



20240410

All Prices **U.S. Dollars** unless otherwise noted. Shipping and crating is not included. Specifications are subject to change. Final data, dimensions, and specifications will be on invoice or contracts. Any special prices will be given on formal quotes and invoices. Large systems require a grid-tie interconnection device to connect to the grid. All turbines, systems, and plans are sold "as-is."

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| ORC Turbine Generator Only • Working psi up to 200 psi • Compressed Air • R245fa AC Induction Generator Requires Grid Tie Device • Experimental | | | | |
|---|--|-----------------------------|------------------------------------|---------------------------|
| 2015 Model | Mag Coupling Shaft Size - Max Power | Ports (NPT) Inlet/Outlet | Dimensions inches(metric) | Turbine With Generator |
| IT10 | ROT 12 DC Turbine | 1-10 kW 1 inch | (experimental with additional PMA) | \$20,000 DC Gen |
| IT10 | ROT 15 Turbine | 1-10 kW 1 inch | (experimental) | \$30,000 AC Gen |
| IT250 | ROT 24 Turbine | 300 kW direct drive | 8-10" Input | \$300,000 AC Gen |
| Note: The ROT24 Turbine can be derated to work for the IT50, or can be doubled for a 600kW with larger generator. | | | | |

| CO2 ORC Compete Systems • Uses Liquid CO2 not included • Working pressure up to 2,000 psi 30-65 C Temp This is a ORC System - Not a Brayton Cycle System • New Concept Turbine Generator • Experimental | | | | |
|---|--|------------|--------------|-----------|
| Model | Heat Exchanger | BTU input | Flow GPM | Price |
| ITCO2 | Supercritical CO2 Rankine Cycle Demonstrator | Flat Plate | Experimental | \$199,000 |
| Experimental Prototype System for compressed air and liquid CO2 only. Removable high pressure filter assembly expansion housing. Does not include CO2 turbine. Includes chiller, installation kit, international crate, freight, insurance. | | | | |

| ORC Compete Systems • Uses R245fa not included • Working pressure up to 200 psi 80-110 C Temp ORC Systems with AC Generator require grid tie device for connection to grid and PLC for operation | | | | | |
|--|--------------------------------------|----------------|----------------------|-----------------|-----------|
| Model | Net Power Output (turbine-generator) | Heat Exchanger | BTU input (kWt) | Flow GPM(lpm) | Price |
| IT10 | Using IT10 R245fa up to 10 kW DC | Flat Plate | 400,000 btu | 10-30 gpm | \$50,000 |
| IT50 | Radial Outflow Turbine AC Gen 50 kW | Shell / Tube | 2.5 mmbtu (733 kWt) | 140 gpm (530) | \$200,000 |
| IT100 | Radial Outflow Turbine AC Gen 100 kW | Shell / Tube | 5 mmbtu (1,600 kWt) | 280 gpm (1,060) | \$300,000 |
| IT250 | Radial Outflow Turbine AC Gen 250 kW | Shell / Tube | 12 mmbtu (3,517 kWt) | 600 gpm (2,271) | \$500,000 |

| ORC Turbine and System Plans (support and system plans are separate - Price is for unlimited production non-exclusive territory - please email for quote on exclusive licensing) | | | |
|---|----------------------------|------------|---------------|
| Model | Plans for ORC System | Blueprints | Build License |
| Axial AT10 Turbine Only | Axial Turbine Blueprints | \$10,000 | Included |
| ROT06 Turbine Only | ROT06 Turbine Blueprints | \$10,000 | Included |
| ROT15 Turbine Only | ROT15 Turbine Blueprints | \$10,000 | Included |
| ROT24 Turbine Only | ROT24 Turbine Blueprints | \$10,000 | \$90,000 |
| IT250 Inflow Radial Turbine Only | 13 inch Turbine Blueprints | \$10,000 | Included |
| IT250 System Blueprints for ROT24 or Inflow Radial (similar to PureCycle system for R245fa) | | \$10,000 | \$90,000 |

