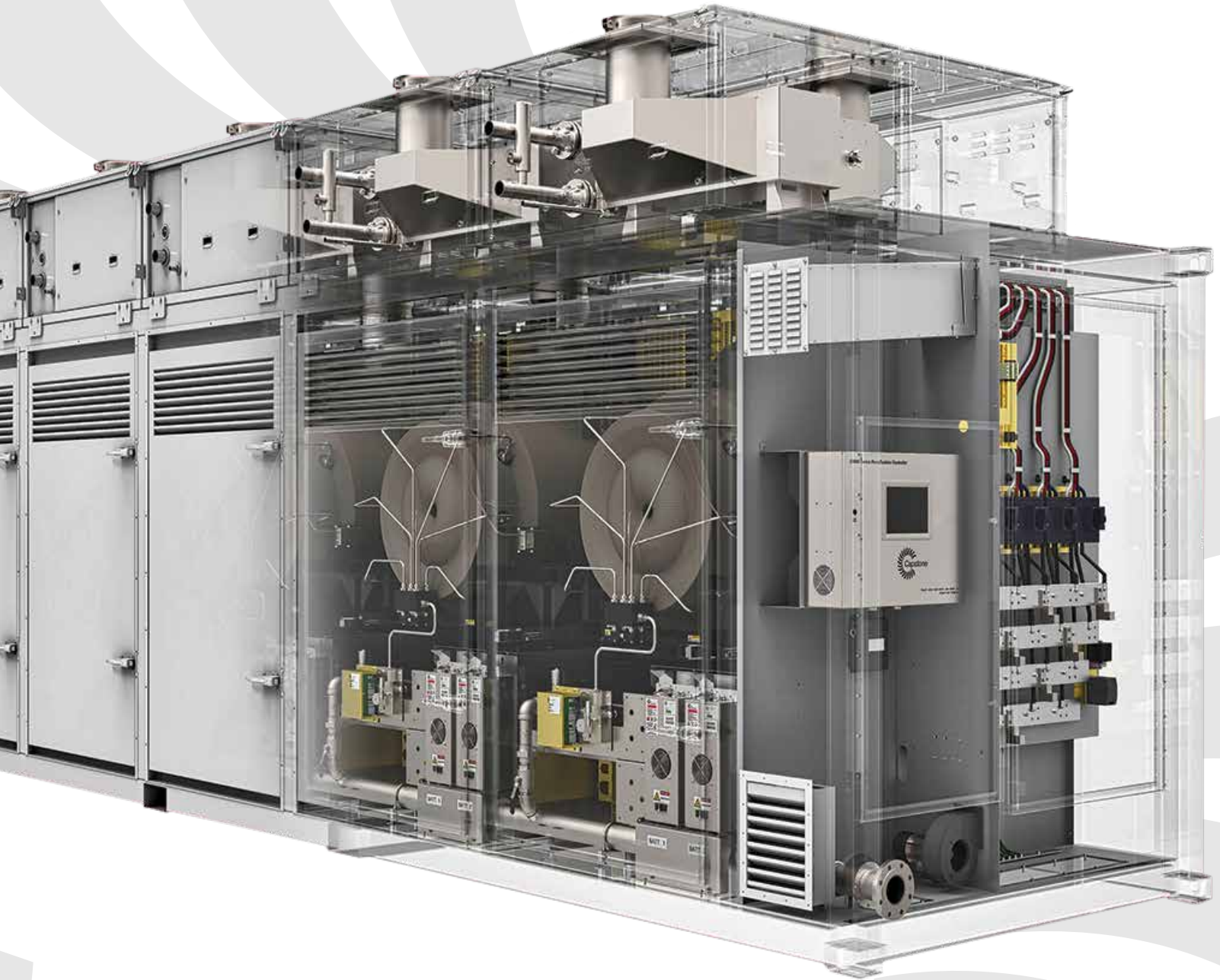


Product Catalog

Applications & Features



E-Finity Distributed Generation

Power to be Independent



CAPSTONE MICROTURBINES

Capstone’s industry-leading microturbine energy solutions help improve business operations by putting the end user in control of their energy costs. Scalable from 30kW to 30MW, Capstone microturbines provide clean energy to organizations of varying sizes operating in numerous markets around the world. Advanced engineering and more than 100 patents put Capstone microturbines in a class of their own.

By integrating an aero-based turbine engine, a permanent magnet generator, advanced power electronics, with patented air bearing technology, Capstone microturbines are the ideal solution for today’s distributed energy needs.



