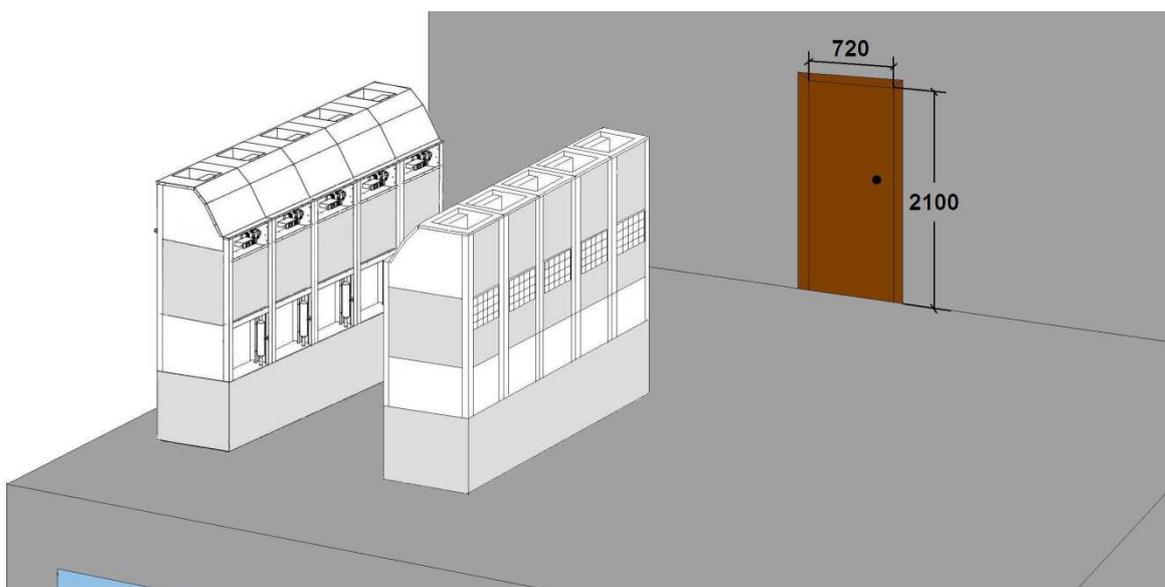


Why do we only make two formats?

RAY AGUA provides a custom made and personalized water source, in just two formats, with unlimited capacity of drinking water production, thanks to the modularity of these universal units.

The dimensions of these two modules adjust to the maximum allowable size; the volume does not exceed international standards of merchandise, easy handling and transportation guarantee great worldwide logistics. In addition, these formats have a high production performance and minimal electrical consumption, which ensures that it will be economically efficient.

AQ250 is the smallest module, its dimensions are 600 mm wide x 600 mm deep x 2000 mm high and is recommended for outdoor use. With these measurements, it is very easy to situate each unit (both individual format and in groups) in an open space (patios, terraces, balconies, etc., which have limited access due to its construction). Just two people can manage each unit and easily overcome any architectural barrier of a building (doors, staircases, corridors, elevators, etc.).



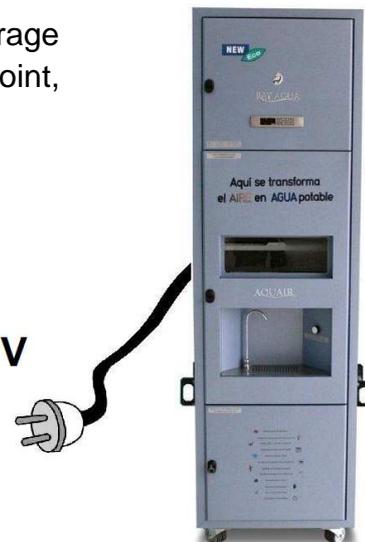
Ten AQ250 units on the roof of building



Just two operators for moving the AQ250

Its electrical connection is single-phase, with an average consumption of 1.8 kWh and a standard power point, accessible to everyone.

1- 50 Hz - 220 V



Maintenance is simple and fast, requires no skilled labor, anyone can do it. Only a simple periodic cleaning of the water collect compartment and filter replacement will be necessary.

The water treatment system ensures that the water produced is safe and suitable for human consumption.

Why don't we make smaller formats?

Our AQ250 units are able to generate the same small amount of water for lower price than the other smallest machines (30 liters capacity) available in the market.

