

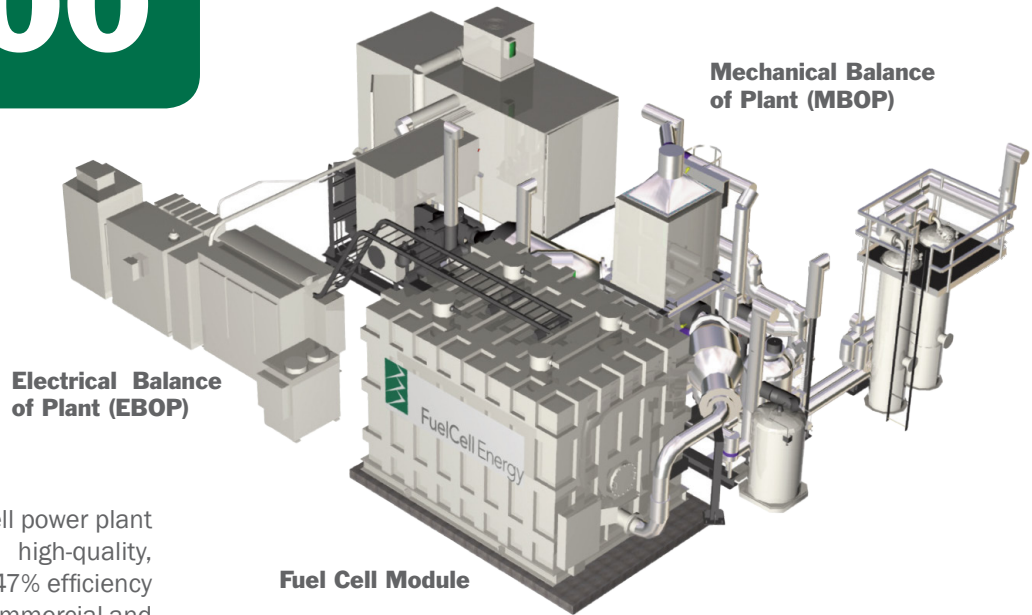
1.4 MEGAWATTS DFC1500

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 around-the-clock. Designed for commercial and industrial applications, the system offers easy transport, quiet and reliable operation, and simple site planning and regulatory approval. The DFC1500 is ideal for wastewater treatment plants, manufacturing, food and beverage processing, universities and office campuses.



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

PERFORMANCE

Gross Power Output

Power @ Plant Rating	1,400 kW
Standard Output AC voltage	480 V
Standard Frequency	60 Hz
Optional Output AC Voltages	By Request
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 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

Sound Level

Standard	72 dB(A) at 10 feet
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FuelCell Energy

Ultra-Clean, Efficient, Reliable Power

SPECIFICATIONS

DFC1500

WEIGHTS

Water Treatment Skid

20,000 lb

Main Process Skid

50,000 lb

Desulfurization

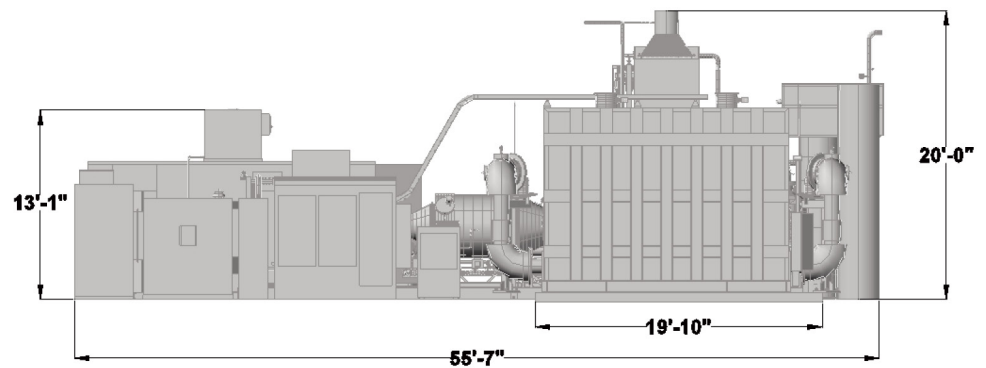
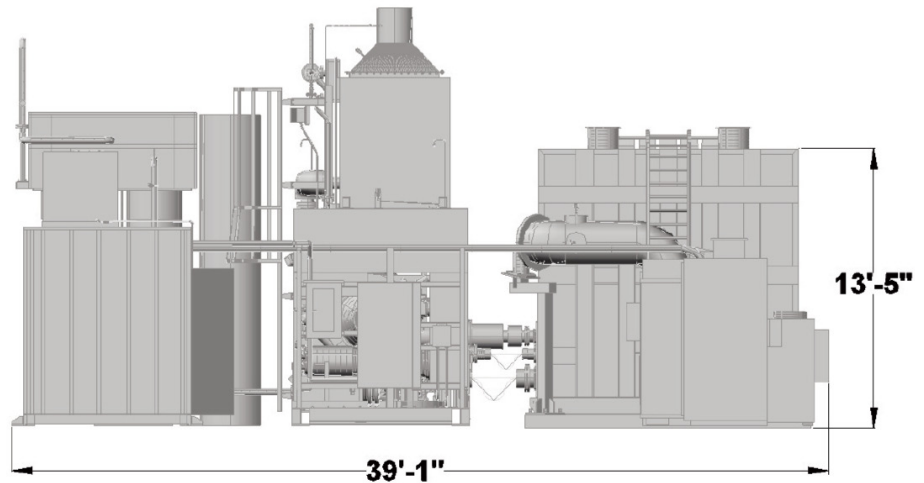
15,000 lb

Electrical Balance of Plant

26,500 lb

Fuel Cell Module

107,000 lb



EXPERIENCE & CAPABILITIES

Direct FuelCell® power plants are generating ultra-clean, efficient and reliable power at more than 50 locations worldwide. With more than 300 megawatts of power generation capacity installed or in backlog, FuelCell Energy is a global leader in providing ultra-clean baseload distributed generation to utilities, industrial operations, universities, municipal water treatment facilities, government installations and other customers around the world. The Company's power plants have generated more than 1.7 billion kilowatt hours of ultra-clean power using a variety of fuels including renewable biogas from wastewater treatment and food processing, as well as clean natural gas.

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FuelCell Energy's fleet of Direct FuelCell power plants are certified to or comply with a variety of commercial and industrial standards, such as: ANSI/CSA America, UL, CARB, OSHA, IEEE and NFPA.

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