



# CATALOGUE 2016



## WATER FOR HUMAN CONSUMPTION

- GENERAL COLD WATER
- DOMESTIC HOT WATER
- DRINKING WATER

For You and Planet Blue.





## 3 catalogues, all the water treatment solutions

**Maintaining water quality, protecting equipment, maintaining building energy performances: BWT has the right solutions for your installations and your needs.**

### 1. WATER FOR HUMAN CONSUMPTION

General cold water, domestic hot water, drinking water

### 2. HEATING AND CLIMATIC SYSTEMS

Heating water, cooling systems and closed circuits

### 3. PROCESS WATER

Raw water and borehole water, reverse osmosis water, distilled water, neutralisation, swimming pools and ponds

# EDITORIAL



26 years ago, in 1990, we began an adventure with **BWT (Best Water Technology)**: the mission we decided on was to develop an extraordinary market, the water market. Even at the time, we were convinced that this market had huge potential and that water treatment products and solutions would play an increasingly essential role in facing the challenges created by the increasing global population, climate change and the increasing need for hygiene, safety and health.

Since then we have been meeting these challenges with our unrivalled innovation, our brand strategy and the integration of trades that currently make the **Best Water Technology group the European leader for water treatment**.

We have **3600 employees**, of which **570 are in France**, working to take our clients to the highest level of safety and hygiene in their daily relationships with water. Whether at the service of people, institutions or industry, we use innovating, economic and ecological solutions. One of the essential aspects is the reduction of raw materials and energy, leading to the reduction of CO<sub>2</sub> emissions.

Even if we are permanently aware of our responsibility, a quarter of a century of activity is an opportunity to consider and recognise what we have achieved. It is the subject of this editorial, of a catalogue that marks a new chapter in BWT France's history. Our network is organised into **7 major regions and 3 fields of expertise** (Construction, Industry, Services) that further increase our availability, our proximity and our reactivity.

We are sure that this catalogue shows the image of dedicated teams and effective products.

*D. Boucly*

Dominique Boucly  
Managing Director

→ You will find the full presentation of BWT on pages 4 to 7

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## SOFTENING

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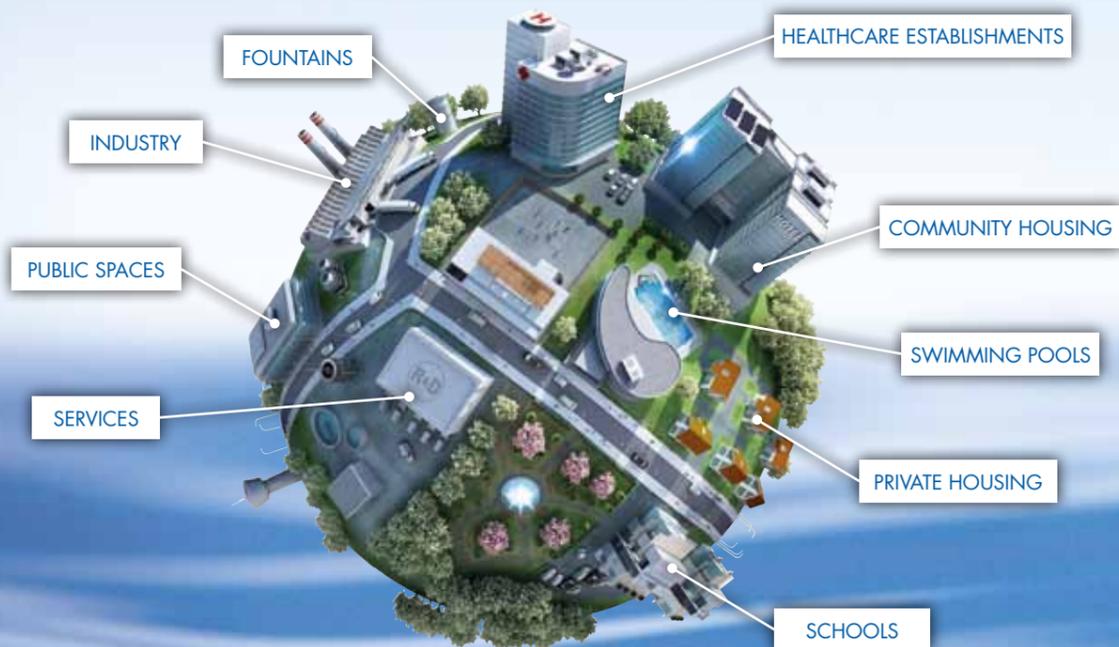
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## SERVICES

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# BWT, ALL THE WATER TREATMENT SOLUTIONS



# THE STRENGTH OF A MANUFACTURER



## HEADQUARTERS SAINT-DENIS (93)

- A development centre
- A Production & Logistics centre
- An ISO 9001 certified analysis laboratory
- An approved training body

As the European leader in water treatment, BWT group puts its know-how at your disposal, whether you are an industrial sector professional, in charge of community level infrastructure, or simply a private individual. Our technology and innovations provide you with the water treatment suited to your needs at the same time as improving hygiene, safety and energy control, at the service of public health and of our environment.

### → A wide range of solutions



### THE BWT GROUP

The European water treatment leader, BWT Group designs, manufactures and accompanies water treatment solutions. Globally, the BWT group is:

- 7 production sites
- 3600 employees
- 500 M€ turnover
- 4% of turnover invested in R&D

### BWT, CERTIFIED TRUST



ISO 9001: 2008 n° 1994/2604: AFNOR has certified that our water treatment quality management system is compliant with the standard.



Our products (softeners, filters, anti-scale) have achieved, or are in the process of achieving French Sanitary Compliance Certification. (ACS, or Attestation de Conformité Sanitaire). This is a safety certificate for all products sold in France that come into contact with water intended for human consumption.



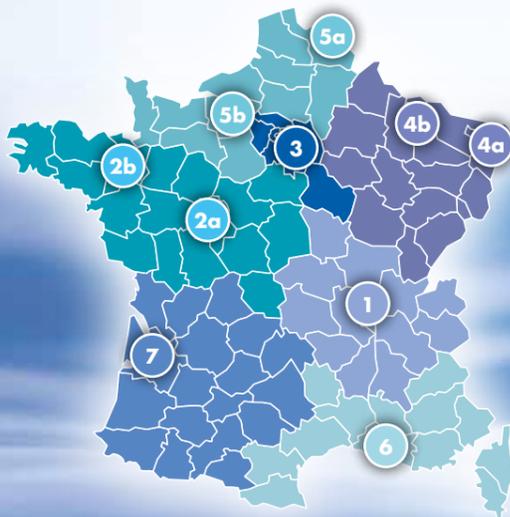
Our BWT residential softeners, manufactured on our Saint-Denis BWT production site are certified "Guaranteed French Origin". The guarantee that the products bearing the logo were made in France.



