



NEPTUNE II

RAPID. COMPETITIVE. CONTAINERISED.

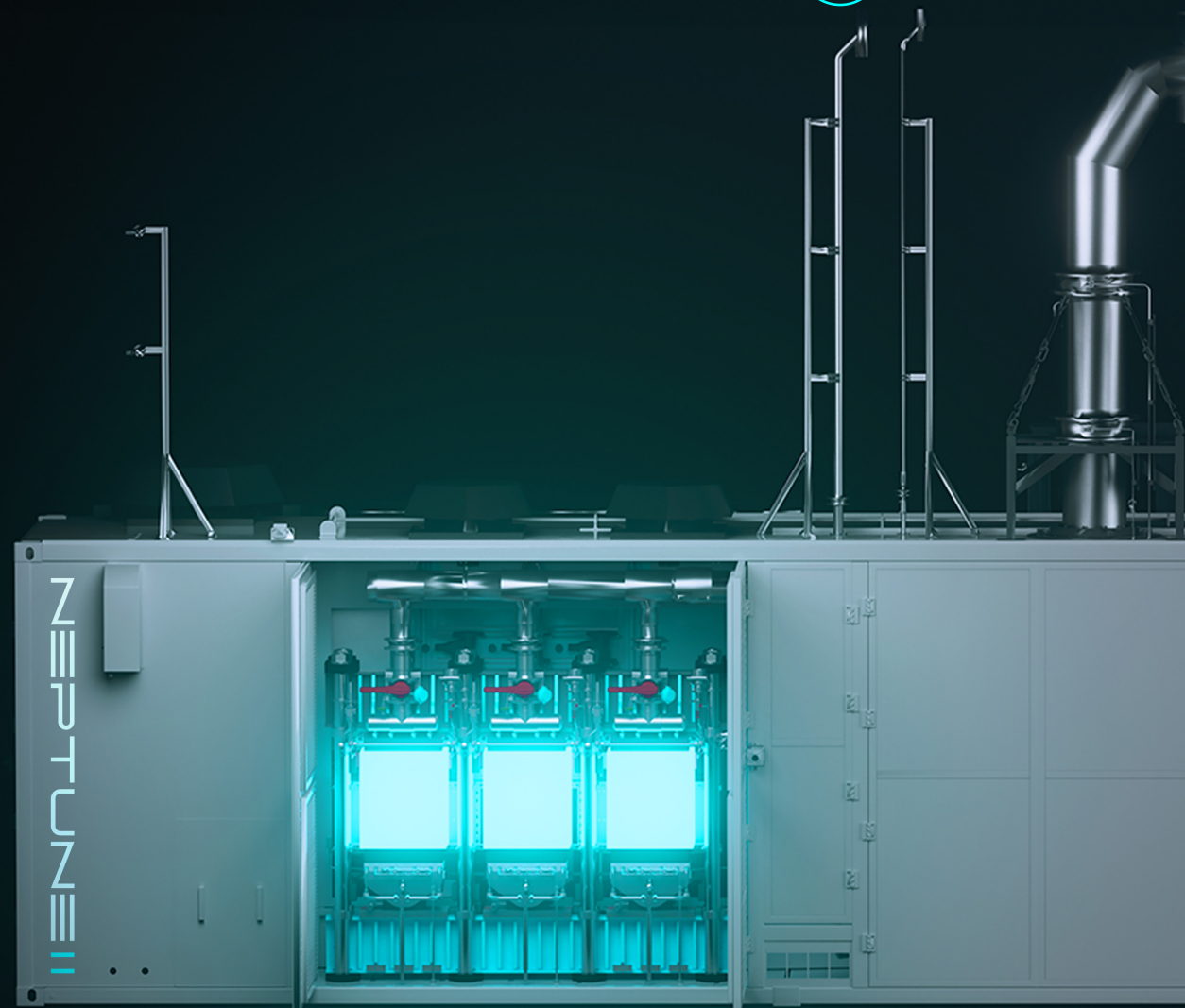
Autonomous NEPTUNE II 2MW Plug & Play Green Hydrogen Plant for small-scale projects.

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

Engineered to be safe, cost competitive and reliable.

