



# NEPTUNE II

RAPID. COMPETITIVE. CONTAINERISED.

Autonomous NEPTUNE II 2MW Plug & Play system for small-scale projects.

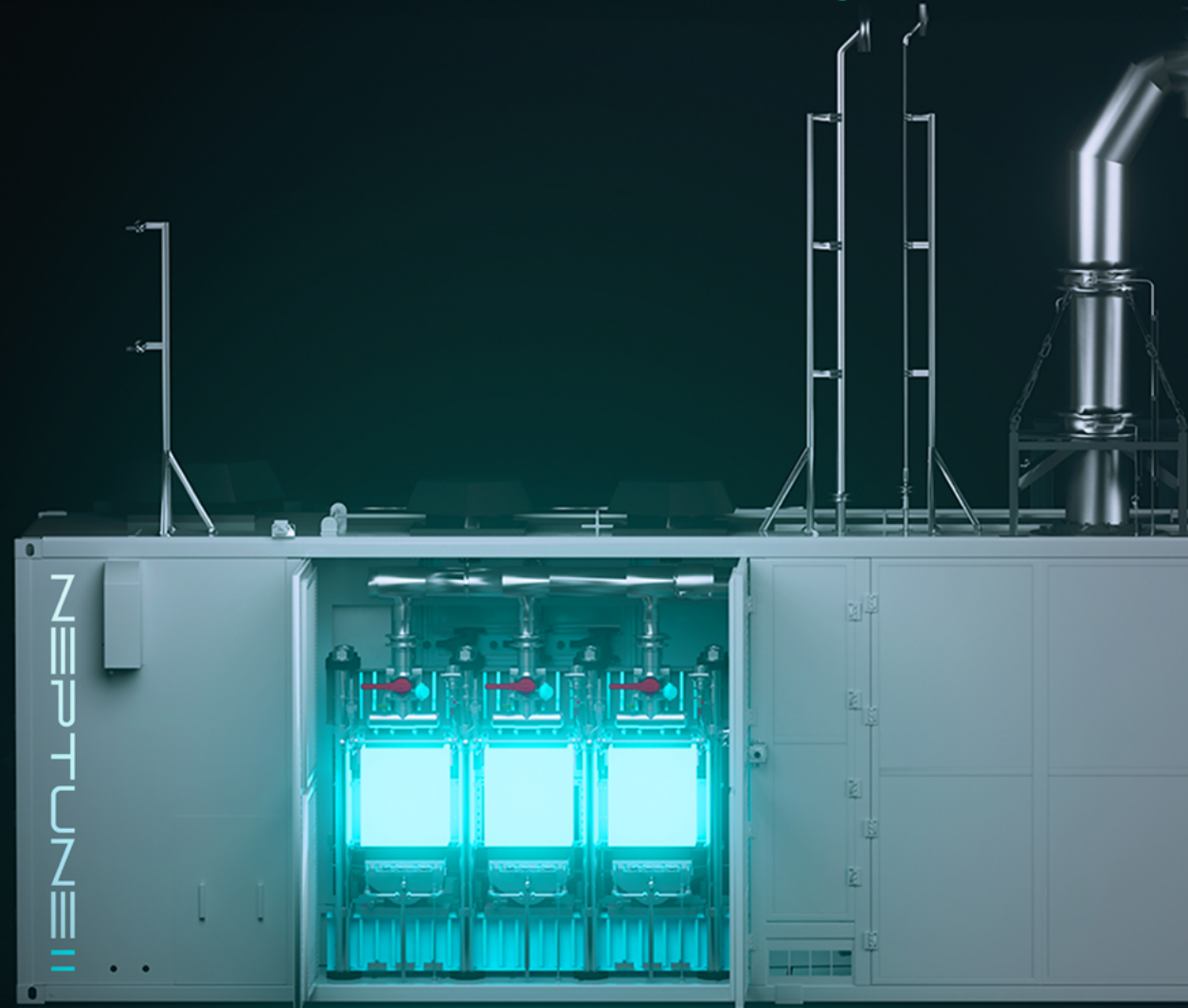
With our state-of-the-art TRIDENT stack platform at its heart, NEPTUNE II is a fully autonomous electrolyser system. Supplied with a power conversion system and incorporating all necessary balance of the plant, the electrolyser can be readily deployed as a complete package.

Engineered to be safe, cost competitive and reliable.

