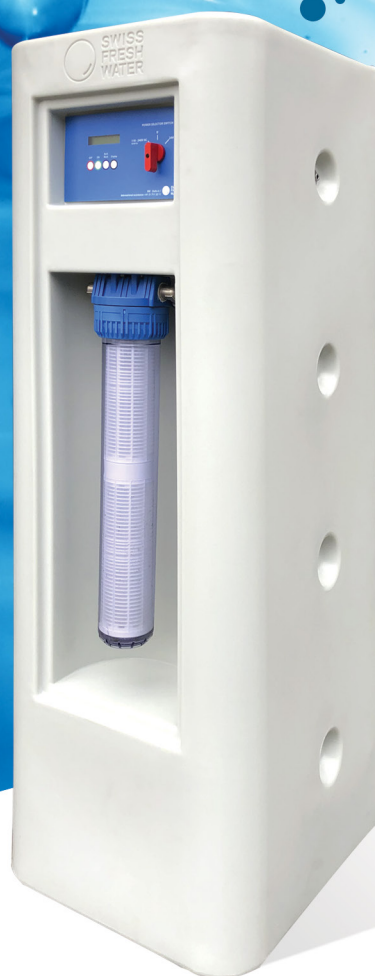


# BW Delta

[Connected]

## Reverse Osmosis Purification Unit



At **Swiss Fresh Water** we develop water treatment solutions on a decentralized model. We do this using high-performance and reliable autonomous machines, which are equipped with a real-time telemetry system.

**The 4-stage filtration system** includes a reverse osmosis system and produces up to **4000l/day of purified water** from almost all contaminated and polluted water sources. This includes brackish water with up to 7Gr/litre (TDS=7000).

Designed on the basis of user needs, the BW Delta units integrate automatic electronic management. They are very easy to use and incorporate both a self-cleaning cycle and a pressure self-regulation feature that allow them to keep the same performance regardless of the level of salt contained in the water. This cleaning doesn't require any human intervention.

Connected to the GSM network, our machines are delivered with a **proactive maintenance service**. This optimizes operating costs and contributes to an exceptional service life.



[www.swissfreshwater.com](http://www.swissfreshwater.com)



## MAIN STRENGTHS :

### 1. SIMPLE :

- to be transported (80 Kg)
- to be installed (Plug & Play)
- to be used (AUTO operation)
- Power OR Solar Network

### 2. ECONOMY :

- Produces fresh water 5 to 15 times cheaper than bottled water
- No expensive and unnecessary consumables
- Low maintenance costs through remote monitoring
- Can be powered by solar panel
- Low power consumption (400 Wh - 0,4 kWh)

### 3. SAFE :

- No risk of electrocution
- No use of chemicals

### 4. RELIABLE :

- No solenoid valves
- Robust materials, suitable for harsh conditions
- 100% of the machines under maintenance contract since 2011 are still in perfect working order

### 5. WATER QUALITY :

- Water certified according to WHO standards
- Treatment of all types of water, regardless of water quality variations



### PRE FILTER

- REMOVES :
- DUST, SLUDGE, ORGANIC, PARTICLES, PARASITES

### ULTRA FILTRATION

- REMOVES :
- TURBIDITY, BACTERIA, VIRUSES, ORGANIC PARTICLES

### CHARCOAL FILTER

- REMOVES :
- CHLORINE, ODOURS, TASTE

### REVERSE OSMOSIS

- REMOVES :
- SALT (< 7Gr/LITER)
  - HEAVY METALS: MERCURY, ARSENIC, FLUORINE...
  - LEFTOVER DRUGS, HORMONES, ANTIBIOTICS, VIRUSES

## OPTIONS :

- Tanks (510L - Food quality)
- "Tank full" level sensors for automatic machine shutdown and information via sms
- Remineralization unit
- UV sterilization lamp (at the outlet of the drinking water tank)
- Submersible pump (well)
- External activated carbon tank
- Solar installation kit
- On-line salinity measurement -TDS (on request)
- Chlorine dosing system (on request)
- Water ATM (on request)
- Water cooling system (on request)



## MAIN SPECIFICATIONS :

Name	BW Delta
Raw water: Salt content	< 7'000 ppm, brackish water
Efficiency and effectiveness	40%
Raw water: Source	Well, river, lake, borehole, public network
Application / Installation	Mobile or permanent installation
Weight / Size	80 Kg / 1280x480x480 mm (Height x Width x Length)

### PERFORMANCE

Drinking water: Capacity / day (24h)	max. 4'000 l /day
Drinking water: Capacity / hour	max. 170 l /h
Minimum water inlet flow rate	min. 500 l/h
Pumping height	max. 1 meter below machine level (except submerged pump)

