

2/22/2024

# orc-builders-guide

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Infinity Turbine  
LLC

Organic Rankine Cycle Builders Guide



This webpage QR code

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Discover the ultimate guide to building an Organic Rankine Cycle (ORC) turbines. Gain expert insights, step-by-step instructions, and valuable tips for constructing your own ORC turbine for renewable energy generation. ORC Turbine Builders Handbook Guide.

PDF Version of the webpage (first pages)

<https://infinityturbine.com/orc-builders-guide.html>

## ORC Turbine Builders Handbook Guide

Discover the ultimate guide to building an Organic Rankine Cycle (ORC) systems.  
Gain expert insights, step-by-step instructions, and valuable tips for constructing your own ORC system for renewable energy generation.

Includes plans and license to build one unit each:

- ROT 06 Turbine
- ROT 12 Turbine (and waterjet machining plans)
- IT10 System

File types included: images, pdf, dxf, stp.

Additional and bulk licenses available.

Price: \$999

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## IT50

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.

Turbine may be used most efficiently at 50 kW, but may also be used for a range of turbines from 30 kW to over 100 kW.

IT50 Revenue based on gross sales or savings, not including cost of acquiring waste heat flow or pumps.

Revenue from IT50 (24 hours x 365 days per year x 50 kWh = 438,000 kWh per year):

at \$.20 per kWh = \$87,600 USD per year

at \$.50 per kWh = \$219,000 USD per year

at \$1.00 per kWh = \$438,000 USD per year

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