CONTACT OUR SALES TEAM

+44 (0) 114 551 1000

[sales@itm-power.com](mailto:sales@itm-power.com)



REFINERIES



AMMONIA



METHANOL



TRANSPORT



SEMICONDUCTORS



STEEL



STORAGE



MINING

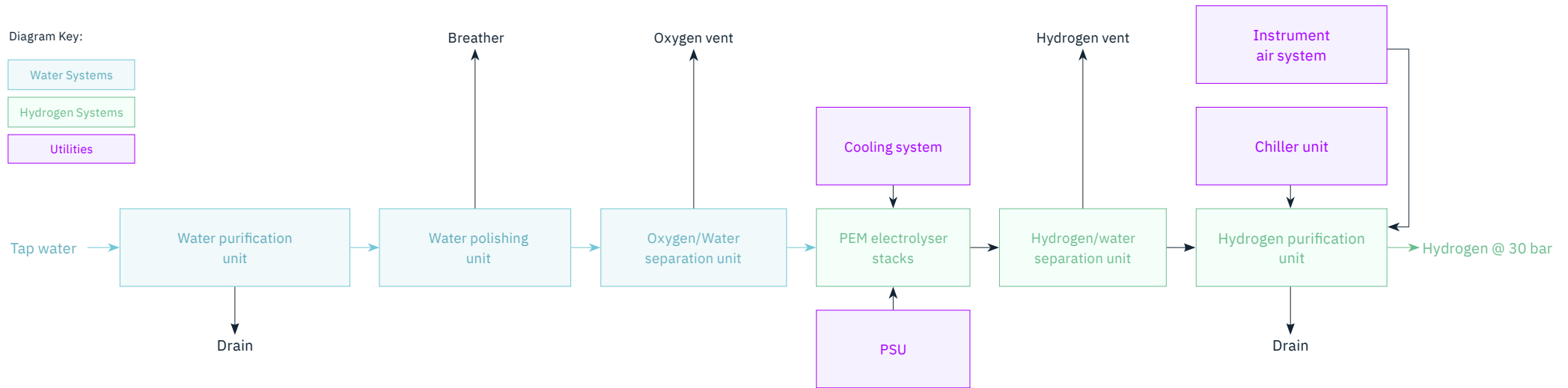


HEATING



ELECTRICITY

# NEPTUNE II: PROCESS FLOW & SPECIFICATIONS



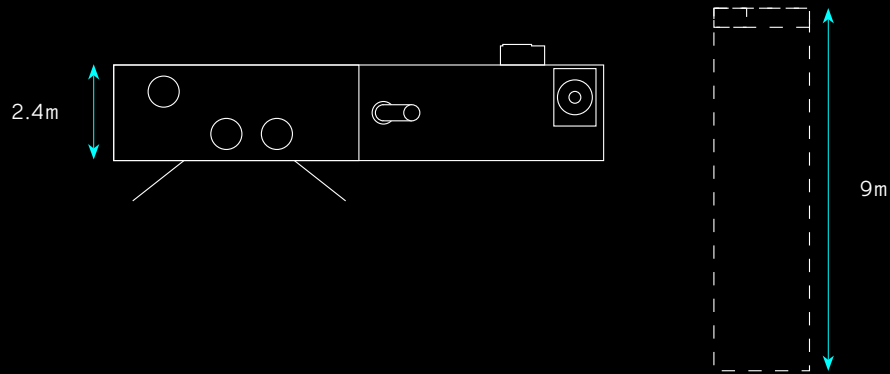
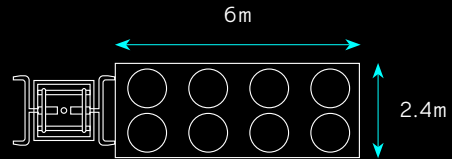
TECHNOLOGY	PEM	H2 PRODUCTION	35 kg/hr
NUMBER OF STACKS	3	H2 OUTPUT PRESSURE	30 bar(g)
CAPACITY	2MW	H2 OUTPUT PURITY	<5ppm H2O, <5ppm O2 (EN 17124 & ISO 14687)
AC POWER CONSUMPTION	57 kWh/kg*	AMBIENT TEMPERATURE RANGE	-20°C to + 40°C
SYSTEM FOOTPRINT	Approx. 96m <sup>2</sup> optimised layout***	MODULATION	10% per second ramp up 50% per second ramp down
OPERATING RANGE	25–100%	COMPLIANCE	CE
INPUT WATER PURITY	Potable Water**		

\* This is the full system (water purification, stack, and BOP) energy consumption at beginning of life

