Technical manual BWT AQA Source code **P0011110 review 2 of** 28/04/2015

Mini Osmosis unit

AQA Source

VERY IMPORTANT:

Read this manual carefully before connecting to the mains supply, filling it with water or operating it.

Failure to comply with these instructions will invalidate the BWT warranty.

afaq ISO 9001 Qualité AFNOR CERTIFICATION

CE

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For You and Planet Blue.

BWT BEST WATER TECHNOLOGY

www.bwt-group.com

BWT Austria GmbH
Walter-Simmer-Straße 4
A-5310 Mondsee
Phone: +43 / 6232 / 5011 0
Fax: +43 / 6232 / 4058
E-Mail: office@bwt.at

BWT Belgium N.V.
Leuvensesteenweg 633
B-1930 Zaventem
Phone: +32 / 2 / 758 03 10
Fax: +32 / 2 / 758 03 33
E-Mail: bwt@bwt.be

BWT Nederland B.V.
Centraal Magazijn
Energieweg 9
NL-2382 NA Zoeterwoude
Phone: +31 / 71 750 36 66
Fax: +31 / 71 589 74 29
E-Mail: sales@bwtnederland.nl

BWT Wassertechnik GmbH
Industriestraße 7
D-69198 Schriesheim
Phone: +49 / 6203 / 73 0
Fax: +49 / 6203 / 73 102
E-Mail: bwt@bwt.de

BWT Ceská Republika s.r.o.
Lipová 196 -Cestlice
CZ-251 01 Rícany
Phone: +42 / 272 680 300
Fax: +42 / 272 680 299
E-Mail: info@bwt.cz

OOO Russia BWT
Ul. Kasatkina 3A
RU-129301 Moscow
Russian Federation
Phone: +7 / 495 686 6264
Fax: +7 / 495 686 7465
E-Mail: info@bwt.ru

Cillichemie Italiana SRL
Via Plinio 59
I-20129 Milano
Phone: +39 / 02 / 204 63 43
Fax: +39 / 02 / 201 058
E-Mail: info@cillichemie.com

BWT Polska Sp. z o.o.
ul. Polczyńska 116
PL-01-304 Warszawa
Phone: +48 / 22 / 6652 609
Fax: +48 / 22 / 6649 612
E-Mail: bwt@bwt.pl

Cilit S.A.
C/Silici, 71 - 73
Poligono Industrial del Este
E-08940 Cornella de Llobregat
Phone: +34 / 93 / 440 494
Fax: +34 / 93 / 4744 730
E-Mail: cillit@cillit.com

BWT France SAS
103, Rue Charles Michels
F-93206 Saint Denis Cedex
Phone: +33 / 1 / 4922 45 00
Fax: +33 / 1 / 4922 45 45
E-Mail: bwt@bwt.fr

BWT HOH A/S
Geminivej 24
DK-2670 Greve
Phone: +45 / 43 / 600 500
Fax: +45 / 43 / 600 900
E-Mail: hoh@hoh.dk

BWT Hungária Kft
Keleti út. 7.
H-2040 Budaörs
Phone: +36 / 23 / 430 480
Fax: +36 / 23 / 430 482
E-Mail: bwtchrist@bwtchrist.hu

BWT AQUA AG
Hauptstraße 192
CH-4147 Aesch/BL
Phone: +41 / 61 / 755 88 99
Fax: +41 / 61 / 755 88 90
E-Mail: info@bwt-aqua.ch

BWT UK Ltd.
Coronation Road, BWT House
High Wycombe
Buckinghamshire, HP12, 3SU
Phone: +44 / 1494 / 838 100
Fax: +44 / 1494 / 838 101
E-Mail: info@bwt-uk.co.uk

BWT Separtec Oy
P.O. Box 19
FI-21201 Raisio, Finland
T +358 43 8246 002
info@bwtwater.fi

BWT Ukraine Ltd.
8, Radyshcheva Lane
03680 Kyiv, Ukraine
T +38 044 390 76 18 (ext.101)
F +38 044 390 76 19

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GENERAL INFORMATION

Thank you for choosing **BWT** and for counting yourself among our many customers. Before being put on the market, our products have been designed by our water treatment experts and tested in compliance with the standards in force.

The purchased product is not hazardous to users, as long as they read and apply the manufacturer's instructions.

Before taking any form of action, please read these instructions carefully and pay very close attention to the safety instructions.

Keep the instructions near the appliance, in a dry place away from any pollutants and keep them until the end of the product's service life. In the event of a change of owner, the instructions should be provided to the new user.

GENERAL INSTRUCTIONS

Read the instructions carefully before using the appliance, as they provide important information on the safety, usage and maintenance of the installation.

The technical information provided in these instructions belongs to **BWT** and its reproduction, in full or in part, is prohibited.

Regular inspection and maintenance will ensure that the appliance is kept in good working order. For a regular maintenance please contact your BWT representative.

Please visit www.bwt-group.com

Do not use the appliance if it is damaged: in the event of abnormal operation (short circuits, unexpected stopping, etc), switch off and shut off the electrical current.

Check that the installation has been carried out in compliance with the applicable safety standards and best practices. If this is not the case, **BWT** declines all responsibility.

The appliance should be installed in a sheltered, dry place and protected against freezing temperatures, bad weather and direct or indirect exposure to UV rays and heat sources. It should be positioned on a perfectly flat and solid surface.

It should be supplied with water in compliance with the requirements relating to the quality of water intended for human consumption.

The manufacturer declines all responsibility in the event that the hydraulic and electric instructions and standards are not respected.

Any use of the appliance outside its intended function is prohibited.

For its maintenance, only use original parts. Otherwise, all forms of warranty will be null and void. Please see the "technical data" table for compliant usage. Malfunctions or breakdowns may occur if the unit is operating beyond the limits detailed herein.

Check that the equipment has not been damaged during transport. As a potential hazard, the packaging must not be left within the reach of children and should be disposed of in accordance with applicable regulations.

This appliance operates properly and without risk if installed and commissioned following these instructions, and performed by a competent personnel.

Ground drainage must be provided to enable water to flow away in the event of a breakdown or breakage. In the event of a particularly sensitive environment (parquet flooring, etc), install the appliance in a separate area.

