



AZUD WATERTECH





35

years of
experience

+30

countries with
AZUD solutions

+800

treatment plants
worldwide



AZUD designs and manufactures **COMPACT WATER TREATMENT PLANTS**

- ✔ **PLUG&PLAY supply;** Skid or containerized mounted compact water plants, factory assembled and tested following a strict quality protocol. Quick installation and start-up without any setbacks.
- ✔ **Optimized INVESTMENT costs;** modular plants with no need of civil work execution allowing to adapt the investment to your water needs. Containerized models for above-ground installation under any climate condition.
- ✔ **Reduced OPERATIONAL costs;** robust assembled plants that incorporate top brand equipment and high quality materials, and that thanks to the adequate design criteria, are able to minimize energy consumption and consumables, and extend the life span of the plant and its components.



DISC FILTRATION

Automatic self-cleaning disc filter AZUD HELIX AUTOMATIC, to remove suspended solids larger than the filtration degree of the selected disc (5-400 μm). Exclusive air assisted cleaning system (AA).



ULTRAFILTRATION MEMBRANE

Hollow fiber membrane to remove suspended solids, colloids and pathogens larger than 0.08 μm , guaranteeing a high quality and disinfected water supply.



MEDIA FILTRATION WITH ZEOLITE AND PYROLUSITE

Multimedia filtration using zeolite, to remove suspended solids larger than 5 μm ., and pyrolusite to remove Fe/Mn.



MICROFILTRATION CARTRIDGES

Security filter to remove suspended solids larger than the selected microfiltration cartridge (1-25 μm).



DESALINATION WITH REVERSE OSMOSIS MEMBRANES

Spiral wound porous membrane to remove dissolved contaminants in the water (removal rate >99%), such as mineral salts, heavy metals, dissolved organic matter and pesticides.



ULTRAVIOLET DISINFECTION

Ultraviolet radiation lamp to remove pathogens such as protozoa, bacteria and viruses.

AZUD WATERTech DW

Drinking water

- **Guaranteed potable water supply** from any source of fresh water, brackish water or sea water.
- **Designed to improve** the plant's performance, minimize energy consumption and consumables, and extend the life span of the plant and its components.
- **Automated plants** that reduce de maintenance costs and ensure a long-term efficient operation. REMOTE CONTROL available.



Skid mounted



Containerized



AZUD WATERTech DW **DU**

FRESH WATER: TDS < 1.000 mg/l

Production of standard range: 4 - 8 - 15 - 30 - 60 - 90 m³/h



AZUD WATERTech DW **OL**

Low salinity BRACKISH WATER: TDS: < 1.500 mg/l

Production of standard range: 2 - 4 - 8 - 10 - 20 - 42 m³/h



AZUD WATERTech DW **ZOX**

Low-Medium salinity BRACKISH WATER: TDS: 1.000 - 3.000 mg/l

Production of standard range: 2 - 4 - 8 - 11 - 21 - 42 m³/h



AZUD WATERTech DW **ZOW**

High salinity BRACKISH WATER: TDS: 3.000 - 6.000 mg/l

Production of standard range: 1.6 - 3 - 6.5 - 12 - 21 - 42 m³/h



AZUD WATERTech DW **ZSW**

SEA WATER: TDS: 35.000 - 45.000 mg/l

Production of standard range: 2.8 - 5.6 - 11 - 18 - 24 - 42 m³/h



AZUD WATERTECH DW

Drinking water

AZUD WATERTECH

Municipalities



Mexico

Sonora
Heavy metals removal
1.5 - 100 m³/h (9 units)



Spain

Almería. Sierra de los Filabres
Mineral salts removal
1 - 15 m³/h (10 units)



Mexico

Aguascalientes
Arsenic removal
36 m³/h (4 units)

Food industry



Spain

Cataluña. bonÀrea group
Mineral salts removal
5 - 15 m³/h (2 units)



Spain

Castellón. Drinks production
Mineral salts removal
1 m³/h (1 unit)



Ecuador

Guayaquil. Aquaculture
Mineral salts removal
14 m³/h (1 unit)