\*\* Input water to the system, prior to purification

\*\*\*Not including hazard areas

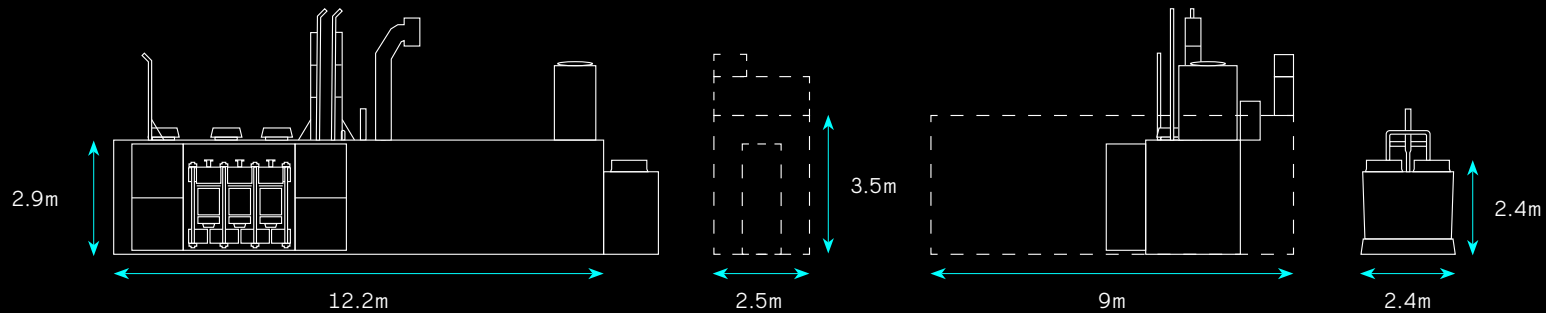
AIR BLAST COOLER



POWER  
SUPPLY  
UNIT

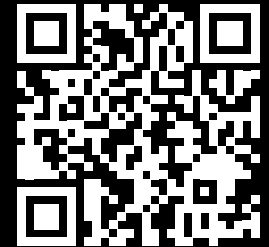
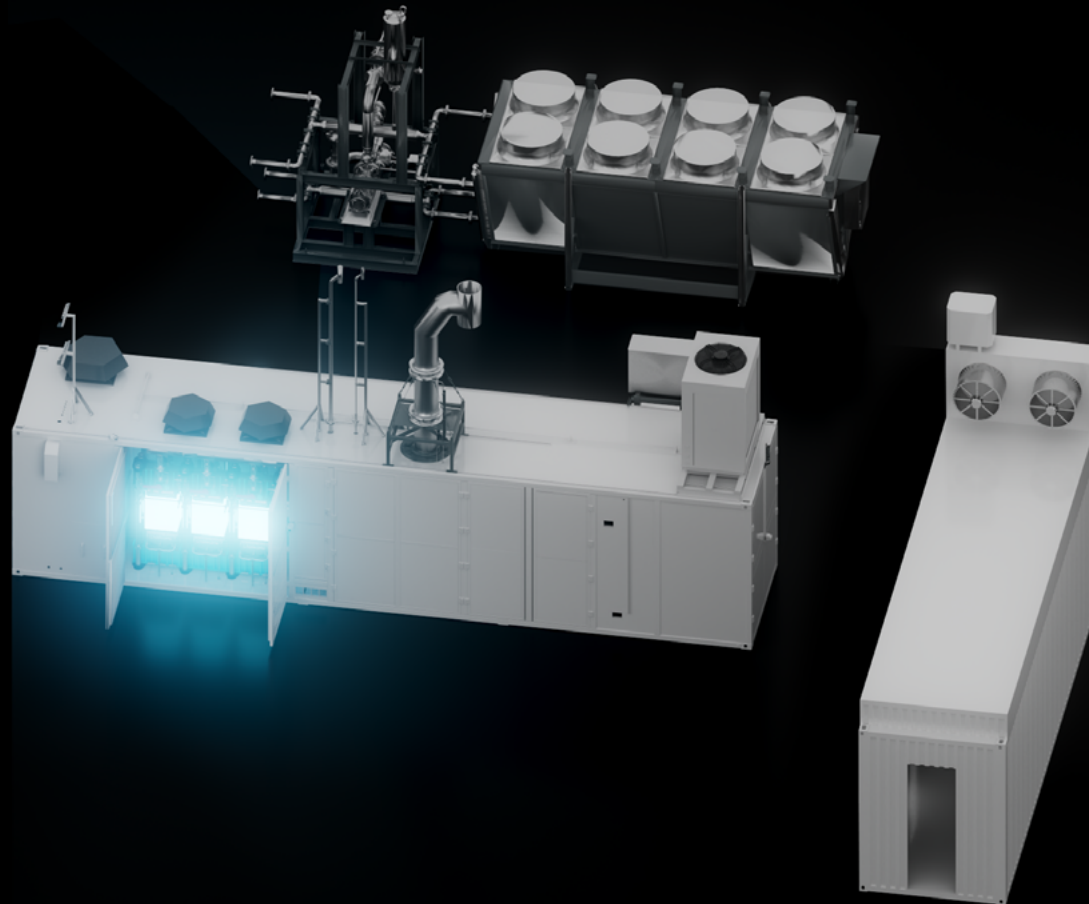
## SYSTEMS DIMENSIONS (INDICATIVE)

- 1x 40' Electrolyser Container
- 1x 30' Power Supply Unit
- 1x Air Blast Cooler & Glycol Pump Skid
- 1x Process Chiller
  
- Approx. 96m<sup>2</sup> optimised layout



ELECTROLYSER

# NEPTUNE II: PLUG & PLAY



Find out the detailed scope of supply and more on our product page

CONTACT OUR SALES TEAM

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[itm-power.com/products/neptune-2](http://itm-power.com/products/neptune-2)