If the power cable is damaged, it should be replaced by a technician in order to prevent any type of risk. Do not step on the cable or place any heavy object on it.

Only use the adapter provided.

Do not handle the electric plug with wet hands.

Do not unplug the connector from the power socket by pulling on the cable or on the appliance.

Check the operation of the appliance regularly.

In the event of a fault (leak or other), unplug from the power supply and close the inlet valve.

Do not use the appliance in explosive environments.

Do not sit or climb on the appliance.

Only use original parts.

Do not submerge the appliance in water.

For hygiene reasons, do not touch the water outlet with dirty hands.

Do not clean the appliance using a pressure jet wash.

Unplug the appliance from the mains (230V 50Hz) and from the water system before cleaning and maintenance.

If the appliance is out of service and needs to be disposed of, the hydraulic installation will have to be dismantled.

WARRANTY

To validate your warranty, you should register your purchase at www.bwt-group.com

Our units are guaranteed from the commissioning date (see applicable guarantee conditions).

The statutory guarantee applies in any case, and requires professional sellers to guarantee the buyer against all the consequences of hidden faults or defects in the item sold or the service provided.

Warranty exclusion:

- Any use other than for drinking water.
- Any use which does not comply with the technical manual supplied with the unit.
- Any lack of periodical servicing as recommended in the specifications (e.g. failure to replace filtration cartridges).
- Damage caused by frost or by heat exceeding the maximum temperature given.
- Storms or any other cause of current pick in the mains supply.
- Cleaning with any product other than water or not recommended by **BWT**.
- Pressure exceeding the maximum pressure given in the technical manual.
- Splashing of any liquid.

INSTALLATION

We have tested this osmosis unit to check that no leaks are present, and for the production and quality of water, along with other characteristics. The system may therefore contain a small amount of water.

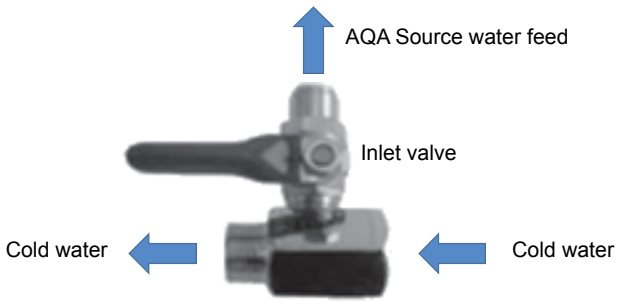
1. CONNECTION TO A COLD WATER PIPE

1. Check that there is a stop valve in the cold water tap inlet of the sink, then close this valve. Otherwise, one must be installed.

2. Use the connection adapter supplied (see: diagram below). Separate the adapter valve. The adapter should be inserted on the tap cold water inlet. Loosen the pipe screw to disconnect the tap. Carefully adjust the connection adapter. For safety, replace the flat join in the cold water pipe using a new join.

Reinstall the pipe on the adapter, then tighten. Use a Teflon strip to avoid leaks. Reconnect the valve on the adapter and close. Connect the polyethylene tube to the quick connection. The tube should be fixed in place firmly.

3. Open the stop valve on the cold water inlet and check for leaks.



CONNECTION ADAPTER

2. DRILLING A HOLE FOR THE TAP

The tap must be correctly installed to ensure its proper operation. The space around the base of the tap should be wide enough so that it can be opened and closed easily.

If there is not much space available around the sink, the tap can be positioned as close as possible to it. Pay particular care to obstacles in the working area, such as drawers, interior partitions, pipes, etc. The drilling method for a ceramic sink is the same as that for an enamel sink. It is easy, but be very careful to avoid chipping the enamel.

The tap is supplied with a trim, an O-ring, a black support plate, an attachment washer and a nut. Place the trim and the O-ring on top of the work surface (under the tap) and the black support plate, the attachment washer and the nut under the work surface. The polyethylene tube coming from the reverse osmosis unit connects using a quick connector (see section on “Tube connection”)

a) Enamel sinks

For drilling, start with a small drill bit to use as a guide for the hole, then use a 12 mm carbon-tip drill bit. When you begin drilling, maintain firm and uniform pressure towards the bottom. To avoid the enamel chipping, begin drilling slowly. Once the 12 mm hole is finished, quickly clean the area, as metal particles can stain enamel.

b) Stainless steel sinks

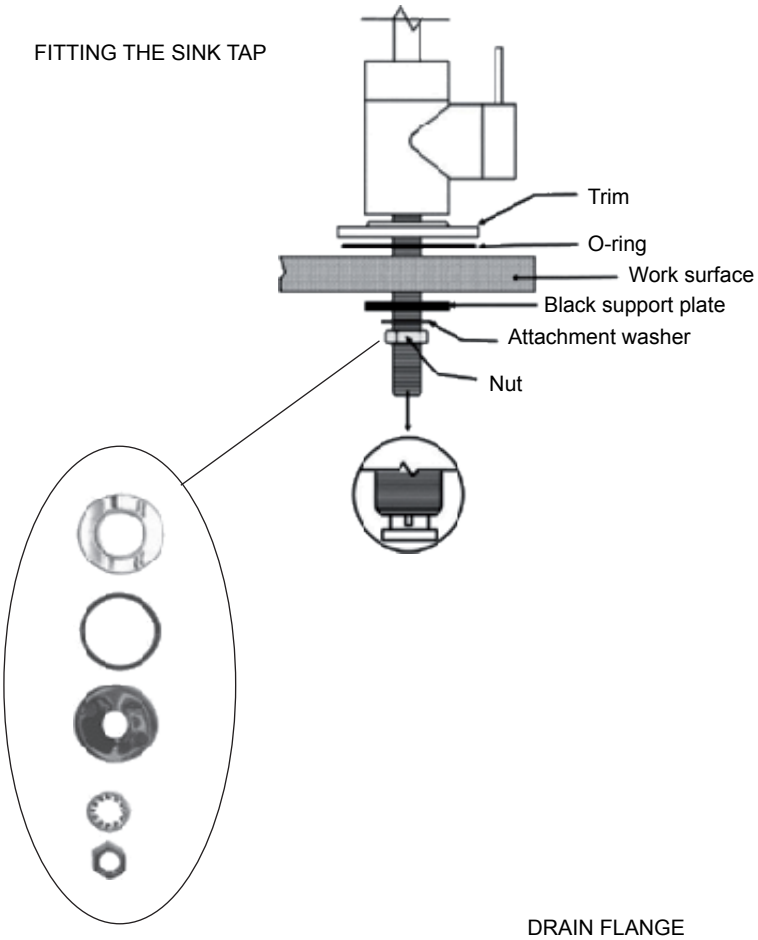
Use the same method as with enamel. Once the hole is finished, polish off any bumps and clean the area.

