



- Fits 50 Nm³/h hydrogen plant
- Fits standard container
- Fits PSA requirements
- Meets high efficiency standards

WS FLOX[®] M50

REFORMER

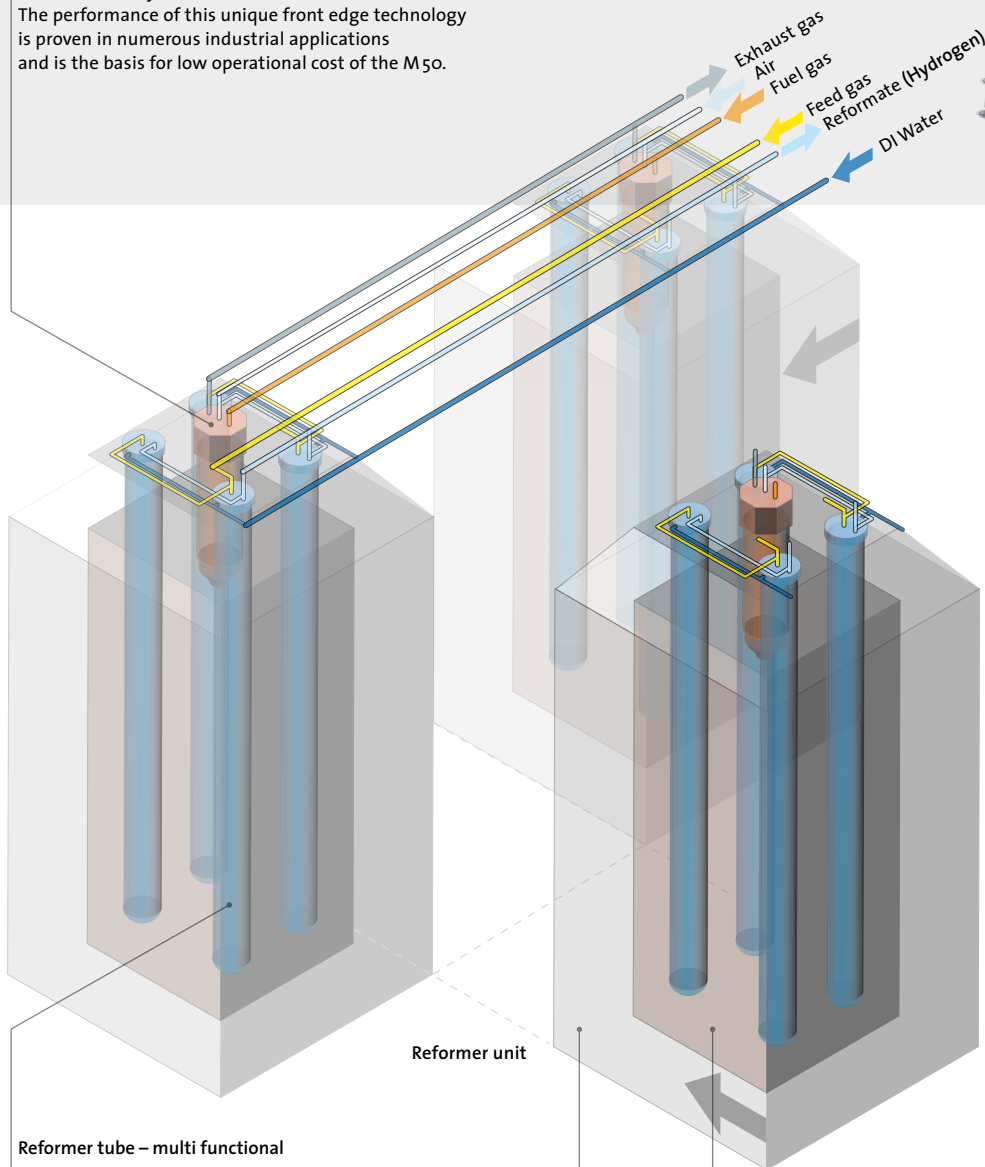
Smart solutions for »on-site« hydrogen

The FLOX[®] Reformer Modular M50 aims to the market of decentralized hydrogen production. Namely for industrial process gas in metal heat treatment and chip or solar cell manufacturing. Hydrogen fueling stations for fuel cell vehicles represent the exciting future market for the M50, which might supply hydrogen for 30 vehicles per day.

The special design combines proven industrial FLOX[®] Burners, state-of-the-art reforming technology with unique and patented integration of functions as well as customization to common hydrogen purification technology.

FLOX® Burner WS REKUMAT® s – maximized efficiency

WS REKUMAT® s FLOX® Burners stand for maximized burner efficiency and ultra low NO_x emissions. The performance of this unique front edge technology is proven in numerous industrial applications and is the basis for low operational cost of the M50.

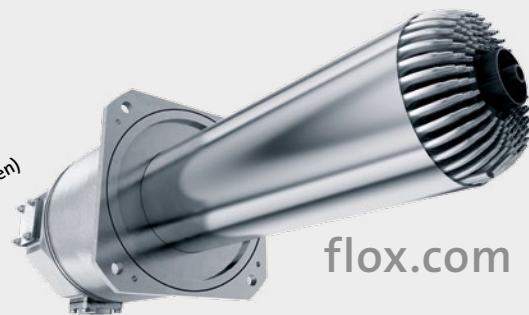


Reformer tube – multi functional

The bajonette-type reformer tubes are designed for pressurized operation and comprise all functions of the reforming process: steam generation, feed mixing, preheating, reforming and reformate cooling in one unit.

Insulation

Combustion chamber



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TECHNICAL DATA*	
BASIC DESIGN	
Feed gas	Natural gas, LPG, Biogas
Hydrogen capacity	64 Nm ³ /h
Footprint	1,600 x 1,600 mm
Height	2,565 mm
Efficiency*	70 - 75%
Start time (cold iron)	2 h

REFORMING	
Pressure	< 18 bar
Steam / Carbon (S/C)	3 - 4
Feed gas	20 Nm ³ /h (< 1 ppm S)
Water	max. 65 l/h (DI, < 1 µS)
Product composition	75% Hydrogen, 13% CO, 9% CO ₂ , < 3% CH ₄ , dew point 65 - 75°C
Product temperature	< 300°C

HEATING	
Type	Indirect, FLOX®
Burner	WS REKUMAT® s
Air fuel ratio	1.2
NO _x	< 100 ppm @ 5% O ₂

* All technical data without obligation.
Status quo 07/2015.
Data is subject to change due to our continuous improvement efforts.

** Based on lower heating value: $LHV_{\text{Reformate}} / LHV_{\text{Feed+Fuel}}$



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REFORMER