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model-it-micro-radial-turbine-with-pump-orc-by-infinity-turbine

**Infinity Turbine
LLC**

**IT Micro Radial Turbine with Pump ORC for
Waste Heat to Energy Applications by
Infinity Turbine**



This webpage QR code

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Company Name: Infinity Turbine LLC
 Product: IT Micro Radial Turbine with Pump
 Applications: Micro ORC Turbine with integral liquid pump
 Construction: Metal or composites
 Uses: Exotic channel micro turbine with common shaft pumping
 Benefits: Compact common shaft design turbine which allows complex and exotic liquid pumping channels for multiple flow paths, like the Tesla octopus valve which is similar to the Modular Block

PDF Version of the webpage (first pages)

<https://infinityturbine.com/model-it-micro-radial-turbine-with-pump-orc-by-infinity-turbine.html>

IT Micro Turbine with Integral Liquid Pump

Micro common shaft turbine with integral liquid pump and cavitation heater. Endless applications for ORC and water and liquid CO2 working fluid uses.

Expander (turbine): ORC, Organic Rankine Cycle, Steam, Refrigerants, CO2, compressed air

Compressor (pump): water, CO2, air

Common Shaft: Allows spool up of Tesla disc pump and cavitation applications.

Built and tested working.

Plans and licensing available.

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IT Micro Turbine with Integral Liquid Pump Assembly

The turbine housing is modular and attached using standard stainless steel 3/8 inch fasteners.

IT Micro Turbine with Integral Liquid Pump Assembly

The turbine is a common shaft horsepower application which can be used for either expander or compressor applications. We have tested the cavitation disc on water and liquid CO₂.

Complete plans may be purchased which includes licensing.

IT Micro Turbine

The turbine is a common shaft horsepower application which can be used for either expander or compressor applications. We have tested the cavitation disc on water and liquid CO₂.

Liquid and gas channel passages can be used for expander, compressor, or hybrid applications (both compressor and expander). The Tesla discs and cavitation discs add hundreds of possibilities, including SDR, Spinning Disc Reactor processing capabilities.

Complete plans may be purchased which includes licensing.

IT Micro Turbine Pump Block

Liquid and gas channel passages can be used for expander, compressor, or hybrid applications (both compressor and expander). The Tesla discs and cavitation discs add hundreds of possibilities, including SDR, Spinning Disc Reactor processing capabilities.

The blocks have common threaded bores for connecting tubes, pipes, view ports, sensors, and robot parts.

Complete plans may be purchased which includes licensing.

IT Micro Turbine Cavitation Disc

The Cavitation disc can be used for preheating liquid (fuel, working fluid, water, CO₂, and more), and making CO₂ go supercritical (simple shaft driven Rankine Cycle phase change CO₂ turbine).

We have tested a cavitation disc with liquid CO₂ and it rapidly goes supercritical when spun up.

Complete plans may be purchased which includes licensing.

IT Micro Turbine Tesla Disc

The Tesla discs can be used for pumping or expanding liquid (fuel, working fluid, water, CO₂, steam, vapor, pressurized flow, and more).

Complete plans may be purchased which includes licensing.
