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608-238-6001 [TEL]

greg@infinityturbine.com [Email]



model-rot12-radial-outflow-turbine-12-inch-diameter-20hp-expander-generator-from

ROT12 Radial Outflow Turbine ROT ORC

Infinity Turbine LLC



This webpage QR code

Structured Data

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Company Name: Infinity Turbine LLC
 Product: ROT 12 Turbine Generator Assembly
 Working Fluid: Refrigerants, water, and CO2
 Working Pressure: Less than 300 psi.
 Certification: Experimental. Not ASME certified as is.
 Drawings Provided: As is.
 Machine: ORC and ROT Radial Outflow Turbine System
 Industry: Energy
 Applications: Waste heat to power, utilities, server farms, bitcoin mining, hot geothermal.
 High Technology Uses: Converting waste heat to power.
 Machine Features: One moving part.
 Machine Runs On: Air, and some refrigerants, such as R245. Can be converted to a CO2 turbine with proper engineering enhancements with materials and seals which can withstand ASME coded materials and construction for 2,000 psi or more.
 Real World Testing: This turbine has been built and tested with air (15-100 psi) and R245fa under pressure (300 psi or less). Experimental.
 Seals: Gruvlok or Victaulic couplings which allow turbine to be mounted to a common shaft generator within one assembly.
 Other Applications: Can be run as a expander or extractor.
 Bearings: Uses motor bearings.
 Systems: This has been used with a 10kW system.

PDF Version of the webpage (first pages)

<https://infinityturbine.com/model-rot12-radial-outflow-turbine-12-inch-diameter-20hp-expander-generator-from-infinity-turbine.html>

ROT12 Radial Outflow Turbine DC Generator

The ROT12 Radial Outflow Turbine with DC Generator was designed for the IT10 system.

Plans: \$10,000 USD. Turbine plans come with an unlimited build license, unless part of a Technology Guide special, in which case one build is included.

Fully built ROT12 includes crate and shipping to any North America location. Also included is an additional 10 kW PMA generator.

IT10 Revenue based on gross sales or grid savings, not including cost of acquiring waste heat flow or pumps.

Revenue from IT10 (24 hours x 365 days per year x 10 kWh = 87,600 kWh per year):

at \$.20 per kWh = \$17,520 USD per year

at \$.40 per kWh = \$35,040 USD per year

at \$.80 per kWh = \$70,080 USD per year

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IT10 ROT 12 ORC Turbine

The IT10 ROT 12 ORC turbine was designed for refrigerants such as R245fa.

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