CR30 MicroTurbine
Renewable Fuels

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

- Years of renewable experience
- Ultra-low emissions
- Operates on landfill or digester gas
- 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

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Electrical Performance[2]

Electrical Power Output	30kW
Voltage	400–480 VAC
Electrical Service	3-Phase, 4 wire
Frequency	50/60 Hz
Maximum Output Current	46A, grid connect operation
Electrical Efficiency LHV	26%

Fuel/Engine Characteristics[2]

Digester / Landfill Gas HHV	13.0–32.6 MJ/m^3 (350–875 BTU/scf)
H_2S Content	< 70,000 ppmv
Inlet Pressure – HHV dependent	414–483 kPa gauge (60–70 psig)
Fuel Flow HHV	457 MJ/hr (433,000 BTU/hr)
Net Heat Rate LHV	13.8 MJ/kWh (13,100 BTU/kWh)

Exhaust Characteristics[2]

NOx Emissions @ 15% O_2[3]	< 9 ppmvd (18 mg/m^3)
NOx / Electrical Output[3]	0.22 g/bhp-hr (0.64 lb/MWhe)
Exhaust Gas Flow	0.31 kg/s (0.69 lbm/s)
Exhaust Gas Temperature	275°C (530°F)

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

Dimensions & Weight[4][5]

Width x Depth x Height	0.76 x 1.5 x 1.8 m (30 x 60 x 71 in)
Weight	405 kg (891 lb)

Minimum Clearance Requirements[6]

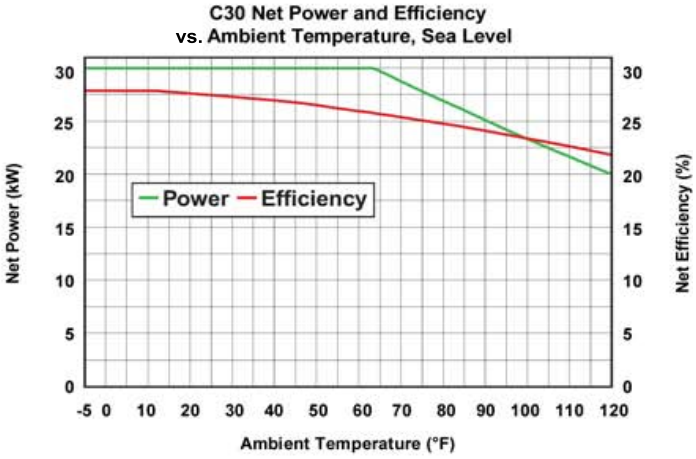
Vertical Clearance	0.61 m (24 in)
Horizontal Clearance	
Left & Right	0.76 m (30 in)
Front	0.93 m (37 in)
Rear	0.90 m (35 in)

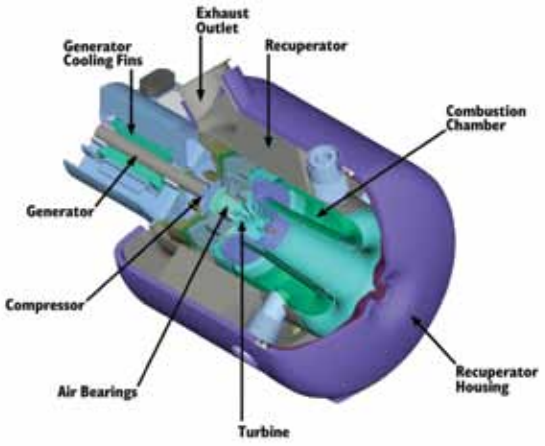
Sound Levels

Acoustic Emissions at Full Load Power	
Nominal at 10 m (33 ft)	65 dBA

Certifications

- Models available with optional equipment for CE Marking





(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
(3) For surrogate landfill and digester gases. Please contact Capstone for additional details
(4) Approximate dimensions and weights
(5) Height dimensions are to the roof line. Exhaust outlet extends at least 7 in above the roof line
(6) Clearance requirements may increase due to local code considerations
Specifications are not warranted and are subject to change without notice.

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