

C30 MicroTurbine Liquid Fuels



Achieve lower emissions and reliable electrical generation with diesel, kerosene or bio-diesel fuel.

- Ultra-low emissions
- One moving part: Minimal maintenance and downtime
- Patented air bearing: No lubricating oil or coolant
- 5 and 9 year Factory Protection Plans available
- Remote monitoring and diagnostic capabilities
- Integrated utility synchronization and protection⁽¹⁾
- Small, modular design allows for easy, low-cost installation and easy transportation
- Reliable: Tens of millions of run hours and counting
- Portable units available



C30 MicroTurbine

Electrical Performance⁽²⁾

Electrical Power Output	29 kW
Voltage	400 to 480 VAC
Electrical Service	3-Phase, 4 wire
Frequency	50/60 Hz, grid connect operation 10-60 Hz, stand alone operation
Maximum Output Current	46A, grid connect operation 54A, stand alone operation ⁽³⁾
Electrical Efficiency LHV	25%

Fuel/Engine Characteristics⁽²⁾

Liquid Fuels ⁽⁴⁾	Diesel (ASTM D975-07b Grade Low Sulfur No. 1-D, 2-D) Bio Diesel Aviation (ASTM D1655 Jet-A, MIL-DTL-83133E JP-8, MIL-DTL-5624U JP-5) Kerosene (ASTM D3699 1-K, JIS K2203)
Inlet Pressure	-34.5 to 34.5 kPa gauge (-5 to +5 psig)
Fuel Flow HHV	459 MJ/hr (435,000 BTU/hr)
Net Heat Rate LHV	14.4 MJ/kWh (13,700 BTU/kWh)

Exhaust Characteristics⁽²⁾

NOx Emissions @ 15% O ₂ ⁽⁵⁾	35 ppmvd (72 mg/m ³)
NOx / Electrical Output ⁽⁵⁾	0.9 g/bhp-hr (2.6 lb/MWhe)
Exhaust Gas Flow	0.31 kg/s (0.69 lbm/s)
Exhaust Gas Temperature	275°C (530°F)

Reliable power when and where you need it. Clean and simple.

Dimensions & Weight⁽⁶⁾

Width x Depth x Height	0.76 x 1.5 x 1.9 m (30 x 60 x 77 in)
Weight – Grid Connect Model	405 kg (891 lb)
Weight – Dual Mode Model	578 kg (1,271 lb)

Minimum Clearance Requirements⁽⁷⁾

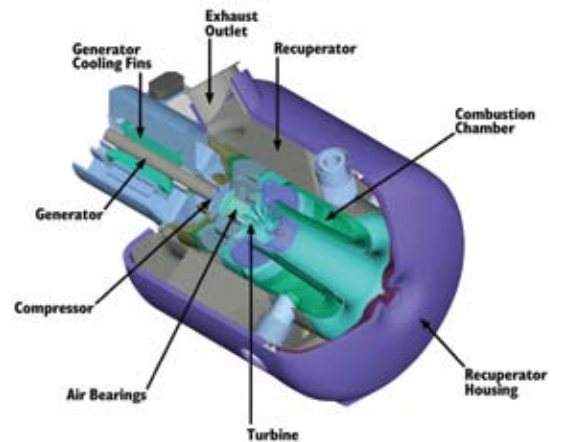
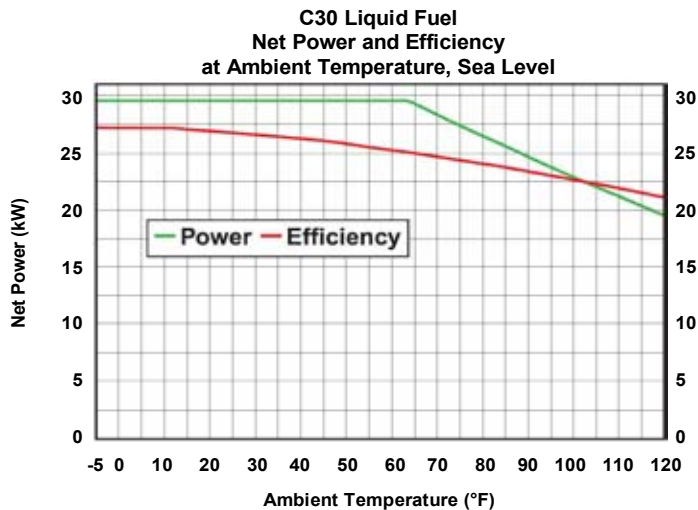
Vertical Clearance	0.61 m (24 in)
Horizontal Clearance	
Left & Right	0.76 m (30 in)
Front	0.93 m (37 in)
Rear	0.92 m (36 in)

Sound Levels

Acoustic Emissions at Full Load Power	
Nominal at 10 m (33 ft)	65 dBA

Certifications

- Models available with optional equipment for CE Marking



(1) Some utilities may require additional equipment for grid interconnectivity
 (2) Nominal full power performance at ISO conditions: 59°F, 14.696 psia, 60% RH
 (3) With linear load
 (4) Contact Capstone for additional possible fuels
 (5) For Diesel #2 according to ASTM D975-07b
 (6) Approximate dimensions and weights
 (7) Clearance requirements may increase due to local code considerations
 Specifications are not warranted and are subject to change without notice.

