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# november-2024-special-turbine-plans-10000-by-infinityturbine

**Infinity Turbine  
LLC**

**2024 November Special Buy Turbine and  
System Plans for \$10000 Which Includes  
Unlimited Build License**



**This webpage QR code**

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2024 November Special Buy Turbine and System Plans for \$10000 Which Includes Unlimited Build License

**PDF Version of the webpage (first pages)**

<https://infinityturbine.com/november-2024-special-turbine-plans-10000-by-infinityturbine.html>

## ROT24 Radial Outflow Turbine AC Induction Generator Plans and Blueprints

ROT 24 can be used for IT50 and IT250. With dual configuration can be used for 600 kW or larger.

Plans and License: \$10,000 November Special

Manufacturing: Unlimited

Machining:

Waterjet or 2D CNC: Yes. Can cut individual foils and parts, then bolt together to make complete rotor and stator. We used a Omax Waterjet to make the rotor and stator.

Milling Machine: Yes. With 24 inch working area, can machine rotor in one part, and stator in one part. We also used a Haas Vertical milling machine to make the rotor and stator.

Other Parts: Require mill or drill press and other common tools.

Bearings: Turbine uses the induction generator/motor bearings and rotor is installed directly to the shaft, saving huge amounts of time and money for a coupling and seals.

Working Fluid: We have used this system with compressed air, R245fa, and R134fa.

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## IT250 System Plans

This is for the IT250 System Plans only. The plans come with a legacy inflow radial design for a gearbox connection to synch. AC generator.

We recommend the ROT24 turbine for this system, if you want a more modern version.

Plans and License: \$10,000 November Special

Manufacturing: Unlimited

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. You can build the shell and tube heat exchangers, have them contract built, or buy a new or used chiller at similar size.

Turbine may be used most efficiently at 250 kW-300 kW.

The IT250 is designed to produce 250 kW of AC power (typically configured for a Grid-Tie connection when used with a ROT24 turbine generator).

## Infinity Turbine IT50 System Plans

Infinity offers both the ROT turbine plans and the IT50 system plans as a separate package.

Plans and License: \$10,000 November Special

Manufacturing: Unlimited

We recommend the ROT24 for the IT50, even if it is derated.

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. You can build the shell and tube heat exchangers, have them contract built, or buy a new or used chiller at similar size.

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.

The IT50 is designed to produce 50 kW of AC power (typically configured for a Grid-Tie connection). We have produced several IT50 systems in the past few years. They take about 6 months to complete, and can be shipped in a standard 20 ft. shipping container.

## IT10 kW ORC System Plans

Plans and License: \$10,000 November Special

Manufacturing: Unlimited

IT10 System Plans include your choice of a ROT06, or ROT12 turbine plans.

## ROT15 Radial Outflow Turbine AC Induction Generator Plans

Plans and License: \$10,000 November Special

Manufacturing: Unlimited

Machining:

Waterjet or 2D CNC: Yes. Can cut individual foils and parts, then bolt together to make complete rotor and stator. We used a Omax Waterjet to make the rotor and stator.

Milling Machine: Yes. With 15 inch working area, can machine rotor in one part, and stator in one part. We also used a Haas Vertical milling machine to make the rotor and stator.

Other Parts: Require mill or drill press and other common tools.

Bearings: Turbine uses the induction generator/motor bearings and rotor is installed directly to the shaft, saving huge amounts of time and money for a coupling and seals.

Working Fluid: We have used this system with compressed air, R245fa, and R134fa.

The ROT15 Radial Outflow Turbine has a 15 inch diameter. The ROT15 can drive (depending on pressure) a 10 to 50 kW generator. If an induction AC motor generator is used, you will need a grid tie device. This design is for 300 psi or lower working pressures.

## ROT12 Radial Outflow Turbine DC Generator Plans

Plans and License: \$10,000 November Special

Manufacturing: Unlimited

The ROT12 Radial Outflow Turbine with DC Generator was designed for the IT10 system.

