

5/1/2022

rot06

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Infinity Turbine  
LLC

ROT06 Radial Outflow Turbine ORC



### Structured Data

This webpage QR code

Company Name: Infinity Turbine LLC  
 Product: ROT 06 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

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PDF Version of the webpage (first pages)

# ROT06 Turbine Generator Plans and Blueprints

Pricing: Please refer to price list or email Infinity.



## ROT 06 Turbine Design

ROT Radial Outflow Turbine has a 6 inch diameter (ROT06). The ROT06 can drive (depending on pressure) a 1-5 kW generator. We have tested the ROT06 on compressed air of only 80 psi and was able to get up to half of our resistance light board lighted (there are 5x 200 watt lights per row and up to 10 rows of lights). The turbine design is unique in that it uses the generator shaft and bearings for support, and a simple pipe with Gruvlok or Victaulic couplings to seal in the pressure. The flat end plates (discs) are easily waterjet or machined out of aluminum or stainless steel. If you are using CO2 or water steam for the working fluid, we suggest more durable bearings that will tolerate the pressurized environment. You can also use a shaft seal to isolate the turbine section, and put the DC or AC generator outside, which does not require any special bearing lubrication that is tolerant to the inside turbine working fluid.

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## Plans Download:

The plans include images of each component in (jpg/png) and .pdf views.

The machine ready files include dwg, dxf, xt and we can provide other files on request from our AutoDesk suite of Cad/Cam software.

The files are provided by a FTP download.

The license is for the turbine blueprints only, and does not include any support (optional).

If you would like system blueprints (bill of materials, heat exchangers, pump motor, frame, piping, etc.) for our Supercritical CO2 or standard R245fa, or R134a, please contact Infinity.



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