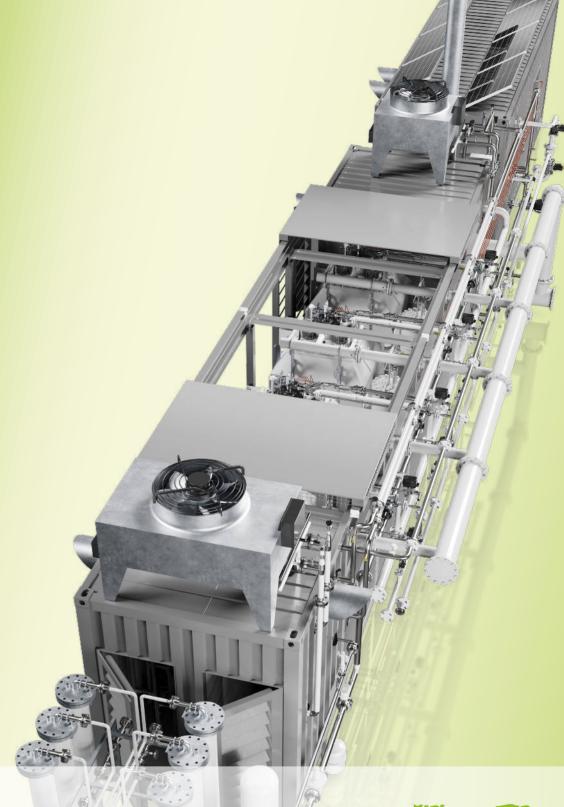


BTH400





PROJECT DEVELOPMENT

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Green Hydrogen 24/7 BTH 400

Turnkey Plants producing Hydrogen from Biogas



Future Biogas Imagine producing climate-neutral

or even climate-positive fuel.

Imagine supplying green hydrogen from water and organic waste, day and night.

Imagine running your fleets on green fuel from local production at competitive cost.

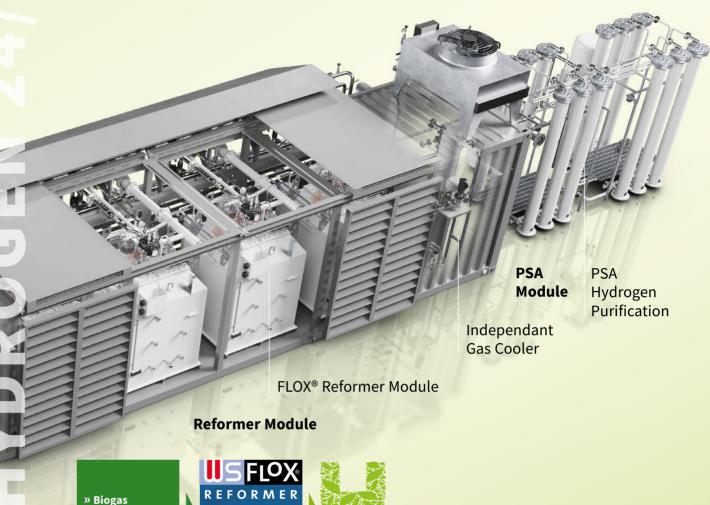
FEATURES

Control

- Flexibility in feedstock (50% 100% methane in biogas)
- Hydrogen capacity designed for a standard 400 kW biogas plant
- Containerised turnkey solution, tested by the manufacturer, engineered for road transport

Media Supply Module

- Industrially proven FLOX® reformer



STANDARD SOLUTIONS | TYPICAL VALUES

» Biomethane

	BTH 200	BTH 400
Hydrogen Capacity	200 kg/day @ 10 bar	400 kg/day @ 10 bar
Biogas Input	100 Nm ³ /h @200 mbar (500 kW)	200 Nm ³ /h @200 mbar (1.000 kW)
Water Consumption	50 l/h	100 l/h
Thermal Output	120 kW@80°C	240 kW@80°C
Electricity Consumption	2-3 kWh/kg H ₂	2-3 kWh/kg H ₂
Footprint	40' Container 25' Container PSA Skid	40' Container 25' Container PSA Skid

OPTIONS

- Heat export to customer's heating cycle
- Biogas pre-treatment
- Operation with biomethane
- Hydrogen compression and intermediate storage
- »Stand-alone« reformer module
- CO₂ capture



Biogas

Water Treatment System

Compressor



SEN GEN

New Business Models Bio-Hydrogen

Upgrade your biogas.

nd CO2 from manure, slurry, residues from

I, it is simply flared off in

Develop markets and fair partnerships.

and public organisations e.g. local authorities or regional ssociations.

Produce green hydrogen 24/7.

Steam reformers (SMR) are a proven technology for generating hydrogen from classes. In the FLOX® Reformer Module, we have adapted the SMR process for the utilisation of raw biogas using special

CO₂ in the biogas. In engineering, our focus is on a plant concept that recognises the special challenges in an agricultural environment.

Prepare yourself: Green Carbon is the product of the future.

Who is best at capturing CO₂ from the air? It is the plants on your land that have been plant is an additional and feasible option. In this sense, we are opening up the field for climate-positive fuel and the sale of

We offer the product for new business models with green hydrogen along the entire value chain.

Today, a local hydrogen economy can already be created in decentralised clusters. Bio-hydrogen therefore has an associated pioneering role in the long-term development

of a nationwide pipeline infrastructure.

This contributes to the resilience of the energy system and strengthens the regional economy, particularly in rural areas.

Deliver CO₂-neutral or CO2-negative fuel.

Hydrogen fuelling stations: Depending on the specific project and application, a defined interface for this within the

Operate the business model of your choice.

Regardless of whether you want to sell or as a fuel. You produce »green hydroged and demand is rising.

Our plants are modularly scalable from 100 kg/day units up to 400 kg/day Higher requirements can be covered by simply multiplying the BTH400. The table shows exemplary use cases.

	The BTH400 produces hydrogen for:
Individual traffic (200 km/day&vehicle)	appr. 200 vehicles
Public transportation (300 km/day&vehicle)	appr. 20 urban buses
Trailer filling	appr. 140 tons/year
Agricultural	Internal

GREEN HYDROGEN 24/7 7