3. FITTING THE DRAIN FLANGE

The drip flange adapts to standard 1’’1/4 pouring pipes. Install the flange above the siphon. Drill a 1/4’’ hole on the drainage pipe. Stick the adhesive square join supplied on the hole. Remove the part of this join that is covering the hole. Fit the two parts of the flange opposite each other with the screws provided, checking that the hole in the pipe is facing that of the flange.

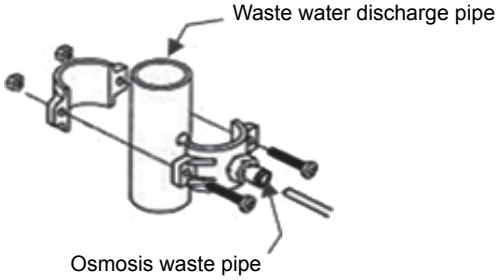
The black polyethylene tube from the osmosis unit connects with a quick connector (see “Tube connections” section).

FITTING THE SINK TAP



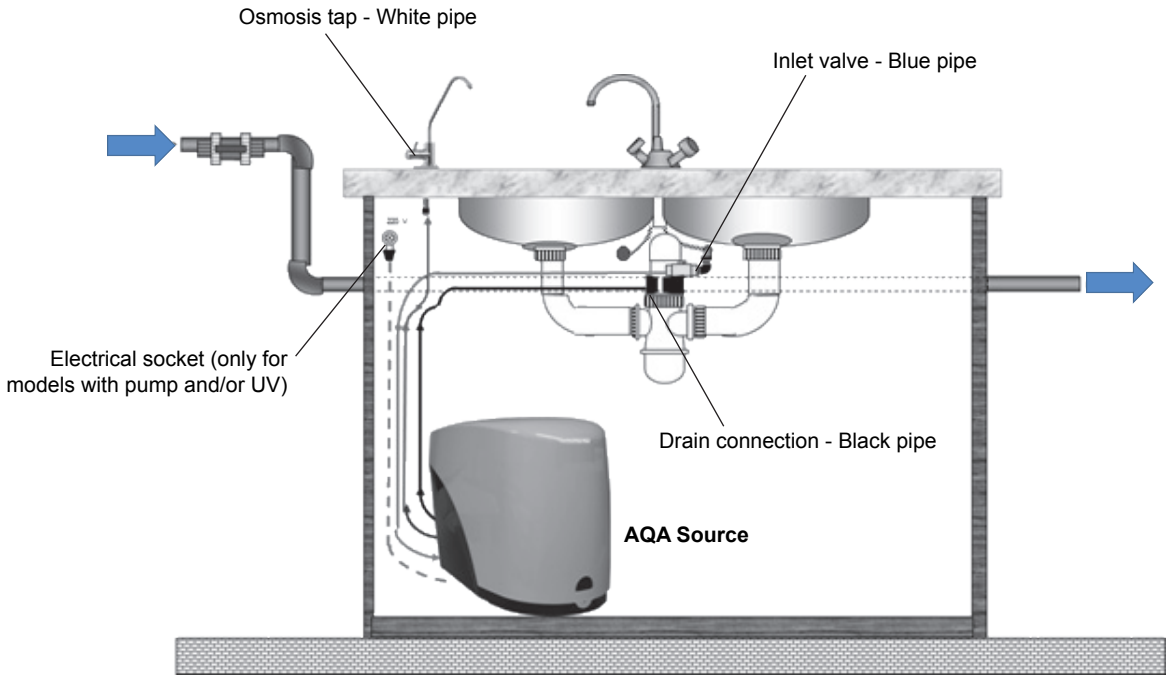
SINK TAP

DRAIN FLANGE



INSTALLATION DIAGRAM

1. FITTING THE OSMOSIS UNIT (See installation diagram)



Make sure there is enough space under the sink before installation.

2. TUBE CONNECTION

Connect the various tubes by colour:

- WATER INLET (blue tube) from the water inlet to the appliance.
- OSMOSIS UNIT TAP (white tube) from the appliance to the tap.
- DRAIN (black tube) from the appliance to the drain flange.

FITTING THE MEMBRANE

Before beginning, wash your hands and use disposable gloves.

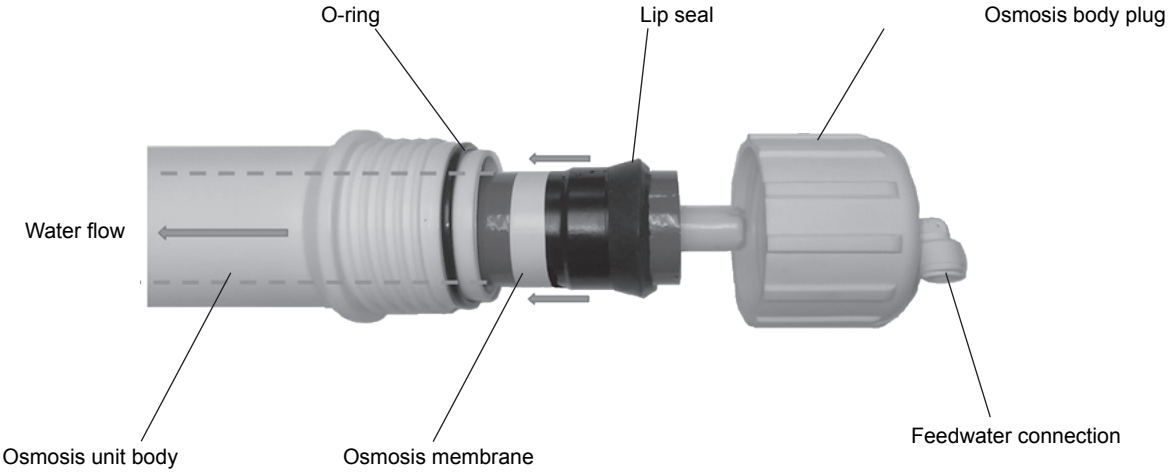
The membrane is supplied separately in a waterproof packet to avoid any contamination.

