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
- 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	1000kW
Voltage	400/480 VAC
Electrical Service	3-Phase, 4 Wire Wye
Frequency	50/60 Hz
Electrical Efficiency LHV	33%

Fuel/Engine Characteristics(1)

Natural Gas HHV	30.7-47.5 MJ/m³ (825-1,275 BTU/scf)
Inlet Pressure	517–551 kPa gauge (75–80 psig)
Fuel Flow HHV	12,000 MJ/hr (11,400,000 BTU/hr)
Net Heat Rate LHV	10.9 MJ/kWh (10,300 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	21,200 kg (46,800 lbs)
Weight - Dual Mode Model, dry	24,750 kg (54,500 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)	

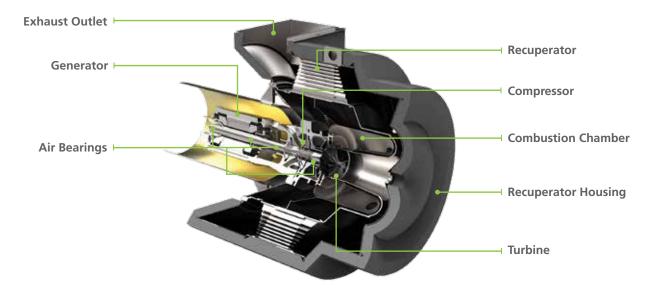
ICHP Heat Recovery(5)

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

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



Approximate dimensions and weights



⁽¹⁾ Nominal full power performance at ISO conditions: 15°C (59°F), 14.696 psia, 60% RH

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

⁽⁵⁾ 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.