The purpose of the certification is to certify compliance with technical specifications, described in a reference, and services linked to the installation or maintenance of a product or process that is the subject of a Technical Approval. Our complete SoluTECH Collectif treatment solution has an ATEC issued by CSTBat for all metal heating services including aluminium.

# A LOCAL NETWORK

- **580** employees
- **7** Regional departments



## YOUR REGIONAL CONTACTS

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# BWT SERVICES AND TRAINING



## → PROFESSIONAL TRAINING

BWT France is an approved training organisation (French approval n° 11 93 04002 93) that provides training to acquire essential knowledge in the field of water treatment:

- **water treatment training:** water chemistry and analysis, issues and disorders encountered, changes in standards, sizing notions, etc.
- **equipment related technical training:** understanding how installations work and how to choose the right equipment, optimise operations and maintenance, avoid stoppages, etc.

This training is tailored to your needs and can be given on your premises or on ours.

**If you have any questions, get in touch with your sales contact.**

→ **BWT's mission is to be there for you every day** and to be by your side throughout your projects. To achieve this, our BWT network is at your service.

- **A sales department:** design and commercial proposals, field assistance and sales assistance.
- **A client department:** order entry and tracking, product availability, lead times, delivery tracking
- **A technical department:** technical assistance, repairs, commissioning, servicing and maintenance.

## → THE BWT INSTALLERS CLUB

BWT accompanies its installer clients and gives them tools specific to their business:



- Sales assistance tools and goodies
- Special offers
- Gifts

Have a chat with your sales contact or check out the web site [www.installateurs-bwtpermo.fr](http://www.installateurs-bwtpermo.fr)



## → THE BWT DECISION-MAKERS WEB SITE

BWT offers an exclusive space for professionals (design offices, installers, consultant-engineers, architects, project managers).

- Advice and technical tools for specifications documents
- Drawings and technical sheets for equipment and installations
- Accompaniment and detailed design

Have a chat with your sales contact or check out the web site [www.bwtprescription.fr](http://www.bwtprescription.fr)



## 1

#### WHY RECOMMEND FILTERING PRODUCTS?

Filtering is a major step in the water treatment process. Filters trap impurities and other undesirable components of water (taste, odour, bacteria, etc.). By removing these elements from the water, the protection of the services and user comfort are guaranteed.



# FILTRATION

→ **For sustainable comfort** thanks to high quality water, piping and diffusers protected from deposits, no more unpleasant tastes or odours, and rainwater ready to reuse. BWT offers you proven solutions.

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You will find the applications in 2 symbols for each product.



ideal for individual housing



Ideal for community facilities

# HOW TO BEST CHOOSE YOUR FILTER TO REMOVE IMPURITIES



TYPE		BWT E1	BWT CRISTAL 4
Applications			
Flow rate	m <sup>3</sup> /h	0.3 to 3.6	0.3 to 1.8
Filtration grade	µm	90	20
The product pluses		<ul style="list-style-type: none"> <li>• Pressure regulator and gauge</li> <li>• Check valve</li> <li>• Water cut-off lever</li> <li>• Cartridge change warning indicator light</li> <li>• Easy cartridge change: no tools and no contact with the water</li> </ul>	<ul style="list-style-type: none"> <li>• Compatible with all 10" cartridges</li> </ul>
Care		 Cartridges changed with no tools in 30 seconds	 Cartridge changes
Health and safety			
		<b>P. 12</b>	<b>P. 14</b>

# HOW TO BEST CHOOSE YOUR MULTI-FUNCTION FILTER

## Impurity filtration + taste and odour removal functions



**BWT DIFLO**

Protects installations from impurities and eliminates odours and taste from the water (especially chlorine)

**P. 16**

## Impurity filtering + anti-scale and corrosion functions



**BWT DIPHOS**

Protects installations from impurities, prevents scale deposits and protects from corrosion

**P. 57**

## Rainwater and borehole water filtering



**BWT PERMOPLUIE**

3 actions:

- Water clarification
- Filtering of impurities
- Elimination of unpleasant odours

**P. 17**



TYPE		BWT FINE	BWT CRISTAL WF	BWT INFINITY FILTER
Applications				
Flow rate	m <sup>3</sup> /h	0.3 to 4	3.5 to 32	5 to 100
Filtration grade	µm	90	90	90/110
The product pluses		<ul style="list-style-type: none"> <li>• Built-in purge system</li> <li>• Horizontal or vertical mounting</li> <li>• Withstands a pressure of 8 bars</li> <li>• Connectors supplied</li> </ul>	<ul style="list-style-type: none"> <li>• Strong; bronze head</li> <li>• Clear bowl to check clogging level</li> <li>• Impurity evacuation using a purge system</li> <li>• Connectors supplied</li> <li>• Easy maintenance not requiring special tools</li> </ul>	<ul style="list-style-type: none"> <li>• Directional connector head</li> <li>• 2-Phase filter washing system (backwash and rinse)</li> <li>• A choice of 2 models (manual and automatic)</li> <li>• A continuous supply of filtered water, even during washing phases</li> </ul>
Care		 Washable cartridge	 Washable screen	 Backwash screen cleaning
Health and safety				
		<b>P. 18</b>	<b>P. 19</b>	<b>P. 20</b>

Good performances Very good performances Excellent performances

# HOW TO BEST CHOOSE YOUR DRINKING WATER FILTER

## Taste and odour removal drinking water filter



**BWT AQA PURA**

Under-sink filter:

- Removes the taste from tap water (especially chlorine)

**P. 23**

## Reverse osmosis units to refine drinking water



**BWT AQA SOURCE**

High tech reverse osmosis unit:

- Removes the taste and odour from water
- Purifies the water of over 95 % of impurities (bacteria, virus, metals, pesticides, chlorine, nitrates)

**P. 22**

# BWT E1

## PROTECTION STATION



→ Flow rate: 3.6 m<sup>3</sup>/h

### PRODUCT PLUSES

- **Complete protection station:** pressure reducer, check valve, cut-off valve, pressure gauge
- **Cartridge changes** are simple, fast and clean, in 30 seconds, with no tools
- **Cartridge change warning indicator light**

### OPERATION

The BWT E1 traps water-borne impurities (particles in suspension, sludge, sand).