To install it, remove the cover of the osmosis unit, locate the membrane housing and disconnect the feed tube.

Then, unscrew the cap and position the membrane in the direction of the flow of water.

Make sure the lip seal is in position.

Tighten the cap and connect the tube in the connection.



CONNECTIONS
(Freezer/Refrigerator or water cooling system)

The reverse osmosis unit can supply water to a freezer or a cold water dispenser from up to 5 metres away.

To do this:

1. Cut the outlet tube to the osmosis unit tap and insert a T for a 1/4'' tube
2. Place a 1/4'' tube from the T to the cooling system.

Note:

Before use, two to three hours are required for the osmosis unit to fill completely with osmosis water.

DESCRIPTION OF COMPONENTS

The appliance is compact and is protected by a plastic cover. The cover can be removed easily to provide access to the various parts of the appliance by lifting the front part and pressing on the adjustment tabs.

Inside are the following elements:

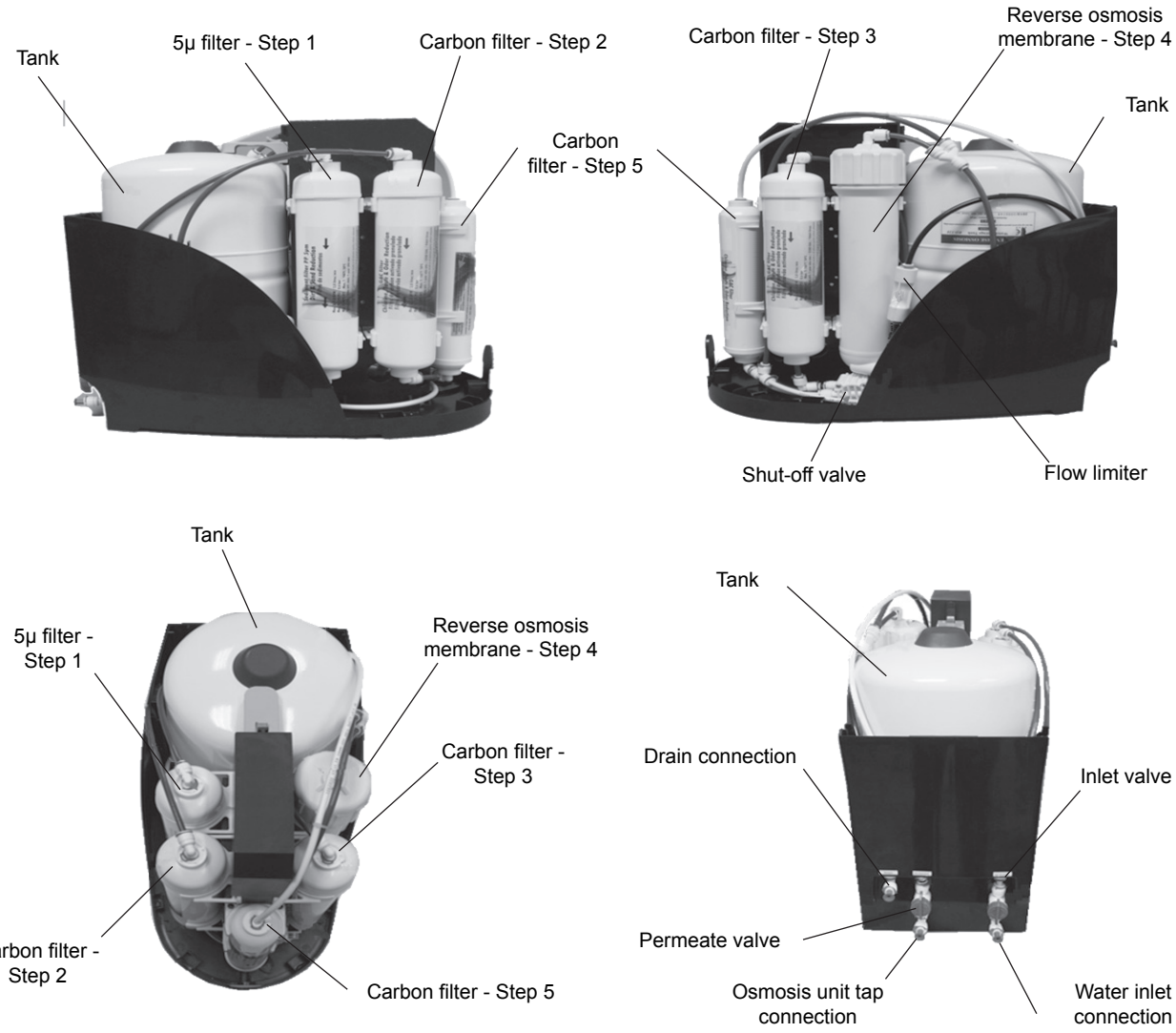
- Sediment prefilter (step 1): holds particles in suspension and avoids the membrane from getting dirty.
- Active carbon filter (step 2): removes residual chlorine and organic matter from the water.
- Active carbon filter (step 3): backup filter in the event that the first filter is worn out - also removes concentrations of chlorine above normal levels.
- Osmosis unit module or membrane housing (step 4): has two outlets - one for the permeate (water for consumption) and the other for waste.

- Shut-off valve: once the pressurized tank is full, the shut-off valve cuts off the membrane feed so as not to lose water to the drain.

  NB:

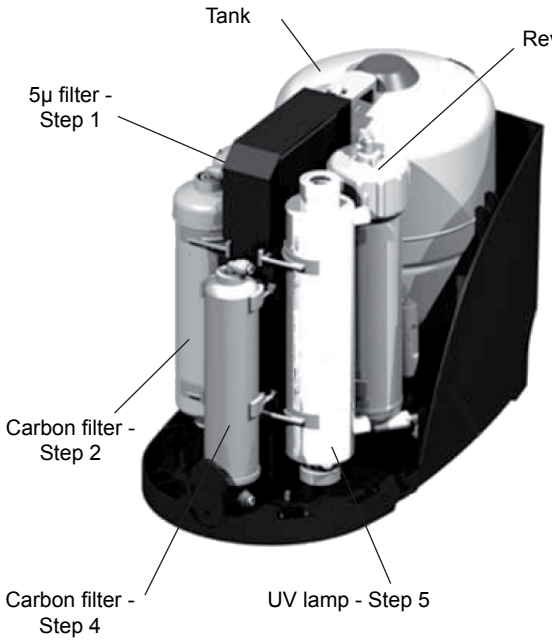
  In appliances with an incorporated pump (**AQA Source PUMP** and **SANIT PUMP** models), there is no shut-off valve as the drain closure is performed using a solenoid valve controlled by a pressure switch.

