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model-it250-organic-rankine-cycle-turbine-generator-commercial

IT250 Waste Heat to Power System ORC

Infinity Turbine
LLC



This webpage QR code

Structured Data

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Company Name: Infinity Turbine LLC
 Product: IT250 System Plans
 Working Fluid: Refrigerants such as R245fa
 Machine: ORC and ROT Radial Outflow Turbine System
 Industry: Energy
 Applications: Waste heat to power, utilities, server farms, bitcoin mining, hot geothermal

PDF Version of the webpage (first pages)

<https://infinityturbine.com/model-it250-organic-rankine-cycle-turbine-generator-commercial-system-from-infinity-turbine.html>

IT250 System Plans

Infinity offers both the ROT turbine plans and the IT250 system plans as a separate package.

We recommend the ROT24 for the IT250.

Design Heat Exchangers ASME Rated Pressure - Evaporator R-245fa: 450 psi at 300 F shell side, and 150 psi 300 F on tube side. Welding procedures included. Condenser R-245fa: 450 psi at 250 F shell side, and 150 psi 250F on tube side.

IT250 Revenue based on gross sales or savings, not including cost of acquiring waste heat flow or pumps.

Revenue from IT250 (24 hours x 365 days per year x 250 kWh = 2,190,000 kWh per year):

at \$.20 per kWh = \$438,000 USD per year
at \$.40 per kWh = \$876,000 USD per year
at \$.80 per kWh = \$1,752,000 USD per year

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PureCycle

The IT250 was designed in relation to the PureCycle system.

Grid Tie Device

Our induction AC generators require a grid tie device, which can be found on the link below from Sieb Meyer in Germany.



