

GENFUEL®

THE 5MW ELECTROLYZER

Best-in-class life expectancy of 80,000 hours

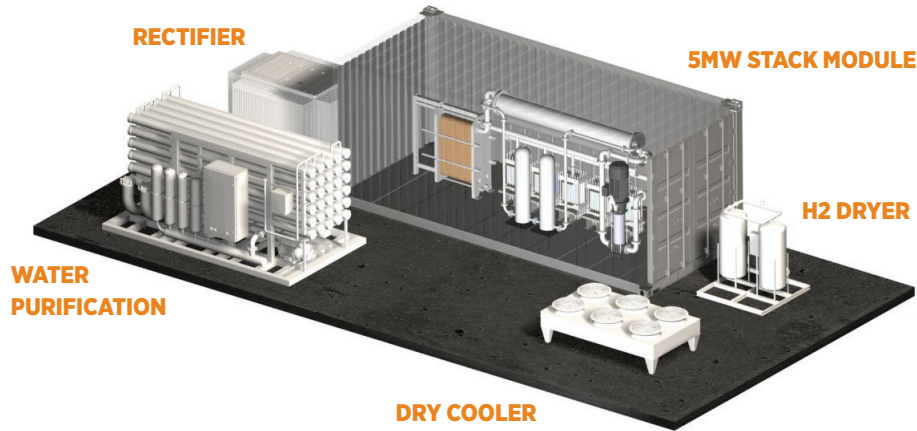
The GenFuel 5MW proton exchange membrane (PEM) electrolyzer provides on-site hydrogen for markets including heavy industry, e-mobility, renewable energy and energy storage. Electrolyzers generate hydrogen from water using electricity and a special membrane and “green” hydrogen is generated by using renewable energy inputs, such as solar or wind power. The 5MW product is based on 47+ years of experience in design, production and sales of electrolyzer stacks and integrated products.

- Flexible & Scalable to meet a wide array of performance requirements
- Robust & Dependable, providing industry-leading performance
- Turnkey containerized products for simple siting and installation
- Environmentally-friendly, with lowest O&M in its class
- World class lifetimes with stable operating voltages



Your full-service hydrogen generation system.

SCALABLE SOLUTIONS SERVING DIVERSE APPLICATIONS



THE GENFUEL 5MW ELECTROLYZER IS A MODULAR SYSTEM, SCALABLE AND OPTIMIZED FOR YOUR HYDROGEN APPLICATION. IDEAL FOR A VARIETY OF PLANT SIZES AND USES INCLUDING HYDROGEN FUELING, INDUSTRIAL AND ENERGY STORAGE NEEDS.

5MW ELECTROLYZER SYSTEM SPECIFICATIONS	
SPECIFICATION	RATING
INPUT	
AC POWER REQUIREMENTS	5.2kWh/Nm ³ @ full capacity / 200kWh standby (0% flow, system on)
INSTALLED POWER	5.5MW / 6,000kVA
BALANCE OF PLANT	
WATER CONSUMPTION	Feed: 1,400L/hr @ 4barg, potable water
OXYGEN FLOW RANGE	72 to 720 kg/hr, 15psi, 4.3% water
PHYSICAL	
AREA REQUIREMENTS	8,000 sq. ft. (0.18 acres)
AMBIENT TEMPERATURE	-20°C to +40°C
COMMUNICATION	24/7 data acquisition and remote monitoring
PERFORMANCE	
HYDROGEN FLOW RATE	100 to 1,000 Nm ³ /hr / 9 to 90 kg/hr, 10% to 100% range
HYDROGEN PRESSURE	Up to 40 barg
HYDROGEN PURITY	99.9% to 99.999%
STARTUP TIME	30 seconds (warm start) / 5 minutes (cold start)
EFFICIENCY	Up to 58 kWh/kg of H ₂ @ 100% flow
LIFE EXPECTANCY	Stack: 80,000 hours
CERTIFICATIONS	Compliant to ISO 22734, NFPA 2, CRN, CE

Product specifications are subject to change without notice.

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