

AEM Electrolyser EL 4.0



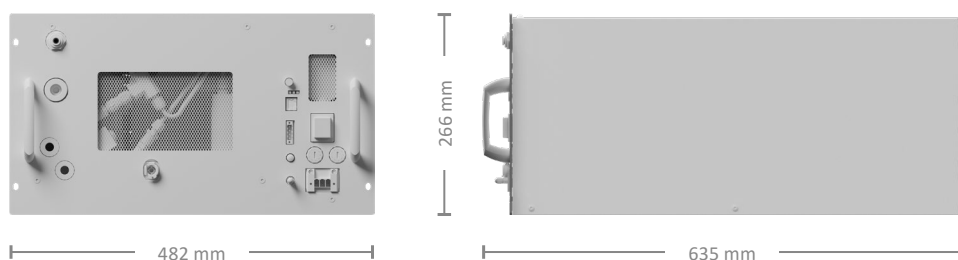
Enapter's patented anion exchange membrane (AEM) electrolyser is a standardised, stackable and flexible system to produce on-site hydrogen. The modular design – paired with advanced software integration – allows set up in minutes and remote control and management. Stack this electrolyser to achieve the required hydrogen flowrate.



AEM Electrolyser EL 4.0
www.enapter.com/aem-electrolyser

Specifications

Enapter
AEM Electrolyser EL 4.0



Production rate	Up to 500 NL/h, up to 1.0785 kg/24 h
Hydrogen output purity	35 barg: 99.9% (< 1,000 ppm H ₂ O and < 5 ppm O ₂) at 25 °C 8 barg: 98,8% (< 12,000 ppm H ₂ O and < 5 ppm O ₂) at 25 °C
Output pressure	Up to 35 barg
Nominal power consumption per Nm³ of H₂ produced	4.8 kWh/Nm ³ , beginning of life
Operative power consumption	2.4 kW, beginning of life
Peak power consumption	3 kW
Heat dissipation	0.6 kW, beginning of life
Max heat dissipation	0.9 kW, end of life
Standby power consumption¹	0.3 kW
Power supply	220 – 240 V (AC), 50/60 Hz
Maximum water input conductivity	20 µS/cm at 25 °C
Water consumption	~ 420 mL/h at 25 °C
Water input pressure range	1 – 4 barg
Ambient operative temperature range	5 °C – 45 °C
Ambient operative humidity range	Up to 90% humidity, non-condensing
IP rating	IP 20
Dimensions	W: 482 mm × D: 635 mm × H: 266 mm
Weight	42 kg
Space inside cabinet	6 U
Control and monitoring	Fully automatic with Enapter's EMS via 2.4 GHz Wi-Fi and Bluetooth, Modbus TCP over Ethernet
Conformity	CE mark according to the machine directive 2006/42/CE ² UKCA mark according to Supply Machinery (Safety) Regulations 2008 ³

¹ Standby refers to the condition in which no hydrogen is being produced and the auxiliary components are not powered.

² The Electrolyser belongs to S.E.P. category according to Pressure Equipment Directive 2014/68/EU

³ The Electrolyser belongs to S.E.P. category according to Pressure Equipment (Safety) Regulations 2016

Note: The product is under continuous improvement and the technical specifications might be subject to change. Please make sure to refer to our website for the most recent specifications.



AEM Electrolyser EL 4.0
www.enapter.com/aem-electrolyser