

HEATING WITH 100% HYDROGEN

CO₂-FREE AND ECONOMICAL. **DIFFICULT MADE EASY.**

**CO₂-free
Peak Shaving!**
Talk to us for a
hybrid solution with
heat pumps



Strong partners

Engineered by
HYTING

Powered by
ebmpapst

Integrated by
HAMPMANN

Certified by
kiwa

The World's First CO₂-free Air Heating System Fueled by Hydrogen

simple. safe. efficient. clean.

HYTING Revolutionizes Hydrogen Heating

For the first time, a certified air heating system fueled by hydrogen is available – offering numerous advantages:

- ✓ **CAPEX Savings:** Up to 75% lower investment costs
- ✓ **Maximum Efficiency:** Optimal utilization of hydrogen energy
- ✓ **Fast Retrofitting:** No downtime, no reconstruction
- ✓ **Peak Shaving:** Can be combined with heat pumps, covers peak loads
- ✓ **Maximum Safety:** No flammable hydrogen concentrations, fully certified
- ✓ **0% Emissions, 100% Clean Heat**

Rethinking Heating with Hydrogen

Radical simplification of the thermal utilization of hydrogen.

HYTING Technology

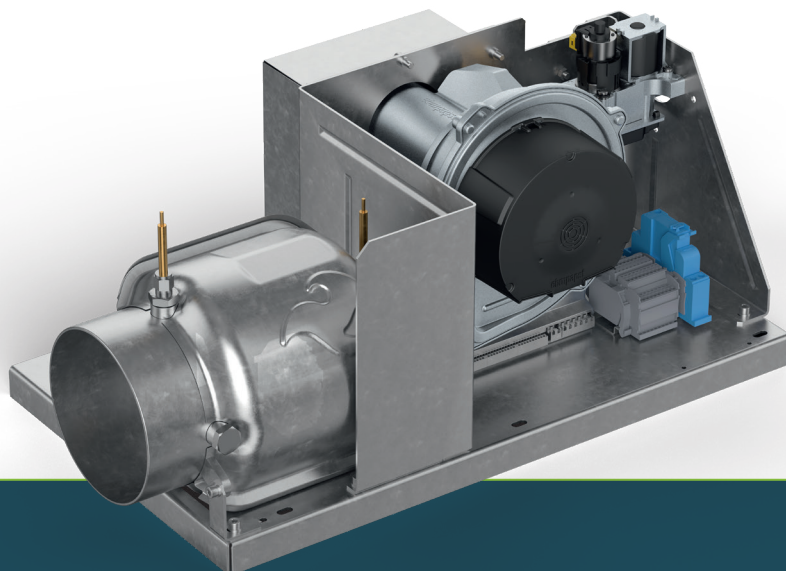
Our patent-pending technology uses a specially developed catalyst in which hydrogen reacts with oxygen from the air, releasing heat in the process.

- **Maximum Safety:** The system never operates with flammable hydrogen concentrations
- **Highest Efficiency:** The intelligent technical design achieves a thermal efficiency of 114% of hydrogen's net calorific value
- **Zero Emissions:** No CO₂, CO, NOx or particulate matter

HYTING Heat Generator

Our heat generator is the heart of our heating systems, where our innovative hydrogen technology is fully implemented.

- **Powerful:** Provides heating capacities from 10 to 50 kW, scalable for higher requirements
- **Robust:** Operates reliably even with low-purity hydrogen (Grade A), no drying required
- **Reliable:** Built with field-tested and volume-proven components
- **Collaboration with Strong Partners:** Developed and manufactured in partnership with ebm-papst
- **Certified Safety:** GAR-certified



HYTING heat generator 10 kW

HYTING AirSYS Product Family

Hydrogen-fueled air heating systems with an integrated HYTING heat generator.

- 🔥 **Peak Load Management:** Hybrid operation with heat pumps
- 🔥 **Zero Emissions:** No CO₂, CO, NOx, or particulate matter
- 🔥 **Scalable:** 10 kW or 50 kW nominal heating capacity, expandable for higher heating demands
- 🔥 **High Modulation Range:** 1:10
- 🔥 **Collaboration with Leading Partners:** Developed, manufactured and integrated in collaboration with ebm-papst and Kampmann
- 🔥 **Certified:** Approved for field operation

AirSYS RTU

Compact rooftop unit with an integrated HYTING heat generator.

