

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	30 kW
Voltage	400 to 480 VAC
Electrical Service	3-Phase, 4 wire
Frequency	10-60 Hz, stand alone operation
Maximum Output Current	54A, stand alone operation ⁽²⁾
Electrical Efficiency LHV	26%

Fuel/Engine Characteristics⁽¹⁾

Fuel/Engine Characteristics ⁽¹⁾	Raw Natural Gas	Hazardous Area Config.
Natural/Wellhead Gas HHV	30.7 to 99.1 MJ/m ³ (825 to 2516 BTU/scf)	30.7 to 99.1 MJ/m ³ (825 to 2516 BTU/scf)
H2S Content	<70,000 ppmv	<70,000 ppmv
Inlet Pressure	379 to 414 kPa gauge (55 - 60 psig)	379 to 414 kPa gauge (55 - 60 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⁾

Exhaust Characteristics ⁽¹⁾	Raw Natural Gas	Hazardous Area Config.
NOx Emissions @ 15% O ₂ ⁽³⁾	9 ppmvd (18 mg/m ³)	9 ppmvd (18 mg/m ³)
NOx/Electrical Output ⁽³⁾	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 (0.69 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 ⁽⁴⁾	Raw Natural Gas	Hazardous Area Config.
Width x Depth x Height	0.76 x 1.5 x 1.9 m (30 x 60 x 77 in)	0.92 x 2.9 x 2.3 m (36 x 112 x 92 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)

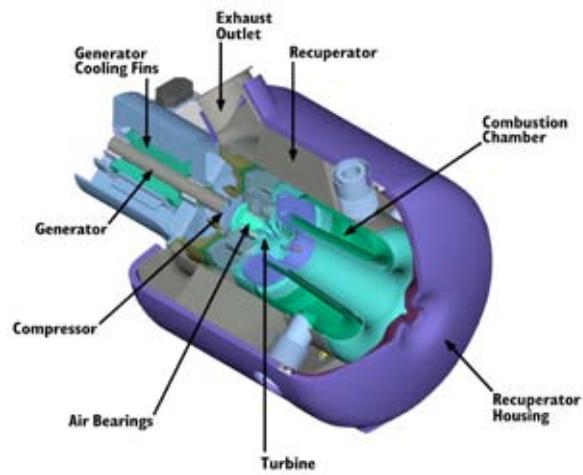
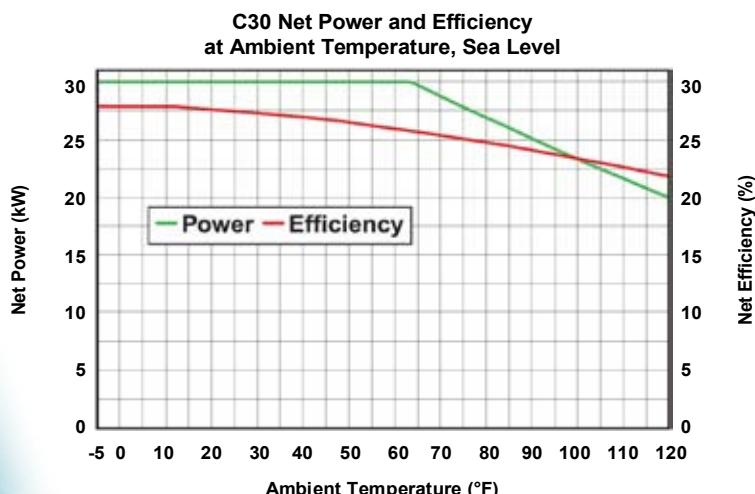
Sound Levels

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) Exhaust emissions for standard natural gas at 39.4 MJ/Nm³ (1,000 BTU/scf) (HHV)
- (4) Approximate dimensions and weights
- (5) Clearance requirements may increase due to local code considerations
Specifications are not warranted and are subject to change without notice.

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