Hostelry, business and residential sectors



Panama

Residential. Villas Coco del Mar
TSS/turbidity removal
6 m³/h (1 unit)



Equatorial Guinea

Malabo Airport
TSS/turbidity removal
3 m³/h (1 unit)



Spain

Mérida. Industrial area
TSS/turbidity removal
10 m³/h (1 unit)



AZUD WATERTech DWE

Off-grid drinking water

- **Guaranteed potable water supply** from any source of fresh water, brackish water and/or sea water, with an autonomous energetic solution.
- Ultrafiltration membrane technology and/or reverse osmosis membranes, with an exclusive AZUD HELIX AUTOMATIC disc filtration pre-treatment.
- Designed for minimum energy consumption, with the possibility to operate with solar power, power generator or from the electricity grid.
- Compact, robust and light plant, easy to move by land, sea and air.
- Easy installation, immediate set-up and very simple to operate and maintain.



Skid mounted



Close framework mounted
Containerized



AZUD WATERTECH **DWE FW SA**

(Semiautomatic operation and open skid. SOLAR opt.)

FRESH WATER: TDS < 1.000 mg/l

Production of standard range: 1.5 - 3 m³/h



AZUD WATERTECH **DWE FW L5**

(Automatic operation and close framework. SOLAR opt.)

FRESH WATER: TDS < 1.000 mg/l

Production: 1.5 - 3 m³/h



AZUD WATERTECH **DWE BW VERSATILE L5**

(Automatic operation and close framework. SOLAR opt.)

FRESH AND BRACKISH WATER: TDS < 6.000 mg/l

Production of standard range: 0.3 m³/h (brackish water)
& 1.5 - 3 m³/h (fresh water)



AZUD WATERTECH **DWE SW VERSATILE L5**

(Automatic operation and close framework. SOLAR opt.)

FRESH, BRACKISH AND SEA WATER: TDS < 45.000 mg/l

Production of standard range: 0.2 m³/h (sea water)
& 1.5 - 3 m³/h (fresh water)

AZUD WATERTECH DWE

Off-grid drinking water

AZUD WATERTECH

Communities and isolated settlements



Senegal
Dakar district
TSS/turbidity removal
8 m³/h (1 unit)



Peru
Ilabaya
Arsenic and boron removal
6.5 m³/h (1 unit)



Mexico
Aguascalientes
Arsenic removal
1.5 m³/h (1 unit)

Emergencies



Mexico
Earthquake response
operation
1.5 m³/h (2 units)



Haiti
NGO Matthew storm
response operation
3 m³/h (2 units)



Bulgaria
Floods state plan
2 - 10 m³/h (6 units)

