



## **World's first catalytic hydrogen air-heating system commissioned at customer site by HYTING**

- HYTING has successfully commissioned the first customer installation of its unique catalytic hydrogen air-heating system – the first of its type in the world
- The 10kW unit is installed in Flusys' facility for precision pumps in Offenbach, Germany, and provides peak heating for a 1,000 cubic-meter production space
- The hydrogen is sourced from a nearby supplier
- Peak heating installations for commercial and industrial buildings are a key application for HYTING, and can save customers costs from day one by drastically reducing capacity and demand charges and overall system costs
- HYTING's unique technology uses a flameless, catalytic process to enable safe, efficient and clean forced-air heating – there are no CO<sub>2</sub>, NO<sub>x</sub>, or particulate matter emissions
- The commissioning follows the successful completion of a 2,500-hour durability test by one of the world's leading engineering service providers, and the GAR certification of HYTING's heat generators
- The next customer installation is scheduled for later in Q1 2026
- For further information please visit [hyting.com](https://hyting.com)
- To download images please click [here](#)

**04 February 2026 Wiesbaden, Germany** – Hydrogen heating technology company HYTING has successfully commissioned its first customer installation. This marks a major milestone for the company and a world-first for the heating sector: the first catalytic hydrogen-powered air-heating system in operation at a customer site.

Located at Flusys GmbH's newly-established production facility for precision pumps in Offenbach, Germany, the 10kW air-heating unit is now fully operational and provides peak heating for a 1,000 cubic-meter space using hydrogen from a nearby supplier.

Flusys already has many years of extensive experience with hydrogen technologies, and the installation will prove not only the efficacy of HYTING's technology, but also demonstrate that hydrogen can replace natural gas as a cleaner, more sustainable source of heating.



Peak heating for commercial and industrial buildings is a key application for HYTING's technology because these buildings often face high peak heat demand, limited electrical infrastructure and increasing pressure to decarbonise their energy systems. Hydrogen-powered peak heating is an ideal solution – particularly when hydrogen is already available on site or regionally.

HYTING's air-heating system can work with any heat source to form a hybrid heating system, including heat pumps. In this configuration the HYTING unit provides peak heating capacity during periods of high demand or in low ambient temperatures, with the heat pump managing the base heating load while running at its most efficient operating point.

This approach enables optimal system sizing – of both the HYTING unit and the heat pump – and reduces installed electrical capacity while also addressing one of the key cost drivers for commercial buildings: capacity and demand charges. By covering peak loads with hydrogen instead of electricity, customers can reduce operating costs from day one, with fast amortisation and minimal system complexity.

HYTING's technology can be combined with any other heat source – heat pumps, industrial waste heat, for example – enabling a flexible decarbonisation pathway for a wide range of building types. The compact, modular design enables multiple units to be combined to provide greater heating capacity and also ensures that it is suitable for both new installations and retrofits.

**Tim Hannig, Founder and Managing Director of HYTING**, said: “Our vision has always been to see hydrogen replace fossil fuels and make an invaluable contribution to decarbonising the heating sector. Our technology is simple, safe, efficient, and clean, and we're delighted to see our first customer installation up and running. We're very proud that Flusys chose to work with us on this world-first, and we look forward to seeing the next systems coming online in the coming months.”

HYTING's technology is based on a proprietary flameless catalytic process in which hydrogen reacts with oxygen from ambient air to generate heat – without producing any CO<sub>2</sub>, NO<sub>x</sub>, or particulate emissions – the only by-product is water vapour. Furthermore, it does not use flammable concentrations of hydrogen at any operating point, making it inherently safe.

The quality and robustness of HYTING's technology has been proven by one of the world's leading engineering service providers in a 2,500-hour durability test on a 10kW heat generator: simulating 10 years of real-world operation, it was completed without failures or measurable wear on safety-critical components. HYTING has also achieved Gas Appliance Regulation (GAR) certification for its technology and is now fully certified for field test operation.

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#### **About HYTING:**

HYTING is a heating technology company founded in 2021 with the mission to deliver carbon-free heating fuelled by hydrogen. It has developed a catalytic heat generator (patents pending),



in which hydrogen reacts flamelessly with oxygen from the air to release heat. There are no harmful emissions (no CO<sub>2</sub>, no CO, NO<sub>x</sub>, no VOCs, no particulates) – the only by-product is water in the form of air humidity. This flameless oxidation process is at the heart of HYTING's simple, safe, efficient and clean heating systems.

Decarbonising heating is a globally recognised challenge, and HYTING's technology can help to accelerate the transition from carbon-fuelled heating technologies to cleaner, more sustainable heating systems, and enabling net zero emissions by 2050.

The HYTING technology is used in air-heating systems (HVAC) for industrial, commercial and logistics buildings, for process heat of up to 300°C, and in the automotive sector for applications such as auxiliary heating. The units are initially available in heating capacities of 10 or 50 kW per unit which can be expanded to meet higher heating demands through modular configurations. The company is scaling quickly from prototype to series production, with the first customer installations in Q1 2026. HYTING is based in Wiesbaden, Germany, and is run by a leadership team with decades of experience in the engineering sector.

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