



**AGUASMART AB-CT**  
DRINKING WATER UNIT  
in CONTAINER for every type of water  
(Ground water, Brackish water  
and Sea water)

Designed

to provide drinking water  
for remote areas, temporary  
settlements and emergencies.

Designed to operate with an extraordinary  
efficiency with renewable energies.

Produce drinking water according to W.H.O. standards

## AGUASMART AB-CT Solution

- Totally built in container approved for maritime transport - weather proof.
- **No need of hydraulic or electrical infrastructures for installation.**  
Immediate supply of guaranteed drinking water in less than 20 minutes.
- Unit manufactured and factory tested to allow immediate installation and start-up without civil work.
- Using physical filtration technologies by **Ultrafiltration, Nanofiltration, Reverse Osmosis membranes and UV disinfection**, guaranteeing the quality of drinking water independently of the water treated.
- **Produce drinking water according to the W.H.O. standards.**
- **Without unnecessary chemicals and consumables** that generate costs and dependence.
- **Fully automated system**, not requiring a qualified staff.





## Kind of Water Treated

<b>GROUND WATER</b>	(rivers, lakes, reservoirs, etc.)	<b>TDS : &lt; 1.000 mg/l</b>	TSS < 150 mg/l.
<b>BRACKISH WATER</b>	(ground water from boreholes)	<b>TDS : 1.000 - 15.000 mg/l</b>	TSS < 150 mg/l.
<b>SEA WATER</b>	(open or closed intake)	<b>TDS : 30.000 - 40.000 mg/l</b>	TSS < 150 mg/l.

( TDS : Total Dissolved Solids - TSS : Total Suspended Solids )

**Eliminate presence of organic matter and pathogens.  
Meeting with the water quality requirements given by WHO.**

## STANDARD FEATURES

### - FEED PUMP SS

Submersible pump with flexible impulsion pipe. Solar-operated pump with controller, provided by the customer, according to the pumping features.

### - DISC FILTRATION

Filtration grade: 100 micron. Double filtration system that guarantees continuous water production. Included system for autonomous pressurized water backwash.

### - ULTRAFILTRATION MEMBRANES FILTRATION

Pressurized UF membrane, housed in UPVC carter. Filtration grade: 0.02 micron.

### - REVERSE OSMOSIS MEMBRANES DESALINATION

(for Brackish water and Sea water models) RO membranes, made of polyamide, housed in FRP high pressure tubes.

### - FILTRATION THROUGH ACTIVATED CARBON

Granular activated carbon cartridge, housed inside 20" carter made of polypropylene.

### - ULTRAVIOLET DISINFECTION

UV lamp housed inside SS carter. Radiation dosage: 400J/m2.

### - AUTOMATION AND INSTRUMENTATION (Only for automatic units)

PLC with touch screen. Included control program. Monitoring and remote control of pressure and flow.

### - ELECTRICAL PANEL AND CONNECTIONS

Metal cabinet including transformer, circuit breakers and motor starters. Included electrical installation with electromechanical equipments.

### - CONTAINER

Shipping Container ISO (with key lock to protect equipments and minimize noise).

### - SOLAR PANELS AND AUXILIARY ELEMENTS (only for SOLAR models)

Solar panels. Power: 327 W/module. Included solar controller and monoblock batteries (maintenance free). Included the framework for solar panels, with an easy and safety system for the solar panels deployment.

## OPTIONS

### For extraction :

- Optional Solar Pump, to extract water from a deep borehole.

### For exploitation :

- Portable generator with manual or automatic starter, for auxiliary energy supply needed for the plant.
- All terrain trailer specially designed for unit transportation.

### For storage :

- Flexible or rigid tank, in order to store the water, with desinfection shedule.

### For distribution :

- Solar Fountain, to sell bulk water.
- Bagging machine, to sell pouches.
- Filling machine, to sell water bottles.
- Ice machine, to sell ice blocks.