### FILTRATION

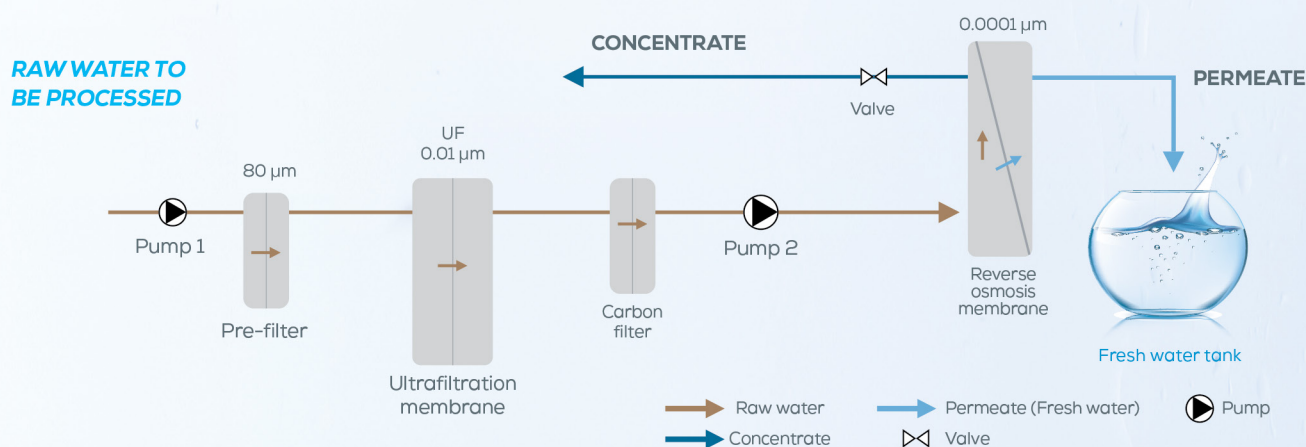
Filtration technology	80 µm prefilter, Ultrafiltration, Active carbon, Reverse osmosis (RO)
Types of Contamination	Organic / inorganic: Bacteria, viruses, heavy metals, pesticides, hormones, salt, etc...
Quality of produced water	Drinking water (WHO standards)
Water certification to WHO standards	Scitec Research: Accredited by - the Swiss administration - New York State Department of Health (NYSDOH)
Certification of components	Reach; NSF; 1997 NF X45-103

### POWER SUPPLY

Power supply source	110-240 VAC network (50-60Hz) / Solar 24 VDC
Power consumption (average)	400 Wh - 0.4 kWh

**Condition of the tests :** the performance tests were carried out in a laboratory with water at 25°C, an inlet pressure at 1.5 bar, pH 7 and measurements were taken after one hour of operation.

## FILTRATION DIAGRAM :



## OPERATIONAL LIMITS :

### PHYSICAL

Min/Max. inlet pressure	-0.1 / 2 bar
Water temperature Min./Max.	5 / 30 °C
Max. TDS level	7'000 ppm (=1400µS)
Turbidity Max.	50 NTU

### CHEMICALS

pH min / max	3.0 / 11.0
Hardness Max.	200 mg/L
Iron (Fe2+) Max.	4 mg/L
Chlorine (Cl-) Max.	< 1 mg/L

# OUR REMOTE MAINTENANCE SERVICE

At Swiss Fresh Water, we believe that a machine must be well maintained to last a long time. Each machine is linked to a remote maintenance service:

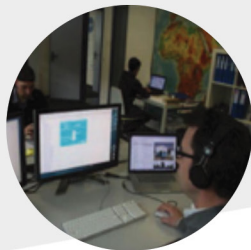
## A REMOTE ASSISTANCE SERVICE COMES WITH EACH MACHINE SOLD:

Training and access to the web platform for real-time machine parameter monitoring and other related services (the SIM card allows data to be sent to the server\*) :

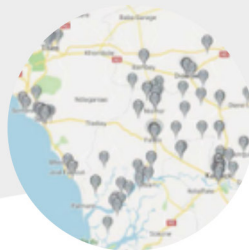
- Automatic alarms and shutdowns to significantly reduce the risk of failures
- Notifications and information allowing optimized maintenance of the machine park
- Access to machine data (daily production etc...)
- Possibility of remotely locking the machine

## SPECIALIZED AND RESPONSIVE HOTLINE:

- Technical assistance service for any specific after-sales support
- Hotline available on **+41 21 711 22 77** from **9am to 12pm** and **1pm to 5pm** (GMT+2)



Hotline based  
in Lausanne (CH)



Web platform for  
fleet monitoring



Personal access  
to the machines

## Set of accessories recommended and supplied by Swiss Fresh Water

- 1 maintenance set including parts for 1 year of operation
- 1 dedicated tool case and portable TDS measuring device
- 1 set of "standard" connecting pipes with a length of 5m
- 1 connection kit for all types of tanks



SPARE PARTS AND  
ACCESSORIES

## WARRANTY TERMS AND CONDITIONS

Each SFW machine is guaranteed\*\* for a period of 5 Years starting from when it is received on site. This is subject to an up-to-date subscription to the "remote maintenance service".

This warranty provides the following services:

- Replacement of any defective parts (excluding wear parts)
- Technical assistance for the replacement of the defective part(s) via detailed procedures and telephone assistance
- Remote control of operating parameters
- Sending and assisting in the preventive replacement of any recalled components

*\* Possible exceptions depending on the country of installation*

*\*\* Subject to compliance with the warranty conditions*



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to be redirected to our website!

