



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."

<b>ORC Turbine Generator Only • Working psi up to 200 psi • Compressed Air • R245fa</b> 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.

<b>CO2 ORC Compete Systems • Uses Liquid CO2 not included • Working pressure up to 2,000 psi 30-65 C Temp</b> 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.

<b>ORC Compete Systems • Uses R245fa not included • Working pressure up to 200 psi 80-110 C Temp</b> ORC Systems with AC Generator require <b>grid tie device</b> for connection to grid and <b>PLC</b> 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	\$99,000
IT50	Radial Outflow Turbine AC Gen 50 kW	Shell / Tube	2.5 mmbtu (733 kWt)	140 gpm (530)	\$500,000
IT100	Radial Outflow Turbine AC Gen 100 kW	Shell / Tube	5 mmbtu (1,600 kWt)	280 gpm (1,060)	\$800,000
IT250	Radial Outflow Turbine AC Gen 250 kW	Shell / Tube	12 mmbtu (3,517 kWt)	600 gpm (2,271)	\$1,500,000

<b>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)</b>					
Model	Plans for ORC System	Drawing	Consulting	Blueprints	Build License
Axial AT10 Turbine Only	Axial Turbine Blueprints	\$100/hr	See page 6	\$10,000	Included
ROT06 Turbine Only	ROT06 Turbine Blueprints	\$100/hr	See page 6	\$10,000	Included
ROT15 Turbine Only	ROT15 Turbine Blueprints	\$100/hr	See page 6	\$10,000	\$100,000
ROT24 Turbine Only	ROT24 Turbine Blueprints	\$100/hr	See page 6	\$10,000	\$500,000
IT250 Inflow Radial Turbine Only	13 inch Turbine Blueprints	\$100/hr	See page 6	\$10,000	\$150,000
IT250 System Blueprints for ROT24 or Inflow Radial (similar to PureCycle system for R245fa)		\$100/hr	See page 6	\$10,000	\$150,000

Hourly Consulting: See page 6. Email quote for per day on location plus all travel expenses. Monthly discounts available.

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

<b>Feedpump</b> (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 2023 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.

2021 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 turbine blueprints. Bill of materials, suppliers, and basic PLC programming. License is for unlimited production. Updates to blueprints available as subscription fee.

**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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