

# AEM Electrolyser EL 4.1 LC



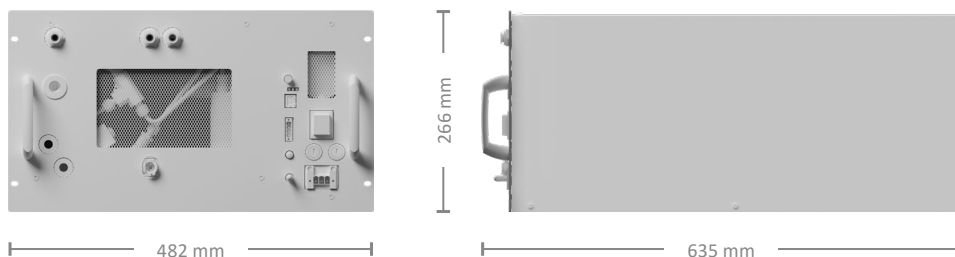
Enapter's patented anion exchange membrane (AEM) electrolyser is a standardised, stackable and flexible system to produce on-site hydrogen. The modular design – paired with advanced software integration – allows set up in minutes and remote control and management. Stack this electrolyser to achieve the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



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[www.enapter.com/aem-electrolyser](http://www.enapter.com/aem-electrolyser)

# Specifications

Enapter  
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<b>Production rate</b>	Up to 500 NL/h, up to 1.0785 kg/24 h
<b>Hydrogen output purity</b>	35 barg: 99.9% (< 1,000 ppm H <sub>2</sub> O and < 5 ppm O <sub>2</sub> ) at 25 °C 8 barg: 98.8% (< 12,000 ppm H <sub>2</sub> O and < 5 ppm O <sub>2</sub> ) at 25 °C
<b>Output pressure</b>	Up to 35 barg
<b>Nominal power consumption per Nm<sup>3</sup> of H<sub>2</sub> produced</b>	4.8 kWh/Nm <sup>3</sup> , beginning of life
<b>Operative power consumption</b>	2.4 kW, beginning of life
<b>Peak power consumption</b>	3 kW
<b>Heat dissipation</b>	0.6 kW, beginning of life
<b>Max heat dissipation</b>	0.9 kW, end of life
<b>Standby power consumption<sup>1</sup></b>	0.03 kW
<b>Power supply</b>	220 – 240 V (AC), 50/60 Hz
<b>Maximum water input conductivity</b>	Minimum ASTM D1193-06 Type IV or recommended Type II or Type III <sup>2</sup>
<b>Water consumption</b>	~ 420 mL/h
<b>Water input pressure range</b>	1 – 4 barg
<b>Cooling water pressure range</b>	1 – 4 barg
<b>Cooling water temperature range</b>	5 °C – 40 °C <sup>3</sup>
<b>Cooling water flow</b>	1 – 2 L/min
<b>Ambient operative temperature range</b>	5 °C – 45 °C
<b>Ambient operative humidity range</b>	Up to 90% humidity, non-condensing
<b>IP rating</b>	IP 20
<b>Dimensions</b>	W: 482 mm × D: 635 mm × H: 266 mm
<b>Weight</b>	41 kg
<b>Space inside cabinet</b>	6 U
<b>Control and monitoring</b>	Fully automatic with Enapter's EMS via 2.4 GHz Wi-Fi and Bluetooth, Modbus TCP over Ethernet
<b>Conformity</b>	CE mark according to the machine directive 2006/42/CE <sup>4</sup> UKCA mark according to Supply Machinery (Safety) Regulations 2008 <sup>5</sup> CSA/ANSI B22734:2023 Ed.1 Hydrogen Generators Using Water Electrolysis - Industrial, Commercial, and Residential Applications <sup>6</sup>

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

<sup>2</sup> Please, check the Battery limits and the Owner's Manual for the complete requirements list

<sup>3</sup> Please, check the Owner's Manual for operational values

<sup>4</sup> The Electrolyser belongs to S.E.P. category according to Pressure Equipment Directive 2014/68/EU

<sup>5</sup> The Electrolyser belongs to S.E.P. category according to Pressure Equipment (Safety) Regulations 2016

<sup>6</sup> ETL recognized electrolyser versions only

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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