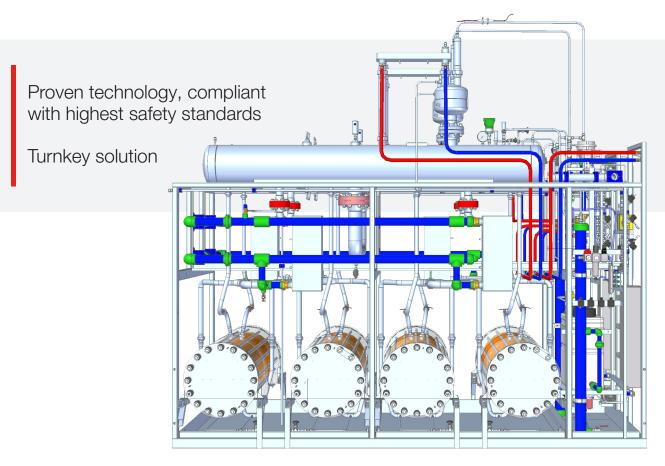
HySTAT® ALKALINE ELECTROLYZERS



HySTAT® is Cummins' globally proven modular alkaline electrolyzer system designed for easy on-site installation inside or out, with simple interconnectivity to scale up, and an unrivaled record for reliability, low maintenance and on-site safety. Recommended for projects between 60 - 140 Nm³/h.



FEATURES

	HySTAT® - 60	HySTAT® - 70	
Technology	Alkaline		
Hydrogen production	60 Nm ³ /h (130 kg/day)	70 Nm ³ /h (160 kg/day)	
H ₂ delivery pressure	10 bar _g (145 psig) without a compressor		
H ₂ quality max impurities	99.998% $\rm O_2 < 2$ ppm, $\rm N_2 < 12$ ppm (higher purities optional); Atm. Dew point: -75°C		

TECHNICAL SPECIFICATIONS

	HySTAT® - 60	HySTAT® - 70
Operating range	40-100% (optional 12-100%)	
System specific consumption*	55-60 kWh/kg	
Utilities required to operate the plant	Electrical power, potable water, nitrogen for purging requirements	
Rectifier input and efficiency	3 X 400 VAC ± 10% 50/60 Hz	
Installed power	550 kVA	675 kVA
Potable water consumption	Scope of supply includes a water treatment plant with reverse osmosis that requires 1.2 to 2 L/Nm³ [13 to 17 L/kg of H₂] (varies depending potable water quality) to produce 0.8 L/Nm³ of demin water for the electrolysis process	
Total footprint (including maintenance area)	15.5 m x 5.8 m (~ 89 m²)	
Product setup	Outdoor (40ft ISO container) / Indoor (skidded setup)	
Installation environment	Outdoors -20°C to 40°C / -4°F to 104°F	

^{*}System specific consumption considers: the standard scope of supply refers to the outdoor version of this product (refer to BOS and BOP tables); 100% Load capacity; Beginning Of Life; 1% increase per annum (at ≥8500 hours operation); Range for indoor and outdoor setup

STACK AND BALANCE-OF-STACK (BOS)	Outdoor	Indoor
Cell stacks and gas generation system	•	-
Power rectifiers	•	-
Control panel	•	-
Water quality monitoring system	•	-

BALANCE-OF-PLANT (BOP)		Indoor
Rectifier cooling	•	•
Gas cooling	•	•
Electrolysis cooling	•	•
Water purification system	•	•
Instrument air compressor	•	•
Hydrogen purification system	•	•

Applicable Codes and Standards Pressure Equipment Directive 2014/68/EU, Low Voltage Directive 2014/35/EU, Machinery Directive 2006/42/EC, Electro-Magnetic Compatibility 2014/30/EU, ATEX Directive 2014/34/EU, IEC 61511, IEC 61508, IEC 60079-10-1, NFPA 2, NFPA 497, National Electrical Code (NEC), ANSI/NFPA 70, ASME B31.3-2016, ASME Boiler and Pressure Vessel Code 2017, CSA C22.1 and C22.2, CSA B51 2019, CAN/BNQ 1784-000/2007. Other jurisdictions available on request.

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