

C200 MicroTurbine Hazardous Location



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
- Proven technology with tens of millions of run hours and counting
- High humidity protection, conformal coated and greased electronics, and anti-condensation heaters
- Stainless steel, purged and pressurized enclosure for operation in potentially explosive atmospheres



C200 Hazardous Area

Electrical Performance⁽¹⁾⁽²⁾

| | |
|---------------------------|--|
| Electrical Power Output | 200kW |
| Voltage | 400–480 VAC |
| Electrical Service | 3-Phase, 4 wire |
| Frequency | 50/60 Hz |
| Maximum Output Current | 300A RMS, stand alone operation ⁽³⁾ |
| Electrical Efficiency LHV | 33% |

Fuel/Engine Characteristics⁽¹⁾

| | |
|-------------------------------|---|
| Natural Gas HHV | 30.7–47.5 MJ/m ³ (825–1,275 BTU/scf) |
| Inlet Pressure ⁽⁴⁾ | 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⁾

| | |
|---|-----------------------------------|
| NO _x Emissions @ 15% O ₂ ⁽⁵⁾ | < 9 ppmvd (18 mg/m ³) |
| NO _x / Electrical Output ⁽⁵⁾ | 0.14 g/bhp-hr (0.4 lb/MWhe) |
| Exhaust Gas Flow | 1.3 kg/s (2.9 lbm/s) |
| Exhaust Gas Temperature | 280°C (535°F) |
| Exhaust Energy | 1,420 MJ/hr (1,350,000 BTU/hr) |

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

Dimensions & Weight⁽⁶⁾

| | |
|--------------------------|---------------------------------------|
| Width x Depth x Height | 1.9 x 3.2 x 3.1 m (74 x 126 x 122 in) |
| Weight – Dual Mode Model | 4545 kg (10,000 lb) |

Minimum Clearance Requirements⁽⁷⁾

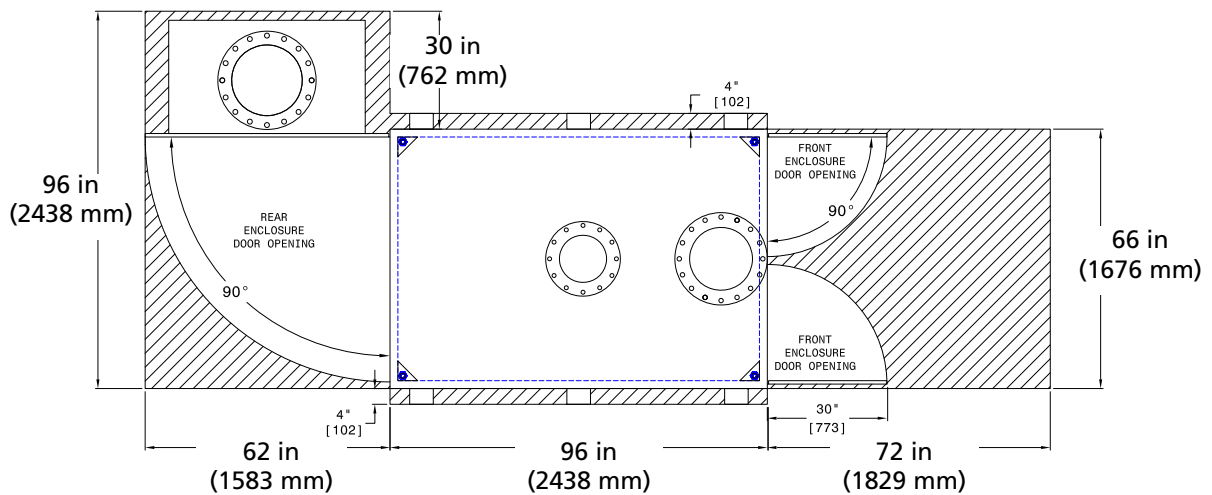
| | |
|----------------------|---|
| Vertical Clearance | application determined by inlet and exhaust ducting |
| Horizontal Clearance | |
| Left & Right | see diagram below |
| Front | 1.6 m (62 in) |
| Rear | 1.8 m (72 in) |

Sound Levels

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

Certifications

- UL 1741 certified Inverter
- Complies with IEEE 1547
- ATEX directive 94/9/EC for Category 3, Zone 2 environments



Service Area Requirements

- (1) Nominal full power performance at ISO conditions: 59°F, 14.696 psia, 60% RH
 - (2) Requires external power for purge/pressure system and internal heaters
 - (3) With linear load
 - (4) Inlet pressure for standard natural gas at 39.4 MJ/Nm³ (1,000 BTU/scf) (HHV)
 - (5) Emissions for standard natural gas at 39.4 MJ/Nm³ (1,000 BTU/scf) (HHV)
 - (6) Approximate dimensions and weight
 - (7) Clearance requirements may increase due to local code considerations
- Specifications are not warranted and are subject to change without notice.*