It is a true protection system for the home, it has a built-in pressure regulator to avoid excess pressure and harmful hammer effects, a pressure gauge, a check valve and a cut-off valve. Its lockable lever makes it possible to change cartridges very quickly (30 seconds) and cleanly (no contact with the water or the filtering element).

### APPLICATIONS

The BWT E1 Protection system is the ideal solution for the tap water inlet for private dwellings, houses or apartments.

It protects installations from jamming and abrasion by trapping undesirable water-borne particles (sand, sludge, filings, etc.).

### STANDARD EQUIPMENT

Complete station delivered ready-to-install.

- Protective filter with a 90 µm screen
- Built-in pressure regulator
- Built-in check valve
- Built-in cut-off valve
- Cartridge change warning indicator light
- Lockable manual lever
- Bronze and brass connection accessories

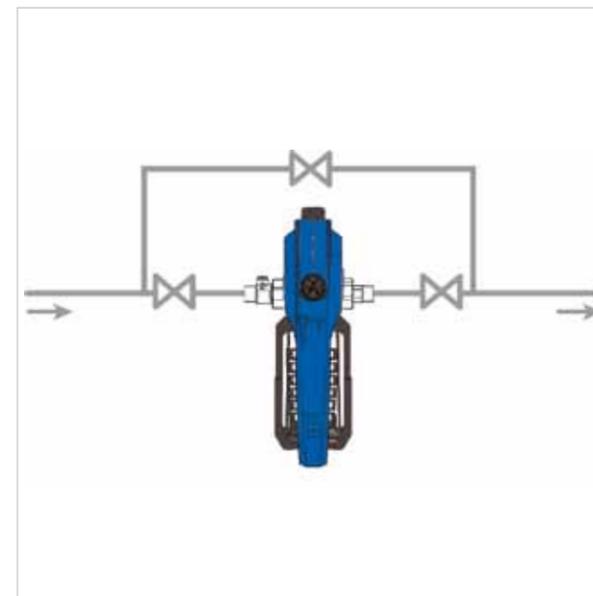
### CARE

Change the cartridge when the light indicator flashes, or about every 6 months. Very hygienic maintenance, the cartridge is shipped in its packing making it possible to change it without any contact with the water.

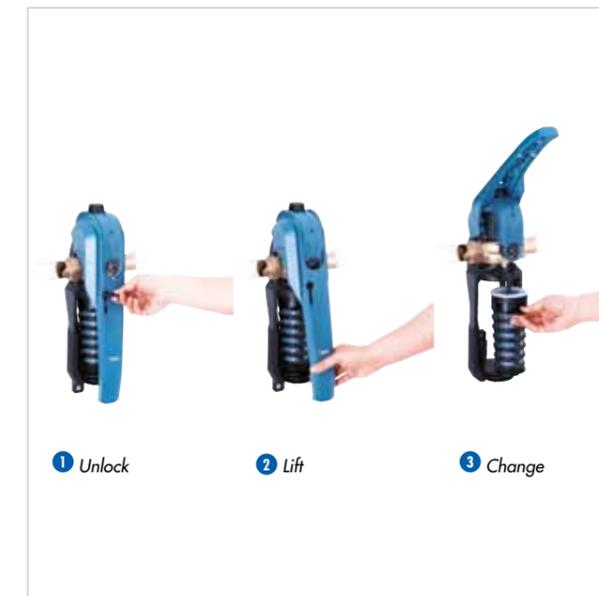
### TECHNICAL SPECIFICATIONS

TYPE		BWT E1
<b>TECHNICAL SPECIFICATIONS</b>		
Coupling diameter	DN/inch	DN 25/1"
Rated flow at ΔP= 0.2 bar	L/h	3600
Max. dynamic pressure	bars	16
Min/max water temperature	°C	5/35
Product code		<b>P0010090</b>
Retail price ex. VAT*		<b>332.00 €</b>
<b>SIZE SPECIFICATIONS</b>		
Width with connector	mm	199
Width without connector	mm	100
Total height with cartridge	mm	567

### INSTALLATION RECOMMENDATIONS



### SIMPLE AND QUICK SERVICING

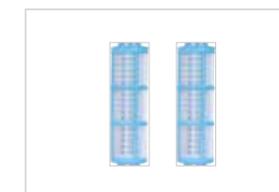


### ACCESSORIES AND CONSUMABLES

NAME	Product code	Retail price ex. VAT*
Replacement kit (1 filtering element + 1 cartridge)	<b>P0010089</b>	<b>20.00 €</b>
Set of 2 spare filtering elements	<b>P0003333</b>	<b>20.00 €</b>



Replacement kit



Spare filtering elements

# BWT CRISTAL 4

## IMPURITY FILTER



### PRODUCT PLUSES

- **Quick and easy** to install
- **Connectors** with brass threading
- **Filter compatible** with all standard 10" cartridges
- **Cartridge supplied**, a unique design for optimised consumable use

### OPERATION

The filter removes water-borne impurities (particles in suspension, sludge, sand).

The BWT CRYSTAL 4 filter includes a head, a bowl and a 20 µm filtering cartridge to trap water-borne impurities.

### APPLICATIONS

Installed on the home's general water supply inlet, it protects the installations and equipment from jamming and obstructions.

### STANDARD EQUIPMENT

Complete, ready-to-install cartridge filter, delivered with:

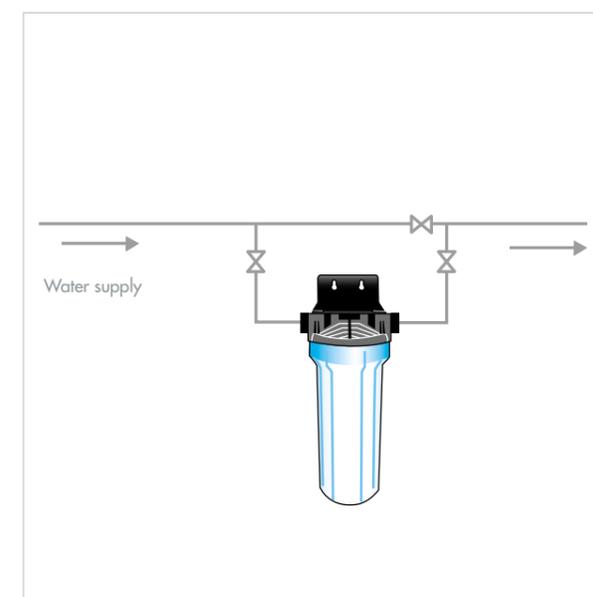
- a fixture bracket
- a loosening wrench
- a supporting sleeve
- a 20 µm filtering sleeve