CONTACT OUR SALES TEAM

sales@itm-power.com



REFINERIES



AMMONIA



METHANOL



TRANSPORT



SEMICONDUCTORS



STEEL



STORAGE



MINING

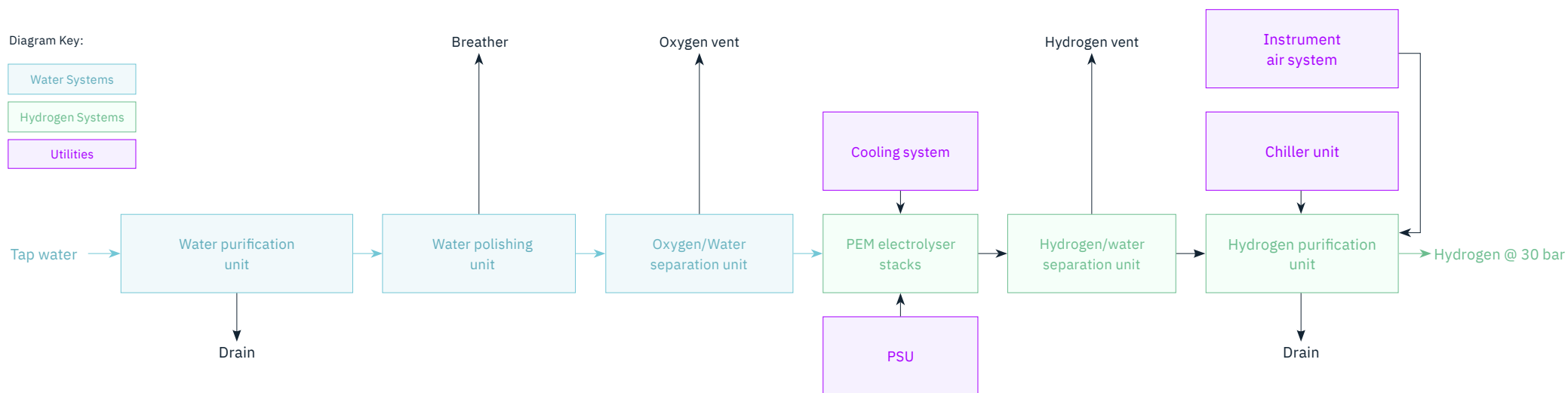


HEATING



ELECTRICITY

NEPTUNE II: PROCESS FLOW & SPECIFICATIONS



TECHNOLOGY	PEM
NUMBER OF STACKS	3
CAPACITY	2MW
AC POWER CONSUMPTION	57 kWh/kg*
SYSTEM FOOTPRINT	Approx. 96m ² optimised layout***
OPERATING RANGE	25–100%
INPUT WATER PURITY	Potable Water**

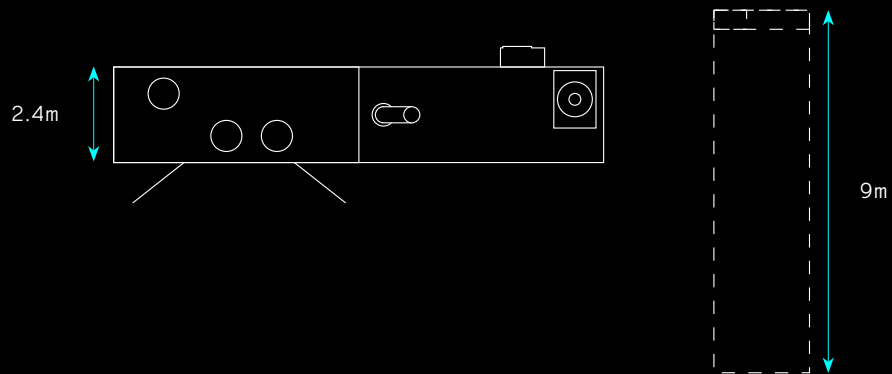
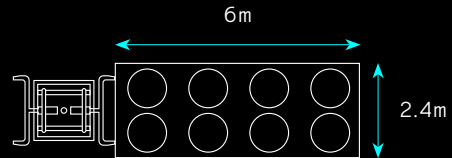
H2 PRODUCTION	35 kg/hr
H2 OUTPUT PRESSURE	30 bar(g)
H2 OUTPUT PURITY	<5ppm H2O, <5ppm O2 (EN 17124 & ISO 14687)
AMBIENT TEMPERATURE RANGE	-20°C to + 40°C
MODULATION	10% per second ramp up 50% per second ramp down
COMPLIANCE	CE