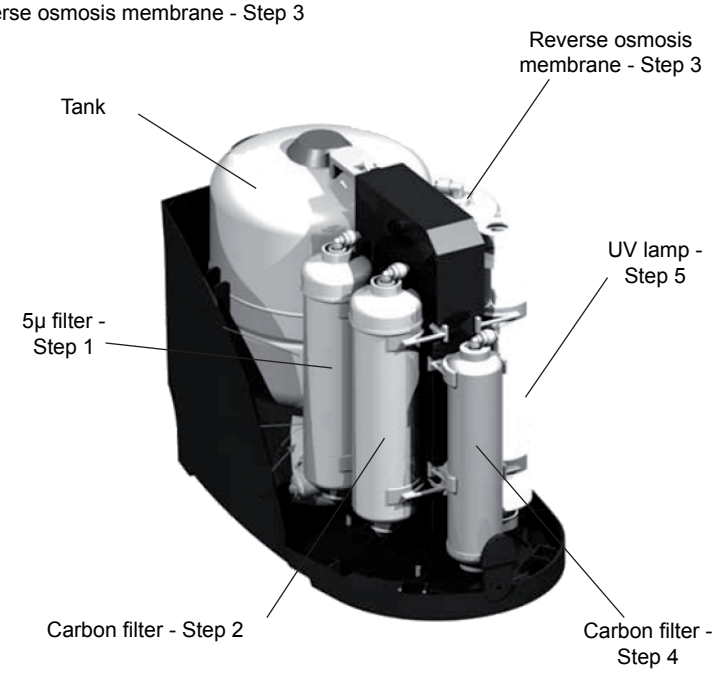
- Deodorizing filter or safety filter (step 5): avoids impurities from passing from the tank to the osmosis unit tap.
- Pressurized tank (capacity of approximately 5 litres): store of water produced by the appliance providing a flow of treated water as required.
- Ultraviolet radiation lamp (optional safety appliance for **AQA Source SANIT** and **SANIT PUMP** models): disinfects water sent to the osmosis unit tap using ultraviolet radiation.
- Booster pump (optional for **AQA Source SANIT** and **SANIT PUMP** models): for installations where the inlet pressure is lower than 2.5 bar - it also ensures the smooth operation and production of the appliance.



To the exterior, the appliance also has:

- Osmosis unit tap or LED tap: distributes osmosis water.
- Connection accessories: for the intake of water into the appliance and for discharging waste.
- Three different colours of connection tubes.





1. FITTING THE FLASHING LED (OPTIONAL)

The LED flashes blue when the tap is open.

The LED flashes red when you have consumed around 2000 litres of water (approximately 2000 minutes of use). This appliance counts the time that the tap has been open.

In this case, the filters should be changed and the corresponding maintenance tasks should be performed. Users are recommended to change the appliance battery each time the filters are replaced.

Resetting

To reset the LED system after changing filters, remove it from the tap, take out the battery and make a brief short-circuit on the positive and negative terminals.

When resetting the battery, the LED flashes blue, then red.

The counter has been successfully reset.

COMMISSIONING

1. Check all the connections.
2. Carefully open the inlet adapter valve anti-clockwise to enable water to circulate.
3. Plug in the electricity supply (only for models with a pump and/or UV lamp).
4. Turn the tank tap until it opens.
5. Allow the system to rinse the components. Wait a few minutes until the appliance produces water, and several hours until the tank is filled.
6. Check all the connections, including inside the system (leaks, etc).
7. Empty the first water tank on the osmosis unit. It is immediately ready for consumption.

NB:

A. Owing to the different configurations in which the osmosis unit may be situated, it is possible that other elements may be required for installation.

B. Users must adhere to the applicable laws and regulations.

C. After installation, air bubbles may appear in the osmosis water. This phenomenon will disappear after a few days.

D. In models with a UV lamp, the lamp will constantly remain active and, despite its low power in the irradiation chamber, the water may be slightly warm. Allow water to pour before consuming.

OPERATING THE OSMOSIS UNIT

The osmosis unit performs better with regular use.

The osmosis unit can be used in the kitchen, for coffee or other drinks, for ironing, watering indoor plants, etc.

The appliance is easy to use and its tank is automatically refilled.

To maintain a high quality of water, empty the tank once a month by opening the tap. The tap can be given a full turn if necessary.

NB:

In the event of an emergency such as a water leak, filter breakage, etc., cut off the feed valve and identify the problem.

MAINTENANCE AND SERVICE

The appliance is easy to maintain, although the filters must be replaced regularly. Otherwise, the service life of the membrane would be reduced and its warranty invalidated.

