

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 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

High Efficiency

Up to 90% total CHP Efficiency

Grid-Independence

Proven performance delivering power when the utility grid fails

Load Following

Capable of dispatching power to match building needs

Small Footprint

Highest power density among clean generation technologies

Flexible Siting

Indoor, outdoor, rooftop, multi-unit

RATED POWER OUTPUT: 460KW, 480VAC, 60HZ

Characteristic	Units	Operating Mode	
		No H ₂ HP	Max H ₂
Electric Power Output ¹	kW/kVA	460/532	350/412
Electrical Efficiency ¹	%, LHV	43.5%	30.4%
Peak Overall Efficiency	%, LHV	90%	85%
Gas Consumption ¹	MMBtu/h, HHV (kW)	4.00 (1,172)	4.35 (1274)
Gas Consumption ^{1,2}	SCFH (Nm ³ /h)	3902 (104)	4241 (113.5)
High Grade Heat Output ^{1,7}	MMBtu/h (kW)	1.30 (382)	0.84 (248)
Low Grade Heat Output @ up to 140°F ^{1,6}	MMBtu/h (kW)	1.68 (492)	1.10 (323)
Hydrogen Production	kg/day	0	220

FUEL

Supply..... Natural Gas
Inlet Pressure 10 to 14 in. water (2.5 - 3.5 mbar)

EMISSIONS^{3,4}

NO_x 0.02 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_x..... Negligible
Particulate Matter..... Negligible
CO₂¹ (electric only) 1,006 lbs/MWh (456 kg/MWh)
(with High-Grade heat recovery) 567 lbs/MWh⁵ (257 kg/MWh)
(with full heat recovery) 496 lbs/MWh⁵ (225 kg/MWh)

OTHER

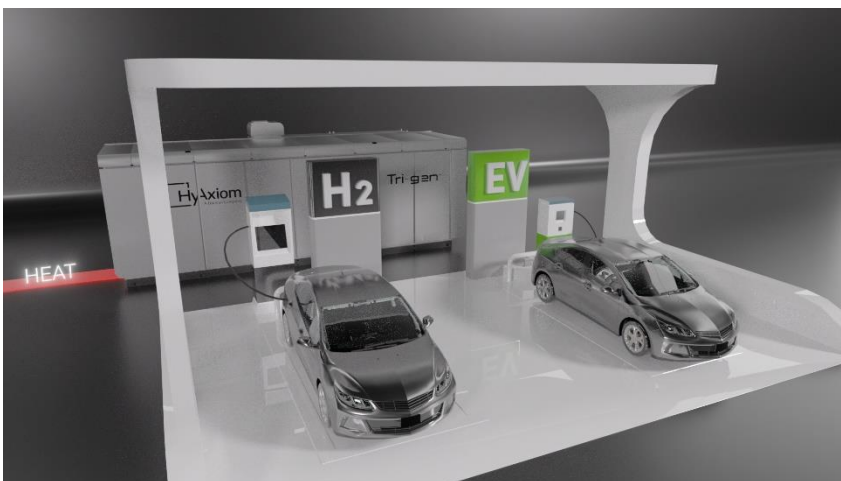
Ambient Operating Temp -20°F to 104°F (-29°C to 40°C)
Sound Level <65 dBA @ 33 ft. (10m)
Water Consumption None (up to 86°F (30°C) Ambient Temp.)
Water Discharge None (Normal Operating Conditions)

CODES AND STANDARDS

UL1741 SA: Inverters for Use With Distributed Energy Resources

NOTES

1. Average performance during 1st year of operation.
2. Based on natural gas higher heating value of 1025 Btu/SCF (40.4 MJ/Nm³)
3. Emissions based on 460 kW NG mode
4. Fuel cells are exempt from air permitting in many U.S. states.
5. Includes CO₂ emissions savings due to reduced on-site boiler gas consumption.
6. With optional equipment and HGH not used
7. Consult with HyAxiom for heat output at varying conditions

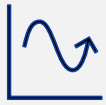


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PureCell® ADVANTAGE

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



Carbon Removal

Ability to be coupled with your carbon capture equipment to limit emissions



Clean Heat

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



Clean Air

Minimal NO_x & Zero So_x
Removes PM2.5 from the air

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*



Flexible Fueling Options

Variable H₂ and electricity generation on site for changing fueling demands

*Power module operation

Tri-Gen & Charge Station Configuration

Improved one-stop convenience for FCA/EV charging
Enhance power system reliability
Shortening hydrogen transfer distance to improve transmission and distribution/efficiency

Mode	Hydrogen	Electric	Max HGH Available
Max. H ₂	220 kg/day	350 kW	0.7 MMBtu/hr
Medium. H ₂	150 kg/day	400 kW	0.9 MMBtu/hr
Minimum. H ₂	70 kg/day	440 kW	1.1 MMBtu/hr
Zero. H ₂	0 kg/day	460 kW	1.3 MMBtu/hr

