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608-238-6001 [TEL]

greg@infinityturbine.com [Email]



capstone-turbine- ingersoll-rand- powerworks- microturbine-buy- and-sell

Infinity Turbine
LLC

Capstone Turbine Ingersoll Rand
Powerworks Turbine Microturbine



This webpage QR code

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Infinity Turbine with Global Energy and Global
Microturbine has been working with microturbines since
2001.

PDF Version of the webpage (first pages)

<https://infinityturbine.com/capstone-turbine-ingersoll-rand-powerworks-microturbine-buy-and-sell.html>

We buy and sell microturbines... since 2001

Infinity Turbine and Global Energy (globalmicroturbine.com) have been selling and consulting with microturbines since 2001.

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Microturbines

Capstone Microturbine: In the past 20 years Global Energy set up the worldwide secondary market for distributed energy (microturbines) focusing on the Capstone Turbine via this Global Microturbine website. Applications: Primary or backup power. Greenhouse or grow operations. Hurricane power. Forest fire backup power when the grid goes down. Waste heat can be used directly for drying hemp, firewood, and lumber in a container kiln. Cogeneration to produce both heat, hot airflow, and power for drying operations.

ORC Organic Rankine Cycle: Branching off into the waste-heat-to-energy field, Infinity Turbine was organized in 2008. Since then, hundreds of small turbines have been sold and put into the field. Applications: industrial and commercial waste heat, including cloud server 30C (89F) waste heat using tribo effect power generation and supercritical CO₂.

Power Solutions: Global Energy LLC and Infinity Turbine LLC have teamed up to provide comprehensive power solutions, including developing new power production methods, like TriboElectric Technology (solid state power generation using CO₂ and low grade heat) and the Salgenx Saltwater Battery.

Ingersoll Rand MT250 Microturbine Generator

Ingersoll Rand MT250 Microturbine Generator. HPLP. Never been run comes with all accessories and Manufacturers recommended turbine oil Rating: 250 KW Input Speed: 45390 RPM Ratio: 25.22 Output Speed: 1800 RPM Lubricant: IR Megacool Viscosity: ISO VG32 Oil Pressure: 2.4 bar Oil Temperature: max 92 deg C Date: 12-2008 Marathon Electric Generator End Magnamax DVR Synchronous AC Generator Model: 433RDL4851 Type: RDL Hz: 60 / 50 RPM: 1800 / 1500 Phase: 3 Volts: 480Y/277 / 400Y/230 Ins Class: H1 PMG Volts: 190 / 150 PMG Hertz: 300 / 250

What about servicing and maintenance on the Capstones ?

Capstones can be diagnosed via a phone modem or internet connection. CRMS software can help diagnose any problems.

Capstone Remote Monitoring Software (CRMS) V4.25 and CRMS 551 and CRMS APS for C1000 V220

Email for pricing.

The Capstone Remote Monitoring Software allows users and maintenance to query the Capstone engine via a serial port interface.

The software is outdated, and available as-is.

The software is available for purchase.

All sales final and no refunds on the purchase.

This software includes:

C30
C30_Ver_4_93.zip
C30stat_v522.zip
C30statWWV&FBRFC-LPNG_v520revF.zip
C60_Ver_3_91.zip
ModelC30SoftwareV4.76.zip
SB0071_C30_v5_03_&_v5_05_Release_Notes.pdf
v5_03_Software.zip
C60
ModelC60SoftwareV3.82.zip
C65
450123A_SN0033_C65_v5.40_v2.20_Software_Release.pdf
C65_v5.31_codeset
C65_v5.31_codeset.zip
C65CE_v540.zip
ES0325_DPC_User_Maint_Comm_Maint.pdf
SB0111A_C200_v1.33_Software_Release.pdf
SB0116_C65_v531_v451_Release.pdf
C200
C200_v171.zip
C200LF_v202A.zip
Copeland Training V1.0 2001
Compressors[1].avi
README FIRST.rtf
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CRMS V4.25 User Setup
Capstone Remote.msi
CRMS V4.25 User Serial No.doc
DistFile.cab
instmsi.exe
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Capstone Remote Monitoring Software (CRMS) V4.25 and CRMS 551 and CRMS APS for C1000 V220

The Capstone Remote Monitoring Software allows users and maintenance to query the Capstone engine via a serial port interface. The software is outdated, and available as is. The software is available for purchase separately, or with the publications bundle provided below. All sales final and no refunds on the publications purchase.