1. DISINFECTION

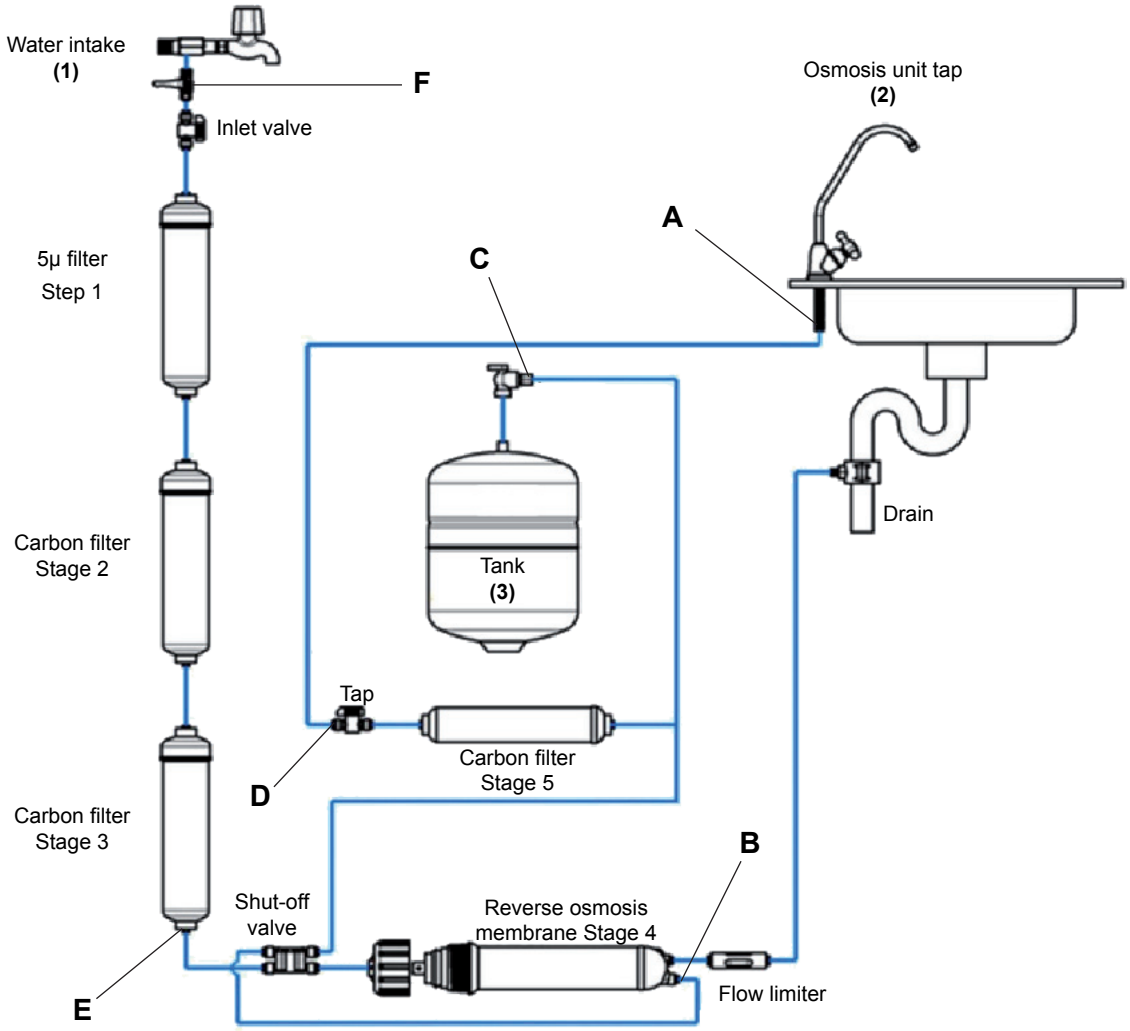
We recommend disinfecting the equipment at the time of commissioning, each time the filters are changed and when the appliance has been out of use for over a month.

Change the filters every 6 to 12 months and the membrane every 2 to 3 years.

The service life of the consumables varies depending on the usage level of the appliance and the quality of the inlet water.

Equipment for disinfection

- Syringe
- BWT AQA clean disinfection kit
- Disposable gloves



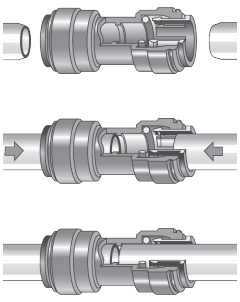
Procedure

1. We recommend working in a well-lit area with sufficient space and good hygiene conditions.
2. Before beginning, wash your hands and use disposable gloves.
3. Close the water inlet valve **(1)**.
4. Open the osmosis unit tap **(2)** until the tank is empty **(3)**
5. Once the tank is empty, close the osmosis unit tap.
6. Unplug the appliance from the electricity supply if necessary (pump/UV model).
7. To remove the cover, remove the attachment screws and press on the front and rear tabs to remove the cover.
8. Unplug the tube at point **A**, inject 2 ml of **AQA Clean** using the syringe and reconnect the tube (see: Diagram for connecting and disconnecting tubes).
9. Repeat this operation (remove the tube, inject 2 ml of **AQA Clean** and reconnect the tube) at points **B, C, D, E** and **F.**
10. Plug in the appliance to the electricity supply.
11. Open the water inlet valve and wait for 2 hours.
12. Then, open the osmosis unit tap until the tank is empty.
13. Once the tank is empty, close the tap and wait for 2 hours (necessary for rinsing).
14. After 2 hours, open the osmosis unit tap until the tank is empty.
15. When no more water comes out of the tap (tank empty), close the tap.
16. Fit the appliance cover using the attachment screws.
17. Note down the date on which the appliance was disinfected.
18. The appliance is now ready for use.

QUICK CONNECTIONS

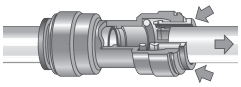
a) - To fit the tube in the connector

- Remove the blue clips
- Put the tube in the quick connection
- Push the tube in as far as it will go
- Gently pull on the tube to check that it is properly attached
- Refit the blue clips to lock the assembly in place



b) - To disassemble

- Remove the blue clips
- Push the tube into the connector fully
- While keeping pressure on the tube, with your other hand press the ring and pull the tube out from the connector.



2. REPLACING CONSUMER PARTS

Recommended replacement frequency:

- FILTERS - PREFILTER 5 µm:	every 6 to 12 months (*)
- ACTIVE CARBON FILTERS:	every 6 to 12 months (*)
- DEODORIZING FILTER:	every 6 to 12 months (*)
- MEMBRANE:	every 2-3 years (*)
- UV LAMP	every 12 months

(*) The frequency can be shortened according to the quality of the inlet water

NB:

The service life of the membranes varies depending on the characteristics of the water entering the appliance. Users are strongly recommended to perform regular checks on the osmosis unit to check the production levels specified by the manufacturer.

Other consumables:

- BOOSTER PUMP:	every 2-3 years.
- BWT AQA CLEAN DISINFECTION KIT	At the time of each disinfection

Other parts on request

3. REPLACING FILTERS

1. Disconnect the appliance from the electricity supply (for models with pump and/or UV).
2. Close the water inlet valve.
3. Empty the tank fully by opening the osmosis unit tap.
4. Remove the tubes from both sides of the filter cartridge. They have quick connections.