→ **Flow rate:** 1.8 m<sup>3</sup>/h

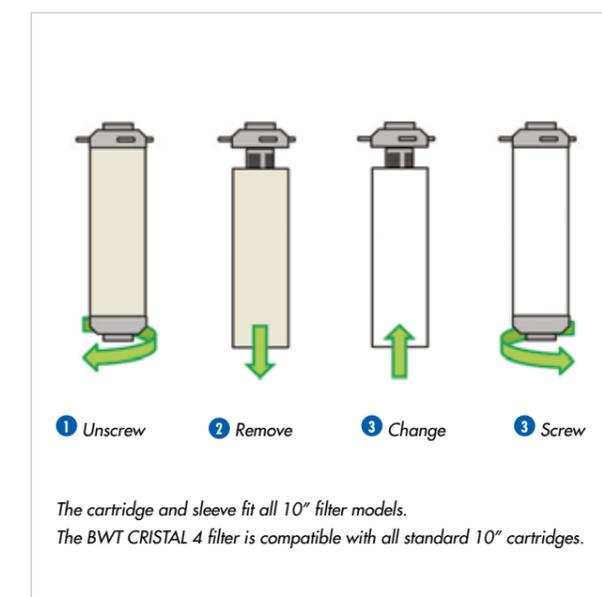
### TECHNICAL SPECIFICATIONS

TYPE		BWT CRISTAL 4
<b>TECHNICAL SPECIFICATIONS</b>		
Coupling diameter	DN/inch	DN 20/3/4"
Rated flow at ΔP= 0.2 bar	L/h	1800
Max. dynamic pressure	bars	8
Min/max water temperature	°C	0/40
Product code		<b>P0003350</b>
Retail price ex. VAT*		<b>37.00 €</b>
<b>SIZE SPECIFICATIONS</b>		
Width	mm	122
Height	mm	373
Depth	mm	126

### INSTALLATION RECOMMENDATIONS



### CHANGING THE FILTER SLEEVE



### ACCESSORIES AND CONSUMABLES

NAME	Product code	Retail price ex. VAT*
1 CRISTAL 4 10" 20 µm cartridge (sleeve + holder)	<b>P0003352</b>	<b>26.00 €</b>
1 CRISTAL 4 10" sleeve 20 µm	<b>P0003351</b>	<b>15.50 €</b>
3 CRISTAL 4 10" sleeves 20 µm BOX	<b>P0003354</b>	<b>30.00 €</b>
Removal key + seal	<b>P0003353</b>	<b>20.60 €</b>



CRISTAL 4 Cartridge



Removal key + seal

# BWT DIFLO

FILTER FOR IMPURITIES, TASTE AND ODOUR REMOVAL



## PRODUCT PLUSES

- Delivered complete with by-pass, fixture bracket and removal wrench
- Simple and quick to install

## OPERATION

The filter removes water-borne impurities (particles in suspension, sludge, sand) as well as taste and odour. The BWT DIFLO filter is composed of a head, 2 bowls and 2 filters (20 µm filtering and activated carbon).

## APPLICATIONS

The BWT DIFLO filter is a filtering and chlorine removal kit. Installed on the water inlet, it protects installations and equipment from jamming and obstructions, and provides the comfort of tasteless and odourless water.

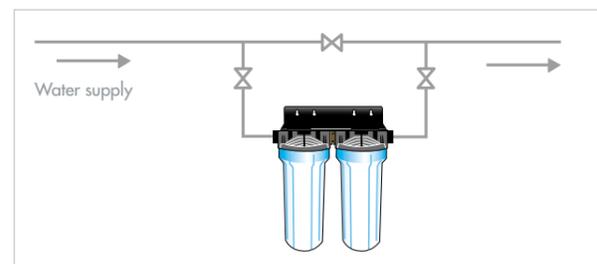
## STANDARD EQUIPMENT

- Complete filter delivered fitted with:
- a wall mounting bracket
  - a wrench to remove the filter bowls
  - the 1<sup>st</sup> set of cartridges: 1 20 µm impurity trapping filter + 1 activated carbon taste and odour removal filter
  - a by-pass (brass connectors – copper tubes – 1/4 turn valves)

## CARE

The impurity filter is to be changed every 6 months or more frequently if necessary depending on your water quality. Activated carbon filter to be changed every year.

## INSTALLATION RECOMMENDATIONS



Impurity trapping filter



Activated carbon cartridge



Removal key + seal



→ Flow rate: 1.8 m<sup>3</sup>/h

TYPE		BWT DIFLO
<b>TECHNICAL SPECIFICATIONS</b>		
Coupling diameter	DN/inch	DN 20/3/4" M/M
Rated flow at ΔP= 0.2 bar	L/h	1800
Max. dynamic pressure	bars	8
Min/max water temperature	°C	0/40
Product code		<b>P0003870B</b>
Retail price ex. VAT*		<b>143.00 €</b>
<b>SIZE SPECIFICATIONS</b>		
W x H x D	mm	404 x 450 x 105

## ACCESSORIES AND CONSUMABLES

NAME	Product code	Retail price ex. VAT*
Removal key + seal	P0003353	20.60 €
2 impurity trapping filters + 1 activated carbon filter	P0003875A	32.00 €
1 impurity trapping filter	P0003351	15.50 €
3 Activated carbon cartridges - BOX	P0003703A	35.00 €

\*Prices valid in Metropolitan France unless changed. See general sales terms and conditions

# BWT PERMOPLUIE

RAIN OR BOREHOLE WATER FILTER



## PRODUCT PLUSES

- Complete kit to filter rain or borehole water
- Simple and quick to install

## OPERATION

The BWT PERMOPLUIE filter traps impurities and removes the taste and odour from rain or borehole water. It is composed of 3 bowls and 3 cartridges (90 µm filtering, 25 µm filtering and activated carbon).

## APPLICATIONS

The BWT PERMOPLUIE filter is designed for a domestic rainwater or borehole water treatment installation. It guarantees the water supply for uses that do not require potable water.