This software includes: C30, C30_Ver_4_93 , C30stat_v522 , C30statWWV FBRFC-LPNG_v520revF, C60_Ver_3_91, ModelC30SoftwareV4.76, SB0071_C30_v5_03_&_v5_05_Release_Notes, v5_03_Software, C60, ModelC60SoftwareV3.82(zip file), C65 450123A_SN0033_C65_v5.40_v2.20_Software_Release(pdf file), C65_v5.31_codeset, C65_v5.31_codeset(zip file, C65CE_v540(zip file, ES0325_DPC_User_Maint_Comm_Maint(pdf file),SB0111A_C200_v1.33_Software_Release(pdf file), SB0116_C65_v531_v451_Release(pdf file), C200, C200_v171(zip file), C200LF_v202A(zip file), CRMS, CRMS V4.0 Setup, CRMS V4.25 Maint Setup, CRMS V4.25 User, Setup, Capstone Remote, CRMS V4.25 User Serial No, DistFile, instmsi, instmsiw, setup, CRMS_551_Maint, CRMS_V4_25_User(zip file), CRMS_v540revA, CRMS-APSforC1000_MaintV220revA, CRMSV4.25Maint Edition(zip file)

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Capstone Turbine C600 Six Available Used

(6) Available. Capstone Turbine C600. 2012.

PN: 600R-HD4-BU00-A000

Description: C600R,HPNG,DM,UL,BR,C1KC

Buy all for less than \$200,000. Location California.

Excellent for parts. Most rotors do not turn.

Inspection report available.

Interesting Ideas:

- Parts
- Charge controller and inverter
- Convert turbine to ORC and run off of refrigerant
- Use charge controller and inverter for Saltwater Battery

Some batteries, C600 controllers, and other parts missing.

TEL: 608-238-6001

Capstone Turbine C1000 Mfg in 2012 New Surplus

Capstone Turbine Model C1000 (1000 kW or 1 MW)

C1000, HP NG, DM, IND PKG, CE. C1000 modular container.

Dual mode controller. Capstone C1000 HP Natural Gas Dual Mode. Mfg 2012.

Factory test hours only.

Manufactured in 2012. Factory reconditioned (to new condition with warranty) in 2015/2016. Never run once at new owners facility.

Will need new battery packs, inspection for air bearings, etc.

Used Capstone Turbine C200 C600 Available

Units need inspection prior purchase

- A. Capstone C-200 2012 era (multiple available new surplus and some non-rotating turbines great for spare parts)
- B. Capstone C-600 2012 era (some non-rotating turbines, some new surplus, some have 1,000-8,000 hours and all need some need parts)

Salt Water Battery Technology as Alternative to Capstone Turbines and Microturbine Technology

Are you interested in alternatives to Capstone Turbines ? Large storage batteries may be the answer, especially for greenhouses and other electrical and thermal storage needs.

A Salgenx 3,000 kW (3MW) battery, it is much less expensive (Capstone 1,000 kW is around \$1.5 million so a 3MW is $3 \times 1.5 = \$4.5$ million) and has thermal storage capacities as well. Price includes charge controller and inverter.

Salgenx (division of Infinity Turbine LLC) has developed a revolutionary saltwater flow battery which also acts as a thermal battery.

Lower cost and faster access compared to Tesla Megapack which may take two years to deliver.

Does not use any Lithium, Vanadium, or a membrane.

Using a CO₂ heat pump, you can double down on the payback for this new concept of a battery which stores heat as well as power.

When combined with a ORC (Organic Rankine Cycle) turbine, this concept is further extended to produce power, especially at oil and gas wells which have geothermal heated brine producer water. Imagine storing power at the oil well, to use to power the downhole pumps.

Grid based rate arbitrage for purchasing power during off-peak times, then using power during on-peak daylight times to save money.