To remove the tube, take off the clip, push the ring inwards and simultaneously pull on the tube from the outside.

5. Replace the filter with a new one and check the flow direction.
6. Relocate the inlet and outlet tubes.
7. Put the connection clips back in place.
8. Open the system water inlet.
9. Plug the appliance in to the electricity supply (for models with pump and/or UV).
10. Check for leaks
11. Empty the first tank of produced water fully after each time the filters are replaced.

4. REPLACING THE MEMBRANE

Before beginning, wash your hands and use disposable gloves.

Follow the same procedure as replacing the filters, as given above, and remove the plastic cap.

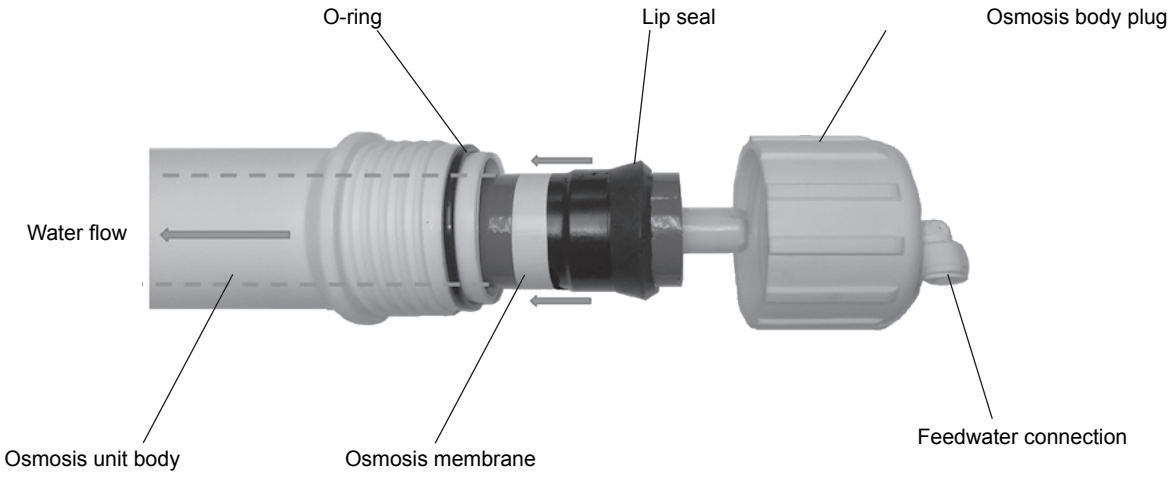
Remove the used membrane - using pliers if necessary.

Clean the interior using a lint-free cloth.

Position the new membrane and check the water flow direction.

Make sure the lip seal is in the correct position.

Put the cap back on, tighten the compression nut and put the blue tube in the connector.



PROBLEMS & SOLUTIONS

1. LEAKS IN EQUIPMENT

1. Positioning filters: check that they are properly suited for the location and replace if damaged.
2. Tubes: replace if damaged (broken, cut).

2. DRIPPING TAP

After long periods of use, the inside of the tap may become worn and drip when in the closed position. If this happens it will need replacing.

3. WEAR IN THE BOOSTER PUMP (ONLY IN MODELS WITH PUMP)

If the water production lessens even though the osmosis unit membrane is intact, the booster pump will need replacing.

4. THE APPLIANCE DOES NOT PRODUCE WATER OR THE FLOW IS VERY WEAK

1. 3 to 5 hours need to elapse after commissioning until the tank is full - more if the appliance is connected to a cooling system.
2. Check that the water inlet valve is open.
3. If you use a lot of water, the volume in the tank may run out more quickly. It will refill automatically.
4. Check all tube connections (creasing, flattening).
5. Make sure that the tank valve is open.
6. Check that the 5 µm prefilter is not blocked (the most common cause of issues). A clogged filter will slow down the flow. It needs replacing regularly.
7. Excessively low water pressure can also cause a weak flow in the tank or from the tap. If the low water pressure becomes a problem, a booster pump should be installed.

8. If the water tank is full but there is no flow to the tap, the tank will have lost its pressure and should therefore be pressurized or replaced. The air pressure in the tank should be around 0.4 bar when the tank is empty.

The tank can be pressurized manually using a bicycle pump connected to the tank valve provided for this purpose. Check the pressure of the tank using a pressure gauge.

9. The water temperature has a very strong influence on what the appliance produces. An excessively cold supply of water considerably reduces the production capacity of the membrane.

CAUTION:

BEFORE INSTALLING YOUR OSMOSIS UNIT, WE RECOMMEND THAT YOU ASK YOUR INSTALLER TO CHECK THE INLET WATER PRESSURE.

IF THE PRESSURE IS GREATER THAN 6 BAR, A PRESSURE REDUCING VALVE SHOULD BE INSTALLED.

IN THE EVENT OF HIGH INLET PRESSURE, PLEASE CONSULT THE DISTRIBUTOR IN ORDER TO PREVENT ANY FUTURE DAMAGE.

THE MANUFACTURER IS NOT ABLE TO COVER FOR PROBLEMS OF LEAKS OR BREAKAGES CAUSED BY EXCESSIVE PRESSURE.

