

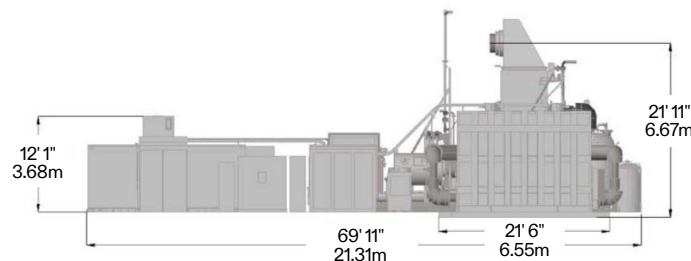
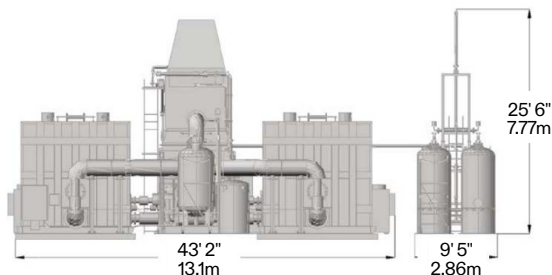
# 3000

## Carbonate Fuel Cell Power Plant



# Background

Designed for a range of on-site power applications, FuelCell Energy's 3000 plants generate 2.8 MW of reliable, efficient, and ultra-clean power. On-site power can maximize a site's production uptime by avoiding costly outages. The plant's electrochemical process results in electricity, heat, and water, with the ability to recycle CO<sub>2</sub> into a valuable product. Operating from a compact footprint, the 3000 is ideal for sites with limited space and can combine with more modules to meet higher power demands. The system operates at high temperatures and can use its own heat to increase overall efficiency. The quiet and combustion-free process emits water, not pollutants, supporting a customer's net zero goals.



Specifications subject to change without notice.

## System Data

Power @ Plant Rating \_\_\_\_\_ 2800 kW  
Standard Output AC Voltage \_\_\_\_\_ 13,800 V  
Standard Frequency \_\_\_\_\_ 60 Hz  
Optional Output AC Voltages \_\_\_\_\_ By Request  
Optional Output Frequency \_\_\_\_\_ 50 Hz  
Sound Level \_\_\_\_\_ 72 dB(A) at 10 Feet

## Fuel Consumption

Natural Gas (at 930 Btu/ft<sup>3</sup> LHV) \_\_\_\_\_ 364 scfm  
Heat Rate (at 930 Btu/ft<sup>3</sup> LHV) \_\_\_\_\_ 7,260 Btu/kWh

## Water

Consumption Average \_\_\_\_\_ 9 gpm  
Discharge Average \_\_\_\_\_ 4.5 gpm  
Discharge Peak During WTS Backflush \_\_\_\_\_ 30 gpm

## Heat

Exhaust Temperature \_\_\_\_\_ 700 +/- 50 °F  
Exhaust Flow \_\_\_\_\_ 36,600 lb/h  
Allowable Backpressure \_\_\_\_\_ 5 iwc  
Energy for Recovery to 250 °F \_\_\_\_\_ 4,433,000 Btu/h  
Energy for Recovery to 120 °F \_\_\_\_\_ 7,460,000 Btu/h

## Efficiency

Initial Operation LHV \_\_\_\_\_ Approximately 47 +/- 2%

## Emissions

NO<sub>x</sub> \_\_\_\_\_ 0.01 lb/MWh  
SO<sub>x</sub> \_\_\_\_\_ 0.05g/MWh  
PM<sub>10</sub> \_\_\_\_\_ 0.009g/MWh  
CO<sub>2</sub> \_\_\_\_\_ 980 lb/MWh  
CO<sub>2</sub> (with waste heat recovery) \_\_\_\_\_ 520 - 680 lb/MWh

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