



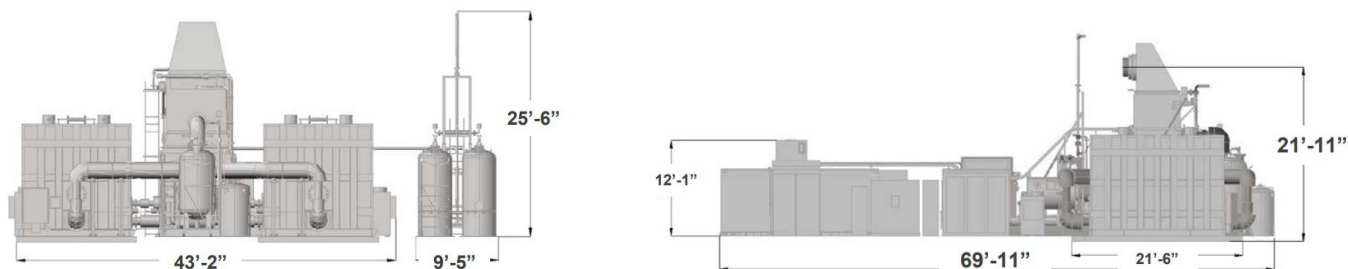
3000

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 CO₂ 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 _____ 60Hz
 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/ft³) _____ 362 scfm
 Heat Rate, 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_x _____ 0.01 lb/MWh
 SO_x _____ 0.0001 lb/MWh
 PM10 _____ 0.00002 lb/MWh
 CO₂ _____ 980 lb/MWh
 CO₂ (with waste heat recovery) _____ 520 - 680 lb/MWh

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