C1000S Megawatt Power Package





The Signature Series Microturbine provides ultra-low emissions and reliable electrical/thermal generation from natural gas.

- 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
- High electrical efficiency over a very wide operating range
- High availability part load redundancy
- Remote monitoring and diagnostic capabilities
- Proven technology with tens of millions of operating hours
- Various Factory Protection Plans available





C1000S ICHP Power Package

Electrical Performance(1)

Electrical Power Output	950kW
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	1.7–34.5 kPa gauge (0.25–5.0 psig)
Fuel Flow HHV	12,150 MJ/hr (11,500,000 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/m³)
Exhaust Mass Flow	6.7 kg/s (14.7 lbm/s)
Exhaust Gas Temperature	280°C (535°F) (Heat Recovery Bypassed)

Dimensions & Weight⁽²⁾

Width x Depth x Height ⁽³⁾	3.0 x 9.1 x 4.0 m (117 x 360 x 157 in)
Weight - Grid Connect Model, dry	22,600 kg (49,800 lbs)
Weight - Dual Mode Model, dry	26,100 kg (57,500 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	2.0 m (80 in)	

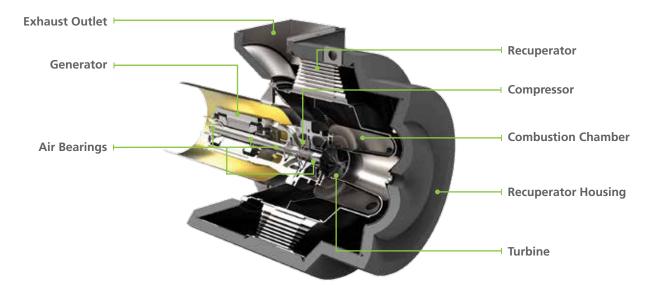
ICHP Heat Recovery⁽⁵⁾

Hot Water Heat Recovery	1.5 MW (5.1 MMBtu/hr)
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Certifications

- UL 2200 Listed
- **CE** Certified
- Certified to the following grid interconnection standards: UL 1741, VDE, BDEW and CEI 0-16
- 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

Approximate dimensions and weights

Height dimensions are to the roofline. Exhaust outlet extends at least 236 mm (9.3 in) above the roofline

Clearance requirements may increase due to local code considerations

Total heat recovery using 5 Heat Recovery Modules (HRM). Inlet temperature of 38°C (100°F) and flow rate of 6.3 l/s (100 gpm) per HRM. Specifications are not warranted and are subject to change without notice.