eurosafetygroup water

Air-to-Water product sheet

Air-to-Water: Harvesting fresh water from airborne humidity.

Air-to-Water technologies provide communities with local, sustainable and affordable acces to clean water.

How Air-to-Water technology works

It is possible to harvest water from air almost anywhere in the world. Our core Air-to-Water unit uses a turbine that forces air through a heat exchanger, where the air is cooled and condensation takes place. A hybrid solution (solar/wind/grid) can be deployed to the same effect by driving a ventilation system.

Lowering the temperature of air requires minimal energy. When the temperature falls below its dew point, water droplets will form. These droplets then collect in a water storage compartment.

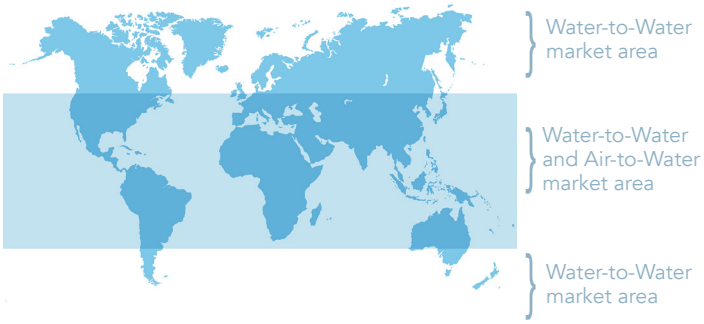
The water production of the Air-to-Water system depends on the environment. The actual amount of water that can be produced in a particular location will depend on the average wind speed, the ambient temperature, and the relative humidity.

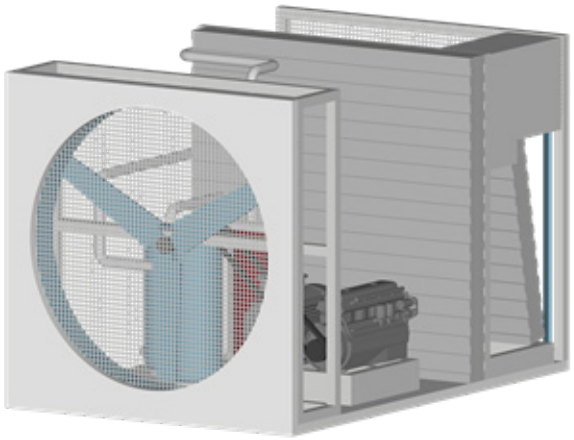
To make the system work under different conditions, the turbine can be adapted to the environment in which it will be used, such as adjusting the blade diameter and the height of the tower to maximize the efficiency of the unit. The turbine can also be combined with solar and/or traditional power to maximize water production. In each case, our engineers will optimize a solution for every customer.

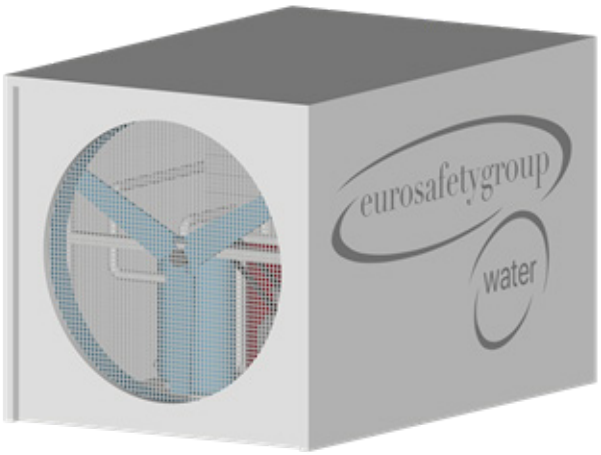
Our Air-to-Water units use renewable energy and are available in three sizes, producing 5,000, 10,000 or 20,000 liters of drinking water per day.

Requirements for Water-to-Water production

- Minimum air temperature: > 15°C / 59°F
- 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 where the water is needed
- Water production can be scaled up simply by adding more units
- Operational within 14 days from the equipment arrival on site







Air-to-Water product line

Our Air-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.

AW-W100 Wind Powered
Rated daily output: Up to 20,000 liters per day
Minimum wind speed: 6.7 – 40 miles per hour
Power input: 100kW

AW-WS100 Hybrid – Wind and Solar Powered
Rated daily output: Up to 20,000 liters per day
Minimum wind speed: 6.7 – 40 miles per hour
Power input: 100kW

AW-WG100 Hybrid – Wind and Grid / Generator Powered
Rated daily output: Up to 20,000 liters per day
Minimum wind speed: 6.7 – 40 miles per hour
Power input: 100kW

AW-SO50 Solar Only Powered
Rated daily output: Up to 5,000 liters per day
Power input: 50kW

AW-SO100 Solar Only Powered
Rated daily output: Up to 10,000 liters per day
Power input: 100kW

AW-GO25 Grid / Generator Only Powered
Rated daily output: Up to 5,000 liters per day
Power input: 25kW

AW-GO50 Grid / Generator Only Powered
Rated daily output: Up to 10,000 liters per day
Power input: 50kW

AW-GO100 Grid / Generator Only Powered
Rated daily output: Up to 20,000 liters per day
Power input: 100kW

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