A cost comparison of water (30 liters per day) produced by modules with different generating capacities

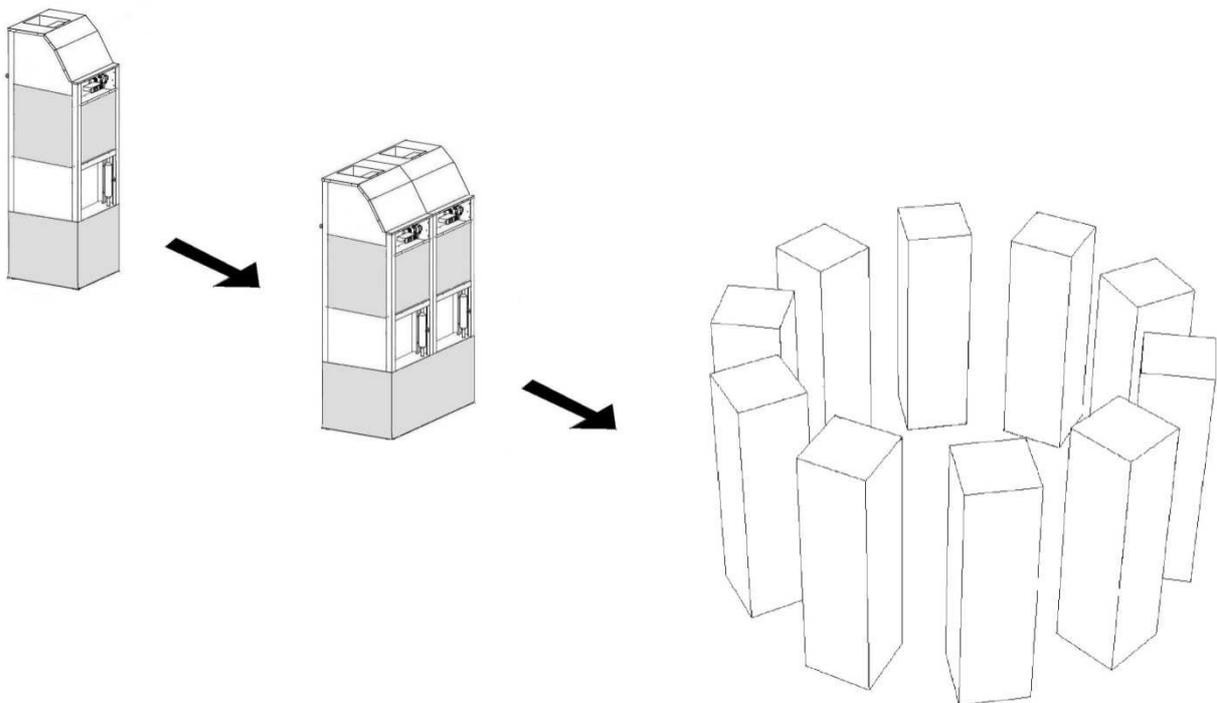
	AQ250	EQ30
Price of one unit	4.500 €	1.100 €
High production	250 litres	30 litres
Daily water production	30 litres	
Useful life of each unit	10 years*	10 years
Time spent on produce 30 litres	3 hours	24 hours
Operating time ratio	1	8
Total volume of water produced in 10 years	110000 litres	
Electrical consumption per litre of water equipment produced	0,25 kWh/Litres	0,8 kWh/Litre
Daily electrical consumption	7,5 kWh	24 kWh
Daily cost of production 30 litres of water, in Spain the KW price is 0,12 €	0,90 €	2,88 €
Cost of 30 litres of water produced in 10 years	3.285 €	10.512 €
Litre cost in Spain	0,03 €	0,10 €

* The AQ250's useful life is 10 years of continuous operation, in this example it can be considered 8 times more.

The comparative analysis leads us to the conclusion that the AQ250 format will be always economically more viable than any other low-production unit.

Why don't we make intermediate formats?

Thanks to the modularity of our AQ250, it is possible to create more productive units by gathering 1 to 10 modules that reach optimum performance (up to 2500 liters).



Example of possible module combination

A cost comparison of the AQ5000 module and a set of modules made up of ten AQ250 modules during their service life producing 2000 liters per day

	AQ5000	10 AQ250
Unit Price	115.000 €	45.000 €
High production	8400 litres	2500 litres
Daily water production	2000 litres	
Useful life of each unit	10 years	
Time spent on produce 2000 litres	6 hours	24 hours
Operating time ratio	1	4
Total volume of water produced in 10 years	7.300.000 litres	
Electrical consumption per litre of water equipment produced	0,17 kWh/Litre	0,25 kWh/Litre
Daily electrical consumption	340 kWh	500 kWh
Daily cost of production 2000 litres of water, in Spain the KW price is 0,12 €	40,8 €	60 €
Cost of 2000 litres of water produced in 10 years	148.920 €	219.000 €
Total price of the equipment over its lifetime	263.920 €	264.000 €

A comparative analysis leads us to the conclusion that to produce 2000 liters of water per day, the same performance is achieved by using two different formats, one made up of one AQ5000 module and another with ten AQ250 modules.

