C200 MicroTurbine High-pressure Natural Gas



World's largest air-bearing microturbine produces 200kW of clean, green and reliable power.

- 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
- Small, modular design allows for easy, low-cost installation
- Proven technology with tens of millions of run hours and counting
- Internal fuel gas compressor available for low fuel pressure Natural Gas applications



C200 MicroTurbine

Electrical Performance⁽¹⁾

Electrical Power Output	200 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	290A RMS @ 400V, grid connect operation
	240A RMS @ 480V, grid connect operation 310A RMS, stand alone operation ⁽²⁾
Electrical Efficiency LHV	33%

	Fuel/Engine Characteristics ⁽¹⁾		
2	Natural Gas HHV	30.7 to 47.5 MJ/m ³ (825 to 1,275 BT	U/scf)
	Inlet Pressure ⁽³⁾	517-552 kPa gauge (75-80 psig)	
	Fuel Flow HHV	2,400 MJ/hr (2,280,000 BTU/hr)	
	Net Heat Rate LHV	10.9 MJ/kWh (10,300 BTU/kWh)	
	Exhaust Characteristics ⁽¹⁾	Standard	2008 CARB Certified
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NOx Emissions @ 15% O₂⁽⁴⁾ NOx/Electrical Output⁽⁴⁾ Exhaust Gas Flow Exhaust Gas Temperature Exhaust Energy

9 ppmvd (18 mg/m³) 0.14 g/bhp-hr (0.4 lb/MWhe) 1.3 kg/s (2.9 lbm/s) 280°C (535°F) 1,420 MJ/hr (1,350,000 BTU/hr) 4 ppmvd (8 mg/m³) 0.05 g/bhp-hr (0.14 lb/MWhe) 1.3 kg/s (2.9 lbm/s) 280°C (535°F) 1,420 MJ/hr (1,350,000 BTU/hr)

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

Dimensions & Weight ⁽⁵⁾		
Width x Depth x Height ⁽⁶⁾	1.7 x 3.7 x 2.5 m	
	(67 x 144 x 98 in)	
Weight – Grid Connect Model	2775 kg (6,120 lb)	
Weight – Dual Mode Model	3413 kg (7,525 lb)	
Minimum Clearance Requirements ⁽⁷⁾		
Vertical Clearance	0.6 m (24 in)	
Horizontal Clearance		
Left & Right	1.1 m (42 in)	
Front	1.1 m (42 in)	
Rear	1.8 m (70 in)	
Sound Levels		
Acoustic Emissions at Full Load Powe	r	

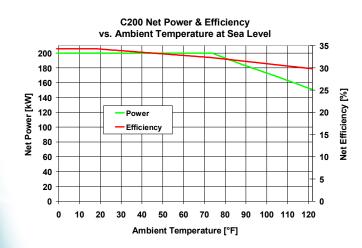
Planned Certifications

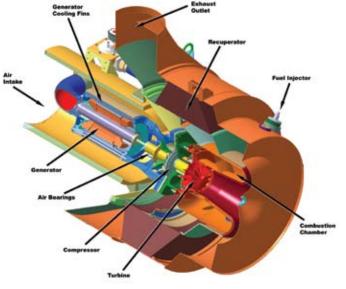
Nominal at 10 m (33 ft)

UL 2200 and UL 1741 to be listed for natural gas operations under exsisting UL files⁽⁸⁾

65 dBA

- Will comply with IEEE 1547 and will meet statewide utility interconnection requirements for California Rule 21 and the New York State Public Service Commission
- Models will be available with optional equipment for CE marking





stone

- Nominal full power performance at ISO conditions: 59°F, 14.696 psia, 60% RH
- (2) With linear load (3) (4)
 - Inlet pressure for standard natural gas at 39.4 MJ/Nm³ (1,000 BTU/scf) (HHV) Emissions for standard natural gas at 39.4 WJ/Nm³ (1,000 BTU/scf) (HHV) Approximate dimensions and weight
- (5)
 - Height dimensions are to the roof line. Exhaust outlet extends at least 8 inches above the roof line
- (6) (7) Clearance requirements may increase due to local code considerations
- (8) All models are planned to be UL Listed or available with optional equipment for CE marking Specifications are not warranted and are subject to change without notice.