Temporary settlements, peace missions and armies



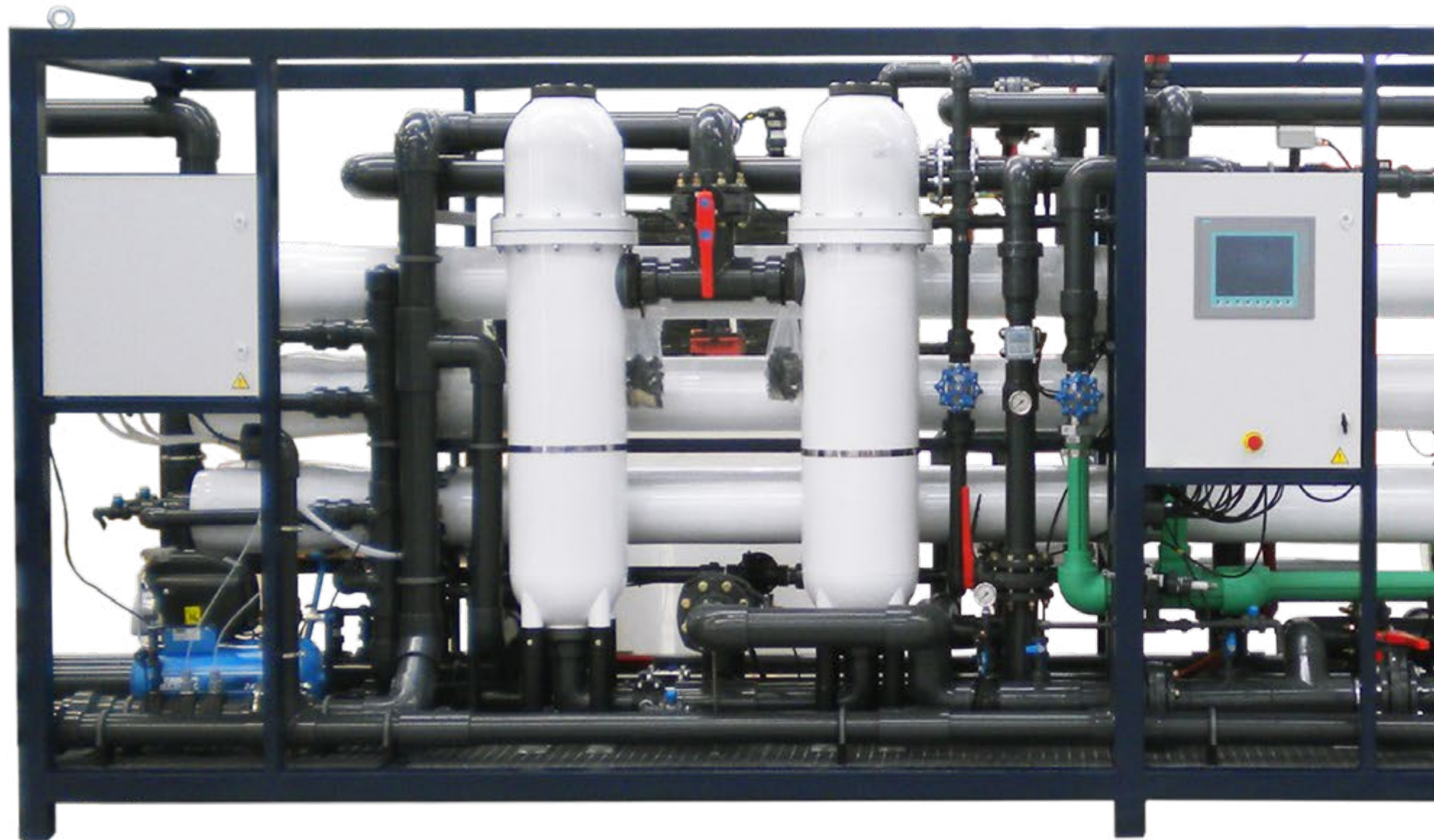
Mauritania
UN peacekeeping forces
2 m³/h (5 units)



Senegal
UN peacekeeping forces
1.5 m³/h (1 unit)



Algeria
Oil exploitation temporary camp
2.5 m³/h (2 units)



AZUD WATERTech OSM Water desalination

- Guaranteed osmotized water supply from any source of fresh water, brackish water or sea water.
- Designed to optimize the plant's performance, minimize energy consumption and consumables, and extend the life span of the plant and its components.
- Automated plants that reduce de maintenance costs and ensure a long-term efficient operation. REMOTE CONTROL available.



Skid mounted



Containerized



AZUD WATERTech OSM **OX**

Low-Medium salinity BRACKISH WATER: TDS: 1.000 - 3.000 mg/l
Production of standard range: 0.4 - 0.8 - 2 - 4 - 8 - 11 - 21 - 42 m³/h

AZUD WATERTECH OSM

Water desalination

AZUD WATERTECH

Irrigation



Mexico
Baja California. PINOS AGRÍCOLA
420 m³/h (1 unit)



Morocco
Agadir. Tomato cultivation
10 - 50 m³/h (8 units)



Peru
Ica. Seed production
90 m³/h (1 unit)

**Water for
boilers and
industrial
machinery**



Spain

Murcia. Balloons manufacturing
1 m³/h (1 unit)



Spain

Cataluña. bonÀrea group
2 m³/h (1 unit)



Chile

Chile. Santiago. COPEC
5 m³/h (1 unit)

**Industrial
process
water**



Spain

Murcia. Cosmetics manufacturing
5 m³/h (1 unit)



Spain

Navarra. Paper industry
10 m³/h (1 unit)



Spain

Jaén. Oil mill
10 m³/h (1 unit)



Skid mounted



Containerized

AZUD WATERTECH RW

Water recycling

Water reuse from industrial process water, wastewater treatment plants effluents and irrigation water, through ultrafiltration membranes technology, with an exclusive AZUD HELIX AUTOMATIC AA disc filtration pre-treatment.



