

ecolyzer
by EcoClean

Your Path to a Sustainable Future

Alkaline Electrolysers

A300 | A600 | P200 | P400



Alkaline Electrolysers for the Production of Green Hydrogen

Efficient, Durable and Sustainable: the EcoLyzer Model Series

- The alkaline electrolysis process has been used for decades for cost-effective, reliable H₂ generation. Information on the service life of the most important components is based on reliable experience. Our customers appreciate the high level of operational reliability, the low maintenance requirements and the low maintenance costs.
- The use of rare earths or precious metals is completely excluded with our alkaline electrolyser. In this way we are helping the environment in the long term, guaranteeing lasting security of supply at national level and ensure that the stacks can be recycled in an environmentally friendly manner at the end of their lifetime.
- Due to the scalability and the modular design of our electrolysers, systems in the range of 1-20 MW system output can be easily configured or subsequently expanded. On request, we can also supply the appropriate voltage supply, water treatment, gas cleaning and / or compression.
- Our service ensures that your electrolyser produces hydrogen permanently and reliably. To this end, we offer our customers a worldwide service that can be reached at any time via our remote service or that regularly carries out professional maintenance on site.

Technical Data

ECOLYZER	A300	A600	P200	P400
Electrolysis process	AEL	AEL	AEL	AEL
Performance class	1.5 MW	3 MW	1 MW	2 MW
Energy connection electrolysis	1.35 MVA	2.7 MVA	0.96 MVA	1.92 MVA
Voltage electrolysis	10 kV	10 kV	10 kV	10 kV
Power connection for ancillaries (*)	0.16 MVA	0.33 MVA	0.14 MVA	0.28 MVA
Voltage auxiliary units	400 V	400 V	400 V	400 V
Hydrogen production	300 Nm ³ /h	600 Nm ³ /h	200 Nm ³ /h	400 Nm ³ /h
Dynamics in the H ₂ production area	20 - 100 %	10 - 100 %	30 - 100 %	15 - 100 %
Hydrogen quality	99.9%	99.9%	99.5%	99.5%
Hydrogen outlet pressure	0.4 bar	0.4 bar	30 bar	30 bar
Process temperature KOH	80 - 90 °C	80 - 90 °C	80 - 90 °C	80 - 90 °C
Possibility of heat extraction	yes	yes	yes	yes
Water quality	Demin. Water (< 5 µs/cm)	Demin. Water (< 5 µs/cm)	Demin. Water (< 5 µs/cm)	Demin. Water (< 5 µs/cm)
Water consumption	approx. 300 l/h	approx. 600 l/h	approx. 175 l/h	approx. 350 l/h
Process module dimensions (**) LxWxH	12.2 x 2.45 x 2.9m (Container 40 ft)	12.2 x 2.45 x 2.9m (Container 40 ft)	6.1 x 2.9 x 2.9m	12.2 x 2.9 x 2.9m
Ambient temperature(***)	-20°C - 40 °C	-20°C - 40 °C	-20°C - 40 °C	-20°C - 40 °C
Lifetime stack	80.000 h	80.000 h	80.000 h	80.000 h
Efficiency stack	4.5 kWh/Nm ³	4.5 kWh/Nm ³	4.8 kWh/Nm ³	4.8 kWh/Nm ³

(*) including cooling | (**) Outdoor module, additional options not included | (***) with optional heating system, standard +5 - 40 °C



Learn more:
EcoLyzer in animation

www.ecolyzer.com

Ecoclean GmbH
Hans-Georg-Weiss-Strasse 10
52156 Monschau
Germany

Phone: +49 (0) 2472 83-0
E-Mail: info@ecolyzer.com

Follow us: [ecolyzer](https://www.linkedin.com/company/ecolyzer)

ecolyzer
by Ecoclean