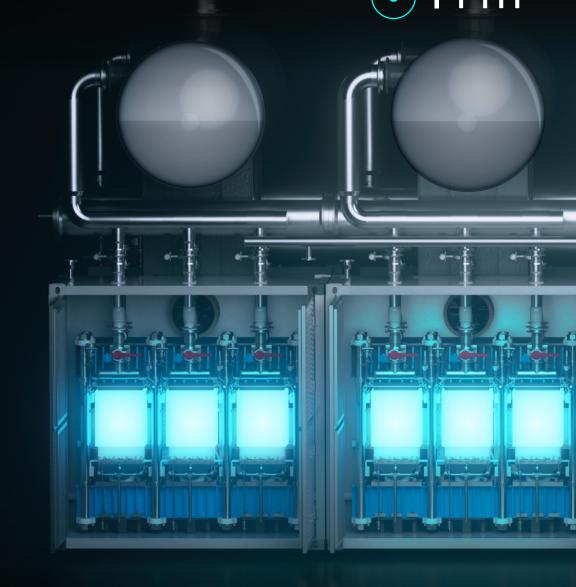


## CUTTING-EDGE 20MW MODULE FOR LARGE-SCALE PROJECTS

Our core electrolysis process module is engineered to incorporate real-world lessons learned from commercial projects. POSEIDON is a modular building block enabling scale up with optimised footprint. Suitable for both indoor and outdoor installation, it consists of skid-mounted units which can be pre-fabricated and pre-tested. This leads to reduced deployment times and low project costs.

Engineered to be safe, cost competitive and reliable.

CONTACT OUR SALES TEAM sales@itm-power.com

















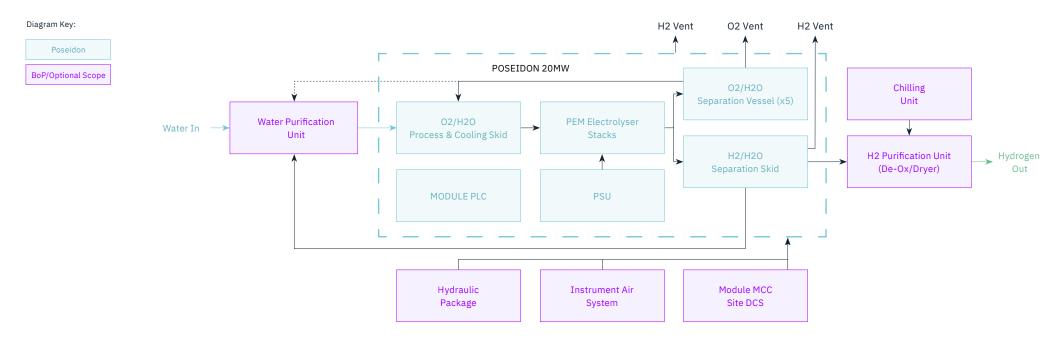






## POSEIDON: PROCESS FLOW & SPECIFICATIONS





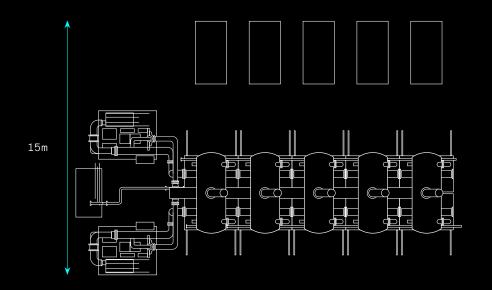
TECHNOLOGY	PEM
NUMBER OF STACKS	30
AC POWER CONSUMPTION	55.9 kWh/kg*
SYSTEM FOOTPRINT	35m x 15m x 7.5m (With PSUs & Access)
OPERATING RANGE	20%-100% (Based on 4 Pairs turned down to 25& applied load)
INPUT WATER PURITY	DI Water**

H2 PRODUCTION	360 kg/hr
H2 OUTPUT PRESSURE	31 bar(g)
H2 OUTPUT PURITY	Single Phase Fully Saturated with Trace O2
AMBIENT TEMPERATURE RANGE	-20°C/+45°C
MODULATION	10% per second ramp up 50% per second ramp down
COMPLIANCE	CE Marked/PED

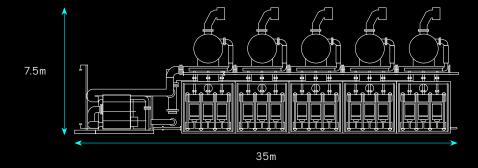
<sup>\*</sup> This is the full system (water purification, stack, and BOP) energy consumption at beginning of life \*\*As per ITM Power Specification (D992-01-QUAL-011) – Input water post water polishing unit



## **CORE PRODUCT**

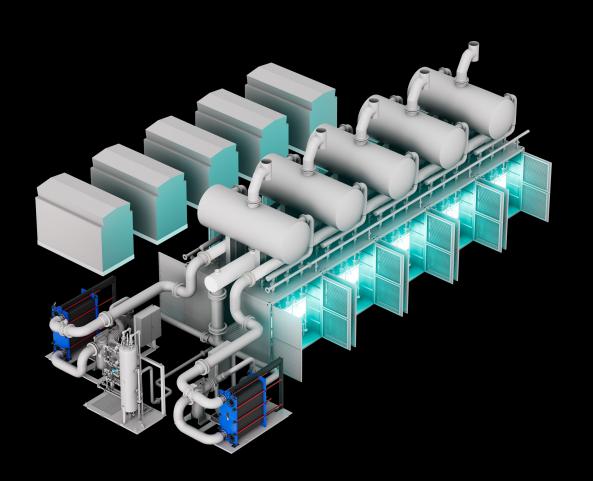


- 10x TRIDENT Enclosure Units, each of these shall be supplied with:
   3x PEM Stacks, 1x TRIDENT Skid Frame,
   Gas Detection Equipment, Ventilation Fans
- (•) 3x Power Supply Units (2x 40ft Container / 1x 20ft Container)
- 5x O2 / Water Separator Vessel
- 2x O2 / Water Processing Skid
- •) 1x H2 Processing Skid: H2/Water Separator Vessel



Additional balance of plant scopes are available on request.







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

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itm-power.com/products/poseidon