FEATURES		BENEFITS	
	Only one moving part		Longer service intervals, low operating cost
	Patented air bearing technology		No lubricants or coolants needed
	Advanced combustion controls		Low emissions, no exhaust aftertreatment
	Clean waste heat		Thermal energy for cogeneration/trigeneration
	Wide fuel range		Operates on gaseous, renewable, and liquid fuels
	Grid Connect, Standalone, or Dual Mode		Power under any circumstance
	High power density		Compact footprint, small modular design
	Remote monitoring		View performance and diagnostics 24/7
	Power electronics		High efficiency under all load conditions
	PLC-based controller		Increase efficiency, reliability, and run-time balances

Capstone Microturbines⁽¹⁾⁽²⁾

Model	Power Output ⁽³⁾ (kW)	Electrical Efficiency (%)	Exhaust Gas Flow (lbs/sec)	Exhaust Temperature (°F)	Net Heat Rate (Btu/kWh)	Fuel Input (Btu/hr)	Dimensions ⁽⁴⁾ (W" x D" x H")
C30 LP	28	25	0.68	530	13,100	433,000	30 x 60 x 70
C30 HP	30	26	0.68	530	13,100	433,000	30 x 60 x 70
C65	65	29	1.08	588	11,800	842,000	30 x 77 x 76
C65 ICHP	65	29	1.08	588	11,800	842,000	30 x 87 x 93
C200S LP	190	31	2.9	535	11,000	2,280,000	117 x 100 x 148
C200S HP	200	33	2.9	535	10,300	2,280,000	117 x 100 x 148
C600S LP	570	31	8.8	535	11,000	6,840,000	117 x 230 x 114
C600S HP	600	33	8.8	535	10,300	6,840,000	117 x 230 x 114
C800S LP	760	31	11.7	535	11,000	9,120,000	117 x 295 x 114
C800S HP	800	33	11.7	535	10,300	9,120,000	117 x 295 x 114
C1000S LP	950	31	14.7	535	11,000	11,400,000	117 x 360 x 114
C1000S HP	1000	33	14.7	535	10,300	11,400,000	117 x 360 x 114

Thermal Energy Output

Model	Hot Water Output (MBtu/hr) ⁽⁵⁾	Lbs/Hour Steam ⁽⁶⁾	Lbs/Hour Steam with Duct Burner	Tons of Chilled Water
C65	420	225	2,345	30
C200S	904	619	6,400	62
C600S	2,712	1,857	19,200	188
C800S	3,616	2,476	25,600	250
C1000S	4,520	3,095	32,000	315

⁽¹⁾ Models available to operate on these different fuels: LPNG – Low Pressure Natural Gas, HPNG – High Pressure Natural Gas, P – Propane, LG – Landfill Gas, DG – Digester Gas

⁽²⁾ All models available to operate on these different fuels: D – Diesel and K – Kerosene

⁽³⁾ Nominal full power performance at ISO conditions: 59°F, 14.606 psia, 60% RH

⁽⁴⁾ Height dimensions are to the roofline. Exhaust outlet can extend up to 7 inches above the roofline.

⁽⁵⁾ Heat recovery for water inlet temperature of 140°F

⁽⁶⁾ Steam output is at 12 psig

Specifications are not warranted and are subject to change without notice



Only One Moving Part

Minimal maintenance with
only one moving part



Recuperated Turbine Core

Increases fuel efficiency



Air Bearing Technology

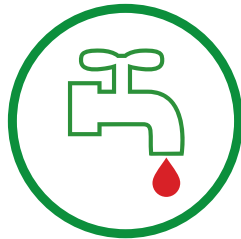
No lubricants or coolants
are needed to operate

MEETING DEMAND IN THE COMMERCIAL & INDUSTRIAL AND BIOGAS INDUSTRIES

Utilizing Capstone microturbines can save you time and money while lowering your carbon footprint.



Electricity



Hot Water



Chilled Water



Steam

Combined Heat & Power (CHP) and Combined Cooling, Heating & Power (CCHP)

CHP is the production of both electricity and heat from a single fuel source. By using the waste heat from onsite electricity production for heating, CHP increases fuel efficiency and decreases energy costs. For increased energy utilization, CCHP incorporates a third technology, absorption chilling, to offset energy expenses by utilizing the waste heat for cooling.

Biogas

Capstone microturbines cleanly burn waste gases from landfills, sewage treatment plants, livestock farms, and food waste processing facilities to create renewable power and heat. This feature replaces the traditional solution of flaring those gases, or even worse, letting them vent into the air – a practice that is wasteful, polluting, and contributes regularly to climate change.



