



HHG Series – Compact catalytic hydrogen generation

Metacon's HHG Series provides reliable on-site hydrogen production from feedstocks such as biogas, natural gas, LPG, propane, methanol, and ammonia. By producing hydrogen close to the point of use, customers can reduce dependence on grid capacity, transported hydrogen and volatile electricity prices.

Compact and modular, the HHG systems support flexible placement and deliver a stable hydrogen supply with predictable and cost-efficient production.

Patented HIWAR® reactor technology

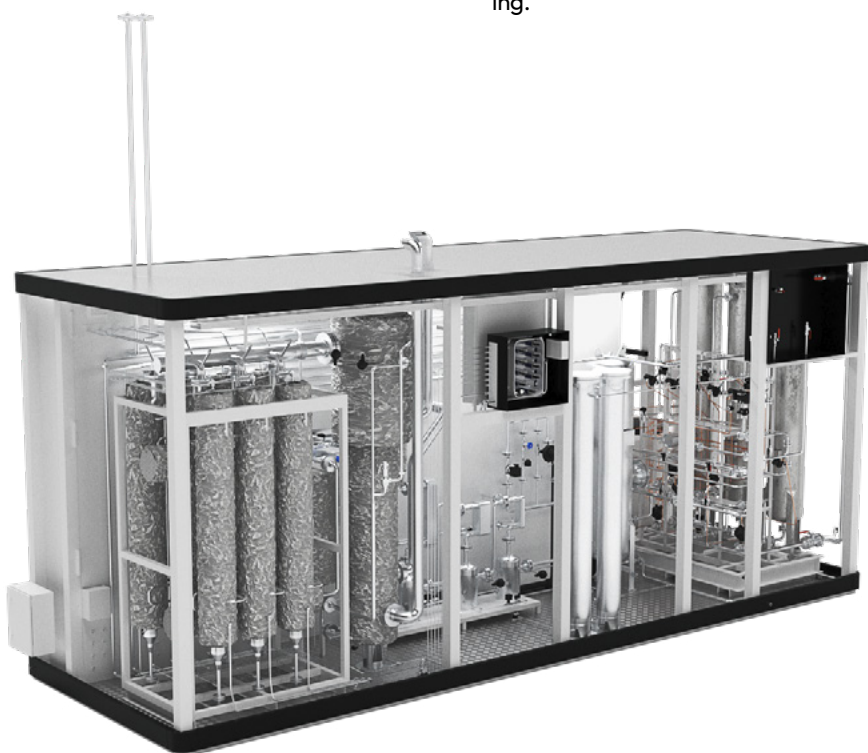
Metacon's patented Heat Integrated Wall Reactor enables efficient steam reforming by generating process heat close to where reforming takes place.

Multi-feedstock input flexibility

Turns locally available feedstocks into high-purity hydrogen, including waste-derived biogas, biomethane, natural gas, LPG, and propane. Configurable for methanol reforming or ammonia cracking.

Complete integrated and automated system

Delivered as a complete hydrogen production unit including gas pretreatment, reforming, PSA purification, control system and automation for efficient operation.



High-purity hydrogen output

Integrated multi-bed PSA purification separates impurities from the reformat gas stream to produce high-purity hydrogen.

The system is designed for continuous operation, with typical hydrogen recovery rates depending on feedstock composition, operating pressure and required purity.

Decentralized hydrogen production

On-site hydrogen production where feedstock is available, without dependence on large-scale electricity infrastructure.

Typical applications for the HHG units

Suitable for industrial hydrogen use, mobility, synthetic fuels and decentralized power applications where reliable on-site hydrogen supply is needed.

Containerised and mobile configuration

Containerised systems can be relocated between sites, enabling leasing models and other flexible financing solutions.



Turn your feedstock to high-purity hydrogen

Metacon's HHG reformer systems produce hydrogen on-site from hydrocarbon feedstocks or ammonia. Built around compact patented steam reforming technology with integrated gas treatment, it delivers stable hydrogen supply independent of grid constraints. The modular design enables capacity ranging from farms or biogas plants to larger distributed production setups.

PARAMETER	SPECIFICATION
Technology	Patented catalytic steam reforming
Available models	HHG 50 Custom
Hydrogen output	50 Nm ³ /h or custom output
Compatible fuels	Biogas, biomethane, natural gas, LPG, or propane. Units optimized for ammonia or methanol are an option.
Output pressure	9 bar(a) before compression
Hydrogen purity	Up to 99.999 vol.% (with PSA)
Reforming process	Catalytic steam reforming via HIWAR technology
Structural Design & Configuration	Containerized or skid-mounted, indoor or outdoor
Carbon capture	CO ₂ concentrated and accessible for CCS integration
Operation	Designed for continuous, autonomous operations
Patents	4 international and European patents
Compliance	CE marking, European manufacturing standards

Engineering and delivery

Metacon provides a complete hydrogen production solution, from process design to commissioning. The reforming system is configured according to feedstock, hydrogen quality requirements, and site conditions, integrating process equipment, purification, automation, and safety systems. Metacon acts as a single point of contact throughout engineering, implementation, and start-up, with project scope defined individually for each installation.

Long-term service agreements

Metacon offers long-term service agreements covering scheduled maintenance, performance monitoring, spare parts management, and technical support. The service program is designed to maintain plant availability, hydrogen quality, and process efficiency throughout the system lifetime. Support can include condition assessments, catalyst replacement planning, operational optimization, and access to Metacon's engineering and service organization.

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Metacon is a Swedish hydrogen technology company listed on Nasdaq First North (META). We design, deliver, and service electrolysis and reforming systems for industrial hydrogen production across Europe and beyond.