

PURECELL SYSTEM BENEFITS

Energy Security

Proven PAFC fuel cell technology that is setting durability records

Energy Productivity

Increased efficiency and continuous on-site generation reduces energy costs

Energy Responsibility

No emissions equals sustainability

PURECELL SYSTEM COMPETITIVE ADVANTAGES

Long Life

Industry leading 10-year cell stack life assures high availability and low service cost

Modular & Scalable

Solutions for multi-megawatt applications to meet growing energy demand

Experience

60+ years of fuel cell development

High Efficiency

Up to 90% total CHP Efficiency

Small Footprint

Highest power density among clean generation technologies

Flexible Siting

Indoor, outdoor, rooftop, multi-unit

RATED POWER OUTPUT: 440KW, 480VAC, 60HZ

Characteristic	Units	Value ¹
Electric Power Output	kW/kVA	440/517
Electrical Efficiency	%, LHV	50
Peak Overall Efficiency	%, LHV	90
Hydrogen Purity, Minimum ²	%	99.9
Hydrogen Input	Energy	kW (MMBtu/h), HHV 1,039 (3.59)
	Volume ³	Nm ³ /h (SCFH) 295 (10,328)
	Mass	kg/h (lbs/h) 26.4 (58.1)
Heat Output @ up to 121°C (250°F)	kW (MMBtu/h)	352 (1.20)

FUEL

Supply..... Hydrogen Gas
Inlet Pressure⁴ 5 ± 0.25 bar(g)

EMISSIONS

Zero emissions of CO₂, NO_x, SO_x, CO, and VOCs. Heat output can offset additional CO₂ from combustion heat generation (e.g., boilers).

OTHER

Ambient Operating Temp Max Power -20°F to 104°F (-29°C to 40°C)⁵
Sound Level < 65 dBA @ 33 ft. (10m)
Water Consumption None



Daesan Green Energy Project
50 MW | 114 Units | South Korea

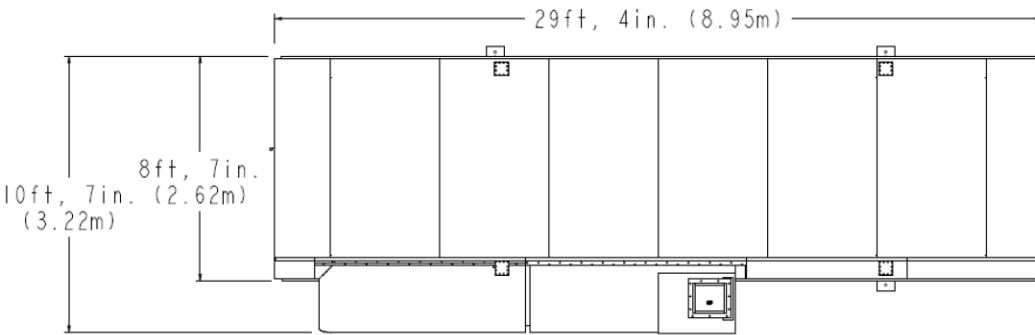
NOTES

1. Average performance during 1st year of operation. Refer to the Product Data and Applications Guide for performance over the operating life of the powerplant.
2. Contact HyAxiom for requirements on other gas constituents or for lower purity H₂.
3. Based on Hydrogen gas higher heating value of 343 Btu / SCF (12.8 MJ/Nm³).
4. Contact HyAxiom for lower inlet pressures.
5. Derate at ambient temperatures outside of specified range. Contact HyAxiom for details.

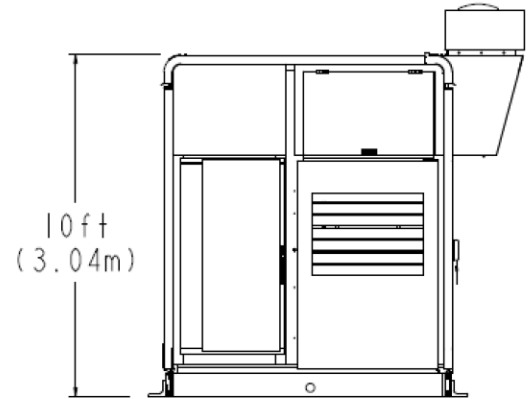
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SYSTEM DIMENSIONS

Power Module

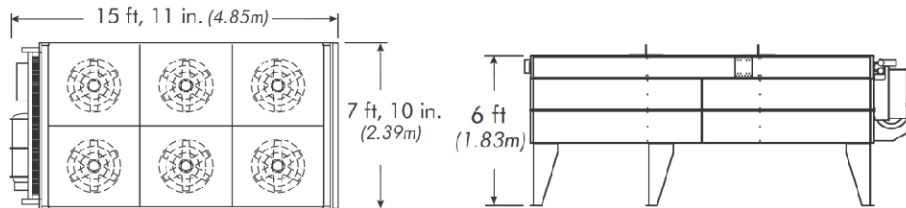


Top View



Side View

Cooling Module



Top View

Side View

PHYSICAL SPECIFICATIONS

	Power Module	Cooling Module
Length	29' 4" (8.95m)	15' 11" (4.85m)
Width	8' 7" (2.62m)	7' 10" (2.39m)
Height	10' 0" (3.04m)	6' 0" (1.83m)
Weight	49,428 lb (22,420 kg)	3,190 lb (1,447 kg)

Typical outdoor applications require a 30' x 40' area, including for customer interface equipment. Larger installations typically require less area for subsequent units.

PureCell® ADVANTAGE

Take Control of Your Power



Load Following

Dynamically ramp power up & down based on demand



Continuous Operation

Operate with or without grid power and handle long-duration intermittency



Performance Monitoring

Manage performance with HyAxiom monitoring and service

Advance ESG Goals



Zero-Carbon

Zero CO₂ emissions helps you achieve challenging carbon footprint goals



Clean Heat

Eliminate or reduce carbon from combustion boilers by using both heat & power



Clean Air

- Zero NO_x & SO_x
- Zero CO
- Zero VOCs

Power Where You Need It



Flexible Siting

- Indoor / Outdoor
- Urban Environments
- Multi-story, Rooftop
- Scalable Building Block



Quiet Operation

65 dBA @ 33 ft., equivalent to normal conversation

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