Ten AQ250 modules have reached the threshold of economic efficiency. If a production is more than 2000 liters, it will be more profitable to use an AQ5000 module than a larger number of AQ250 modules.

Why do we make the AQ5000 format?

AQ5000 is the largest format module, its dimensions are 2100 mm wide x 2120 mm high x 3500 mm long. With these measurements, it is very easy to handle and transport each module in the 20 and 40 ft standard ISO containers.



Container transport by train.



Container transport by ship

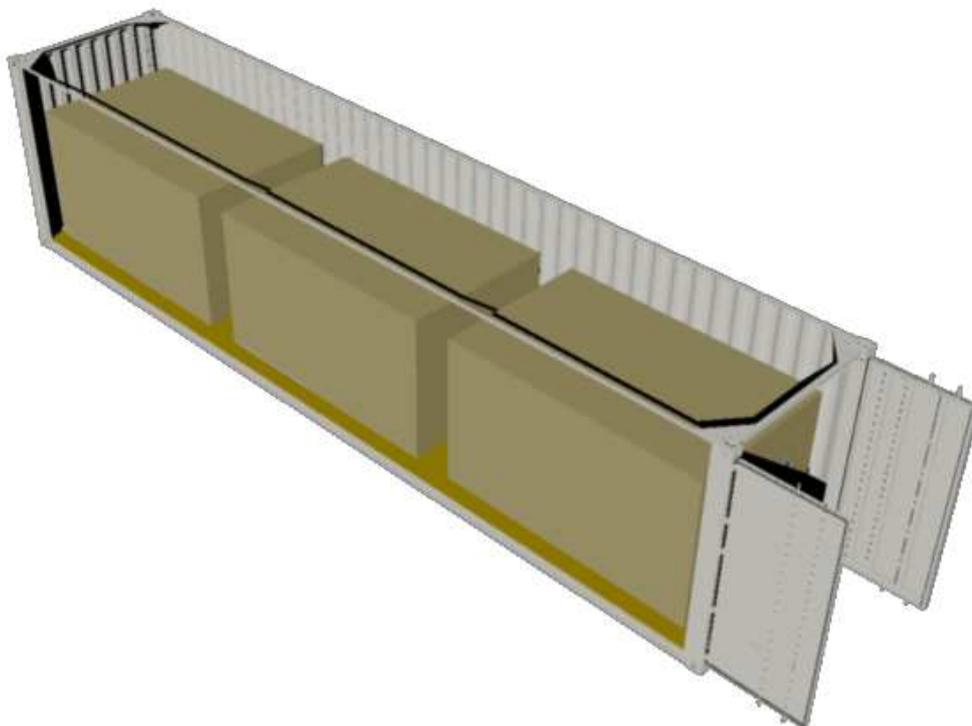


Container transport by helicopter

Two largest versions composed of the AQ5000 module

The **AQ5000 BASIC** is a module - drinking water generator, its dimensions are 2100 mm wide x 2120 mm high x 3500 mm long.

The decision to build modules with these dimensions was taken, to reduce the costs of transporting the equipment from the factory to the installation point. As shown in the following image, you can transport inside a 40-foot ISO container three AQ5000 BASIC modules simultaneously.

