

UTC Power is a world leader in developing and producing fuel cells for on-site power, transportation, space and defense applications. UTC Power, a United Technologies Corp. company, is the only fuel cell manufacturer with experience in all five major fuel cell technologies – alkaline, proton exchange membrane, solid oxide, molten carbonate and phosphoric acid. With more than 300 stationary fuel cell units installed, we are committed to providing customers with distributed energy solutions that increase energy productivity and reliability and reduce operational costs.

The PureCell® Model 400 system is the stationary fuel cell energy solution for the commercial marketplace. The ultra clean and quiet Model 400 uses proven phosphoric acid technology, which offers the optimum blend of system performance and durability. The Model 400 can provide up to 400 kW of assured electrical power, plus approximately 1.5 million Btu/hour (450 kW) of heat, for combined heat and power applications. With an unmatched 10-year stack life and total energy efficiencies more than double those of traditional power sources, the Model 400 is an energy solution that will help save money, shield operations from interruption and secure environmentally sustainable business practices.

Performance Characteristics*

● **Power**

Electric power	400 kW/471 kVA
Voltage/frequency	480VAC/60 Hz/3 phase

● **Efficiency**

Electrical (LHV)	42%
Overall (LHV)	90% with full heat recovery

● **Fuel**

Supply	Natural gas
Consumption (HHV)	3.61 MMBtu/hr (1,058 kW)
Inlet pressure	10 to 14 in. water (2.5 to 3.5 kPa)

● **Heat Recovery**

Low grade up to (140°F supply) [†]	0.96 MMBtu/hr (281 kW)
High grade up to (250°F supply) [†]	0.59 MMBtu/hr (174 kW)

● **Emissions****

NO _x	0.02 lb/MWh (0.009 kg/MWh)
CO	0.02 lb/MWh (0.009 kg/MWh)
CO ₂	1,050 lb/MWh (477 kg/MWh) with no heat recovery 487 lb/MWh (221 kg/MWh) with full heat recovery
SO _x	Negligible
Particulate matter	Negligible
VOCs	0.02 lb/MWh (0.009 kg/MWh)

● **Water**

Consumption	None (up to 85°F (30°C) ambient)
Discharge	None (normal operating conditions)

● **Other**

Noise	<65 dBA at 33 ft (10m) with no heat recovery <60 dBA at 33 ft (10m) with full heat recovery
Operating life	20 yr
Overhaul interval	10 yr
Ambient operating temperature	-20°F to 113°F (-29°C to 45°C)

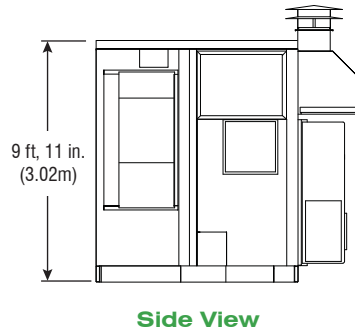
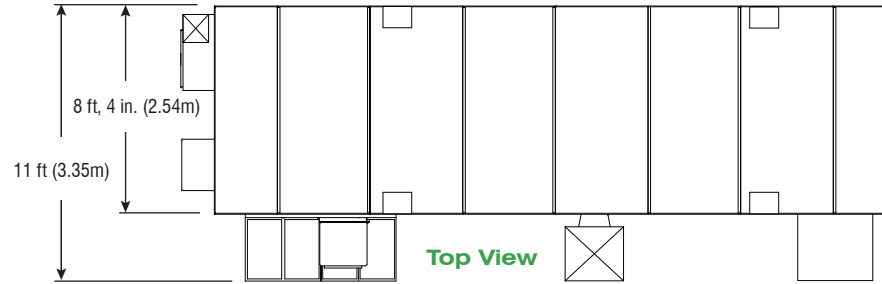
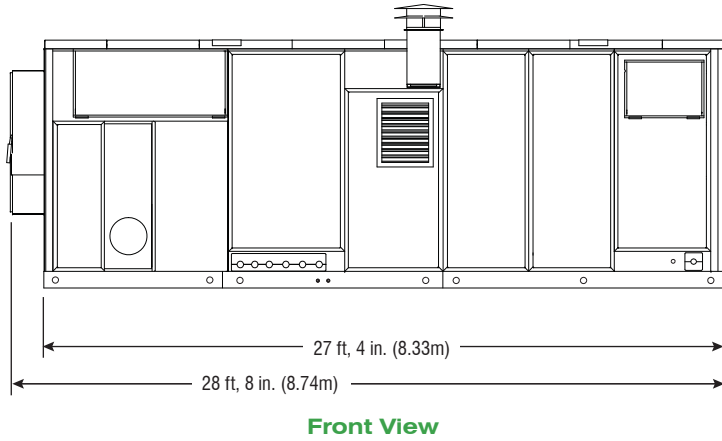


PureCell®
energy
Reinvented

*Average performance during 1st year of operation. Refer to the Product Data and Applications Guide for additional performance characteristics. **Certified to 2007 California Air Resources Board standards. [†]Low-grade heat assumes a return temperature of 80°F (27°C) or lower; high-grade heat assumes a return temperature of 200°F (93°C) or lower.

Physical Characteristics

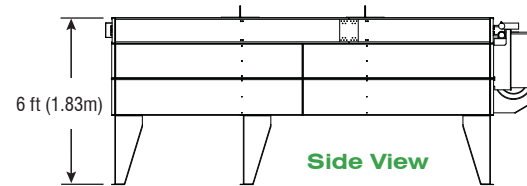
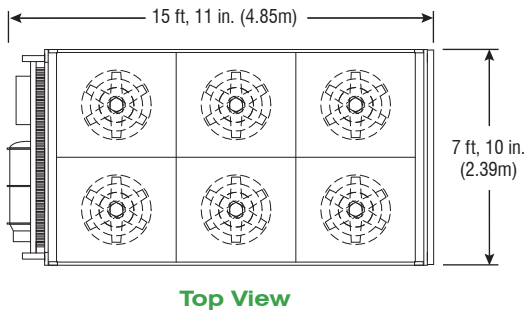
● Power Module



● Shipping Dimensions

Length:	28 ft, 8 in. (8.74m)
Width:	8 ft, 4 in. (2.54m)
Height:	9 ft, 11 in. (3.02m)
Weight:	60,000 lb (27,216kg)

● Cooling Module



● Shipping Dimensions

Length:	15 ft, 11 in. (4.85m)
Width:	7 ft, 10 in. (2.39m)
Height:	6 ft (1.83m)
Weight:	3,190 lb (1,447kg)

The manufacturer reserves the right to change or modify, without notice, the design or equipment specifications without incurring any obligation either with respect to equipment previously sold or in the process of construction. The manufacturer does not warrant the data on this document. Warranted specifications are documented separately.