The simple solution for industrial and commercial buildings with basic ventilation needs.

ADVANTAGES:

- 🔥 **Plug & Play:** Easy setup and installation, requires only minimal coordination with other trades
- 🔥 **Compact Functionality:** Ventilation, heating, and optional free cooling in one unit
- 🔥 **Flexible:** Usable as zone heating or for the entire building
- 🔥 **CAPEX Savings:** No additional ventilation infrastructure required
- 🔥 **Hybrid:** Can be combined with heat pump for peak shaving

Ideal for: Future-proof heating for new buildings or smart replacement for fossil-fueled systems.



AirSYS Cube

Hydrogen heat register with HYTING technology.
The smart retrofit solution for existing HVAC systems.

ADVANTAGES:

- 🔥 **Minimal Investment Costs:** Continue using existing ventilation infrastructure
- 🔥 **Easy Retrofitting:** Installation without operational downtime
- 🔥 **Hybrid:** Can be combined with heat pump for peak shaving

Ideal for: Add-on for existing HVAC systems.



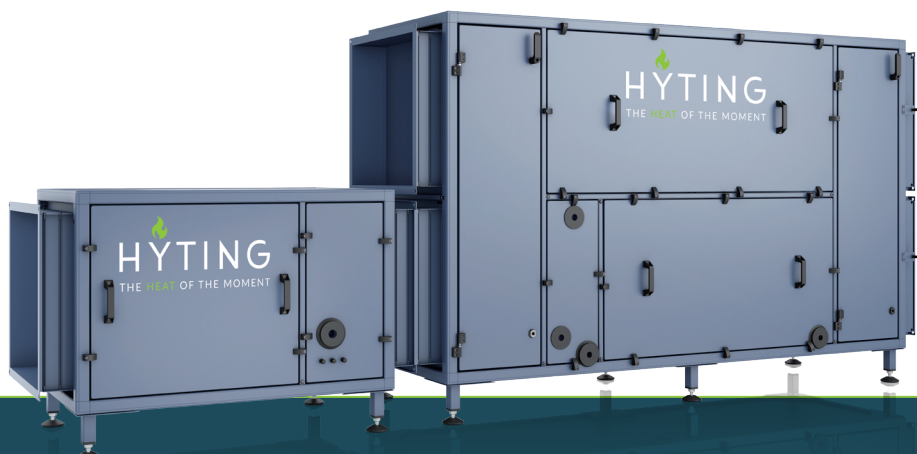
AirSYS Combi

AHU with HYTING hydrogen heat register.
The solution for demanding environments.

ADVANTAGES:

- 🔥 **Plug & Play:** Can use existing ventilation infrastructure
- 🔥 **Customized Solutions:** Special options like waste heat utilization available
- 🔥 **Hybrid:** Can be combined with heat pump for peak shaving

Ideal for: Future-proof heating for new buildings or smart replacement for fossil-fueled systems.



Full Heating, Peak Load Management, or Backup Solution

Reliable heat, whenever and wherever needed.

- 🔥 **Full Heating:** Fast heat-up times, consistent and efficient heat output – independent of outdoor temperatures. Ideal for buildings with high energy demands or difficult to renovate sustainably.
- 🔥 **Peak Load Management:** The perfect complement to heat pumps, CHP systems, or waste heat utilization – covering peak loads for maximum operating cost efficiency with minimal investment costs.
- 🔥 **Back-up Solution:** Reliable back-up heating for applications where constant heat is essential – for example in greenhouses or logistics for temperature-sensitive goods. Always ready for use thanks to minimal standby costs.

Innovating Heating Solutions for Buildings, Industry, and Mobility

HYTING brings CO₂-free heating to a wide range of applications.

- 🔥 **Building Heating:** CO₂-free heat supply for commercial, logistics, and industrial buildings.
 - Air Heating: available now
 - Hydronic Heating: planned for 2026
- 🔥 **Process Heat:** Clean process heat for industrial applications – from food production to paint shops and metal processing. Flexible integration into existing processes.
 - planned for 2026
- 🔥 **Heating Solutions for Mobility:** Efficient auxiliary heaters for hydrogen and battery-electric vehicles. Maximum battery efficiency even in winter operation, consistent CO₂ reduction, and low system costs.
 - planned for 2026