ORC Feedpump • Feedpump with 35 cc/rev - 1 to 10 gpm • 200 psi • 800 psi optional add-on

| Feedpump (This is the C Face Feedpump only. Can be used with IT10 or IT50 System.) | |
|---|--|
| Feedpump (pump head only) for R134a and R245fa: Price \$5,000 | With IT10 AC Motor: \$5,000 35 cc/rev. 1-10 gpm. |
| For IT50 pump head only - Price \$15,000 | |
| Feedpump (pump head only) For Liquid CO2 - Experimental: Price \$7,000 | |
| 2 HP DC Motor - with AC Variable Speed Drive - Add On: \$5,000 35 cc/rev. 1-10 gpm. | |



Infinity Turbine Manufacturing Package and 2024 ROT Build License

Infinity is now offering a manufacturing program which includes a waterjet and vertical milling machine so you can make your own turbine rotors and parts. Larger parts can now be easily manufactured and is now the most advanced affordable manufacturing process which is now available through Infinity Turbine.

2024 Turbine ROT Design and 2014 Radial Inflow Design.

Price: \$1,800,000 USD + \$2,000,000 USD Equipment •

Waterjet Cutting size up to 4 x 8 ft.

- Vertical Milling Machine Working Size 48 L x 24 W inches
- For IT10, IT50, IT100, IT250 - Direct Drive AC Generator

Package Includes The Following Equipment, Licensing and Services

A. Waterjet System and Vertical Milling Machine

Includes a waterjet machining system and vertical milling machine, and training.

B. ORC License

Includes IT10, IT50, IT100 and IT250 system and all ROT and other turbine blueprints. Bill of materials, suppliers, and basic PLC programming. License is for unlimited production.

C. Consulting / Training

Includes 12 months of consulting with our support technician via Skype and email. Up to 50 hours per month. Support is included for one primary contact (all support must go through one of your staff, not the entire staff).

D. PID and System Customer Sizing Application

Includes basic system sizing and application assessment computer solution. Using FileMaker running on Windows or Mac. Basic power information for both ORC and CO2 applications including estimated power and heat flows.

E. Parts Buying Discount

Allows a large discount on buying any turbine housing parts from Infinity Turbine. Other parts on discount as available.

F. One Year Web Page Listing

Allows a page of your company listing on our website as a ORC manufacturer for one year.

G. One Year Country Exclusive

We'll not sell any manufacturing programs to any group in your country from time of purchase.

H. Terms: Please email for offer.





Standard Refrigerant Feed Pump Information For R134a and R245fa

Standard R134a and R245fa Pump Data:

External Gear Transfer Pump with Single-lip Seal (PTFE)
ZPA 2-35,4-N-L-F-10/1F /PTFE

Technical Details:

Flow Details (theoretical)
Flow @ 725 rpm: 6.75 gpm
Flow @ 900 rpm : 8 gpm
Estimated efficiency 70%
20 bar liquid refrigerant R245fa

Data:

1.5 kW Drive
20 bar
35.4 cc/rev : Refrigerant 245fa
G 3/4" (1"npt fitting) : G 3/4" (1"npt fitting) : PTFE

Bellhousing and coupling to connect pump- motor assembly Includes: bellhousing and mechanical coupling to connect ZPA 2 pump to specified motor

Motor Required: 1-2 HP motor single phase 115/230 V, 3600 rpm, 56C Mounting.
We recommend a Variable Frequency Drive. Option is a DC Motor with integrated speed control. 1.5hp 2500 RPM 180 Volts DC 56C Frame TEFC Leeson Electric Motor and Basic Variable-Speed DC Motor Controller for 1/4 to 2 hp motors (Cole Palmer or equivalent). Expect up to 10 percent of gross ORC system output to power system and feedpump.

CO2 Feed Pump Information
(please email for information)



Need Strategy? Use our Consulting and analyst services:

Infinity Turbine LLC is pleased to announce its consulting and analyst services. We present data in logical, easy to understand format with links for additional research or verification of data.

Energy: Since 1985, we have worked in the renewable energy industry as a researcher, developing sales and markets, along with many inventions and innovations. A wide breadth of subjects and project development includes some of the following subjects.

Minimum contract \$4,999. Up to 10 hours of consulting. Sold as-is and provided on a best efforts basis.

All time is documented and a summary log will be provided when requested.

Unused credit may be used for a period of six months after invoice date.

Consulting is provided via telephone, email, or other media as agreed to in writing (email).

Minimum billing is 30 minutes, so it is recommended to have questions, support, and consulting for at least that period of time.

References available.

Payment methods include PayPal (credit card) or bank wire transfer.

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