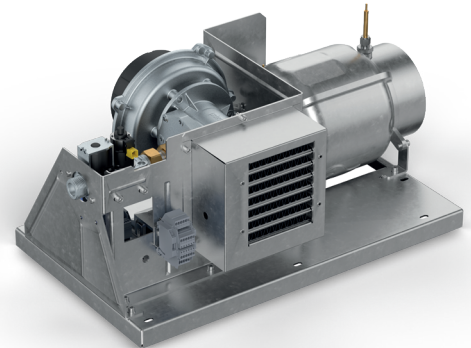


HYDROGEN TO HEAT: CO₂-Free and Economical: Difficult made easy!

CO₂-free, hydrogen-powered heat solutions

HYTING offers simple, safe, efficient, and clean heat applications fueled by hydrogen. Our patent-pending technology uses a specially developed catalyst in which hydrogen reacts flamelessly with oxygen from the air to release heat. The process is radically simplified, with no flame at any point of operation, ensuring maximum safety. The system achieves an energy conversion efficiency of up to 114% of hydrogen's net calorific value: 1 kg of hydrogen produces approximately 37.8 kWh of thermal energy. The heating process produces zero emissions — no CO₂, no carbon monoxide (CO), no nitrogen oxides (NO_x), no VOCs, and no particulate matter.



HYTING heat generator - 10kW
Dimensions: 55cm x 30cm x 25cm

Emission-free Heat – even where it's difficult

Space Heating - Peak Load Coverage

HYTING handles the heat peaks that drive costs. As part of a hybrid system, HYTING covers peak heat demand while the base system — heat pump, waste heat, or other source — provides the base load.

Benefits:

- **Lower CAPEX:** Right-size the heat pump for base load, not for worst-case winter days
- **Lower OPEX:** Eliminate demand charge spikes — grid connection costs are set by the single highest annual draw. HYTING removes that peak from the equation. Additionally, the base system runs continuously at its efficient operating point.

Process Heat up to 300°C

Clean, flameless hot air at up to 300°C — for industrial processes where heat pumps fall short and combustion is no longer acceptable.

Benefits:

- **Eliminate Scope 1 emissions:** Zero CO₂, zero NO_x, zero particulates
- **Better end products:** No combustion byproducts in the airstream
- **Energy resilience:** Reduce dependence on energy grids and fossil fuel price volatility



New Installation or Retrofit

- For both, process heat applications or space heating installations

World-leading Efficiency

- Up to 114% efficiency* — the most efficient emission-free hot-air system available

Proven, Certified, and Ready to Deploy

- GAR (Gas Application Regulation) certified
- Available for immediate implementation
- Validated in a 2,500-hour durability test — simulating 10 years of real-world operation
- Inherently safe: no flammable hydrogen concentrations at any operating point

Contact: Discover how HYTING can support your company in achieving efficient, CO₂-free heat through hydrogen. Get in touch with us at: sales@hyting.com