

AEM Electrolyser EL 2.1 LC



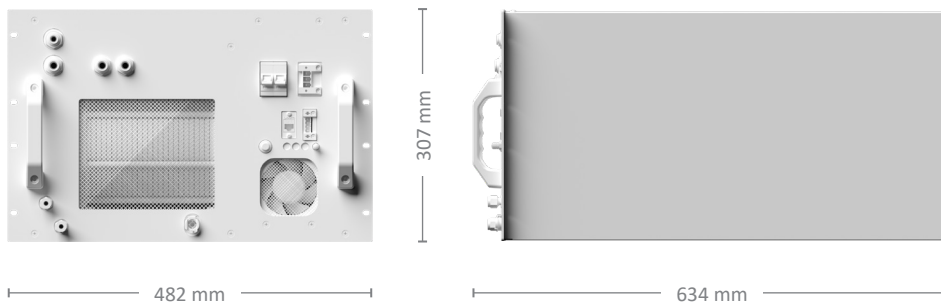
The liquid-cooled version of Enapter's patented anion exchange membrane (AEM) electrolyser. The modular design – paired with advanced software integration – allows set up in minutes and remote control and management. Stack this electrolyser to achieve the required hydrogen production rate. Use waste 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

Specifications

Enapter
AEM Electrolyser EL 2.1 LC



Hydrogen production rate	500 NL/hr 1.0785 kg/24 hr
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 (beginning of life)	4.8 kWh/Nm ³
Water consumption	~0.4 L/hr
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, Modbus TCP via Ethernet
Weight	54 kg
Dimensions (W × D × H in mm)	482 × 634 × 307 mm
Space inside cabinet	7 U
Maintenance	Maintenance-free
Conformity	CE certified according to the machine directive 2006/42/CE