PEM electrolyzers

accelerate the shift™

HyLYZER® 400/500-30

HyLYZER® is Accelera's globally proven modular water electrolyzer system designed for easy on-site installation, with simple interconnectivity to scale up, and an unrivaled record for reliability, low maintenance and on-site safety. Recommended for projects between 400-5,000 Nm³/h.

Benefits

Proven technology, compliant with highest safety standards

Turnkey containerized solution for weather-proof outdoors installation

30 bar_g hydrogen delivery pressure (without compression)

Integrated hydrogen purification system

Features

Features	HyLYZER® 400-30	HyLYZER® 500-30
Technology	PEM (proton exchange membrane)	
Nominal power rating	2 MW	2.5 MW
Number of cell stacks	2	
Hydrogen production	36 kg/h 400 Nm³/h	45 kg/h 500 Nm³/h
Hydrogen delivery pressure	30 bar_g (435 psi_g) without a compressor	
Hydrogen quality	99.998% (dry basis), max impurities: O_2 < 2 ppm, N_2 < 12 ppm	

We are Accelera
And we're on a mission to transition the world's most economically critical industries to zero-emissions power.

accelera™
by Cummins

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Scope of supply

Stack and balance-of-stack (BOS)	Indoor	Outdoor
Cell stacks and gas generation		●
Power rectifiers		●
Control panel		●
Water polishing system		●

●: included

Balance-of-plant (BOP)	Indoor	Outdoor
Rectifier cooling		●
Gas cooling		●
Electrolysis system cooling		●
Water purification system		●
Instrument air compressor		●
Hydrogen purification system		●

Technical specifications	HyLYZER® 400-30	HyLYZER® 500-30
Operating range	7-100%	
DC power consumption at stack*	51 kWh/kg	
System specific consumption*	53.4 kWh/kg	53.2 kWh/kg
Utilities required to operate the plant	Electrical power, potable water, nitrogen for purging	
Rectifier specifications	IGBT; 6 to 33kV; 50/60 Hz; 2.6 MVA; 97% efficiency	IGBT; 6 to 33kV; 50/60 Hz; 3.2 MVA; 97% efficiency
Auxiliary installed power	117 kVA	
Potable water consumption	13-17 L/kg hydrogen	
Total footprint (including maintenance area)	17 m x 13 m (221 m²)	
Installation environment	Outdoors -20°C to 40°C / -4°F to 104°F	

*At nominal capacity, Beginning of Life (BOL)

Applicable codes and standards Pressure Equipment Directive 2014/68/EU, Machinery Directive 2006/42/EC, Electro-Magnetic Compatibility 2014/30/EU, IEC 60079-10-1, NFPA 2, NFPA 497, National Electrical Code (NEC), ANSI/NFPA 70, ASME B37.3-2016, ASME Boiler and Pressure Vessel Code 2077, CSA C22.1 and C22.2, CSA B57 2079, CAN/BNQ 7784-000/2007, ISO22734, CE Declaration of Conformity.

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Learn more at **acceleraZero.com**