## AB-CT Units

## Solar Units

Automatic Units	Max Output (m3/h)	Max Output (m3/d)	L x w x h (m)	Weight (kg)	Power (kW)
<b>AB-CT GS 8 10'</b> (Ground Water)	GW : 8 m3/h	GW : 182 m3/d	3 x 2.4 x 2.6	3110	3.13
<b>AB-CT BS POLY 10'</b> (Ground and Brackish Water)	GW : 3 m3/h BW : 1 m3/h	GW : 72 m3/d BW : 24 m3/d	3 x 2.4 x 2.6	3115	1.98
<b>AB-CT SS POLY 10'</b> (Ground, Brackish and Sea Water)	GW : 3 m3/h BW/SW : 0,4 m3/h	GW : 72 m3/d BW/SW : 10 m3/d	3 x 2.4 x 2.6	3080	2.68

## Non Solar Units

Automatic Units	Max Output (m3/h)	Max Output (m3/d)	L x w x h (m)	Weight (kg)	Power (kW)
<b>AB-CT G 16 10'</b> (Ground Water)	GW : 16 m3/h	GW : 384 m3/d	3 x 2.4 x 2.6	2145	6.24
<b>AB-CT G 45 20'</b> (Ground Water)	GW : 45 m3/h	GW : 1 080 m3/d	3 x 2.4 x 2.6	3655	14.86
<b>AB-CT G 123 40'</b> (Ground Water)	GW : 12,3 m3/h	GW : 295 m3/d	3 x 2.4 x 2.6	6815	35.26
<b>AB-CT B-H POLY 10'</b> (Ground and Brackish Water)	GW : 8 m3/h BW : 3 m3/h	GW : 192 m3/d BW : 72 m3/d	3 x 2.4 x 2.6	2940	34.49
<b>AB-CT B-L POLY 10'</b> (Ground and Brackish Water)	GW : 8 m3/h BW : 3 m3/h	GW : 192 m3/d BW : 72 m3/d	3 x 2.4 x 2.6	2660	11.99
<b>AB-CT B-H POLY 20'</b> (Ground and Brackish Water)	GW : 24 m3/h BW : 9 m3/h	GW : 576 m3/d BW : 216 m3/d	6 x 2.4 x 2.6	4460	51.68
<b>AB-CT B-L POLY 20'</b> (Ground and Brackish Water)	GW : 24 m3/h BW : 10 m3/h	GW : 576 m3/d BW : 240 m3/d	6 x 2.4 x 2.6	4200	26.18
<b>AB-CT B-H POLY 40'</b> (Ground and Brackish Water)	GW : 55 m3/h BW : 30 m3/h	GW : 1 320 m3/d BW : 720 m3/d	12.2 x 2.4 x 2.6	8395	108.38
<b>AB-CT B-L POLY 40'</b> (Ground and Brackish Water)	GW : 55 m3/h BW : 28 m3/h	GW : 1 320 m3/d BW : 672 m3/d	12.2 x 2.4 x 2.6	7410	55.38
<b>AB-CT S POLY 10'</b> (Ground, Brackish and Sea Water)	GW : 4 m3/h BW/SW : 0,8 m3/h	GW : 96 m3/d BW/SW : 19 m3/d	3 x 2.4 x 2.6	2325	7.37
<b>AB-CT S POLY 20'</b> (Ground, Brackish and Sea Water)	GW : 24 m3/h BW/SW : 6 m3/h	GW : 576 m3/d BW/SW : 144 m3/d	6 x 2.4 x 2.6	4340	28.18
<b>AB-CT S POLY 40'</b> (Ground, Brackish and Sea Water)	GW : 55 m3/h BW/SW : 21 m3/h	GW : 1 320 m3/d BW/SW : 504 m3/d	12.2 x 2.4 x 2.6	7780	84.38

GW : Ground Water - BW : Brackish water - SW : Sea Water