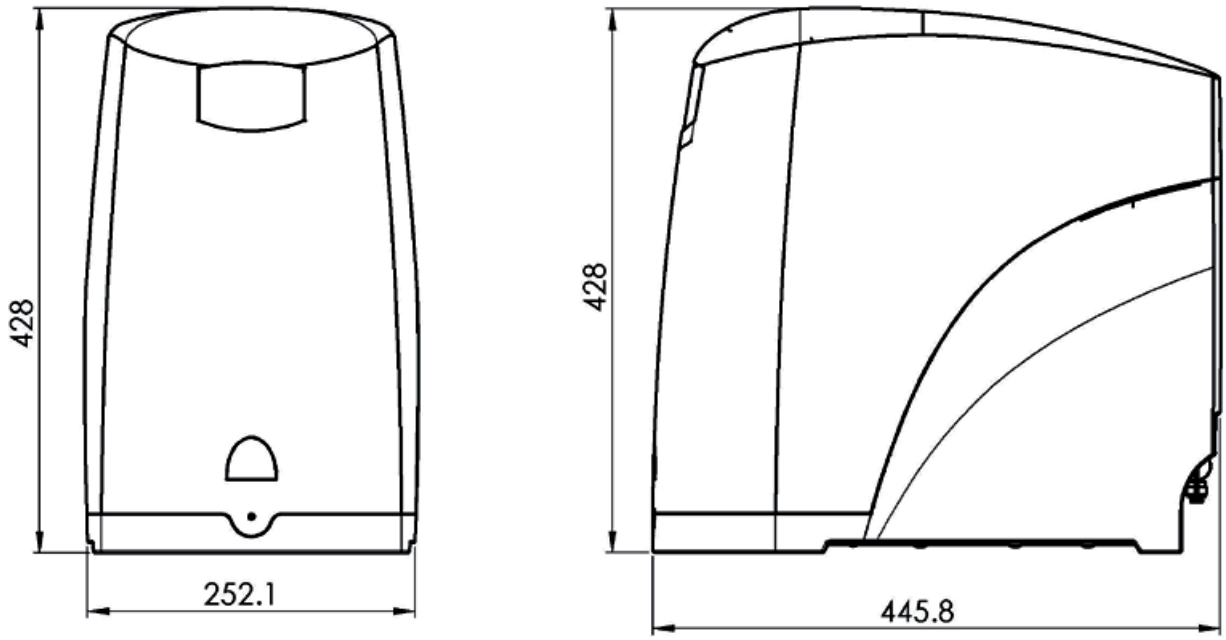
TECHNICAL DATA

- Connection adapter diameter: 3/8’’
- Drain to waste tube connection diameter: 1/4’’
- Permeate production at 1,000 mg/L and 20 ºC (1): 150 to 250 L
- Number of membranes: 1
- Feed pressure: 3 bar min. / 6 bar max.
- Inlet water temperature: 10°C min. / 30 ºC max.
- Ambient temperature: 10°C min. / 40 ºC max.
- pH of feed water: 3 - 9
- Maximum concentration of dissolved minerals: 1200 mg/L
- Reduction in salt content: > 90%
- Sediment prefilter: 5 µm
- Tank capacity (2): ~ 3.2 litres at 4 bar and 23°C
- Operating weight (AQA Source model): ~ 13.5 kg
- Tank connection diameter: 1/4’’ NPT
- Tap water outlet flow (full tank): 1.7 L/min.

(1) The appliance production rate and production varies strongly depending on the water pressure, the tank pressure, the temperature and the characteristics of the inlet water.

(2) The usable capacity of the tank varies according to the inlet water pressure.

DIMENSIONS



SPECIFIC DATA

BWT AQA Source Basic, Led, Pump, Pump Led, Sanit, Sanit Pump

- Electricity supply 220 Volts 50Hz
- Installed power for the UV lamp ~ 14 W
- Booster pump power ~ 30 W
- Pump operating weight ~ 18 Kg
- Sanit operating weight ~ 14 Kg
- Sanit Pump operating weight ~ 18.5 Kg

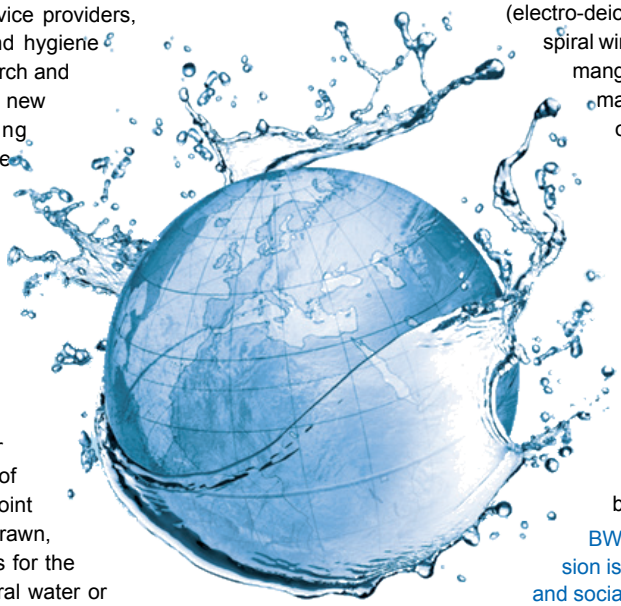
CONSUMABLES

- 4 treatment cartridge kit code P0012400A
- Reverse osmosis membrane code P0012403A

NOTES

The BWT group

Best Water Technology Group was founded in 1990, and is now one of the leading European water technology companies. It has 70 subsidiaries and affiliated companies, with total staff of over 2800, although the BWT network also comprises thousands of partner companies, service providers, installers, planners, architects and hygiene specialists. The staff in the Research and Development department work on new processes and equipment, using state of the art techniques, with the aim of developing new products that are both environmentally-friendly and cost-effective. BWT is particularly committed to the reduction of energy consumption and CO2 emissions. BWT revolutionary products are present, and have already more than proved their effectiveness, in almost every field where water is involved: whether at the entry of a water pipe into a building, the “Point of entry”, or where water is finally drawn, the “Point of use”. Whether this is for the treatment of drinking water, mineral water or demineralised water for pharmaceutical applications, swimming pools, heating and process water, water for boilers and cooling water, and even water for air conditioning.



A multitude of innovations which ensure maximum safety, hygiene and health protection for our customers during their daily contacts with water, that precious elixir of life. Amongst these innovations, in particular we find SEPTRON®, the world’s first EDI (electro-deionisation) module, which is fitted with spiral winding, the MDA process (activation of manganese oxide), to effectively eliminate manganese, total AQA bipolar technology, which offers protection against calcium carbonate, without the addition of chemicals, SANISAL, the world’s first regenerating salt for water softening installations, which simultaneously disinfects the water, and the revolutionary new Mg2+ technology, which gives both filtered water, along with tea and coffee, a better taste. With its unique high yield membranes for fuel cells and batteries, BWT offers a cleaner, more sustainable energy solution in the 21st century.

BWT – For You and Planet Blue: our mission is to fulfil the environmental, economic and social responsibility to supply our customers with the best water treatment products, systems, technologies and services, and so contribute to the most effective protection of the global resources of our blue planet.

BWT
BEST WATER TECHNOLOGY

For You and Planet Blue.