



Capstone MicroTurbine™

**MODEL 330
High Pressure
Gaseous Fuels**

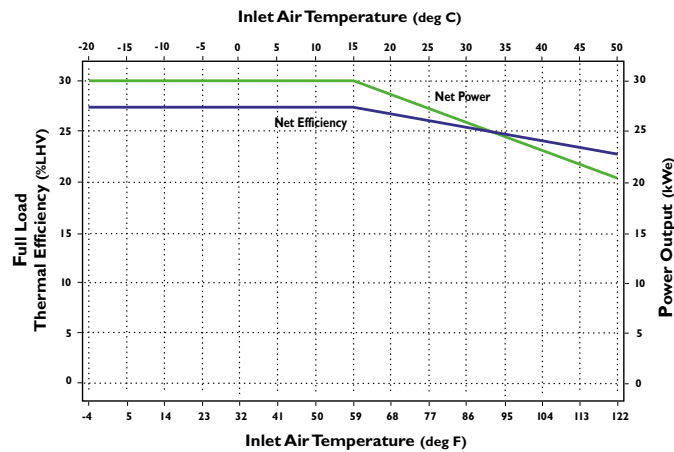
The Product

Features

- 0-30 kW net (ISO conditions)
- 400-480 VAC, 50/60 Hz
no transformer required
3-phase, 3-wire wye or 4-wire wye,
or corner ground delta, 46A/phase max
- Grid-connect or stand-alone
- Maintenance-free air bearings
- Digital power controller
- Air cooled
- Type 3R outdoor enclosure

Benefits

- Ultra-low emissions
- Minimal maintenance
- No liquid lubricants
- No liquid coolants
- Phase-to-phase balance (0-100%)
- Small footprint
- Vibration-free
- Quiet operation
- MultiPac capable
- Optional remote monitoring



Conformance
UL-Listed (UL 2200)
ANSI C84.1
IEEE 519
NFPA 37
NFPA 54
NFPA 70
CAN/CSA-C22.2
No. 100-95



Industrial, walk-in and open packaging options also available.

Performance Specifications Under ISO Conditions (15°C / 59°F @ sea level)

Performance @ 50 or 60Hz	Full-Load Power	Efficiency (LHV)	Heat Rate (LHV)
Natural gas/gaseous propane (52-55 psig)	30 kW net (+/- 1)	27% (+/- 2)	13,300 kJ (12,600 Btu) / kWh

Emissions:

NO_x <9 ppmV @ 15% O₂

Intake/Exhaust

Fuel flow (Natural gas/gaseous propane-HHV)	440,000 kJ/hr (420,000 Btu/hr)
Exhaust gas temperature	261°C / 500°F
Total exhaust energy	305,000 kJ/hr (290,000 Btu/hr)

Dimensions

H: 1900mm / 74.8"
W: 714mm / 28.1"
D: 1344mm / 52.9"

Weight

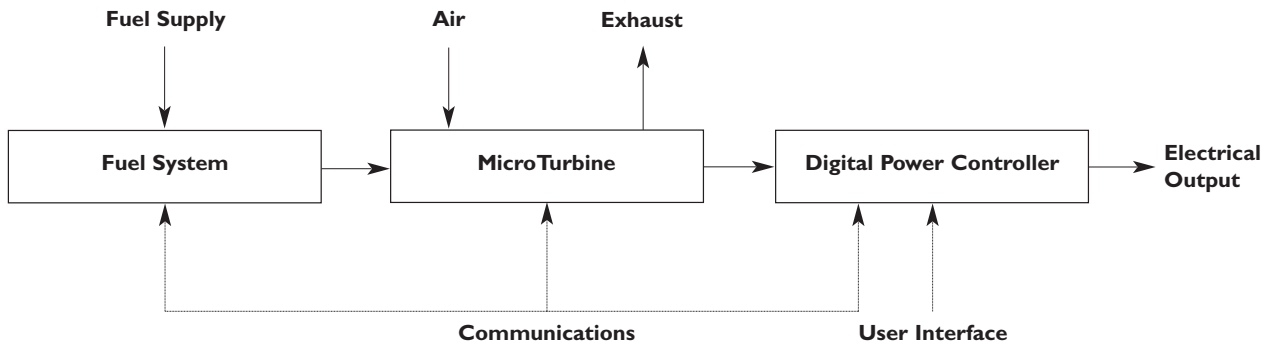
478 kg / 1052 lb
Add 173 kg/380 lb for stand-alone option

Typical Sound Level

58dBA @ 10 m / 33 ft*

*Acoustic performance applies to configuration of standard package with optional silencer. All other configurations typically 65dBA @ 10m/33ft. All specifications at full-load power. Fuel Heat Content: 26,100 to 93,850 kJ/Nm³ (700 to 2615 Btu/scf) HHV; natural gas, propane, methane, ethane. Note: The manufacturer reserves the right to change or modify without notice, the design or equipment specifications without incurring any obligation either with respect to equipment previously sold or in the process of construction.

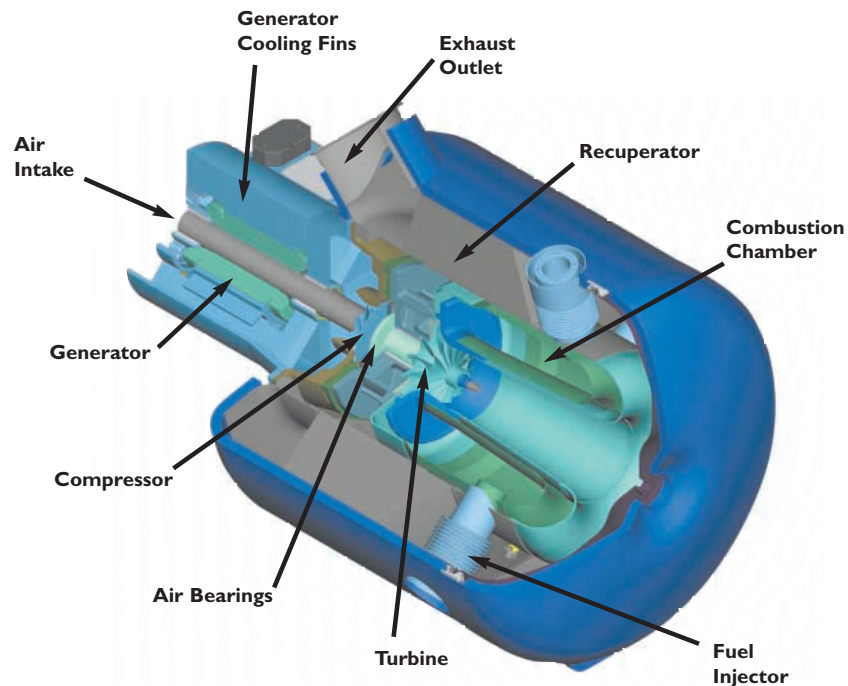
Capstone Model 330 MicroTurbine System



The Capstone Model 330 MicroTurbine system is a compact, low emission, power generator providing electrical power up to 30 kW. Solid-state power electronics allow grid-connect operation; stand-alone battery support and automatic grid/stand-alone switching are available options.

The system incorporates a compressor, recuperator, combustor, turbine and permanent magnet generator. The rotating components are mounted on a single shaft that rotates at up to 96,000 RPM (full load) and is supported by air bearings. The generator is cooled by intake air flow, thus eliminating the need for liquid cooling. Output of the system is variable frequency (50 or 60 Hz) AC power. A 60-kW system and a non-recuperated Model 330 are also available.

The Capstone Model 330 MicroTurbine Generator



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