Indoor & Outdoor Hy Pro®

Green Hydrogen for Power & Hearing applications

Do you want to convert surplus electricity, from a wind or PV plant into green hydrogen for applications such as power or heating? We have customized solutions based Indoor or Outdoor HyPro® with optional fuel cell compressors and storage.

MBR's Indoor HyPro®, a plug and play solution for small and medium sized H2 demands. It integrates up to five Enapter Electrolysers 4.1, Water Tank module and Dryer (for applications that require 99.999 % purity).

Each Enapter Electrolyser 4.0 is capable of producing up to 0.5 Nm^3/h. The output volume of each Electrolyser can be set between 60 % and 100 %. The Indoor HydroCab combines up to 5 modules to a single plug and play cabinet supporting up to 2.5 Nm^3/h or 5 kg per day. The solution is available in indoor and outdoor cabinets. The system comes with a cloud based management system, and can be controlled from your laptop or phone

IP rating:	IP20 indoor cabinet
Cabinet dimensions	W × D × H in mm = 800 × 1000 × 1900
Cabinet weight	(empty)**:** 180 kg to up to 520kg when fully loaded
Operative temp. range	5 – 40 °C
Operative humidity range	20 – 95 %, non-condensing
H2 Production rate	500 Nl/h to 2.500 Nl/h (500l/h per module)
H2 Output Pressure	Up to 35 barg (Up to 507.63 psig)
H2 output purity	99.9% (< 1,000 ppm H_2O and < 5 ppm O_2) at 25 °C (77 °F)
H2 purity with dryer	> 99.999%
Power consumption	4.8 kWh/Nm^3, beginning of life
Voltage	208 – 240 V (AC), 50/60 Hz, both split phase and 3-phase
Frequency	50/60 Hz
Water consumption	of 0.42 to 2.1 l/h DI water (0.42 l/h per module)
H_2O inlet quality	Minimum ASTM D1193-06 Type IV
IP rating	IP20 Indoor Cabinet

Do you need a bigger system? No problem, the system is scalable, ask us for a customized solution.

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Single Cabinet Based Systems, 1 kg / 5kg a Day

Package
"Starter Kit"
1kg/day"
Indoor Cab, 1x EL
Watertank, Dryer,
WPS

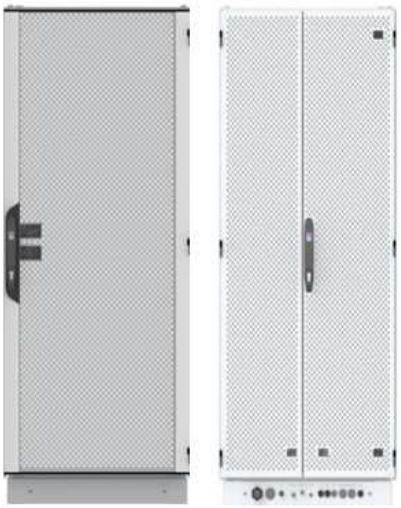
Package
"Starter Kit Plus"
2kg/day"
Indoor Cab, 2x EL
Watertank, Dryer,
WPS

Package
"Scale Up Kit"
3kg/day"
Indoor Cab, 4x EL
Watertank, Dryer,
WPS

Package
"Mega Kit"
4kg/day"
Indoor Cab, 5x EL
Watertank, Dryer,
WPS

Package
"Scale Max Kit"
5kg/day"
Indoor Cab, 5x EL
Watertank, Dryer,
WPS

Cabinet variants Indoor or Outdoor



Cooling: Airflow for stack cooling is blown for each module individually from front to back. Optional water cooling available.
Location of connections and piping: All piping and electrical connections are located in the front of the machine. Power, water and hydrogen connections are located at the bottom of the back of the cabinet.
Filters: No filters needed.
Optional: Optional Gateway computer, Fuel Cell integration possible