Capstone Green Energy

Energy Conversion Products

C200S Microturbine

Low-pressure Natural Gas

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

C200S Microturbine

Electrical Performance[1]

Electrical Power Output	190kW
Voltage	400/480 VAC
Electrical Service	3-Phase, 4 Wire Wye
Frequency	50/60 Hz
Electrical Efficiency LHV	31%

Fuel/Engine Characteristics[1]

Natural Gas HHV	35.4–42.8 MJ/m^3 (950–1,150 BTU/scf)
Inlet Pressure[2]	1.7–34.5 kPa gauge (0.25–5.0 psig)
Fuel Flow HHV	2,430 MJ/hr (2,300,000 BTU/hr)
Net Heat Rate LHV	11.6 MJ/kWh (11,000 BTU/kWh)

Exhaust Characteristics[1]

NOx 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)

Benefits

- Ultra-low emissions
- One moving part – minimal maintenance and downtime
- Patented air bearings – no lubricating oil or coolant
- Integrated utility synchronization – no external switchgear
- Internal fuel gas compressor housed within enclosure
- 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

Smarter Energy for a Cleaner Future

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	5,450 kg (12,000 lbs)
Weight - Dual Mode Model	6,200 kg (13,500 lbs)

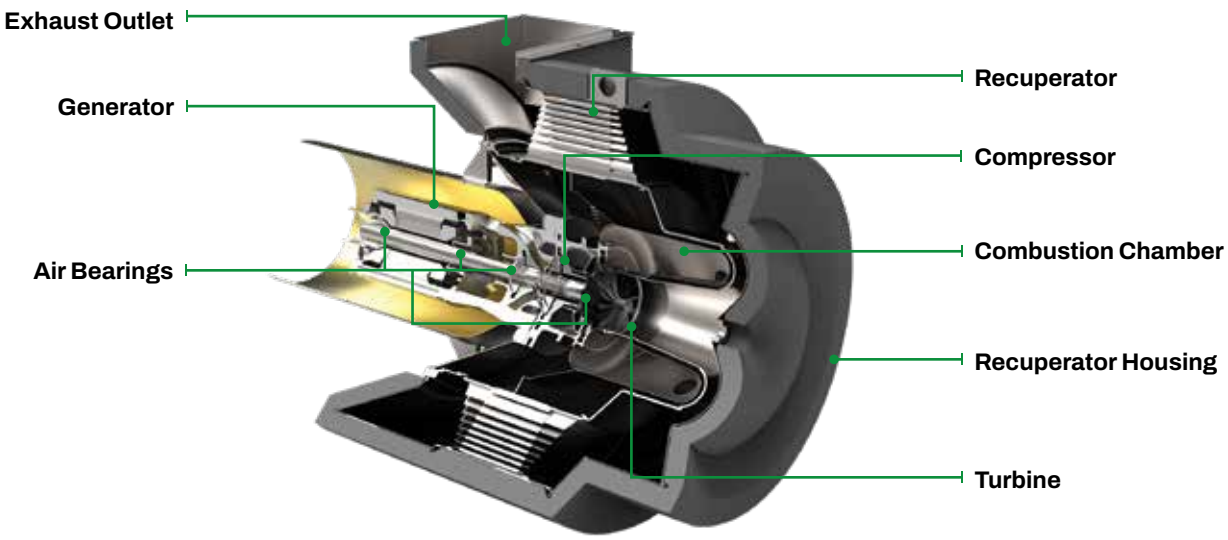
Minimum Clearance Requirements[4]

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 interconnections standards: UL 1741-SA, VDE, BDEW, CEI 0-16, AS4777**
- **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) For critical cyclic (on/off) applications, a gas inlet pressure of 5 psig may be a requirement. Consult with Capstone's Application Engineering team
(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.

 P1023 C200S LP Natural Gas Data Sheet CAP179 | Capstone P/N 331159C

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