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

** Input water to the system, prior to purification

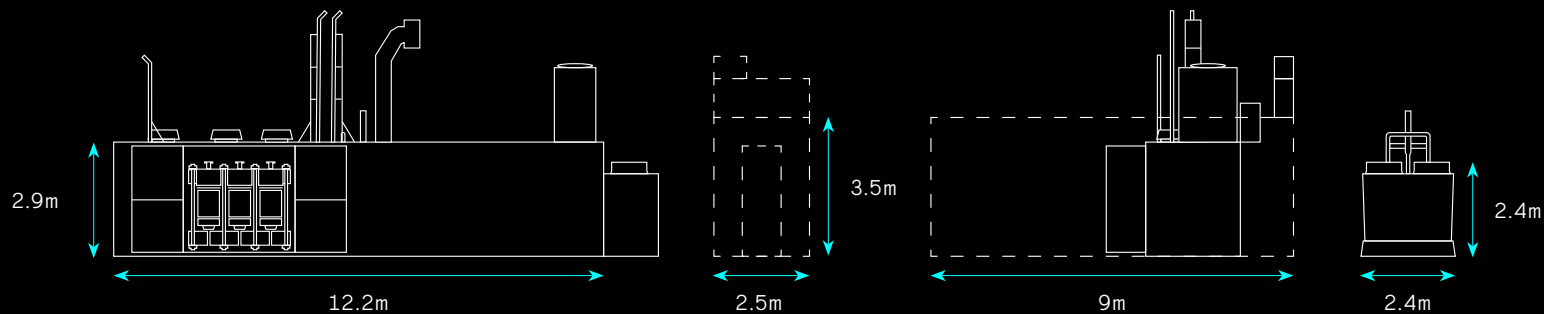
***Not including hazard areas

AIR BLAST COOLER



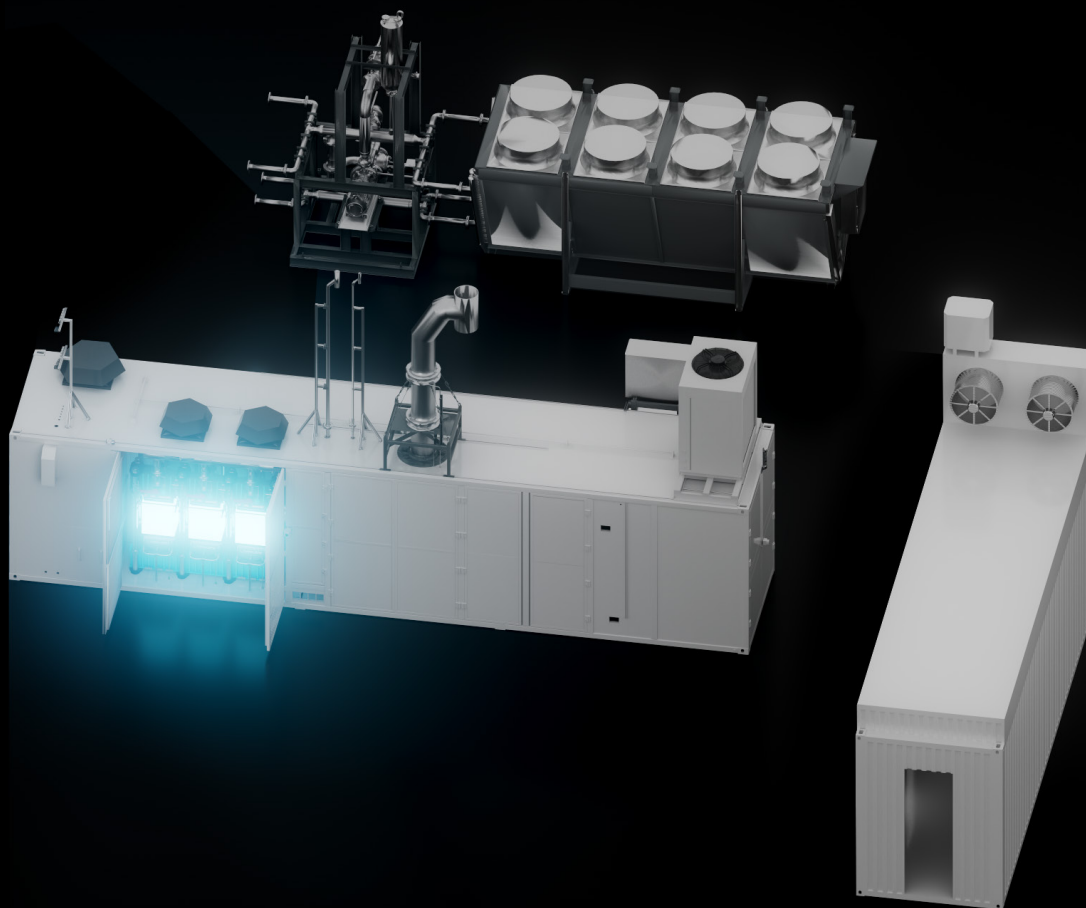
SYSTEMS DIMENSIONS (INDICATIVE)

- 1x 40' Electrolyser Container
- 1x 30' Power Supply Unit
- 1x Air Blast Cooler & Glycol Pump Skid
- 1x Process Chiller
- Approx. 96m² 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