Machining:

Waterjet or 2D CNC: Yes. Can cut individual foils and parts, then bolt together to make complete rotor and stator. We used a Omax Waterjet to make the rotor and stator.

Milling Machine: Yes. With 24 inch working area, can machine rotor in one part, and stator in one part. We also used a Haas Vertical milling machine to make the rotor and stator.

Other Parts: Require mill or drill press and other common tools.

Bearings: Turbine uses the induction generator/motor bearings and rotor is installed directly to the shaft, saving huge amounts of time and money for a coupling and seals.

Working Fluid: We have used this system with compressed air, R245fa, and R134fa.

## Radial Inflow 12 Inch Turbine Plans

Plans and License: \$10,000 November Special

Manufacturing: Unlimited

The IT 10 Redstone Turbine is an experimental turbine designed for small scale power production for the home or low power applications (IT10 1-10 kW).

Working Fluid: R-245fa, R-134fa, Compressed Air, pressurized water.

Rapid-Configuration: This assembly allows you to quickly configure turbines and test various working fluids and heat sources. The basic design is for 300 psi or less.

Magnetic Coupling or Large Diameter Gruvlok Pipe Housing Assembly: The unique design has a basic 12 inch diameter which allows for direct-to-motor generator mounting or magnetic coupling and follower, which allows you to have a generator or drive unit mounted exterior.



# ROT06 Turbine Generator Plans

Plans and License: \$3,000 November Special

ROT Radial Outflow Turbine has a 6 inch diameter (ROT06). The ROT06 can drive (depending on pressure) a 1-5 kW generator. We have tested the ROT06 on compressed air of only 80 psi and was able to get up to half of our resistance light board lighted (there are 5x 200 watt lights per row and up to 10 rows of lights). The turbine design is unique in that it uses the generator shaft and bearings for support, and a simple pipe with Gruklok or Victaulic couplings to seal in the pressure. The flat end plates (discs) are easily waterjet or machined out of aluminum or stainless steel. If you are using CO2 or water steam for the working fluid, we suggest more durable bearings that will tolerate the pressurized environment. You can also use a shaft seal to isolate the turbine section, and put the DC or AC generator outside, which does not require any special bearing lubrication that is tolerant to the inside turbine working fluid.

## **IT Mini CO2 Turbine with Integral Liquid Pump**

Plans and License: \$10,000 November Special

Manufacturing: Unlimited

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.

Experimental Expander (turbine): CO2, ORC, Rankine Cycle, Steam, Refrigerants, CO2, compressed air.



## IT Micro Radial Turbine Plans

Plans and License: \$10,000 November Special

Manufacturing: Unlimited

The IT Micro Radial Turbine is designed for small scale power production for the home or low power applications (less than 5 kW).

Working Fluid: R-245fa, R-134, Compressed Air, pressurized water, and a Stainless Steel version with CO<sub>2</sub>.

Modular Block Assembly: Used since 2008, our Modular Block concept has been used in hundreds of turbine prototypes and production assemblies. This version uses square blocks with 3/8 fasteners and threaded bores.

Purpose: Small power production.

Rapid-Configuration: This assembly allows you to quickly configure turbines and test various working fluids and heat sources. The basic design is for 300 psi or less, which is determinant on the back magnetic coupling block which is made from HDPE. If you can make from nonmagnetic metal or composite fiber for a thicker (stronger) back, then you can use flows with greater pressure.

Magnetic Coupling: The design has a basic 2 inch diameter magnetic coupling and follower, which allows you to have a generator or drive unit mounted exterior.

## Axial Turbine Plans

Plans and License: \$3,000 November Special

Manufacturing: Unlimited

The IT Axial Turbine is designed for small scale power production for the home or low power applications (less than 5 kW). This type turbine uses lots of flow (similar to a air turbine).

Working Fluid: R-245fa, R-134, Compressed Air, pressurized water.

Purpose: Small power production.



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