HYTING's hydrogen-to-heat technology successfully completes 2,500-hour durability testing milestone

- HYTING has proven the exceptional reliability of its hydrogen heat generator by successfully passing 2,500 hours of durability testing conducted by one of the world's leading engineering service providers
- The test simulated the thermal loading imposed by 10 years of normal operation, and was completed without any problems or failures, or any wear to safety-critical components
- The flameless catalytic heating process produces no CO_2, NOx, or particulate matter emissions, which was confirmed by continuous measurement throughout the test
- This is the latest milestone in HYTING's commercialisation of its unique technology, which will play a vital role in the decarbonisation of space heating for buildings, process heat and mobility heating
- For further information please visit hyting.com

9 October 2025 Wiesbaden, Germany – Hydrogen heating technology company HYTING has successfully completed a 2,500-hour durability test programme on its 10kW heat generator – the HG10. Testing began in January this year and finished in July: the 2,500 hours of operation logged in the laboratory during this period represents 10-years of heating in real-world use.

No problems or failures occurred during the test programme, and subsequent stripdown and inspection of the unit showed no significant wear on any components, and none at all on any safety-critical parts. The HG10's proprietary flameless, catalytic process efficiently generates heat with no CO_2, NOx or particulate matter emissions, and this was validated by continuous measurement of exhaust gas quality.

Tim Hannig, Founder and Managing Director HYTING, said: "*The results of these third-party durability tests demonstrate the inherently long life and low maintenance requirements we've designed into our hydrogen heat generators. As well as proving their exceptional reliability, they've also proven their emissions-free capability, and that's why we believe that our hydrogen technology can play a major role in helping to decarbonise the heating sector*."

The HYTING HG10 is part of the firm's modular range spanning 10 - 50kW ratings per unit (a 150kW unit is planned for 2026). These are ideal for space heating of industrial and commercial buildings - especially for peak heating, and are equally well-suited for industrial process heating of up to 300°C, as well as mobility heating.

The 2,500-hour durability testing is latest key milestone in HYTING's industrialisation roadmap and follows the establishment of a strategic development partnership with ebm-papst, a manufacturing partnership with Kampmann, securing a first customer – Flusys, and achieving Gas Appliance Regulation (GAR) certification, which means the heat generators are fully certified for field test operation in the European market.

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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_2, no CO, NOx, no VOCs, no particulates) – the only by-product is water in form of air humidity. This flameless oxidation process is at the heart of HYYTING'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 trials beginning by the end of 2025. 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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