It can be used to filter water:

- outside buildings (watering, cleaning patios, walls, cars, etc.)
  - inside buildings (WC, cleaning floors, washing machines)
- For outside or inside uses of rainwater, the interconnection of the rainwater and the water for human consumption circuits is prohibited.

The installation of a disconnecter with full overflow is compulsory and outlets must be indicated and secured (French order of 21/08/2008 on rainwater regulations).

## STANDARD EQUIPMENT

Complete kit with 3 standard filters, ready-to-install, with:

- a mounting bracket
- a washable 90 µm pre-filtering cartridge (screening)
- an extruded 25 µm filter (fine particles)
- an activated carbon filter (odour removal)
- a wrench to loosen the filter bowls



→ Flow rate: 1.8 m<sup>3</sup>/h

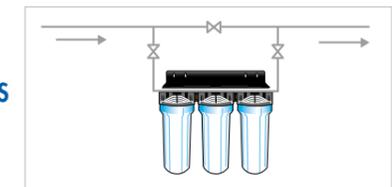
TYPE		BWT PERMOPLUIE
<b>TECHNICAL SPECIFICATIONS</b>		
Coupling diameter	DN/inch	DN 20/3/4" F/F
Rated flow at ΔP= 0.2 bar	L/h	1800
Max. dynamic pressure	bars	8
Min/max water temperature	°C	0/40
Product code		<b>P0003900</b>
Retail price ex. VAT*		<b>133.00 €</b>
<b>SIZE SPECIFICATIONS</b>		
W x H x D	mm	336 x 373 x 127

## ACCESSORIES AND CONSUMABLES

NAME	Product code	Retail price ex. VAT*
Removal key + seal	P0003353	20.60 €
Set of 3 replacement cartridges	P0003902	31.00 €

\*Prices valid in Metropolitan France unless changed. See general sales terms and conditions

## INSTALLATION RECOMMENDATIONS



Set of 3 replacement cartridges



Removal key + seal

# BWT FINE

IMPURITY FILTER



## PRODUCT PLUSES

- **Quick and easy** to install
- **Washable filtering element** and purge tap
- Horizontal or vertical mounting
- **Built-in purge** system

### OPERATION

The BWT FINE filter traps solid impurities present in tap or borehole water.

The nylon filtering element is washable and the biggest impurities are quickly evacuated using a draining system.

### APPLICATIONS

The BWT FINE filter protects equipment, sanitary appliances and household appliances from malfunctions, deteriorations and corrosion caused by foreign particles (rust, sand, filings or sludge).

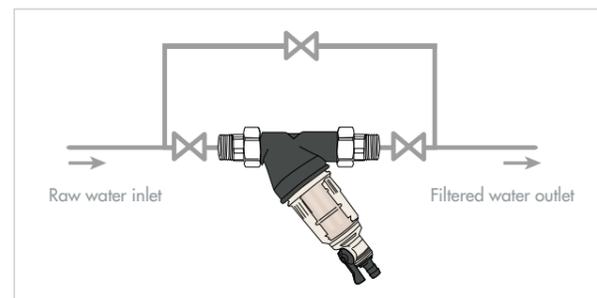
### STANDARD EQUIPMENT

Screen filter delivered fitted with:

- brass threaded connectors (3/4" or 1")
- noryl filter body
- Impurity evacuation purge system

- washable, 90 micron screen

### INSTALLATION RECOMMENDATIONS



Screen filter



→ Flow rate: 3 to 4 m<sup>3</sup>/h

TYPE		FINE Y20	FINE Y25
<b>TECHNICAL SPECIFICATIONS</b>			
Coupling diameter	DN/inch	DN 20/3/4"	DN 25/ 1"
Rated flow at ΔP= 0.2 bar	L/h	3000	4000
Threshold/filter density	µm	90	90
Max. dynamic pressure	bars	8	8
Min/max water temperature	°C	5/30	5/30
Product code		<b>P0003975A</b>	<b>P0003976A</b>
Retail price ex. VAT*		<b>97.00 €</b>	<b>101.00 €</b>
<b>SIZE SPECIFICATIONS</b>			
Width with connector	mm	205	215
Width without connector	mm	120	120
Height	mm	195	195
Height with ground clearance	mm	220	220

### ACCESSORIES AND CONSUMABLES

NAME	Product code	Retail price ex. VAT*
Set of 3 100 µm replacement screens	<b>P0003740A</b>	<b>63.00 €</b>

# BWT CRISTAL WF

IMPURITY FILTER



## PRODUCT PLUSES

- **Washable** screen filter
- Threaded or flange connectors for **easy assembly**
- Impurity **evacuation system**

### OPERATION

The BWT CRISTAL WF filter is a screen filter that traps solid impurities present in tap or borehole water (rust, sand, filings or sludge). The nylon filtering element is washable and the biggest impurities are quickly evacuated using a purge system.

### APPLICATIONS

The BWT CRISTAL WF filter is installed on the tap water or borehole water inlet to protect equipment, sanitary appliances and household appliances from malfunctions, damage and corrosion caused by foreign particles.

### STANDARD EQUIPMENT

Ready-to-connect screen filter.

- Washable, 90 micron screen, low maintenance
- Threaded brass connectors (for 1" to 2" models) or flange connectors (for 2"1/2 to 3" models)
- Bronze filter body
- Purge system
- Pressure gauge included for the 2"1/2 and 3" models

→ Flow rate: 3.5 to 32 m<sup>3</sup>/h

TYPE		CRISTAL WF 1"	CRISTAL WF 1"1/4	CRISTAL WF 1"1/2	CRISTAL WF 2"	CRISTAL WF 2"1/2	CRISTAL WF 3"
<b>TECHNICAL SPECIFICATIONS</b>							
Coupling diameter	DN/inch	DN 25/1"	DN 32/1"1/4	DN 40/1"1/2	DN 50/2"	DN 65/2"1/2	DN 80/3"
Rated flow at ΔP= 0.2 bar	m <sup>3</sup> /h	3.5	4	9	12	25	32
Threshold/filter density	µm	90	90	90	90	25	25
Max. static pressure	bars	16	16	16	16	16	16
Min/max water temperature	°C	0/35	0/35	0/35	0/35	0/35	0/35
Product code		<b>P0003197</b>	<b>P0003198</b>	<b>P0003199</b>	<b>P0003200</b>	<b>P0003539</b>	<b>P0003540</b>
<b>SIZE SPECIFICATIONS</b>							
Width with connector	mm	184	203	254	274	304	313
Width without connector	mm	100	105	140	140	-	-
Height	mm	239	239	290	290	770	770

