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radial-inflow-turbine-12-inch-diameter-laser-cut-for-orc-applications by

Infinity Turbine
LLC

Radial Inflow Turbine 12 Inch Diameter
Laser Cut for ORC Applications by Infinity
Turbine



This webpage QR code

Structured Data

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Company Name: Infinity Turbine LLC
 Product: 12 Inch Laser Cut Radial Inflow Turbine
 Applications: ORC, Compressed Air, and CO2
 Construction: Aluminum, Stainless Steel, or Cast Composites
 Uses: Organic Rankine Cycle miniature power production from waste heat.
 Benefits: Turbine has simple fabrication by cutting 2D parts via waterjet or laser, then bolted to plates to form a complete assembly.

PDF Version of the webpage (first pages)

<https://infinityturbine.com/radial-inflow-turbine-12-inch-diameter-laser-cut-for-orc-applications-by-infinity-turbine.html>

Radial Inflow 12 Inch Turbine

The IT 10 Redstone Turbine is an experimental turbine designed for small scale power production for the home or low power applications (IT10 1-10 kW).

Project Goals: Make turbine fabrication simple by cutting 2D parts via waterjet or laser, then bolt to plates to form a complete assembly.

Working Fluid: R-245fa, R-134, Compressed Air, pressurized water, and a Stainless Steel version with CO₂.

Rapid-Configuration: This assembly allows you to quickly configure turbines and test various working fluids and heat sources. The basic design is for 300 psi or less.

Magnetic Coupling or Large Diameter Gruvlok Pipe Housing Assembly: The unique design has a basic 12 inch diameter which allows for direct-to-motor generator mounting or magnetic coupling and follower, which allows you to have a generator or drive unit mounted exterior.

Plans and licensing available.

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

4/15/2024

Radial Inflow 12 Inch Turbine Outer Stator

Outer stator.

4/15/2024

Radial Inflow 12 Inch Turbine Outer Stator

Back Plate.

4/15/2024