Capstone Turbine Secondary Market:

In 2001 started consulting and selling the Capstone Microturbine (micro distributed grid power generator) and currently buy and sell these turbines into the secondary market.

Capstone Turbine C1000 2010

Capstone C1000 DM Capstone turbine model 1000R-FD4-BC00. New, less than 27 hours of run time on the engines. Manufactured 2010. Dual mode controller. Located overseas. Missing one engine. Other engines need to be sent back to Capstone for re-warranty work (minimum \$150,000+). A C1000 has (5) C200 engines. Looking for offers.

Model Number: 1000R-FD4-BC00
C1000, LPNG, DM, INDPKG, CE
526866-100 Controller, Dual Mode, 24VDC

Originally shipped 9/15/2010.

Low Pressure Natural Gas, Dual Mode (Stand Alone).

Engine Test Hours:

Bay A: 27:11:32
Bay B : 27:46:00
Bay C: 26:54:54
Bay D: 26:59:11
Bay E: 27:05:20

Capstone Turbine C65 Diesel Liquid Fueled Top Mounted CHP Hot Water Recovery

Capstone Turbine C65 New Dual Mode (Grid Connect and Stand Alone) Diesel Fuel Top Mounted CHP (Hot Water Recovery Unit).

C65, ICHP, LIQ, DM, INDPKG

Microturbine Info

Global Energy has compiled a list of useful information regarding the purchase, operation and installation of the Capstone Microturbine, please see the categories below.

Biogas (special Capstone option):

The Capstone MicroTurbine (special unit not standard) can transform low grade, unprocessed waste biogas with methane content as low as 35 percent (350 Btu/scf) into usable electricity. It is proving a practical and cost-effective technology that can eliminate flaring at landfills, wastewater treatment plants, and agricultural or livestock facilities. (Capstone)

Most biogas installations we've seen since 2001 have failed. We do not recommend this application due to the costly gas filtering, poor quality (btu) gas, and derated output.

Can I get a tax credit for the use of the microturbine ?

The only Federal credit is a 10 percent tax credit on the purchase of a new microturbine (please refer to DOE websites for current updates).

Can I use the microturbine to produce air conditioning, or to produce chilled water for ice making or cold storage ? Chiller:

Using a Yazaki high efficiency chiller, you can use hot air directly from the microturbine exhaust, or via hot water to produce chilled water. The chiller generally requires a cooling tower to drop the delta T (temperature drop) before being re-heated. In this case, you can use geo-thermal (ground based heat exchanger) to replace the cooling tower. A vertical loop is the most efficient space saver. It also saves money (the cooling tower has fan and pump motors). The geo-thermal only has small pumps.

“Yazaki water fired SINGLE-EFFECT chillers or chiller-heaters have cooling capacities of 10, 20 and 30 tons of refrigeration and produce chilled water for cooling or hot water for heating in comfort air conditioning applications. The absorption cycle is energized by a heat medium (hot water) at 158 F to 203 F from an industrial process, cogeneration system, solar energy or other heat source and the condenser is water cooled through a cooling tower.

An absorption chiller or chiller-heater uses a solution of lithium bromide and water, under a vacuum, as the working fluid. Water is the refrigerant and lithium bromide, a nontoxic salt, is the absorbent. Refrigerant, liberated by heat from the solution, produces a refrigerating effect in the evaporator when cooling water is circulated through the condenser and absorber.

Capstone Microturbine Greenhouse Grow Operations

The Capstone Microturbine is perfect for Greenhouse and Hydroponic Grow Operations. Using natural gas, propane, or biogas, the Capstone can provide up to 30-80 percent or more on utility cost savings. With the Capstone, you get grid connect or stand-alone power, plus the heat from the turbine exhaust, which you can vent directly into the greenhouse. The CO₂ is a byproduct of combustion and good for plant growth.

What is beyond Capstone ?

Infinity Turbine LLC is working on Leapfrog technology called Supercritical CO2 Energy. They are also working on a tethered drone GPU power solution, and a hybrid aerial APU solution for V TOL and electric aircraft.

