

PURECELL SYSTEM BENEFITS

Energy Security

Proven PAFC fuel cell technology

Energy Productivity

Increased efficiency and continuous on-site generation reduces energy costs

Energy Responsibility

Ultra-low emissions equals sustainability

PURECELL SYSTEM COMPETITIVE ADVANTAGES

Long Life

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

Modular & Scalable

Solutions for multi-megawatt applications to meet growing energy demand

Experience

Most knowledgeable and experienced team in the industry

Small Footprint

Highest power density among clean generation technologies

Flexible Siting

Indoor, outdoor, rooftop, multi-unit

High Efficiency

Up to 90% total CHP Efficiency

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

Characteristic	Units	Performance	
		NG Fuel	LPG Fuel
Electric Power Output ¹	kW/kVA	440/489	440/489
Electrical Efficiency ¹	%, LHV	44%	42%
Peak Overall Efficiency	%, LHV	90%	90%
Gas Consumption ¹	kW (MMBTU/h), HHV	1120 (3.8)	1144 (3.9)
Gas Consumption ^{1,2}	Nm ³ /h (SCFH)	107 (3778)	43 (1524)
High Grade Heat Output ³ (up to 121°C)	kW (MMBTU/h)	350 (1.19)	369 (1.26)

FUEL

Supply..... Natural Gas / Liquefied Petroleum Gas
Inlet Pressure10 to 14 in. water (25 – 35 mbar)

EMISSIONS^{3,4}

NO_x0.02 lbs/MWh (0.009 kg/MWh)
CO 0.01 lbs/MWh (0.005 kg/MWh)
VOC 0.01 lbs/MWh (0.005 kg/MWh)
SO_xNegligible
Particulate Matter Negligible
CO₂ (electric only) 1,006 lbs/MWh (456 kg/MWh)
(with High-Grade heat recovery) 567 lbs/MWh (257 kg/MWh)
(with full heat recovery) 485 lbs/MWh (225 kg/MWh)

OTHER

Ambient Operating Temp -20°F to 104°F (-29°C to 40°C)
Relative Humidity..... 0 to 95% (non-condensing)
Sound Level <65 dBA @ 33 ft. (10m)
Water Consumption None (up to 86°F (30°C) Ambient Temp)
Water Discharge None (Normal Operating Conditions)

NOTES

1. Average performance during 1st year of operation. Subject to change depends on site conditions (fuel quality, ambient temperature and altitude) and operation years.
2. Based on methane lower heating value of 50.048 MJ/kg and 46.330 MJ/kg for propane. All calculations are based on consumption of pure methane or propane at standard conditions.
3. Subject to change depends on inlet water temperature and flow rate.
4. Natural gas mode emissions

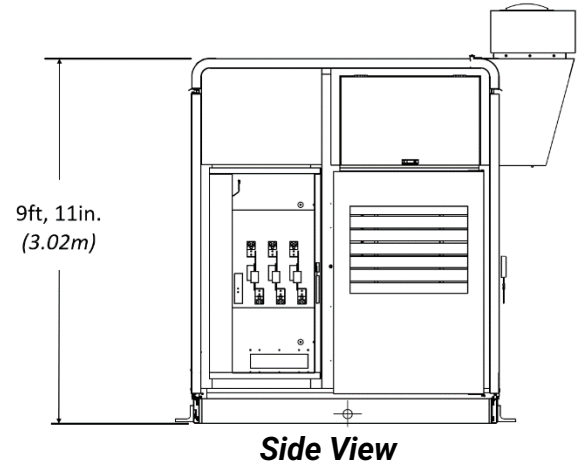
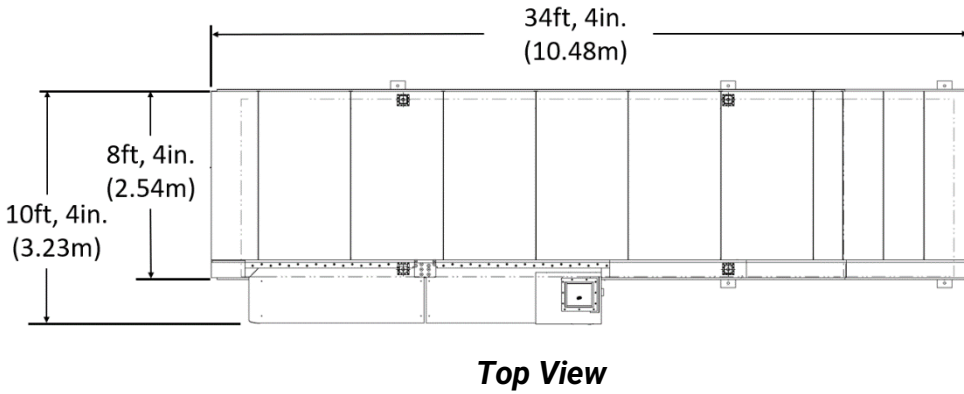


HyAxiom, Inc.

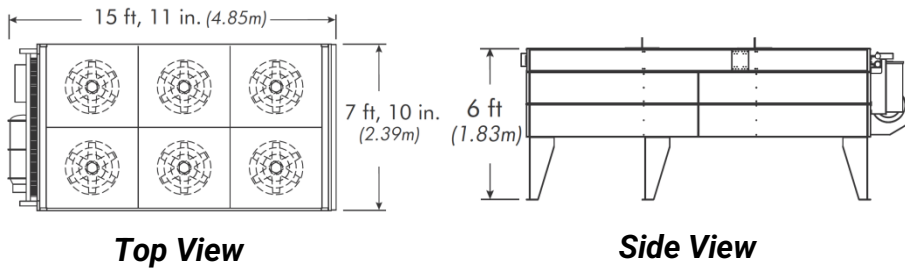
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SYSTEM DIMENSIONS

Power Module



Cooling Module



PHYSICAL SPECIFICATIONS

	Power Module	Cooling Module
Length	34' 4" (8.74m)	15' 11" (4.85m)
Width	8' 4" (2.54m)	7' 10" (2.39m)
Height	9' 11" (3.02m)	6' 0" (1.83m)
Weight	64500 lbs (29,264 kg)	3,190lb (1,447 kg)

PURECELL ADVANTAGE

Installed capacity

Capacity Factor

Annual power generation

