

C200S Microturbine

Digester Gas



Achieve ultra-low emissions and reliable electrical generation from digester gas.

- + Ultra-low emissions
- + Accepts sour gas fuels with up to 5,000 ppm H₂S
- + One moving part – minimal maintenance and downtime
- + Patented air bearings – no lubricating oil or coolant
- + Integrated utility synchronization – no external switchgear
- + Compact modular design allows for easy, low-cost installation
- + Multiple units easily combined – act as single generating source
- + Remote monitoring and diagnostic capabilities
- + Proven technology with tens of millions of operating hours
- + Various Factory Protection Plans available



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Electrical Performance⁽¹⁾

| | |
|--|---------------------|
| Electrical Power Output ⁽²⁾ | 200kW |
| Voltage | 400/480 VAC |
| Electrical Service | 3-Phase, 4 Wire Wye |
| Frequency | 50/60 Hz |
| Electrical Efficiency LHV | 33% |

Fuel/Engine Characteristics⁽¹⁾

| | |
|--------------------------|---|
| Digester Gas HHV | 20.5–32.6 MJ/m ³ (550–875 BTU/scf) |
| H ₂ S Content | < 5,000 ppmv |
| Inlet Pressure | 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 | 9 ppmvd (18 mg/m ³) |
| Exhaust Mass Flow | 1.3 kg/s (2.9 lbm/s) |
| Exhaust Gas Temperature | 280°C (535°F) |

Dimensions & Weight⁽³⁾

| | |
|-----------------------------|--|
| Width x Depth x Height | 3.0 x 2.5 x 3.0 m (117 x 100 x 119 in) |
| Weight - Grid Connect Model | 5,200 kg (11,400 lbs) |
| Weight - Dual Mode Model | 5,850 kg (12,900 lbs) |

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

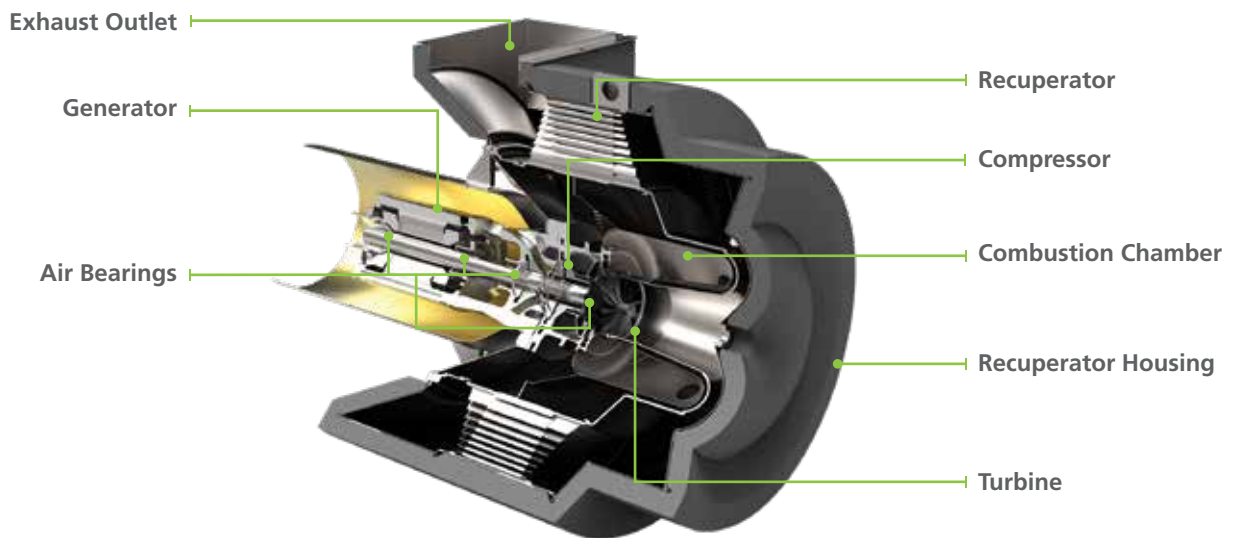
Minimum Clearance Requirements⁽⁴⁾

| Horizontal Clearance | |
|----------------------|---------------|
| Left | 1.5 m (60 in) |
| Right | 0.0 m (0 in) |
| Front | 1.7 m (65 in) |
| Rear | 2.2 m (85 in) |

Certifications

- UL 2200 Listed
- CE Certified
- Certified to the following grid interconnection standards: UL 1741-SA, VDE, BDEW, CEI0-16 and AS4447
- Compliant to California Rule 21

C200 Engine Components



(1) Nominal full power performance at ISO conditions: 15°C (59°F), 14.696 psia, 60% RH
 (2) Minimum power output is 35kW when operating in Grid Connect Mode
 (3) Approximate dimensions and weights
 (4) Clearance requirements may increase due to local code considerations
 Specifications are not warranted and are subject to change without notice.

