

HyAxiom PEM Electrolyzer products provide high power density and scalable technology that connect to renewable power resources to generate 100% green hydrogen

Flexible Operating Modes

Load following and demand following operating modes are available

Remote Monitoring & Control

Industry leading remote monitoring and data analytics maximize product efficiency and uptime

Modular & Scalable

Hydrogen and water processing equipment and installations that scale with application needs

SYSTEM HIGHLIGHTS

HYDROGEN PRODUCTION

H ₂ Production Rate	431.5 kg/day/MW (200 Nm ³ /hr at 0°C, 1 atm)
System Efficiency @ BOL	52.6 kWh/kg H ₂ (74.9% HHV)
H ₂ Product Purity	99.99+%
H ₂ Product Pressure	30 barg



OPERATING CHARACTERISTICS

Start Time from Standby.....	<5 mins
Ramp Time to Full Capacity	10 sec
Turndown Capability	<10%

ENVIRONMENTAL CHARACTERISTICS

Ambient Operating Temp	-20°C to 40°C (option for 50°C)
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WATER MANAGEMENT CHARACTERISTICS

Water Supply Quality.....	Potable Water
Water Consumption	<4.5 L/min/MW
Water Discharge	<1.6 L/min/MW

SITE ELECTRICAL INTERFACES

Supply Power	380V nom (transformer up to 35kV), 50/60 Hz
Power Quality	0.9 PF, <5% THD

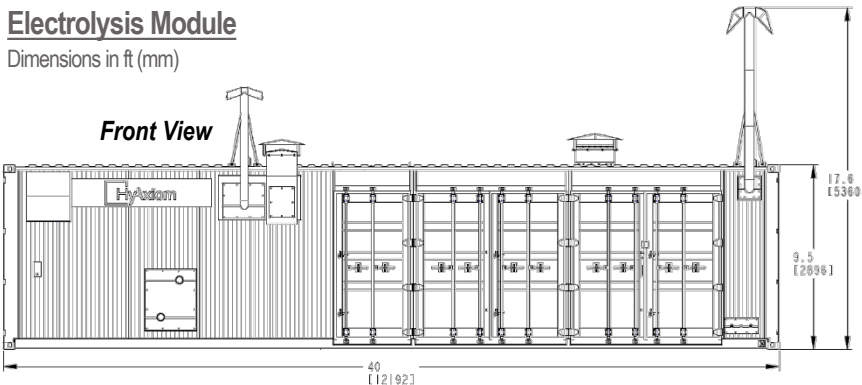
CODES AND STANDARDS

- ISO 22734: Hydrogen generators using water electrolysis
- ANSI/CSA B22734 (planned): Hydrogen generators using water electrolysis

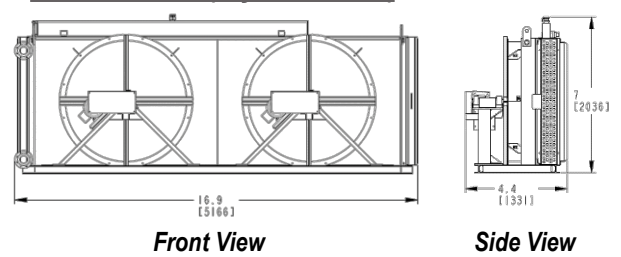
SYSTEM DIMENSIONS (1MW system-Please enquire about dimensions for larger scale configuration)

Electrolysis Module

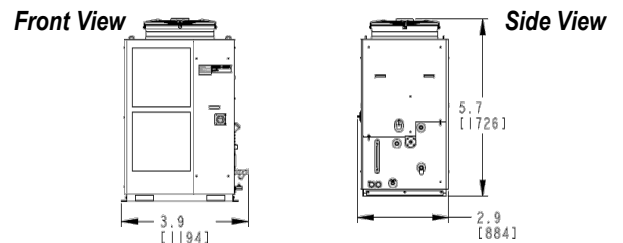
Dimensions in ft (mm)



Cooler Module (Glycol Coolant)



Chiller Module (Glycol Coolant)



Power Conditioning Hardware

Transformer	10.5 (3200) W x 4.7 (1422) L x 8.5 (2578) H
Rectifier	3.3 (1000) W x 5.4 (1635) L x 7.3 (2225) H
Switchgear	3 (914) W x 4 (1207) L x 7.6 (2324) H
DC Enclosure	3 (914) W x 1.1 (325) L x 6 (1829) H

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