AZUD WATERTECH RW **DU**

Industrial process water and treated sewage effluent

↑TSS ↑TURBIDITY

Production of standard range: 1.8 - 3.5 - 7 - 14 - 28 - 42 m³/h

AZUD WATERTECH RW

Water recycling



Wastewater treatment plant effluents



Dubai

Polishing plant
Water for cooling towers
35 m³/h (1 unit)



Chile

Arauco. Wood industry
Process water
15 m³/h (1 unit)



Saudi Arabia

Armed forces
Car washing water
50 m³/h (10 units)

Industrial process water



Mexico
Puebla. Volkswagen
Tightness tunnels
72 m³/h (1 unit)



Dubai
District cooling plant (3)
Conditioning circuit
225 m³/h (4 units)



Mexico
Toluca. Gates
Refrigerating circuit
22 m³/h (1 unit)

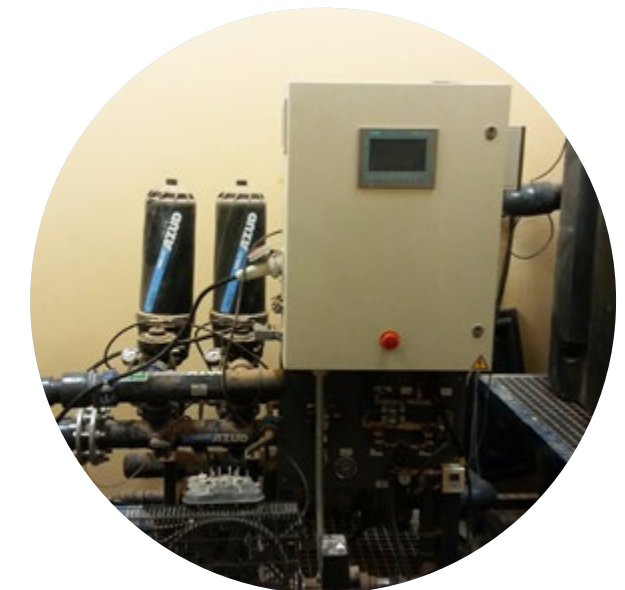
Horticulture plants washing waters



Spain
Almería. Vegetables washing process
2 m³/h (1 unit)



Spain
Valencia. Oranges washing process
4 m³/h (1 unit)



Spain
Murcia. Peppers washing process
30 m³/h (1 unit)



Skid mounted



Close framework
mounted

AZUD WATERTech GW

Grey water recycling

- Grey water recycling from showers, baths and sinks, for toilets and irrigation.
- Ultrafiltration membrane technology, with an exclusive AZUD HELIX AUTOMATIC AA disc filtration pre-treatment, with no sludge generation, odor-less and no annoying noises.
- Compact plant and detachable in modules, for difficult access locations.



AZUD WATERTech GW

Grey water from showers, baths and washbasins

↑ TSS ↑ TURBIDITY, hair, detergents, soaps, etc.

Production of standard range: 2 - 4 - 9 m³/h

AZUD WATERTECH GW

Grey water recycling

AZUD WATERTECH

Hotels



USA
Waldorf Astoria Hotel
2.5 m³/h (2 units)



Mexico
Cancún. Tourist resort
6 m³/h (1 unit)



England / UAE
Premier Inn Hotel
2.5 m³/h (3 units)

Public centres



Malta

La Valeta. Public pool
2.5 m³/h (1 unit)



Mexico

México DF. Public toilet
5 m³/h (1 unit)



USA

San Francisco. Office building
2.5 m³/h (2 units)

Shopping and residential centers



Panama

Villas Coco del Mar residential
5 m³/h (1 unit)



Peru

San Bartolo. Residential area
5 m³/h (1 unit)



Guadalupe

Jarry. Industrial laundry
12 m³/h (1 unit)



Further information:
info@azud.com
www.azud.com