C30 & C30-CHP MicroTurbine Natural Gas

Robust power system achieves ultra-low emissions and reliable electricity from natural gas.

- 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
- Integrated utility synchronization and protection⁽¹⁾
- Small, modular design allows for easy, low-cost installation
- Reliable Tens of millions of run hours and counting





C30 MicroTurbine

Electrical Performance⁽²⁾

Electrical Power Output	28kW
Voltage	400-480 VAC
Electrical Service	3-Phase, 4 wire
Frequency	50/60 Hz, grid connect operation
	10-60 Hz, stand alone operation
Maximum Output Current	46A, grid connect operation 46A, stand alone operation ⁽³⁾
Electrical Efficiency LHV	25%

Fuel/Engine Characteristics⁽²⁾

Natural Gas HHV	30.7–47.5 MJ/m ³
	(825–1,275 BTU/scf)
Inlet Pressure	1.4–69 kPa gauge (0.2–10 psig)
Fuel Flow HHV	444 MJ/hr (420,000 BTU/hr)
Net Heat Rate LHV	14.4 MJ/kWh (13,700 BTU/kWh)

Exhaust Characteristics⁽²⁾

NOx Emissions @ 15% O ₂ ⁽⁴⁾	< 9 ppmvd (18 mg/m³)
NOx / Electrical Output ⁽⁴⁾	0.22 g/bhp-hr
Exhaust Gas Flow	0.31 kg/s
Exhaust Gas Temperature	275°C



C30-CHP Heat Recovery

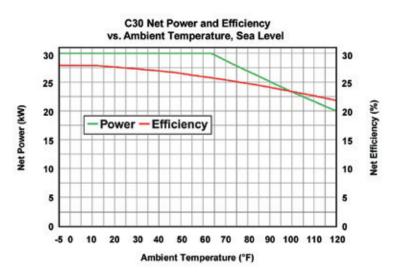
Integrated Heat Recovery Module Type Copper Core		
Hot Water Heat Recovery	65kW (220,000 BTU/hr)	
Total System Efficiency LHV	80%	

Dimensions & Weight ⁽⁵⁾⁽⁶⁾	C30	С30-СНР
Width x Depth x Height Weight – Grid Connect Model Weight – Dual Mode Model	0.76 x 1.5 x 1.8 m 405 kg 578 kg	0.76 x 1.5 x 2.2 m 490 kg 663 kg
Minimum Clearance Requirements ⁽⁷⁾		
Vertical Clearance Horizontal Clearance	0.61 m	

Left & Right	0.76 m
Front	0.93 m
Rear	0.92 m

Sound Levels

Acoustic Emissions at Full Load Power Nominal at 10 m 65 dBA



Exhaust Outlet Generator Cooling Fins Recuperator Combustion Chamber Generator Compressor Recuperator Housing Air Bearings Turbine

(1) Some utilities may require additional equipment for grid interconnectivity (2) Nominal full power performance at ISO conditions: 59°F, 14.696 psia, 60% RH

- (2) Nominal full power performance at ISO conditions. 59 r, 14.696 psia, 60% RH
 (3) With linear load
 (4) Exhaust emissions for standard Natural Gas at 39.4 MJ/Nm³ (1,000 BTU/scf) (HHV)
 (5) Approximate dimensions and weights
 (6) Height dimensions are to the roof line. Exhaust outlet extends at least 177mm above the roof line
 (7) Clearance requirements may increase due to local code considerations
- Specifications are not warranted and are subject to change without notice.



