

model-it-mini-co2turbine-commonshaft-drive-pumpby-infinity-turbine

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This webpage QR code

Infinity Turbine LLC

IT Mini CO2 Turbine Common Shaft Drive Pump for Waste Heat to Energy Applications by Infinity Turbine

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Drive PumpApplications: Mini CO2 or High Pressure Turbine with integral liquid pumpConstruction:
      Metal or compositesUses: Exotic channel micro turbine with common shaft pumpingBenefits:
  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'
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Company Name: Infinity Turbine LLC

Product: IT Mini CO2 Turbine Common Shaft Drive

Pump

Applications: Mini CO2 or High Pressure 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

IT Mini CO2 Turbine with Integral Liquid Pump

	Mini turbine assembly with common shaft turbine for integral liquid pump and cavitation heater. Endless applications for ORC and water and liquid CO2 working fluid uses.					
Expander (turbine): CO2, ORC, Rankine Cycle, Steam, Refrigerants, CO2, compressed air Compressor (pump): water, CO2, air						
	Common Shaft: Allows spool up of Tesla disc pump and cavitation applications.					
	Cavitation Disc: Can be used for making fluids go supercritical (ex. CO2), or can be plugged with magnets to produce induction heating.					
	Built and tested working.					
	Plans and licensing available.					
	4/15/2024					

IT Mini CO2 Turbine Expander								
The expander is designed for higher pressure flow.								
4/15/2024								
7/ 10/ 2027								

IT Mini CO2 Turbine Assembly							
The assembly is designed for expansion and compression functions.							
4/15/2024							

IT Mini CO2 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.							
4/15/2024							

IT Mini CO2 Mid 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.							
4/15/2024							

	IT Mini CO2 Adapter Block								
The blocks have common threaded bores for connecting tubes, pipes, view ports, sensors, and robot parts.									
	4/15/2024								

