

Capstone MicroTurbine[™]

MODEL 330 HEV MicroTurbine Multi Fuels

The Product

Features

- 30 kW net (ISO conditions)
- 250V-700V DC
- · Patented air bearings
- Digital power controller
- Air cooled
- Fuel flexible, freeze-tolerant
- Permanent flash memory with full operating history

Benefits

- Near-zero emissions performance
- · No fluid lubricants or coolants needed, ever
- Compact size & weight
- · Reliable operation
- · Fast in-field serviceability
- · Minimal maintenance
- Full diagnostic capability



HEV EMISSION CYCLE TESTING				
Emissions	CNG*	Propane*	Diesel**	
NO_X g/bhp-h	0.26	0.53	0.75	
HC g/bhp-h	0.42	0.42	0.30	
CO g/bhp-h	0.41	0.18	0.40	
PM g/bhp-h	0.004	0.004	.01	

* Emissions are actual results per CARB certification. Manufacturer emissions warranty limits are

slightly higher. **CARB certification pending Q2 of 2001 - internal test results only.

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

MicroTurbine Performance	Fuel Type		
	Natural Gas (55 psig)	Propane (55 psig)	Diesel (5 psig)
Overhaul Life	20,000 hrs	20,000 hrs	20,000 hrs
Full-Load Power	30 kW net (+/- 1 kW)	30 kW net (+/- 1 kW)	29 kW net (+/- 1 kW)
Peak Efficiency (LHV)	27% (+/- 2%)	27% (+/- 2%)	26% (+/- 2%)
Fuel Flow*	18.7 lb/hr / 8.5 kg/hr	19.0 lb/hr / 8.6 kg/hr	21.9 lb/hr / 10.0 kg/hr
Fuel Flow, Equivalent	N/A	4.5 gal/hr / 17.2 l/hr	2.9 gal/hr / 11.0 l/hr
Exhaust GasTemperature	261°C / 500°F	261°C / 500°F	261°C / 500°F
Output Voltage	250V - 700V DC	250V - 700V DC	250V - 700V DC

*Rated at LHV: 20,167 Btu/lbm (Natural gas); 19,916 Btu/lbm (Propane); 18,250 Btu/lbm (Diesel).

Engine Assembly Dimensions L: 836mm / 32.9" W: 572mm / 22.5" H: 729mm / 28.7" Weight 102 kg / 225 lb

Digital Power Controller Dimensions L: 825mm / 32.50" W: 311mm / 12.25" H: 464mm / 18.25" Weight 68.5 kg / 151 lb

All specifications rated at full-load power.

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 TURBINE CORPORATION

www.microturbine.com

Capstone MicroTurbine[™] System



The Capstone MicroTurbine[™] system includes a compressor, recuperator, combustor, turbine and permanent magnet generator. The rotating components are mounted on a single shaft supported by air bearings that rotate at up to



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20

25

30

15

Net Output Power

10

5

5.0

0.0

0.0