

AEM EL 4.1 Air Cooled AC

Enapter's patented anion exchange membrane (AEM) electrolyzer 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 electrolyzer to achieve the required hydrogen flowrate.







AEM Electrolyzer EL 4.1 www.enapter.com/aem-electrolyser

Specifications



482 mm

635 mm

Production rate	Up to 500 NL/h, up to 1.0785 kg/24 h	
Hydrogen output purity	35 barg (508 psig): 99.9% (< 1,000 ppm H ₂ O and < 5 ppm O ₂) at 25 °C (77 °F) 8 barg (116 psig): 98.8% (< 12,000 ppm H ₂ O and < 5 ppm O ₂) at 25 °C (77 °F)	
Output pressure	Up to 35 barg (Up to 507.63 psig)	
Nominal power consumption per Nm ³ of H ₂ produced	4.8 kWh/Nm³, beginning of life	
Operative power consumption	2.4 kW, beginning of life	
Heat dissipation	0.6 kW, beginning of life	
Standby power consumption ¹	0.03 kW	
Power supply	208 – 240 V (AC), 50/60 Hz, both split phase and 3-phase	
H ₂ O inlet purity (recommended)	Type II Water Acidity < 0.1 meq/l	According to ASTM D193-06 According to ASTM D1067
Water consumption	~ 420 mL/h at 25 °C (~ 0.11 gal/h at 77 °F)	
Water input pressure range	1 – 4 barg (14.5 – 58 psig)	
Ambient operative temperature range	5 °C – 45 °C (41 °F – 113 °F)	
Ambient operative humidity range	Up to 90% humidity, non-condensing	
IP rating	IP 20	
Dimensions	W/D/H: 482 mm × 635 mm × 266 mm (19" × 25" × 10.5")	
Weight	42 kg (92.6 lbs)	
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 ³ UKCA mark according to Supply Machinery (Safety) Regulations 2008 ⁴ CSA/ANSI B22734:2023 Ed.1 Hydrogen Generators Using Water Electrolyzis - Industrial, Commercial, and Residential Applications ⁵	

¹ Standby refers to the condition in which no hydrogen is being produced and the auxiliar components are not powered. ² Please, check the Battery limits and the Owner's Manual for the complete requirements list

^a The Electrolyzer belongs to S.E.P. category according to Pressure Equipment Directive 2014/68/EU ⁴ The Electrolyzer belongs to S.E.P. category according to Pressure Equipment Directive 2014/68/EU ⁵ ETL recognized electrolyzer versions only (ELE410535A2AE, ELE410535A2LE)

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.



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