



Capstone MicroTurbine™

MODEL 330
Low Pressure
Natural Gas

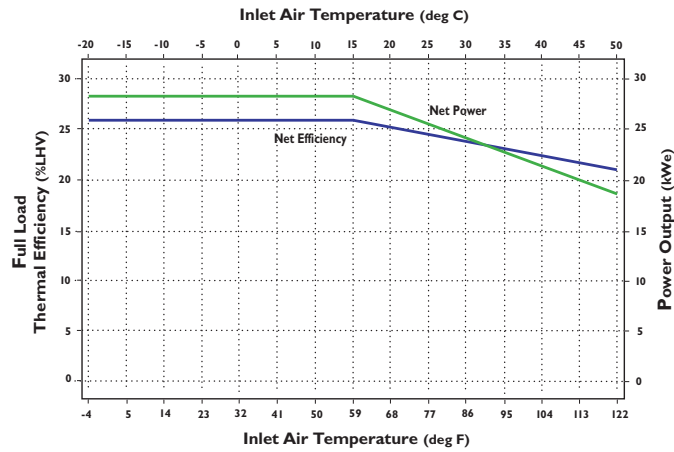
The Product

Features

- 0-28 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
- Internal fuel compression system
- Maintenance-free air bearings
- Digital power controller
- Air cooled
- Type 3R outdoor enclosure
- Built-in display and user interface
- Built-in protective relays

Benefits

- Ultra-low emissions
- Minimal maintenance
- No liquid lubricants
- No liquid coolants
- Phase-to-phase balance (0-100%)
on stand-alone units
- Small footprint
- Vibration-free
- Quiet operation
- MultiPac capable



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

Low pressure natural gas (0-15 psig)

Full-Load Power

28 kW net (+/- 1)

Efficiency (LHV)

26 % (+/- 2)

Heat Rate (LHV)

13,700 kJ (13,000 Btu) / kWh

Emissions:

NO_x <9 ppmV @ 15% O₂

Intake/Exhaust

Fuel flow (natural gas-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

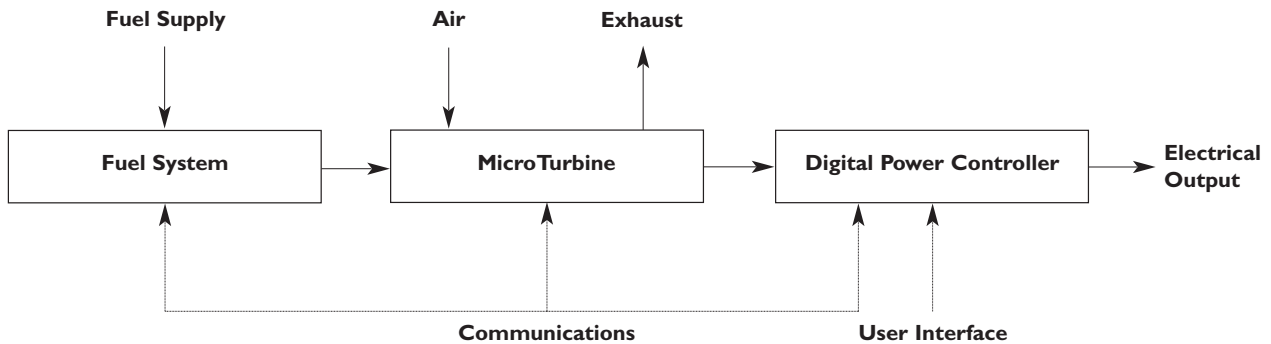
490 kg / 1082 lb Add 173 kg/380 lb for stand-alone option

Typical Sound Level

58dBA @ 10 m / 33 ft*

*Acoustic performance applies to configuration of standard package with optional silencer. All other configurations typically 65dBA @ 10 m / 33 ft. All specifications rated at full-load power. Fuel compression system warranted for 5-15 psig operation. Fuel Heat Content: 26,100 to 93,850 kJ/Nm³ (700 to 2615 Btu/scf) HHV. 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.

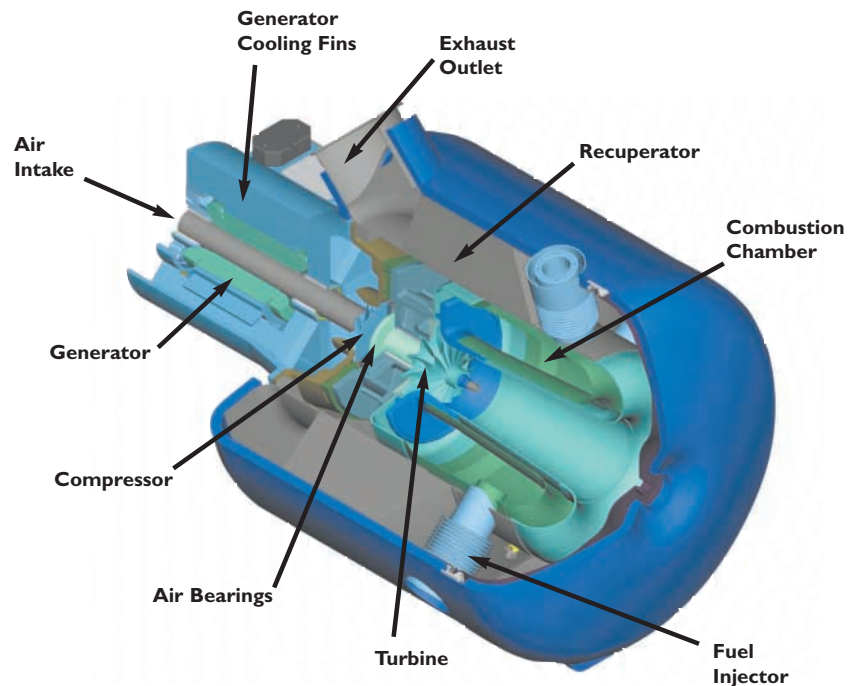
Capstone Model 330 MicroTurbine System



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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