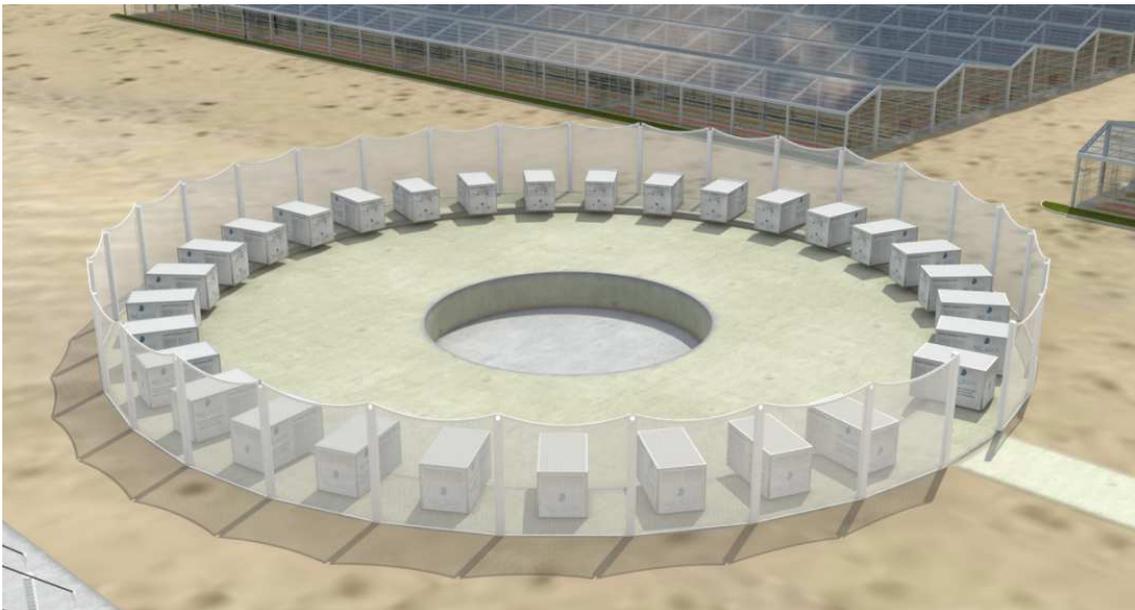


Three AQ5000 BASIC units in a 40 foot container

These AQ5000 BASIC units are modular and easy to create a big scale installation or a water supply plant that can provide water for large populations, industries, and agricultural farms, etc

Greater the need of water by our customers, greater is the number of modules required.

As an example we are presenting the construction of a plant in the desert composed of 30 AQ5000 modules.



Plant in a desert

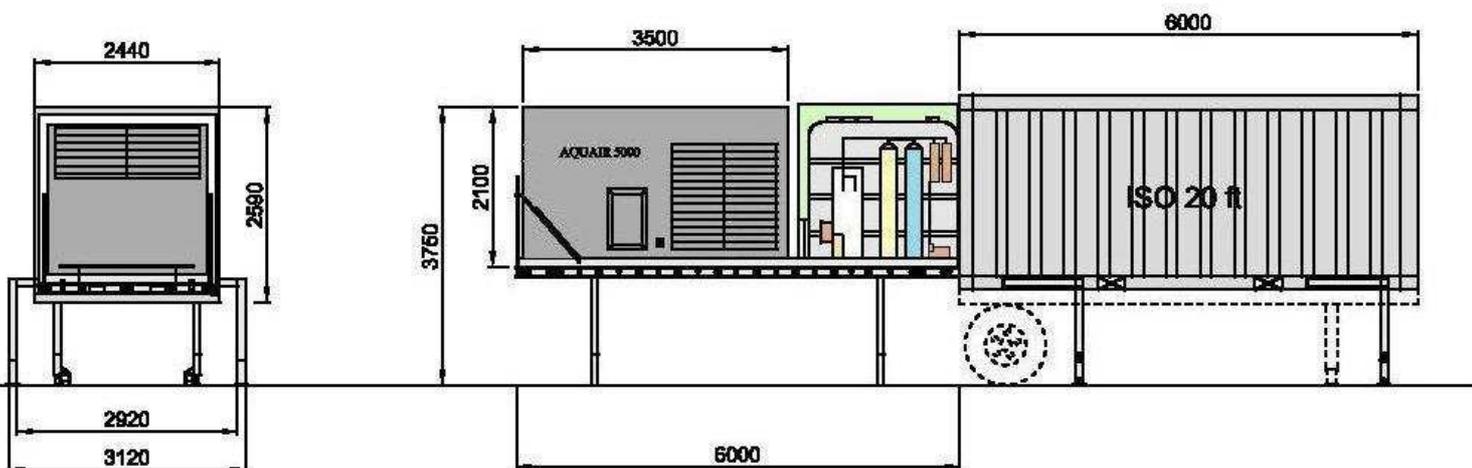
Derived from the AQ5000 BASIC, a standalone full version powered by a diesel generator was created, with an internal deposit of stored water reserve of 3000 liters and built-in water treatment and pumping systems.

The **AQ5000 M/E (Military / Emergency)** is a self-sufficient mobile unit, easily managed by any track (trailer), and designed for the production of drinking water in sufficient quantities for isolated areas, places with lack of water supply such as military camps and areas where natural disasters have occurred.

All the equipment fits into a 20-foot ISO container and its set up is immediate and can be done by only two people without removing it from the trailer platform, since it has a sliding sub-platform and extensible telescopic supports.



AQ5000 M/E completely extended



The maintenance is performed quickly and easily. You should only replace the air filter weekly and change the filter elements every three months from the re-mineralizing and activate carbon filters.

There are two alternatives for the propulsion of this module.

The first alternative is a built-in generator with an auxiliary diesel tank, which ensures uninterrupted operation of the equipment for 4 days, without refueling.



Diesel generator and water storage tank

The second alternative is the power supply through a network. There is 400 V - 50 ~ 60 Hz - 3 f socket located on one side of the unit.



Power outlet

RAY AGUA performs a personalized solution for each client, offering a custom alternative "**water source**".