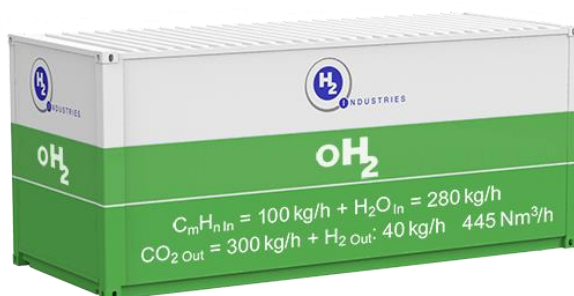


oH₂ – PLASTIC WASTE TO HYDROGEN



*Nm³ refers to Standard Reference Atmosphere acc. DIN 1945-1 (p = 1,0 bar and t = 20°C)
Data related to average calculated performance data

PRODUCT DESCRIPTION:

The oH₂ product range from H₂-Industries is designed to process large quantities of organic residual and waste materials. These include, for example, plastic waste as well as biogenic residues (hydrocarbons (C_mH_n)) from agriculture and forestry and waste from the food industry as well as sewage sludge. By means of the integrated thermolysis plant, hydrogen is generated in a controlled manner from these waste materials, which is then fed directly to the downstream hydrogen-consuming processes. The plant is installed in 20-foot standard containers.

Thanks to their modular design, the plants are cascadable and can thus contribute, for example, to CO₂ reduction in large emitters such as the steel, chemical or glass industries or coal power plants can be refit to hydrogen power plants. Waste thus no longer becomes a problem, but a valuable solution for climate-friendly large-scale industry and energy supply, since the CO₂ released in the thermolysis process is captured and not released into the atmosphere.

This opens up new market opportunities as a producer for a CO₂-free hydrogen supply.

GENERAL INFORMATION:

Dimensions in mm (LxWxH)	6,058 x 2,438 x 2,591 mm
Weight	ca. 20,000 kg

INPUT PARAMETERS:

Organic Waste (C _m H _n)	ca. 100 kg / h
Water	ca. 280 l / h

OUTPUT PARAMETERS:

CO ₂ captured in bottles	ca. 300 kg / h
H ₂ Output / h	ca. 40 kg / h equals ca. 445 Nm ³ / h

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Data related to average calculated performance data