

OUTPERFORMING. COMPACT. COMPETITIVE.

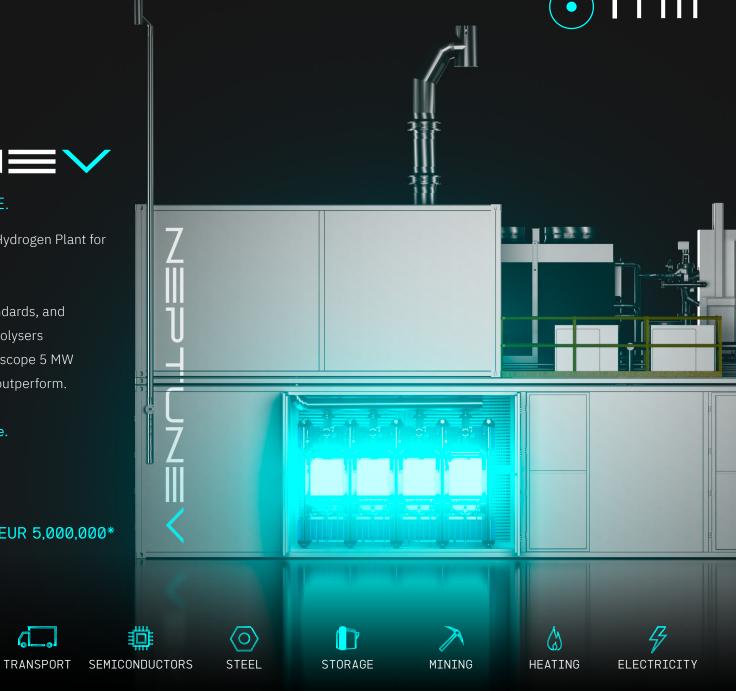
Best-in-class NEPTUNE V 5 MW Plug & Play Green Hydrogen Plant for mid-scale projects.

Designed against the highest safety and quality standards, and building on the learnings from our operational electrolysers around the world, NEPTUNE V is our brand-new full scope 5 MW containerised green hydrogen plant, engineered to outperform.

Engineered to be safe, cost competitive and reliable.

CONTACT OUR SALES TEAM sales@itm-power.com

EUR 5,000,000*









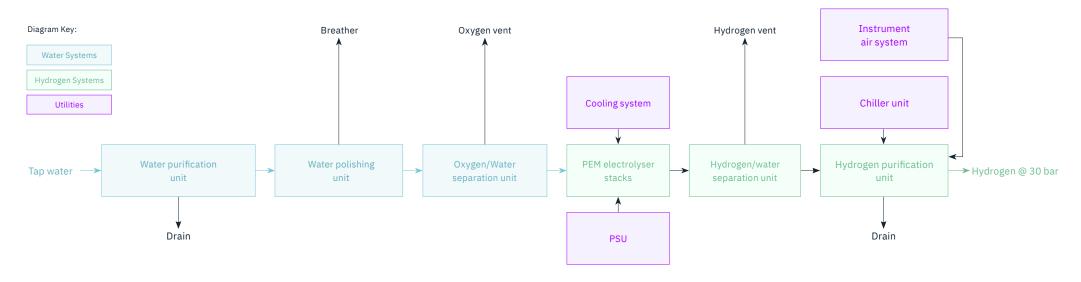




^{*} prices are based on ITM's Standard T&C's

NEPTUNE V: PROCESS FLOW & SPECIFICATIONS





TECHNOLOGY	PEM
NUMBER OF STACKS	8
CAPACITY	5MW
AC POWER CONSUMPTION	55.9 kWh/kg*
SYSTEM FOOTPRINT	Approx. 96m² optimised layout***
OPERATING RANGE	12.5–100%
INPUT WATER PURITY	Potable Water**

H2 PRODUCTION	90 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 + 45°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

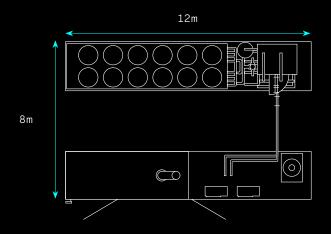
^{**} Input water to the system, prior to purification

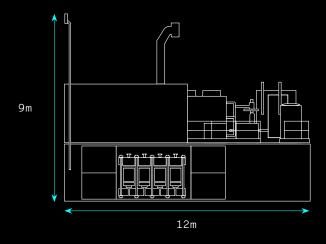
^{***}Not including hazardous areas

NEPTUNE V: PLUG & PLAY



AIR BLAST COOLER



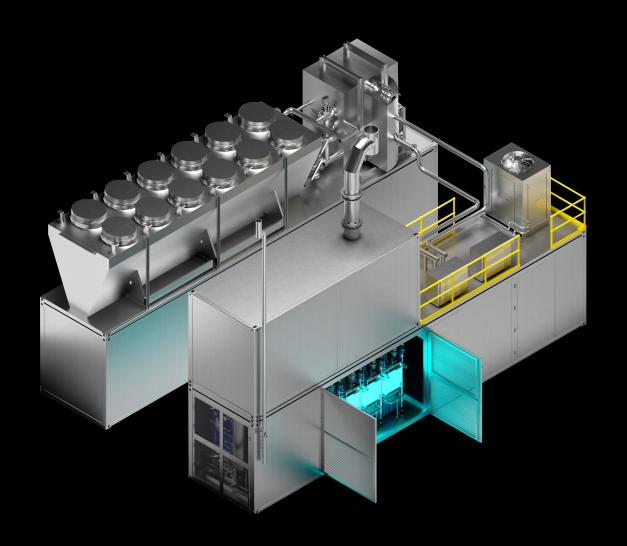


ELECTROLYSER

SCOPE OF SUPPLY

- Water purification unit
- Water polishing unit
- PEM stacks and skids
- Process water cooling system adiabatic cooler
- Instrument air system
- Hydrogen purification unit
- Container temperature control
- Containerised power supply unit including; MV trafo, dual-rectifier and cooling system, specifically designed to match our electrolyser
- Siemens S7 PLC, integrated safety
- Local HMI for plant control and diagnostics
- Fully autonomous operating software system, able to connect to external SCADA or DCS
- All process and electrical interconnections within the container
- Factory Acceptance Test (FAT) before shipment







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

CONTACT OUR SALES TEAM sales@itm-power.com
itm-power.com/products/neptune-5