### ACCESSORIES AND CONSUMABLES

NAME	Product code
Set of 6 replacement filtering elements for BWT CRISTAL WF FILTER 1" 1"1/4 (90 µm)	<b>P0003332</b>
Set of 6 replacement filtering elements for BWT CRISTAL WF FILTER 1" 1"1/22" (90 µm)	<b>P0003341</b>
Set of 5 replacement filtering elements for BWT CRISTAL WF FILTER 2" 1"1/23" (25 µm)	<b>P0003622</b>

Price list on request - See general sales terms and conditions

\*Prices valid in Metropolitan France unless changed. See general sales terms and conditions

# BWT INFINITY FILTER

## SCREEN FILTER



→ Flow rate: 5 to 100 m<sup>3</sup>/h

### PRODUCT PLUSES

- Maintenance **without changing the screen**
- Continuous **supply of filtered water**, even when washing
- Fitted with a **directional connection head**

### OPERATION

The BWT INFINITY filter is a backwash cleaning impurity filter that can be triggered manually or automatically depending on the model. This filter is composed of a 90 micron filter density screen that traps particles such as sand, iron oxide, filings, etc. By eliminating the particles it prevents certain types of corrosion.

### APPLICATIONS

Ideal for community applications to protect your networks and appliances (taps, softeners, mist devices, industrial processes, etc.)

### STANDARD EQUIPMENT

- Permanent screen filter
- 90 Micron filtering element
- Threaded gasket or flange coupling
- Offset, directional connector head close to the wall
- Built-in backwashing filter cleaning system:
  - manual mode: backwashing by simply turning the wheel
  - automatic mode: programmed cleaning frequency (from 1 h to 56 days)
- Control pressure gauges at the filter input and output (2" 1/2 to 5" models) to monitor clogging
- Possibility of programming washing cycles using the automatic version

### TECHNICAL SPECIFICATIONS

TYPE		INFINITY 3/4"	INFINITY 1"	INFINITY 1"1/4	INFINITY 1"1/2	INFINITY 2"
<b>TECHNICAL SPECIFICATIONS</b>						
Coupling diameter	DN/inch	DN 20/ 3/4 "	DN 25/ 1 "	DN 32/ 1"1/4	DN 40/ 1"1/2	DN 50/ 2"
Rated flow at ΔP= 0.2 bar	m <sup>3</sup> /h	3.5	4.5	5	9	11
Threshold/filter density	µm	90	90	90	90	90
Max. static pressure	bars	10	10	10	10	10
Min/max water temperature	°C	0/30	0/30	0/30	0/30	0/30
Manual version product code		-	-	P0010072	P0010073	P0010074
Automatic version product code		P0010075	P0010076	P0010077	P0010078	P0010079

### SIZE SPECIFICATIONS

TYPE		INFINITY 2"1/2	INFINITY 3"	INFINITY 4"	INFINITY 5"
Width	mm	210	210	218	240
Height	mm	550	550	550	550

TYPE		INFINITY 2"1/2	INFINITY 3"	INFINITY 4"	INFINITY 5"
<b>TECHNICAL SPECIFICATIONS</b>					
Coupling diameter	DN/inch	DN 65/ 2"1/2	DN 80/ 3"	DN 100/ 4"	DN 125/ 5"
Rated flow at ΔP= 0.2 bar	m <sup>3</sup> /h	22	36	85	100
Threshold/filter density	µm	90	90	90	90
Max. static pressure	bars	10	10	10	10
Min/max water temperature	°C	0/30	0/30	0/30	0/30
Manual version product code		PK0033932A	PK0033933A	PK0033934A	PK0033935A
Automatic version product code		PK0033936A	PK0033937A	PK0033938A	PK0033939A

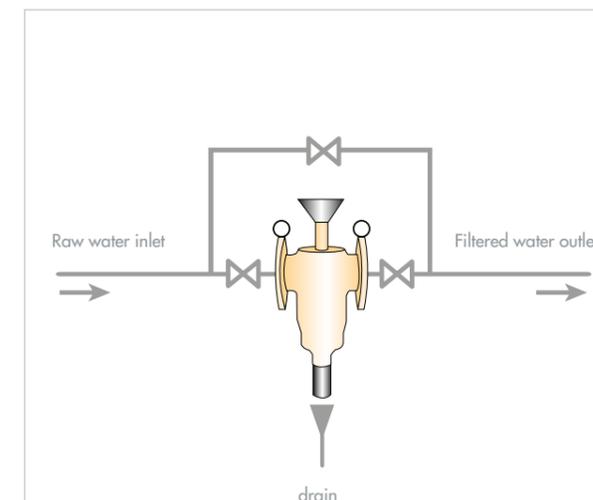
### SIZE SPECIFICATIONS

TYPE		INFINITY 2"1/2	INFINITY 3"	INFINITY 4"	INFINITY 5"
Width	mm	220	220	350	350
Height	mm	550	550	690	700

### ACCESSORIES AND CONSUMABLES

NAME	Product code
Differential pressure gauge	P0097913
Stainless steel 200 µm screen	P0039072
Stainless steel 500 µm screen	P0003511

### INSTALLATION RECOMMENDATIONS



NB: Plan for the connection of the automatic models to a mains power outlet.

# BWT AQA SOURCE

REVERSE OSMOSIS UNIT



## PRODUCT PLUSES

- Purifies water of **more than 95 % of its impurities** (lead, pesticides, nitrates, chlorine, bacteria, virus, etc.)
- **Easy installation** under the sink

## OPERATION

Even though it is potable, tap water can have some taste and odour issues and can be loaded with undesirable impurities (pesticides, nitrates, lead, bacteria, etc.).

The BWT AQA SOURCE reverse osmosis unit eliminates over 95% of the water's impurities thanks to its reverse osmosis technology. It is composed of a treatment unit for a 4-step refining process and a purified water storage tank.

## APPLICATIONS

Compact, it can be fitted beneath the sink and is hydraulically pre-connected. The BWT AQA SOURCE reverse osmosis unit instantly produces 2 to 3 litres of purified water per minute (depending on water quality and network pressure). This produces 150 to 250 litres of purified water per day.

