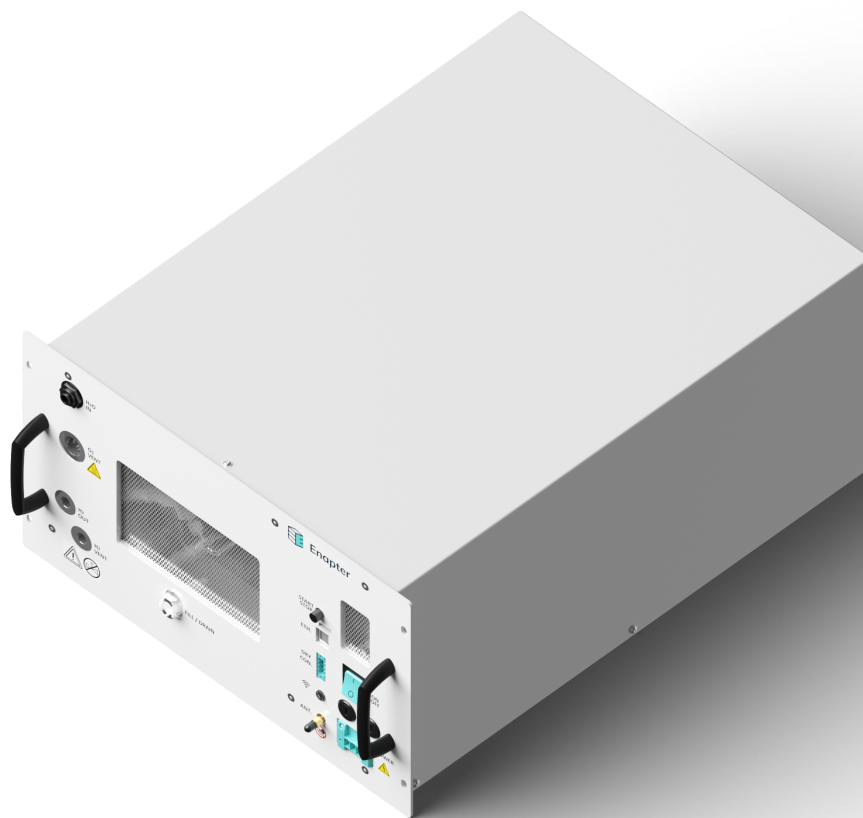


# AEM Electrolyser EL 4.0



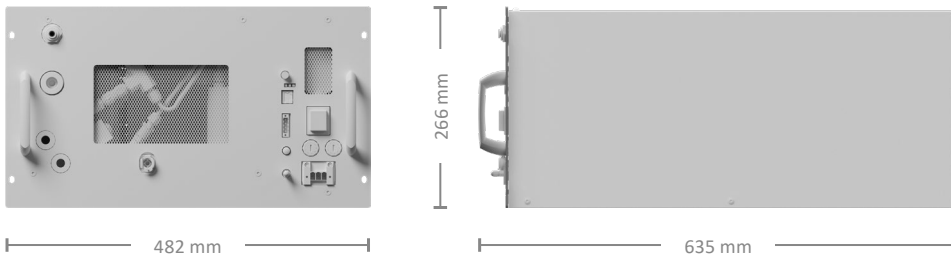
Enapter's patented anion exchange membrane (AEM) electrolyser is a standardised, stackable and flexible system to produce on-site hydrogen. The modular design – paired with advanced software integration – allows set up in minutes and remote control and management. Stack this electrolyser to achieve the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



AEM Electrolyser EL 4.0  
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# Specifications

Enapter  
**AEM Electrolyser EL 4.0**



|   |  |
|---|--|
| <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) at 25 °C<br>8 barg: 98,8% (~ 12,000 ppm H <sub>2</sub> O) 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>                                  | 0.3 kW   |
| <b>Power supply</b>   | 220 – 230 V (AC), 50/60 Hz   |
| <b>Maximum water input conductivity</b>                                       | 20 µS/cm at 25 °C  |
| <b>Water consumption</b>  | ~ 420 mL/h at 25 °C  |
| <b>Water input pressure range</b>   | 1 – 4 barg   |
| <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>   | 42 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>2</sup><br>UKCA mark according to Supply Machinery (Safety) Regulations 2008 <sup>3</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> The Electrolyser belongs to S.E.P. category according to Pressure Equipment Directive 2014/68/EU

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



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