

CHG3- Product Specifications*

Hydrogen on demand: When you need it, where you need it!

Our product line up includes containerized solutions for hassle-free hydrogen generation in both local and remote areas. 20 feet and 40 feet container solutions are available to closely match your power requirements. These solutions are scalable up to MW level scale.

For more information, please contact with info@methanolreformer.es



STRONG POINTS:

- ⚡ No harmful gas emissions (**No NOx, SOx, PMs**)
- ⚡ **Grid independent**
- ⚡ High purity (>**99.97%**) H₂ production
- ⚡ Low CO₂ emissions (-28% vs diesel) and **carbon neutral** with green methanol
- ⚡ **Low CAPEX / OPEX**
- ⚡ **Scalable** for expanded H₂ deployments
- ⚡ **Plug&Play**
- ⚡ **24/7** Run Times; no operator needed
- ⚡ Limited Power Requirements (2kW)
- ⚡ Reduced Noise and Pollution
- ⚡ **Low** level of maintenance
- ⚡ Fast implementation
- ⚡ Able to use **existing fuel deposits**

CROSS-SECTORIAL APPLICATIONS:

- ⚡ Mining / Construction
- ⚡ Ports / Airports
- ⚡ Industrial
- ⚡ On-board
- ⚡ Service Stations
- ⚡ Warehouse / Logistics
- ⚡ Data Center
- ⚡ Off-grid

Website: www.methanolreformer.com

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CHG3. Hydrogen Generator Product Specifications*

Models		CHG3-L/M18-20
Certification		CE & ATEX Certifications of components inside the container
Performance	Hydrogen Generation Outlet Pressure	29.4 kg/hr - 705 kg/day 5,400 sLm 1.7 bar (a)
Electricity Consumption Including control & safety devices	Power Requirement Cold startup Mode Hot stand by H ₂ production mode	200-240 VAC ≈ 30 kW ≈ 17 kW ≈ 13 kW
Feedstock Consumption	Methanol 62.5+/- 0.5 wt% with balance DI water	396 L/h, 6.6 L/min
Efficiency	Efficiency at Stead State Optimal	> 80%
Hydrogen Quality	H ₂	>99.97 %
Physical Characteristics	Format Dimensions (LxWxH) Weight	20 ft container 6.10 x 2.44 x 2.59 m ≈ 9.500 kg
Control and Communication		Siemens, Ethernet
Exhaust pollutants**	CO NO _x SO _x	<300ppmW 0 ppmW 0 ppmW
CO ₂ emissions		309 kg/h
Refurbish		≈ 20,000 h
Ambient conditions		5 °C to 45 °C
Startup time	From Ambient Temperature	12 hrs. depending on system power conditions & ambient temp.
	From Hot Standby	<5 min to H ₂ production; <30 min to rated H ₂ production

*Specifications subject to change

** CO₂ not included

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