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ebm-papst and HYTING Forge Strategic Partnership to Accelerate Development of Hydrogen Heat Generators

Wiesbaden, Germany – 08.01.25 – ebm-papst, global leader in air technology and heating technology, and HYTING, a start-up for hydrogen heating systems, today announced their strategic partnership to develop and manufacture hydrogen-fuelled heat generators.

HYTING's innovative concept offers a simple, safe, efficient, and clean way to generate heat directly from hydrogen, without combustion. The start-up has developed a forced-air heating system (patents-pending) that uses a unique catalytic process to turn hydrogen and oxygen from air into heat. The catalyst acts as a reaction accelerator. Unlike systems that rely on hydrogen combustion to generate heat, HYTING's technology does not produce any NOx, or particulate emissions – the only by-product is water. Furthermore, it does not use flammable concentrations of hydrogen at any operating point.

It is modular and highly scalable in design, with outputs of 10-300 kW, enabling it to be configured for a wide range of different heating applications, including commercial and residential buildings and heating systems for commercial vehicles. Prototypes are currently undergoing testing, with the first customer trials expected in Germany by Q1 2025.

In this partnership, ebm-papst will leverage its extensive experience and infrastructure to accelerate the development and market launch of HYTING's heat generator portfolio. The heating technology expert ebm-papst has been conducting research in the field of hydrogen for years, including in its in-house hydrogen laboratory at its Landshut location. The company's gas products are already certified for the admixture of hydrogen and can therefore be used perfectly in the HYTING heat generator. ebm-papst plans to manufacture the HYTING heat generators at its state-of-the-art production facilities.

“We are thrilled and proud to partner with ebm-papst,” says Tim Hannig, Founder and Managing Director of HYTING. “ebm-papst’s knowledge, skillset, experience and infrastructure massively accelerate and de-risk our time to market.”

“We see great potential in HYTING's innovative technology and are therefore pleased to partner with HYTING in a joint R&D collaboration. This is in line with our multi-technology approach in heating technology,” explains Dr. Hannes Säubert, CEO of Heating Technology at ebm-papst.

Captions

Image 1 Handshake: Dr. Hannes Säubert and Tim Hannig seal the collaboration with a handshake

Image 2 Signing: Son Nguyen (Co-Founder HYTING), Tim Hannig, Dr. Hannes Säubert and Hans-Joachim Klink (Vice President R&D Heating Technology at ebm-papst) sign the joint partnership agreement

Image 3 Prototype: The prototype of the heat generator

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About HYTING

HYTING is a heating technology company founded in 2021 with the aim to deliver carbon-free heating fuelled by hydrogen: no CO₂, NO_x, or particulates. It has developed a forced-air heating system (patents-pending) that utilises a molecular, exothermic catalytic reaction to turn a mixture of hydrogen and oxygen from the air into heat – the only by-product is water. 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 building heating systems in industrial and commercial settings, for process heat of up to 300°C and in the automotive sector for applications such as parking heaters. The company is scaling quickly from prototype to series production, with the first customer trials beginning early 2025. HYTING is based in Wiesbaden, Germany, and is run by a leadership team with decades of experience in the engineering sector.

About ebm-papst

The ebm-papst Group, a family-run company headquartered in Mulfingen, Germany, is the world's leading manufacturer of fans and motors. Since it was founded in 1963, the technological leader has set international industry standards with its core competencies in motor technology, electronics, digitalization, and aerodynamics.

ebm-papst offers sustainable, intelligent, and tailor-made solutions for virtually every requirement in ventilation and heating technology. ebm-papst sets the benchmark in almost all sectors, such as ventilation, air conditioning and refrigeration technology, heating technology, information technology, mechanical engineering, intralogistics, and medical technology. In the 2023/24 financial year, the Group generated a turnover of EUR 2.408 billion. It employs just nearly 14,000 people at 30 production sites including in Germany, China, and the US, as well as 50 sales offices worldwide.

Landshut is part of the ebm-papst Group as the headquarters of the global heating technology division. This division covers all heat generation and distribution applications, regardless of the energy source – be it natural gas, green gases, electricity, or biomass. ebm-papst Landshut is also working on future-oriented system solutions in the heat pump and distribution fields, as well as on the relevant electronics.