IMI

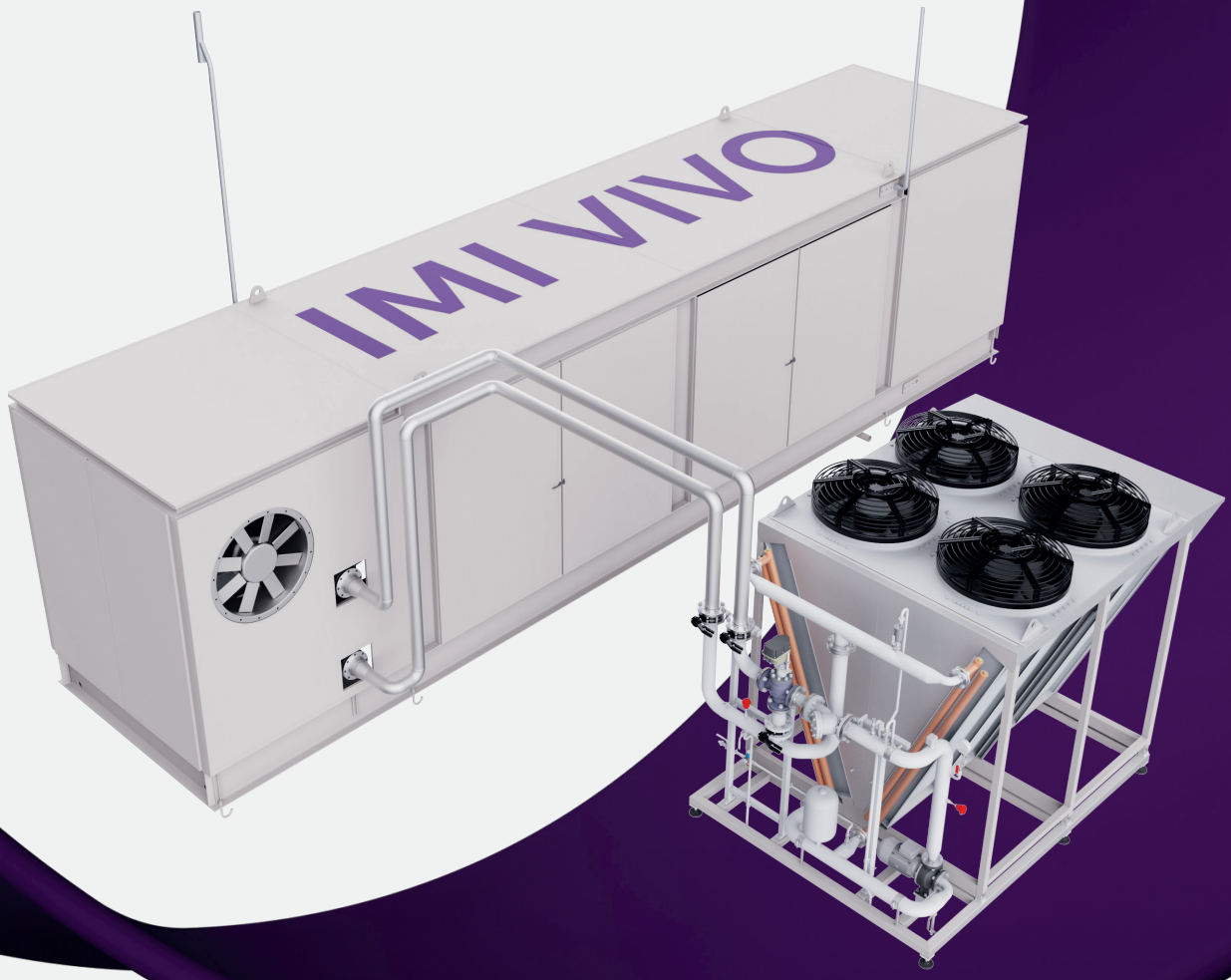
Process Automation

Our product brands:

