

AZI CONCEPT WATER TREATMENT SYSTEMS

Tap / Brackish / Sea Water / Well and Surface water

Reverse Osmosis systems



Options:

- ✓ Mineralizer unit (for Potable Water Unit)
- ✓ CIP Station
- ✓ Antiscalant dosing unit
- ✓ Inline Hardness Analyser

Applications:

- ✓ Medical Application for Dialysis water
- ✓ Mobile Emergency Hospital
- ✓ Demineralization water for industrial processes
- ✓ Potable water station (Drinking water)
- ✓ Desalination station
- ✓ Pure water application
- ✓ Applications for disaster areas

Description

AZI CONCEPT Reverse Osmosis systems provide High purified water (Low conductivity) from tap water and low brackish water. AZI CONCEPT units are ready-to-use, skid mounted, easy to operate.

The systems run with O2 membranes producing from **500 to 2000 L/h¹**. The **HPW 7500A** is a fully automated unit specially developed to prepare and distribute the cleanest water possible for **Medical, Desalination, Industrial** applications and end users who need high quality of water with a minimum of operator intervention. A standalone and compact unit with its own pre-treatment line, purified by reverses osmosis and storage ALL IN ONE process unit. The operation of the system can be set according to user's needs, a three-lights lamp, gives clear information of the operational status of the unit. If more detailed information is required, this can easily be accessed from the operator's HMI panel on the machine

- Compact design, low energy demand and high recovery;
- Fully automated system, PLC controlled, HMI, Automatic preventive disinfection sequence
- Mobile unit, Transportable, Ready to use, Easy to operate

This system Includes:

10 µm cartridge filter
5 µm cartridge filter
1 µm cartridge filter
0,2 µm cartridge filter
Raw water transfert pump
High pressure pump
High performance Dow membranes
Fiberglass pressure vessels
High Purified Water storage tank
High Purified Water transfer pump
Softener unit
Ultra Violet unit
Ozone generator Unit
Fully automatic PLC controlled
HMI in the front panel
Stainless steel piping
Pressure, Flow, Conductivity Sensors
Raw water Tank
FDA standards

Feed water quality specifications:

Total dissolved solids	500 – 40 000 ppm
pH value continuously	2-11
pH short term cleaning	1-13
Silt Density Index Max	5
Free chlorine concentration	< 0.1 ppm
Turbidity	< 2 NTU
Temperature	5-30 °C
Dissolved Iron Max.	0.3 ppm
Dissolved Arsenic Max.	1.70 ug/L

Outlet Pure water characteristic:

Conductivity	2 - 20 µS/cm
Flow	500 - 2000 L/h
Temperature	5-25°C
Total Dissolved salts	> 97%
Recovery rate Max	75%
Pressure	1-5 bars
Membrane Pressure	13-16 bars

Connections:

Inlet feed water	Clamp ISO DN25_D33-7
Purified water Outlet	Clamp ISO DN20_D26-9
Purified water Return	Clamp ISO DN20_D26-9
Drain	Clamp ISO DN20_D26-9

Dimensions:

Main Model	Deph: 1100 mm
	Width: 2100 mm
	Height: 2000 mm

Power Supply:

Main Voltage	220/240 V Single Phase (Ph-N-GD) <i>Other voltage on request</i>
Power Rating	6 kW
Fuse	32 AT

Weight:

Unit	1000 kgs
Unit + packing	1100 kgs
Operation	2200 kgs

¹ Other flows / capacities available & on demand