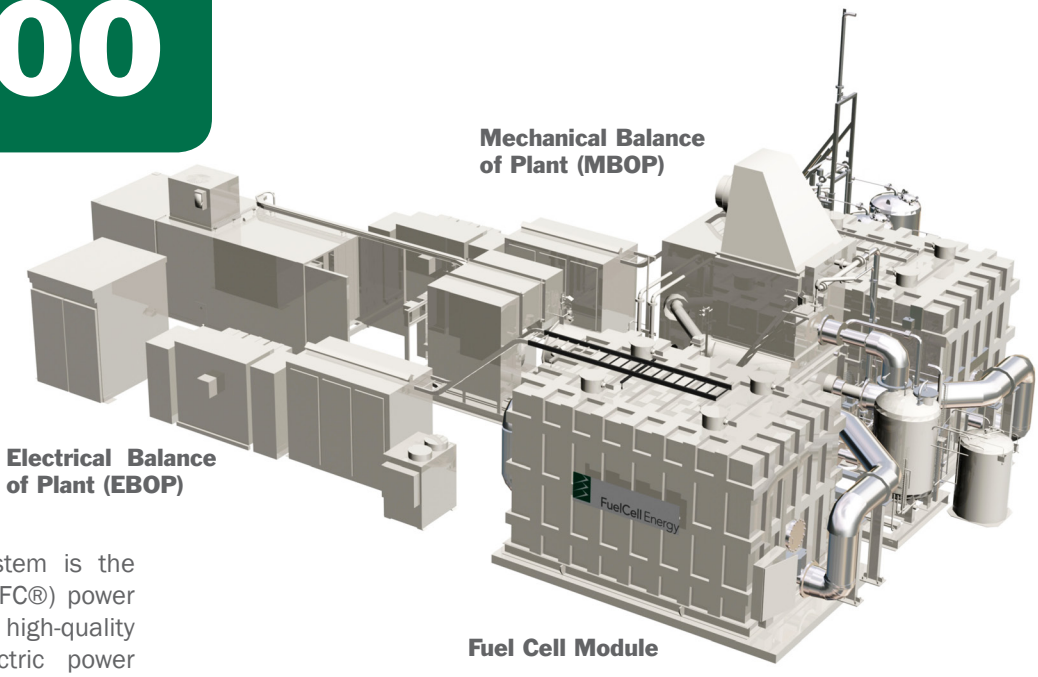
2.8 MEGAWATTS DFC3000

KEY FEATURES

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



2.8 MW, 13.8 kVAC, 3,110 kVA, 50 or 60 Hz

ADVANTAGES

FuelCell Energy's DFC3000™ system is the largest of the Direct FuelCell® (DFC®) power plant fleet, capable of providing high-quality baseload power with 47% electric power generation efficiency around-the-clock. Scalable for Multi-Megawatt Fuel Cell Parks, the system is especially suitable for applications with larger load requirements such as universities, manufacturing facilities, wastewater treatment plants, and utility/grid support.

PERFORMANCE

Gross Power Output	
Power @ Plant Rating	2,800 kW
Standard Output AC voltage	13,800 V
Standard Frequency	60 Hz
Optional Output AC Voltages	By Request
Optional Output Frequency	50 Hz
Efficiency	
LHV	47 +/- 2 %
Available Heat	
Exhaust Temperature	700 +/- 50 °F
Exhaust Flow	36,600 lb/h
Allowable Backpressure	5 iwc
Heat Energy Available for Recovery	
(to 250 °F)	4,433,000 Btu/h
(to 120 °F)	7,460,000 Btu/h
Fuel Consumption	
Natural gas (at 930 Btu/ft^3)	362 scfm
Heat rate, LHV	7,260 Btu/kWh

Water Consumption	
Average	9 gpm
Peak during WTS backflush	30 gpm
Water Discharge	
Average	4.5 gpm
Peak during WTS backflush	30 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

FuelCell Energy

Ultra-Clean, Efficient, Reliable Power

SPECIFICATIONS

DFC3000

WEIGHTS

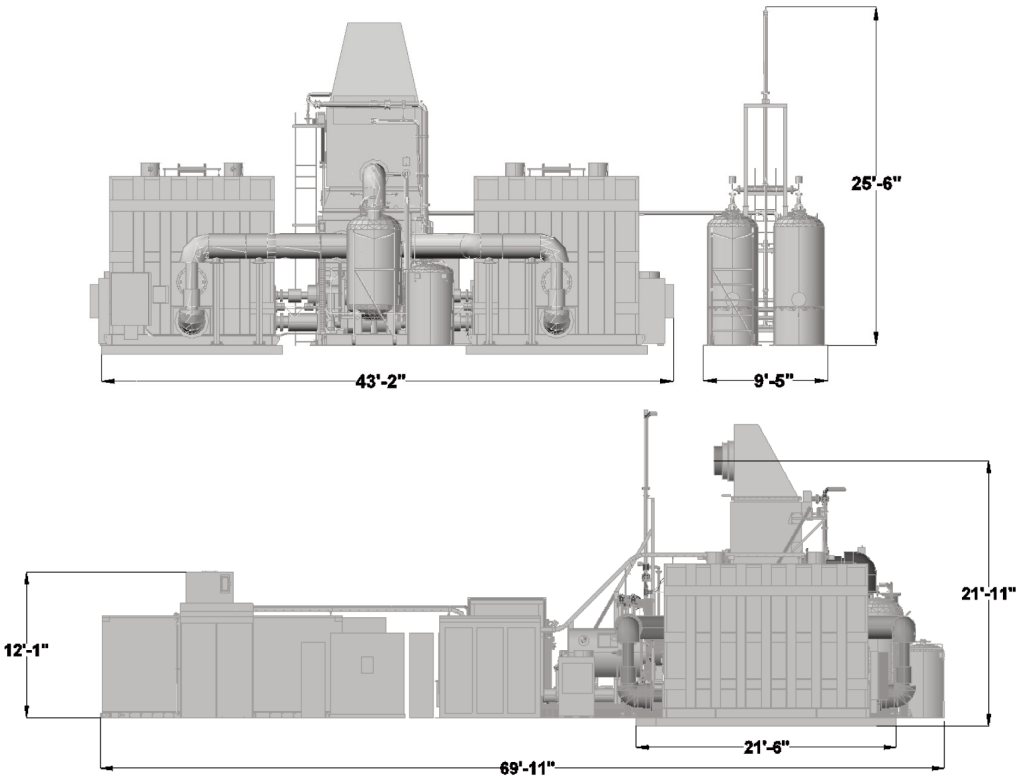
Water Treatment Skid
20,000 lb

Main Process Skid
50,000 lb

Desulfurization
15,000 lb

Electrical Balance of Plant
52,000 lb

Fuel Cell Module
107,000 lb *(each module)*



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.

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 conracts, 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, such as: ANSI/CSA America, UL, CARB, OSHA, IEEE and NFPA.

FuelCell Energy
Ultra-Clean, Efficient, Reliable Power

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