Z-ZKE indoor units.

The multi-split models boast high efficiency, with an A++ energy rating, attributed to its inverter technology. When paired with Etherea Z indoor units, it combines exceptional efficiency with an aesthetically pleasing design, whilst offering user-friendly features such as nanoe™ X technology and built-in Wi-Fi. Installation is streamlined, reducing time and effort, which is especially beneficial for installers working in low outdoor temperatures, minimising the time spent outside.

**RAC Solo** is a compact and discreet air conditioning system designed without an outdoor unit, making it ideal for areas with limited space. With high quality, durable material, and a sophisticated, hyper compact design, it ensures quiet operation and minimal visual impact. The installation process is simple, with only two small openings required on an external wall. Available in various models utilising R290 and R32 refrigerants, the RAC Solo serves as an efficient air-to-air heat pump.

These innovative products are suitable for a wide range of projects, including residential buildings and commercial spaces. They are ideal for both new

constructions and retrofitting existing structures, providing efficient and eco-friendly heating and cooling solutions that meet the demands of modern architecture and sustainability standards.

For more information visit Panasonic at Chillventa, Nuremberg, on October 8-10th 2024 in Hall 4A / Booth 4A-429 or visit <https://www.aircon.panasonic.eu>.

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## Panasonic Unveils the New Capacity of R32 VRF 2-Pipe ECOi EX MZ1 Series at Chillventa 24

**Wiesbaden, Germany, 8 October 2024** – Panasonic Heating & Cooling Solutions is proud to announce the launch of its latest innovation in commercial HVAC technology, the 2-Pipe ECOi EX MZ1 Series. This groundbreaking series, unveiled at Chillventa 2024 is designed to offer extreme efficiency, quality, and compactness, setting a new standard in the industry.

The 2-Pipe ECOi EX MZ1 Series stands out for its compact design and high seasonal efficiency, with the 10HP unit achieving  $\eta_{s,c}$  310,1% in cooling and  $\eta_{s,h}$  172,4% in heating. It achieves a significant 43% reduction<sup>2</sup> in footprint due to its compact and lightweight design, in turn lowering design and installation efforts and costs. Furthermore, alongside its quiet operation the unit creates major benefits for multi-unit installations, including its ability to support up to 1000m of piping for a maximum of 64 indoor units enabling versatile installation whilst saving space.

Aimed at commercial applications, the 2-Pipe ECOi EX MZ1 Series possesses a wide operation range, maintaining its high performance in temperatures as low as -25°C and as high as 52°C.

The series uses 57% less R32 refrigerant compared to the R410A equivalent system. This reduction in refrigerant means that many systems can be installed without the need for additional safety measures typically required for R32 refrigerant systems. Safety is a top priority for Panasonic so the ECOi EX MZ1 Series includes standard compliant safety measures for R32 refrigerant such as new R32 refrigerant leak detectors and alarms, complying with EN 378 and IEC 60335-2-40 standards, plus it comes with a 2-Pipe safety valve kit.

The series offers an extensive R32 range designed to meet the requirements of any project. All air-to-air indoor units are equipped with nanoe™ X, ensuring improved indoor air quality for a cleaner environment. Additionally, hydronic module options are available, enabling the production of heating and hot water. For enhanced ventilation, the series includes options such as ERVs and AHU connection kits. A wide variety of connectivity options, including stand-alone, central, and BMS

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<sup>2</sup> 12 HP MZ1 model compared to the equivalent conventional Panasonic 12 HP model

integration, ensures seamless control and management across different applications.

The new 2-Pipe ECOi EX MZ1 Series was unveiled at Chillventa 2024 on Panasonic Heating & Cooling Solutions Booth, Hall 4A / Booth 4A-429.

To find out further information please visit <https://www.aircon.panasonic.eu>

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## Panasonic Introduces Cutting-Edge Jet Air Stream Indoor Units for PACi NX at Chillventa 2024

**Wiesbaden, Germany, 8 October 2024** - Panasonic is pleased to announce the launch of its new Jet Air Stream Indoor Units for PACi NX, set to be unveiled at Chillventa 2024, taking place from October 8-10<sup>th</sup>, Hall 4A Booth 4A-429.

The Jet Air Stream Indoor Units are designed to provide energy efficient heating and cooling solutions tailored for large spaces like warehouses, factories, and gyms. These environments often present unique challenges due to their large size, requiring efficient climate control. The Jet Air Stream units offer effective, sustainable, and energy-saving solutions for year-round climate control in even the most demanding settings.

