

C30 MicroTurbine Oil & Gas



33% smaller than equivalent generators. Offers ultra-low emissions and reliable electrical generation from raw natural gas.

- Optimal UL Class 1, Division 2 or ATEX Class 1, Zone 2 certified
- Patented air bearing: No lubricating oil or coolant
- One moving part – minimal maintenance and downtime
- Ultra-low emissions
- Service network available worldwide
- Remote monitoring and diagnostic capabilities
- Multiple units easily synchronized
- Electrical protective relays mean no external switchgear required
- Small, modular design allows for easy, low-cost installation
- Reliable – tens of millions of run hours and counting
- Optional High Humidity protection available



C30 MicroTurbine



Offshore Hazardous Area

Electrical Performance⁽¹⁾

Electrical Power Output	30kW
Voltage	400–480 VAC
Electrical Service	3-Phase, 4 wire
Frequency	10–60 Hz, stand alone operation
Maximum Output Current	46A, stand alone operation ⁽²⁾
Electrical Efficiency LHV	26%

Fuel/Engine Characteristics⁽¹⁾

	Non-Hazardous Area Config.	Hazardous Area Config.
Natural / Wellhead Gas HHV	30.7–99.1 MJ/m ³ (825–2,516 BTU/scf)	30.7–99.1 MJ/m ³ (825–2,516 BTU/scf)
H ₂ S Content	< 70, 000 ppmv ⁽³⁾	< 70,000 ppmv
Inlet Pressure – HHV dependent	310–379 kPa gauge (45–55 psig)	310–379 kPa gauge (45–55 psig)
Fuel Flow HHV	457 MJ/hr (433,000 BTU/hr)	455 MJ/hr (432,000 BTU/hr)
Net Heat Rate LHV	13.8 MJ/kWh (13,100 BTU/kWh)	13.8 MJ/kWh (13,100 BTU/kWh)

Exhaust Characteristics⁽¹⁾

	Raw Natural Gas	Hazardous Area Config.
NOx Emissions @ 15% O ₂ ⁽⁴⁾	< 9 ppmvd (18 mg/m ³)	< 9 ppmvd (18 mg/m ³)
NOx / Electrical Output ⁽⁴⁾	0.22 g/bhp-hr (0.64 lb/MWhe)	0.22 g/bhp-hr (0.64 lb/MWhe)
Exhaust Gas Flow	0.31 kg/s (0.68 lbm/s)	0.32 kg/s (0.70 lbm/s)
Exhaust Gas Temperature	275°C (530°F)	275°C (530°F)

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

Dimensions & Weight⁽⁵⁾⁽⁶⁾

	Raw Natural Gas	Hazardous Area Config.
Width x Depth x Height	0.76 x 1.5 x 1.8 m (30 x 60 x 70 in)	0.87 x 2.9 x 2.2 m (35 x 112 x 85 in)
Weight	578 kg (1,271 lb)	1141 kg (2,511 lb)

Minimum Clearance Requirements⁽⁵⁾

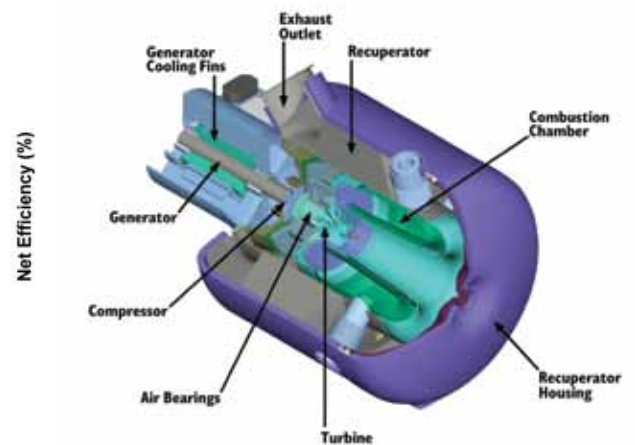
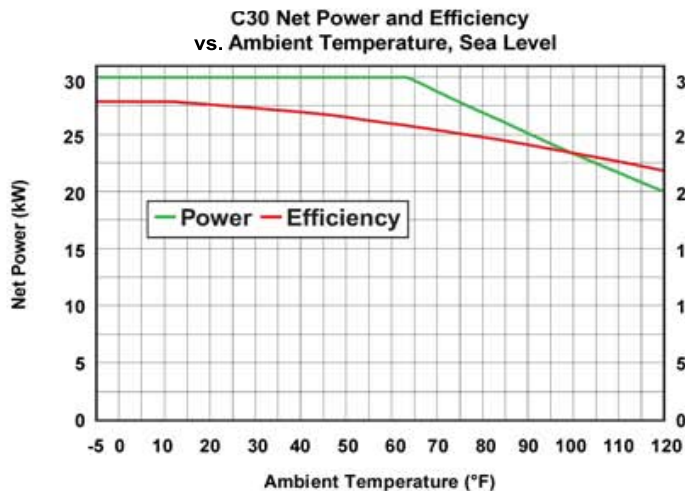
	Raw Natural Gas	Hazardous Area Config.
Vertical Clearance	0.61 m (24 in)	0.61 m (24 in)
Horizontal Clearance		
Left & Right	0.76 m (30 in)	0.89 m (35 in)
Front	0.93 m (37 in)	1.1 m (44 in)
Rear	0.92 m (36 in)	0.92 m (36 in)

Sound Levels

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

Certifications

- Hazardous Area configurations certified to UL 2200 and NFPA 496
- Hazardous Area configurations certified for hazardous locations (UL file E240758) for standard natural gas
- Models available with optional equipment for CE Marking
- Hazardous Area configurations available with ATEX



(1) Nominal full power performance at ISO conditions: 59°F, 14.696 psia, 60% RH
 (2) With linear load
 (3) Varies with system configuration
 (4) Exhaust emissions for standard natural gas at 39.4 MJ/Nm³ (1,000 BTU/scf) (HHV)
 (5) Approximate dimensions and weights
 (6) Height dimensions are to the roof line. Exhaust outlet extends at least 7 in above roof line
 (7) Clearance requirements may increase due to local code considerations
 Specifications are not warranted and are subject to change without notice.

