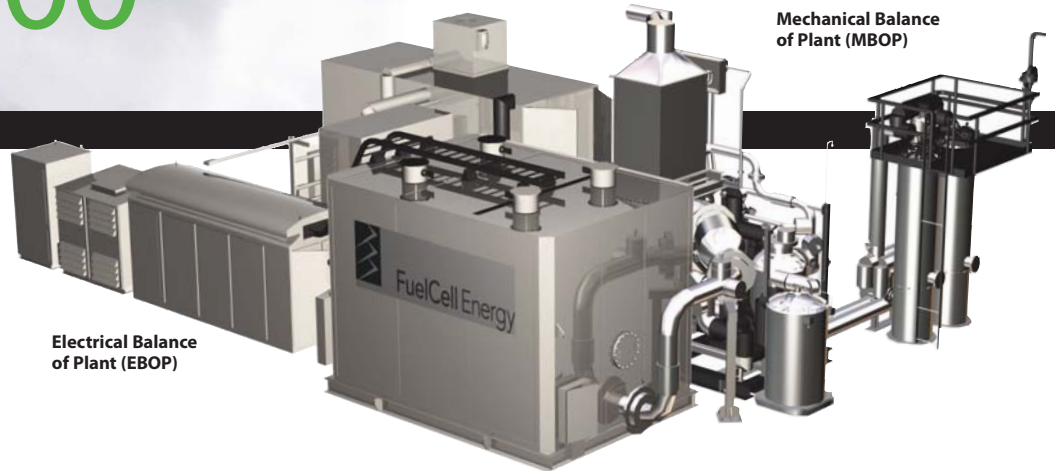




FuelCell Energy

Ultra-Clean, Efficient, Reliable Power

DFC1500



Key Features

- High Efficiency
- Low Environmental Impact
- Fuel Flexibility
- High Reliability
- Quiet Operation

Advantages

The DFC1500™ stationary fuel cell power plant from FuelCell Energy provides high-quality, Ultra-Clean electrical power with 47% efficiency 24/7. Designed for commercial and industrial applications, the system offers easy transport, quiet and reliable operation, and easy site planning and regulatory approval. The DFC1500 is ideal for wastewater treatment plants, manufacturing, food and beverage processing, large hotels, hospitals, and universities.

Performance

Power Output

Power @ Plant Rating	1,400 kW
Standard Output AC Voltage	480 V
Standard Frequency	60 Hz
Optional Output AC Voltages	460, 440, 420, 400, 380 V
Optional Output Frequency	50 Hz

Efficiency

LHV	47 +/- 2 %
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Available Heat

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

Fuel Cell Module

**1.4 MW, 480 VAC,
1,550 kVA, 50 or 60 Hz**

Fuel Consumption

Natural gas (at 930 Btu/ft ³)	181 scfm
Heat rate, LHV	7,260 Btu/kWh

Water Consumption

Average	4.5 gpm
Peak during WTS backflush	15 gpm

Water Discharge

Average	2.25 gpm
Peak during WTS backflush	15 gpm

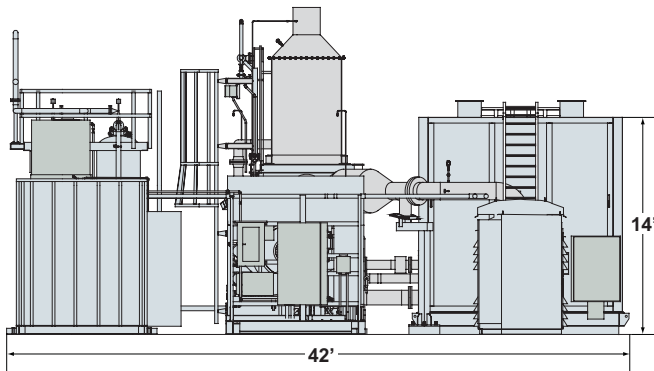
Pollutant Emissions

NOx	0.01 lb/MWh
SOx	0.0001 lb/MWh
PM10	0.00002 lb/MWh

Greenhouse Gas Emissions

CO ₂	980 lb/MWh
CO ₂ (with waste heat recovery)	520-680 lb/MWh

Specifications



Weights

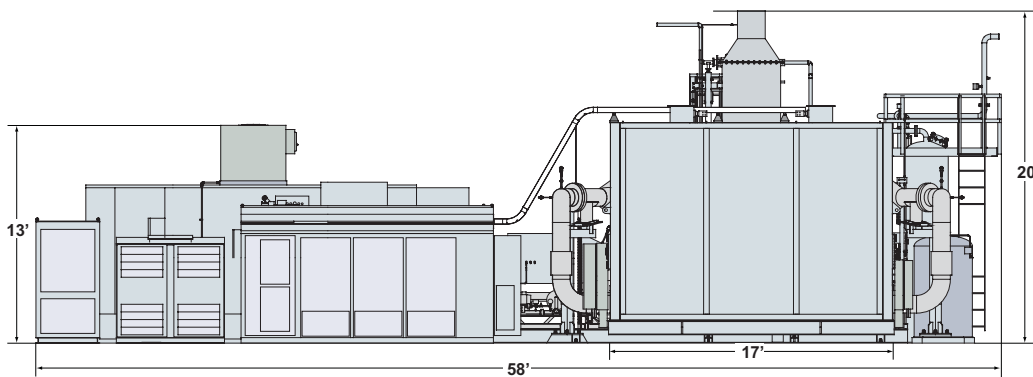
Water Treatment Skid
20,000 lb

Main Process Skid
50,000 lb

Desulfurization
15,000 lb

Electrical Balance of Plant
50,000 lb

Fuel Cell Module
107,000 lb



Experience & Capabilities

With 40 years of experience, FuelCell Energy is recognized as a world leader in the development, manufacture, and commercialization of fuel cells for stationary electric power generation. The result of years of research and the investment of more than \$530 million, our patented, carbonate Direct FuelCell products have generated more than 340 million kilowatt hours of electrical energy to date at more than 50 locations worldwide.

This brochure provides a general overview of FuelCell Energy products and services. This brochure is provided for informational purposes only. Warranties for FuelCell Energy products and services are provided only by individual sales and service contracts, and not by this brochure. This brochure is not an offer to sell any FuelCell Energy products and services. Contact FuelCell Energy for detailed product information suitable for your specific application. FuelCell Energy reserves the right to modify its products, services, and related information at any time without prior notice.

FuelCell Energy's fleet of Direct FuelCell power plants are certified to or comply with a variety of commercial and industrial standards: ANSI/CSA America FC-1, UL 1741, CARB 2007, OSHA 29 CFR Part 1910, IEEE 1547, NFPA 70, NFPA 853, and California Rule 21.

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