

Electrolyser LC 2.1 (EL 2.1 LC)



Powered by Enapter



Electrolyser 2.1 LC: The liquid cooled version of Enapter's patented anion exchange membrane (AEM) electrolyser is a standardized, stackable and flexible system to produce on-site hydrogen. The modular design – paired with advanced software integration - allows set up in minutes and remote control and management. Stack this electrolyser to achieve the required hydrogen production rate. Use waste heat from the system to increase your efficiency.

KEY FEATURES

- ≡ High efficiency
- ≡ Automated & remote operation with Enapter's Energy Management System
- ≡ Low requirements for input water purity
- ≡ Ideal for on-site hydrogen production
- ≡ Modules can be easily integrated in 19" racks
- ≡ Safe operation
- ≡ Scalable and modular, add as many modules as needed
- ≡ Quick and easy installation
- ≡ Low maintenance requirements
- ≡ Usage of waste heat possible

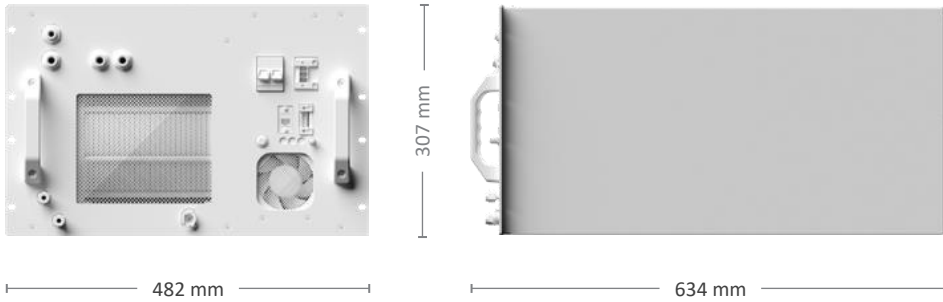
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This is a design data sheet, changes to the technical parameters are protected.



Specifications

Electrolyser EL 2.1 LC



Hydrogen production rate	500 NI/h 1.0785 kg / 24 h
Hydrogen output purity	~ 99.9% (Impurities: ~ 1000 ppm H ₂ O)
Output pressure	Up to 35 barg
Nominal power consumption per Nm³ of H₂ produced	4.8 kWh/Nm ³ (beginning of lifetime)
Water consumption	~ 0.4 l/h
Maximum water input conductivity	20 µS/cm at 25 °C
Water input pressure range	1 - 4 barg
Recommended cooling water flow	Range: 0.5 l/min at max. 30 °C inlet temperature to 7 l/min at max. 46 °C inlet temperature (beginning of life), tap-water quality
Max. input pressure for cooling water	7 bar
Waste heat recovery	Up to 490 W (beginning of life, depending on cooling water inlet temperature and flow rate)
Operative power consumption	2.4 kW
Stand-by power consumption	15 W
Power supply	AC 200-240 V, 50/60 Hz
Ambient operative temperature range	5 – 50 °C
Ambient operative humidity range	Max 95 % Rh, non-condensing
IP rating	IP 20
Control and monitoring	Fully automatic with Enapter's EMS Energy Management System), Modbus TCP via Ethernet
Weight	54 kg
Dimensions (W × D × H in mm)	482 × 634 × 307
Space inside cabinet	7 U
Maintenance	Maintenance-free
Conformity	CE certified according to the machine directive 2006/42/CE

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