eurosafetygroup water

Water-to-Water product sheet

Water-to-Water: A massive opportunity to do good.

Transforming contaminated water (saltwater, sewage, polluted) into safe, clean water.

How 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.

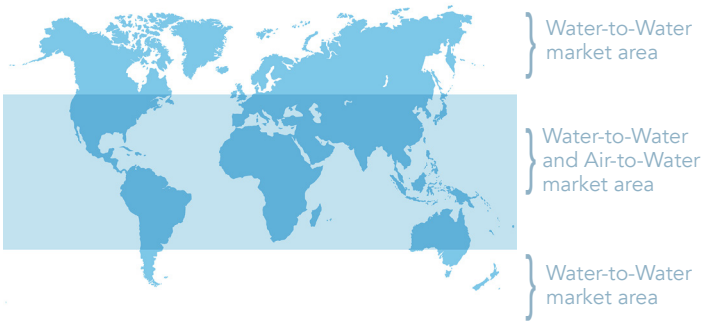
The pores in this membrane are also larger than the pores in Reverse Osmosis membranes so there is less pressure and energy required as a result. The driving force of this technology is the partial pressure difference (temperature difference) between each side of the membrane pores.

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 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



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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.

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

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