

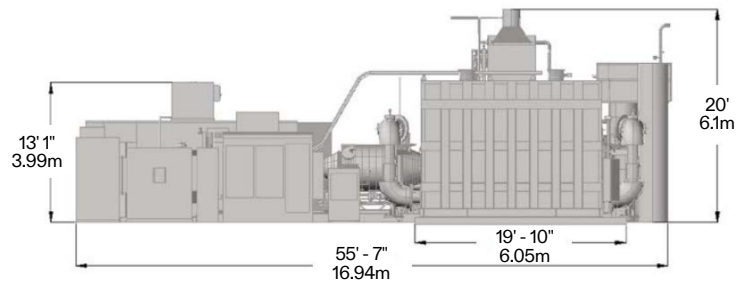
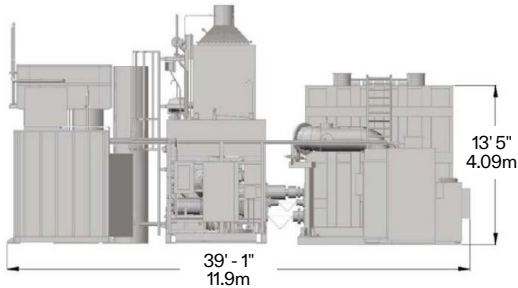
1500

Carbonate Fuel Cell Power Plant



Background

Designed for a range of on-site power applications, FuelCell Energy's 1500 plant generates 1.4 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 1500 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 _____ 1400 kW
Standard Output AC Voltage _____ 480 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/ft³ LHV) _____ 182 scfm
Heat Rate (at 930 Btu/ft³ _____ 7,260 Btu/kWh

Water

Consumption Average _____ 4.5 gpm
Discharge Average _____ 2.25 gpm
Discharge Peak During WTS Backflush _____ 15 gpm

Heat

Exhaust Temperature _____ 700 +/- 50 °F
Exhaust Flow _____ 18,300 lb/h
Allowable Backpressure _____ 5 iwc
Energy for Recovery to 250 °F _____ 2,216,000 Btu/h
Energy for Recovery to 120 °F _____ 3,730,000 Btu/h

Efficiency

Initial Operation LHV _____ Approximately 47 +/- 2%

Emissions

NO_x _____ 0.01 lb/MWh
SO_x _____ 0.05g/MWh
PM₁₀ _____ 0.009g/MWh
CO₂ _____ 980 lb/MWh
CO₂ (with waste heat recovery) _____ 520 - 680 lb/MWh

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