## STANDARD EQUIPMENT

The BWT AQA SOURCE reverse osmosis unit is composed of:

- micro-filter pre-filtering (5 micron sediment filter + activated carbon 5 micron pre-treatment filter)
- a reverse osmosis module with a membrane
- a 10L capacity pressurised storage tank allowing to store the water away from the light and any pollution
- an activated carbon finishing filter

Quick connection thanks to:

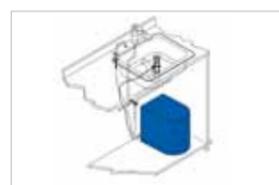
- a connection tap
- a drain connection flange
- a goose neck tap
- a disinfection kit

## CARE

Change the pre-treatment filters every year or more frequently if necessary depending on your water quality.

The osmosis membrane should be replaced at least every 2 to 6 years depending on the raw water quality or when there is a significant drop in flow.

## INSTALLATION RECOMMENDATIONS



→ Flow rate: 2 to 3 L/min

TYPE		BWT AQA SOURCE
<b>TECHNICAL SPECIFICATIONS</b>		
Tap flow rate	L/min	2 to 3
Min/max supply pressure	bars	2.5/6
Min/max water temperature	°C	10/30
Production capacity	L/d	150 to 250 (20 °C 4 bars)
Tank capacity	L	3.2 (4 bars)
Product code		<b>P0002280</b>
Retail price ex. VAT*		<b>602.00 €</b>
<b>SIZE SPECIFICATIONS</b>		
W x H x D	mm	252 x 428 x 446

## ACCESSORIES AND CONSUMABLES

NAME	Product code	Retail price ex. VAT*
Kit of 4 cartridges BOX	<b>P0012400A</b>	<b>74.00 €</b>
Reverse osmosis module BOX	<b>P0012403A</b>	<b>149.00 €</b>

# BWT AQA PURA

DRINKING WATER FILTER



## PRODUCT PLUSES

- **Quick and easy installation** under the sink
- **Directional filter head** and connectors included
- **Long life cartridge** 1 year (10,000 litres)



→ Flow rate: 180 L/h

TYPE		BWT AQA PURA
<b>TECHNICAL SPECIFICATIONS</b>		
Rated flow	L/min	3
Coupling diameter	inches	3/8" M
Min supply pressure	bars	1.2
Min/max service pressure	bars	2/8
Head loss	bars	0.1 to 30 L/h - 0.15 to 60 L/h 0.6 to 100 L/h
Min/max water temperature	°C	5/30
Treated water capacity	L	10,000
Product code		<b>P0003667</b>
Retail price ex. VAT*		<b>135.00 €</b>
<b>SIZE SPECIFICATIONS</b>		
Width	mm	125
Cartridge height	mm	240
Total height	mm	300

## ACCESSORIES AND CONSUMABLES

NAME	Product code	Retail price ex. VAT*
AQA PURA replacement cartridge	<b>P0003668</b>	<b>65.00 €</b>

## OPERATION

Tap water can sometimes have taste and odour issues, especially chlorine.

The BWT AQA PURA under-sink filter effectively eliminates the particles that cause unpleasant tastes and odours.

It is composed of a filter head and an activated carbon filter.

## APPLICATIONS

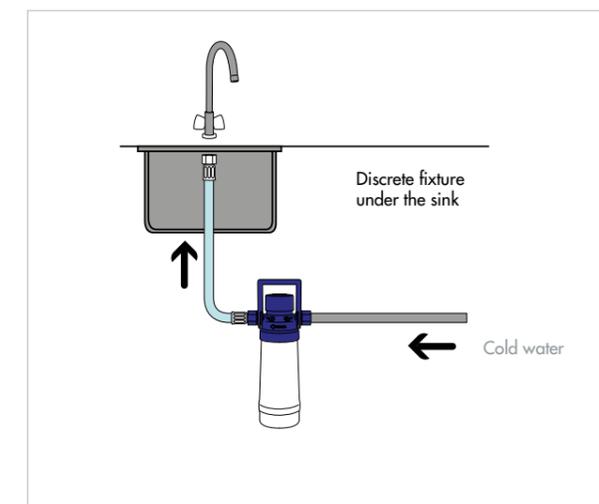
The BWT AQA PURA under-sink filter is installed under the sink using a simple connection to the existing installation using a hose. The filtered water is available instantly and on demand from the usual tap.

## STANDARD EQUIPMENT

Complete, ready-to-install kit composed of:

- a filter head with its fixture support
- an activated carbon filter cartridge with a protective cover
- a 300 mm connecting hose (3/8" x 3/8")

## INSTALLATION RECOMMENDATIONS



# 2

## WHY RECOMMEND SOFTENING PRODUCTS?

Softening is a process that removes scale from water. Softener technology uses the action of resins to trap the elements in water that form scale (calcium and magnesium). The scale is therefore removed from the water to make it softer. BWT proposes a line of softeners for all needs and budgets.



# SOFTENING

→ **Unequalled everyday well-being:** the softness of baths and showers, silky hair, sparkling wet-rooms, soft linen, absolute hygiene. BWT offers voluptuous water and watches over your home's energy savings.

• SELECTION GUIDE	26
• BWT AQA PERLA DUO	28
• BWT AQA VISEO	30
• BWT AQA PERLA	32
• BWT VOLUMECO	34
• BWT VOLUMECO MINI	36
• FOCUS ON SIMPLY CONNECT	38
• BWT RONDONAT ECOBIO SC	40
• BWT 5000 SC	42
• BWT 6000 SC	44
• BWT 7000 SC	46
• BWT 9000 SC	48
• BWT 8000 SC	50
• BWT EC	52

You will find the applications in 2 symbols for each product.