IMI VIVO

Proton Exchange Membrane (PEM) **Electrolyser**

1MW module



Breakthrough engineering for a better world

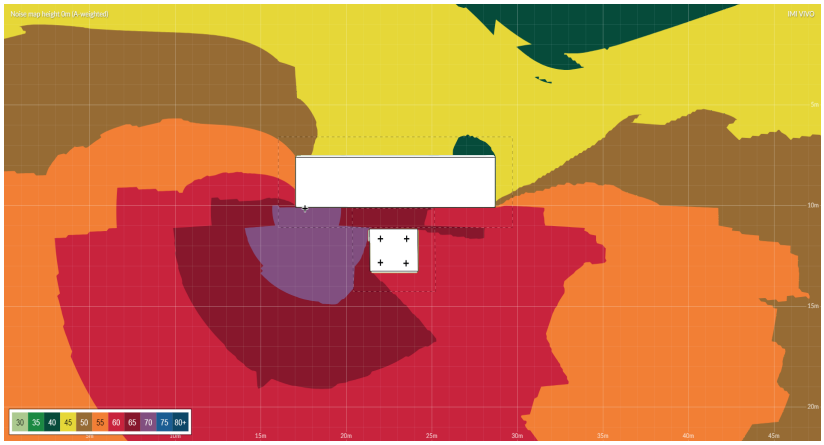
Contact us at
imivivo@imi-critical.com

IMI VIVO PEM Electrolyser is designed to have one or multiple stacks combined to reach the desired hydrogen output and working range.

	Properties	Unit	1MW Module
Inputs	Electrical Loads	Vac - Hz – MW	LV – 50 - 1.1
	Water supply	l/h	<300
Outputs	H_2 (max)	Nm^3/h	200
	O_2 (max)	Nm^3/h	100
Performance	H_2 Purity	%	99.999% with H_2 purificator (Impurities: H_2O < 5 ppm, O_2 < 5 ppm) 99.95% without H_2 purificator (Impurities: H_2O < 500 ppm, O_2 < 20 ppm) (according ISO 14687:2019 table 2)
	H_2 pressure	bar (g)	40
	O_2 pressure	bar (g)	<2
	Dynamic operation range	%	10 - 100
	Rum up time	min	<5
	Max power consumption	kWh/kg	58
Footprint	Container/Skid (w*d*h)	ft	8 x 40 x 8
Control	Communication	-	24/7 data acquisition and remote monitoring
	Interface possibilities	-	Modbus TCP/IP

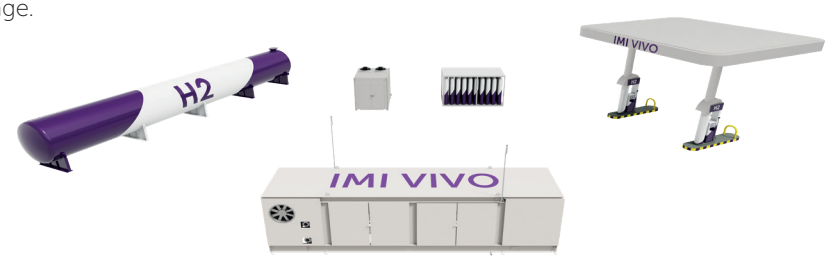
Low Noise Design

The IMI VIVO electrolyser meets local noise level regulations, maintaining a sound pressure level below 60 dB(A) at a distance of 10 meters. Additional features can be implemented to meet more stringent noise requirements if necessary



IMI VIVO: Sustainable Energy Partner

IMI VIVO is a turnkey green hydrogen solutions provider, supporting the user from the earliest stages of the plant design. Our team can support you in defining the optimal size for renewable energy sources, electrolysers, fuelling stations, fuel cells, and storage.



IMI VIVO PEM Electrolyser

is a fully customizable solution that produces hydrogen from renewable energy sources.

The innovative system can be adapted to meet unique customer and regulatory requirements.

Equipped with the highest standard components, from stack to BoP, it guarantees a modular design able to provide green hydrogen production at different amounts and quality.

Real-time wireless monitoring

The dashboard offers customisable, cloud based, real-time monitoring of the electrolyser's performance. System operators can monitor all key parameters, including hydrogen pressure and flow rate, stack and system efficiency, DC/AC power consumption, and cooling temperatures.
The dashboard is available for PC's, Macs, tablets, and smartphones and can be used at any location with a WI-FI or mobile data internet connection.

Discover more

or contact at
imivivo@imi-critical.com