

Electrolyser AEM Multicore

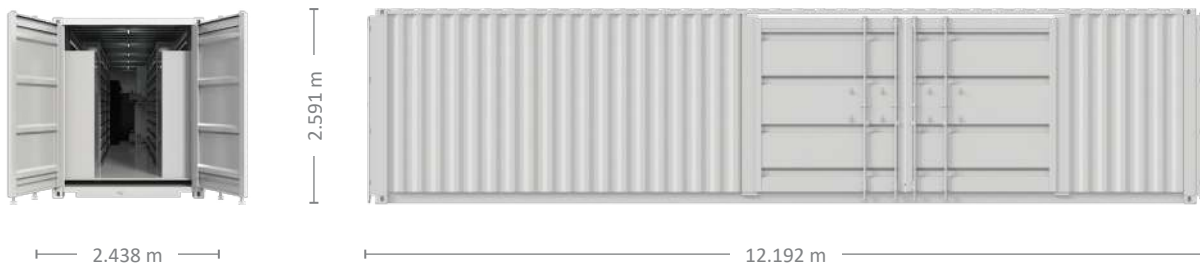


The Enapter Electrolyser AEM Multicore is fully assembled, ready to run and packaged in a 40' container. Site works are limited to the connection of vent and purge lines, water supply, hydrogen outlet piping as well as grid connections.

KEY FEATURES

- ≡ Extremely high availability and built-in redundancy
- ≡ Automated & remote operation with Enapter's Energy Management System
- ≡ Low requirements for input water purity
- ≡ Ideal for on-site hydrogen production
- ≡ Safe operation
- ≡ Scalable and modular, add as many modules as needed
- ≡ Quick and easy installation
- ≡ Low maintenance requirements

Specifications



Nominal H₂ flow	210 Nm ³ /h	Net volume flow rate
H₂ outlet pressure	Up to 35 bar	
H₂ purity without optional dryer	99.8% in molar fraction	Impurities: H ₂ O ≈ 1500 ppm, O ₂ < 5ppm
H₂ purity with optional dryer	99.999% in molar fraction	Impurities: H ₂ O < 5 ppm, O ₂ < 5ppm
Flexibility	3% - 105% of nominal production rate	
O₂ outlet pressure	Atmospheric	
Specific power consumption	4.8 kWh/Nm ³	Including all utilities inside the battery limit of module
Nominal electrical power consumption	1,035 kW	
Voltage	3 x 400 Vac three-phase grid	
Frequency	50/60 Hz	
Nominal water flow	0.19 Nm ³ /h purified water	Consumption of tap water input for water purification is approximately 2x higher
Inlet water pressure	0.5 bar - 4 bar	
Inlet water temp.	6 °C - 30 °C	
System life	20 years	
Stack life	> 35,000 operating hours	
Hot startup time	0 - 100% within seconds	
Cold startup time	0 - 100% in ca 30 minutes, depending on ambient temperature	
Footprint	L 2.438 m × W 12.192 m × H 2.591 m	
Weight	Approximately 20 t	
Transport dimensions	40 ft container	