Key features of the Jet Air Stream Indoor Units include:

- **High air volume and long throw distance:** With a high air volume of up to 5000 m<sup>3</sup>/h and a long throw distance of up to 30 metres, these units ensure optimal air distribution throughout large spaces.
- **Self-directing motorised nozzles:** The smart models feature self-directing motorised nozzles that prevent air stratification and maintain an ideal temperature in the occupied area.
- **Quiet operation with powerful performance:** These units provide powerful performance while maintaining quiet operation, ensuring a comfortable environment.
- **Ready for duct connection:** The units are designed for easy installation and are ready for duct connection, offering flexibility in various applications.

The Jet Air Stream Indoor Units come in three variations - Smart, Standard, and Ducted - with two sizes (140 and 250). They are equipped with energy-efficient EC fans and offer advanced touch panel control features.

For more information visit Panasonic at Chillventa, Nuremberg, on October 8-10<sup>th</sup> 2024 in Hall 4A / Booth 4A-429 or visit <https://www.aircon.panasonic.eu>.

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## Panasonic Partners with Innovative LIFE iTS4ZEB Project Launching at Chillventa 2024

**Wiesbaden, Germany, 8 October 2024** – Panasonic Heating & Cooling is proud to be officially introducing the pioneering [LIFE iTS4ZEB](#) project at its Booth 4A-429 during Chillventa, Nuremberg on October 8th, 2024. The LIFE iTS4ZEB initiative aims to provide advanced thermal energy storage for zero-emission buildings. This highly anticipated event will provide attendees with the chance to learn about the cutting-edge solutions to be developed under the initiative and to gain in-depth insights into this innovative collaborative project.

The LIFE iTS4ZEB project, led by Innova and supported by six partners including Panasonic, is set to revolutionise the way we approach thermal energy storage in buildings. This ambitious initiative, funded by the European Commission under the LIFE Programme, aims to develop and demonstrate next-generation thermal energy storage (TES) technologies that are compact, high-performing, cost-effective, and modular.

### Key Highlights of the LIFE iTS4ZEB Project

- **Innovative Technology:** The project will develop a multi-source heat pump combined with PCM, optimized by novel control algorithms.
- **Wide Applicability:** Solutions will be applicable to a variety of buildings, whether new or renovated, poorly or well-insulated.
- **Real-World Demonstrations:** 50 independent demonstrators will be installed across 10 European countries to validate the technology in real-life contexts.
- **Market Readiness:** Innova aims to produce a pre-series in the final configuration and start producing and selling the first 500 units.

The project aims to deliver to the market a product that integrates heat pump (HP) and PCM TES technology, enabling ready-to-use energy storage even in already existing installations. It features capabilities that easily detect self-consumption of PV energy, maximising the amount of energy that can be produced and consumed on-site. Additionally, it allows for demand response for smart grids without compromising comfort and ensures appropriate purchasing and maintenance costs.

### Six Partners to Build a Sustainable Future

A strategic alliance of six partners have joined forces for this groundbreaking research initiative:

- INNOVA: the driving force of the project, Innova aims to produce a pre-series in the final configuration and kickstart production/sales of the first 500 units.
- Panasonic Marketing Europe GmbH: Leaders in sustainable solutions for heating and cooling.
- EURAC: A private non-profit organisation dedicated to advanced research and education, engaged in fields as diverse as Autonomy, Health, Mountains, and Technology.
- Studio Fieschi & Partners: An international consultancy in the fields of environment and sustainability.
- THERMALINK: A leading designer and manufacturer of prefabricated organic thermal storage modules made of PCM.
- The University of Padua: Through its Department of Management and Engineering (DTG), it has state-of-the-art facilities for research in thermodynamics, heat transfer, refrigeration technology, materials, and more.

The launch event is set to take place at Chillventa, Nuremberg, on October 8th 2024, at 3.30pm CET on the Panasonic Heating & Cooling Solutions Booth, Hall 4A / Booth 4A-429.

Follow the project's social media channels to stay updated on the latest developments:

[www.linkedin.com/company/its4zeb](https://www.linkedin.com/company/its4zeb)

<https://www.instagram.com/lifeits4zeb/>

<https://x.com/its4zeb>

To find out further information please visit <https://its4zeb.eu/>

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### **About the Panasonic Group**

Founded in 1918, and today a global leader in developing innovative technologies and solutions for wide-ranging applications in the consumer electronics, housing, automotive, industry, communications, and energy sectors worldwide, the Panasonic Group switched to an operating company system on April 1, 2022 with Panasonic Holdings Corporation serving as a holding company and eight companies positioned under its umbrella. The Group reported consolidated net sales of Euro 54.12 billion (8,496.4 billion yen) for the year ended March 31, 2024. To learn more about the Panasonic Group, please visit: <https://holdings.panasonic/global/>.