

## Water-to-Water: a massive opportunity to do good.

Our Water-to-Water unit uses renewable energy to produce clean water from seawater, brackish water, or contaminated water sources.

### How Rainmaker's Water-to-Water technology works.

Using a Membrane Distillation process, water is evaporated under low pressure by a heat pump condensation process that recycles the heat through an evaporator. The vapour produced from heating the water passes through the vapour-selective and hydrophobic membranes.

This membrane only allows water vapour to diffuse through, unlike Reverse Osmosis where water containing dissolved salts and other solids pass through the membrane.

The pores in this membrane are also larger than the pores in Reverse Osmosis membranes so there is less pressure and energy required as a result. The driving

force of this technology is the partial pressure difference (temperature difference) between each side of the membrane pores.

They can be efficiently powered by wind, solar, grid, generator, or combinations. Water can now be produced at the point of use, eliminating transportation and distribution costs.

Water-to-Water units are available in three sizes, producing 37,500, 75,000 or 150,000 liters of drinking water per day.

### Requirements for Rainmaker's Water-to-Water production.

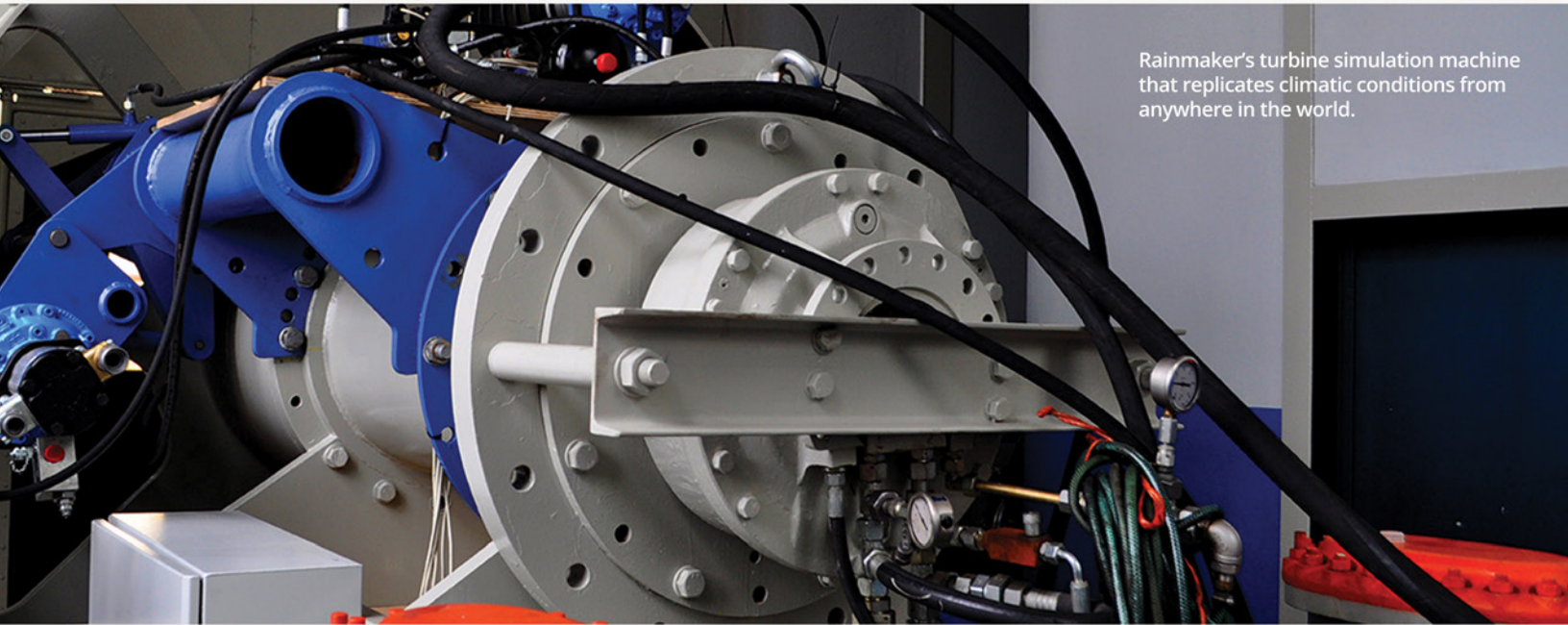
- For wind-powered, wind speed of 3 – 18 meters per second (6.7 – 40 miles per hour)
- The footprint is small, so our technology can be located near source water and where the clean water is needed
- Water production can be scaled up simply by adding more units
- Operational within 14 days from the equipment arrival on site



Regions with the best wind and temperature conditions for Rainmaker technology

## Rainmaker's Water-to-Water product line.

Our Water-to-Water system can be powered by a variety of energy sources with varying output capacities. Deployment can be as fast as 90 days after purchase order. Units are operational within 14 days after containers arrive on location.



Rainmaker's turbine simulation machine that replicates climatic conditions from anywhere in the world.

***WW-W100 Wind Powered***

Rated daily output: Up to 150,000 liters per day  
Minimum wind speed: 6.7 – 40 miles per hour  
Power input: 100kW

***WW-WS100 Hybrid – Wind and Solar Powered***

Rated daily output: Up to 150,000 liters per day  
Minimum wind speed: 6.7 – 40 miles per hour  
Power input: 100kW

***WW-WG100 Hybrid – Wind and Grid / Generator Powered***

Rated daily output: Up to 150,000 liters per day  
Minimum wind speed: 6.7 – 40 miles per hour  
Power input: 100kW

***WW-SO50 Solar Only Powered***

Rated daily output: Up to 37,500 liters per day  
Power input: 50kW

***WW-SO100 Solar Only Powered***

Rated daily output: Up to 75,000 liters per day  
Power input: 100kW

***WW-GO50 Grid / Generator Only Powered***

Rated daily output: Up to 75,000 liters per day  
Power input: 50kW

***WW-GO100 Grid / Generator Only Powered***

Rated daily output: Up to 150,000 liters per day  
Power input: 100kW

**Contact us to learn more:**

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