Mixed-Use Real Estate



Manufacturing Facility



Education



Hospitality



Data Center



Biogas Applications

E-FINITY DISTRIBUTED GENERATION – WHAT WE DO



Support Teams

E-Finity's Sales Support Team will help customers with a conceptual design of their project which includes system sizing, energy savings calculations, and project life-cycle cost analysis. In addition, the Application Engineering Team provides design and project management assistance to customers during the design and implementation of their project.



Factory Protection Plan

The Capstone Factory Protection Plan is a fixed rate, all inclusive (scheduled and unscheduled) maintenance plan available up to 15 years.

The Plans are end-user flexible and can be customized for your installation to meet your unique operating needs. All maintenance work is performed by Authorized Factory Technicians. E-Finity maintains multiple service hubs throughout their territory where technicians can be quickly dispatched.



Remote Monitoring and Scalable Control Solutions

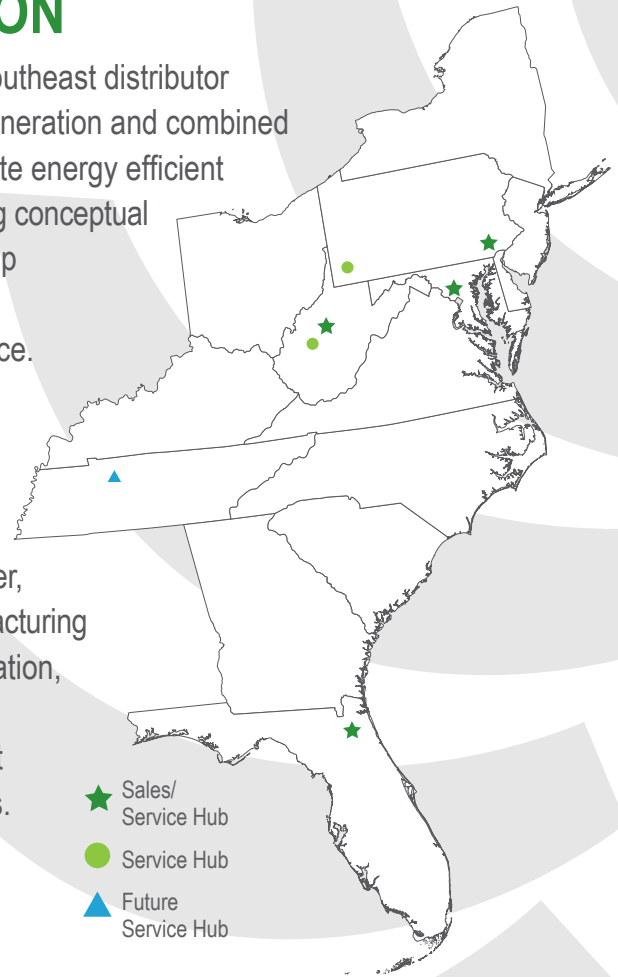
The E-Finity Remote Monitoring System (ERMS) allows technicians to monitor, remotely troubleshoot, and correct turbine issues 24/7. A web portal is available for customers to view in real time their system energy savings and performance. Historical information can be saved for record keeping and exported.

E-FINITY DISTRIBUTED GENERATION

E-Finity Distributed Generation is the exclusive Mid-Atlantic and Southeast distributor for Capstone Turbine and is an active member of the distributed generation and combined heat and power communities. The company actively promotes onsite energy efficient power solutions with Capstone microturbine technology. By providing conceptual design review, application engineering and integration support, startup and ongoing maintenance, E-Finity ensures that your onsite CHP, CCHP, or oil and gas power system will operate at peak performance.

Capstone turbines are providing customers with green power independence for commercial and industrial, resource recovery, and oil and gas applications. In commercial and industrial applications, Capstone microturbines provide hot water, chilled water, and steam to various facilities such as hotels, healthcare and manufacturing facilities, data centers, and office buildings. In transmission, exploration, and midstream operations, the microturbines are providing power to the remote areas of the Utica and Marcellus Shale, ensuring that gas producers have reliable power for the production of natural gas.

With clean, quiet, and resilient Capstone microturbines, E-Finity is giving your facility the power to be independent.



CAPSTONE TURBINE CORPORATION

Capstone Turbine Corporation® is the world's leading producer of low-emission microturbine systems, and was first to market with commercially viable air bearing turbine technology. The company has shipped thousands of Capstone turbines to customers worldwide in applications such as combined heat and power, oil and gas, biogas, data center reliability, and peak shaving. These award-winning systems have logged millions of documented runtime operating hours.



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