ideal for individual housing



Ideal for community facilities

# HOW TO BEST CHOOSE YOUR SOFTENER

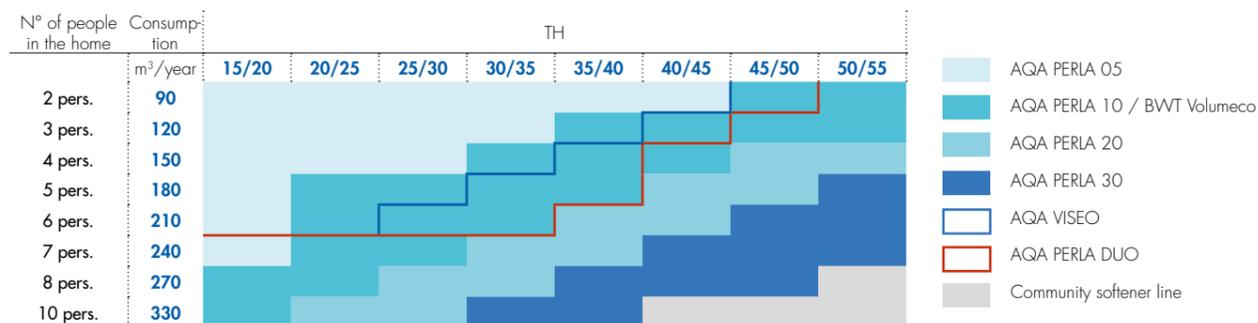


TYPE	BWT AQA PERLA DUO	BWT AQA VISEO	BWT AQA PERLA	BWT VOLUMECO	BWT VOLUMECO MINI
Applications					
Flow rate	m <sup>3</sup> /h 2 to 2.5	1.5 to 2.1	2 to 2.5	0.3 to 2	0.3 to 2
Resin volume	L 2 X 5.2	5.4	10 to 30	16	5
Regeneration	Proportional by volume	Proportional by volume	Proportional by volume	Volume	Volume
Connection kit	yes	no	no	no	no
Resin disinfection function	yes	yes	yes	no	no
The product pluses	<ul style="list-style-type: none"> <li>Low water and salt consumption</li> <li>Monosphere resins for improved effectiveness</li> <li>Strong and separate salt tank</li> </ul>	<ul style="list-style-type: none"> <li>Low water and salt consumption</li> <li>Monosphere resins for improved effectiveness</li> <li>Offset wireless display showing the salt level and the home's water consumption</li> <li>Strong and separate salt tank</li> </ul>	<ul style="list-style-type: none"> <li>Low water and salt consumption</li> <li>Digital display</li> <li>Smart programming box</li> <li>Strong and separate salt tank</li> </ul>	<ul style="list-style-type: none"> <li>Solid appliance</li> <li>Essential functions</li> </ul>	<ul style="list-style-type: none"> <li>Compact size</li> <li>Solid appliance</li> <li>Essential functions</li> </ul>
Compactness		60 cm high			46 cm high
Autonomy					
	<b>P. 28</b>	<b>P. 30</b>	<b>P. 32</b>	<b>P. 34</b>	<b>P. 36</b>

Good performances Very good performances Excellent performances



## SIZING TABLE FOR BWT RESIDENTIAL SOFTENERS



TYPE	BWT RONDOMAT ECOBIO SC	BWT 5000 SC	BWT 6000 SC	BWT 7000 SC	BWT 9000 SC	BWT 8000	BWT EC
Applications							
Flow rate	Depending on the models	2 to 2.4	2.4 to 3	7 to 9.5	13 to 14	20 to 26	2.7
Resin volume	Continuous	10 to 28	25 to 75	50 to 150	175 to 300	150 to 1250	17 to 65
Regeneration	Proportional by volume	Timed Volumetric	Timed Volumetric	Timed Volumetric	Timed Volumetric	Timed Volumetric	Timed
Connection kit	yes	yes	yes	yes	yes	yes	no
Resin disinfection function	yes	no	no	no	no	no	no
The product pluses	<ul style="list-style-type: none"> <li>Low water and salt consumption</li> <li>Digital display</li> <li>High tech duplex</li> <li>Strong and separate salt tank</li> </ul>	<ul style="list-style-type: none"> <li>Digital display</li> <li>Composite body inert to corrosion</li> <li>Strong salt tank built into the softener</li> <li>General operating fault alarm</li> </ul>	<ul style="list-style-type: none"> <li>Digital display</li> <li>Composite body inert to corrosion</li> <li>Strong and separate salt tank</li> <li>General operating fault alarm</li> </ul>	<ul style="list-style-type: none"> <li>Digital display</li> <li>Composite body inert to corrosion</li> <li>Strong and separate salt tank</li> <li>General operating fault alarm</li> </ul>	<ul style="list-style-type: none"> <li>Digital display</li> <li>Composite body inert to corrosion</li> <li>Strong and separate salt tank</li> <li>General operating fault alarm</li> </ul>	<ul style="list-style-type: none"> <li>Digital display</li> <li>Composite body inert to corrosion</li> <li>Strong and separate salt tank</li> <li>General operating fault alarm</li> </ul>	<ul style="list-style-type: none"> <li>Withstands up to 65°C</li> <li>Strong and separate salt tank</li> <li>Display of the "service" and "regeneration" functions</li> </ul>
Compactness							
Autonomy							
	<b>P. 40</b>	<b>P. 42</b>	<b>P. 44</b>	<b>P. 46</b>	<b>P. 48</b>	<b>P. 50</b>	<b>P. 52</b>

## DETERMINE THE HARDNESS OF YOUR WATER

Water hardness varies depending on where you live. It corresponds to the amount of scale the water can produce. It is noted as TH and is expressed in French degrees (°f). This level is called total hardness (TH).

### To find out the hardness of your water:

- Locate where you live on the map opposite
- Determine the TH value corresponding to the key below

- Low hardness: 0 °f < TH ≤ 15 °f  
softener not essential
- High hardness: 25 °f < TH ≤ 35 °f  
softener recommended
- Average hardness: 15 °f < TH ≤ 25 °f  
softener preferable
- Very high hardness: TH > 35 °f  
softener essential

# BWT AQA PERLA DUO

WATER SOFTENER



## PRODUCT PLUSES

- **Continuous** softening
- **Low consumption** of water and salt
- **Connection kit** included



COMMISSIONING  
BY A TECHNICIAN  
INCLUDED\*



→ **Flow rate:** 1.7 m<sup>3</sup>/h at TH 0°f  
2.5 m<sup>3</sup>/h at TH 10°f

→ **Resin volume:** 2 x 5.2 L

## OPERATION

BWT softener technology consists in eliminating scale by an ion exchange using high tech resins. Scale salts (calcium and magnesium) are trapped, softening the water. The BWT AQA PERLA DUO appliance is fitted with two resin columns making it possible to deliver continuous softened water. The appliance's high tech gives it low water and salt consumption. The appliance automatically calculates the quantity of softened water it produces and the remaining autonomy to trigger regeneration depending on needs (volume programming). It has simplified programming using a touch screen control box with a back-lit display.

## APPLICATIONS

AQA PERLA line softeners are designed for private homes. In some cases they can also meet community applications or catering needs upstream of the equipment to protect from scale. Softened water protects installations and equipment from premature deterioration or excess energy consumption caused by scale.

## STANDARD EQUIPMENT

Softener delivered complete fitted with:

- an internal meter
- a residual hardness regulation valve
- a check valve
- A Bio probe to asepticize the resins at each regeneration
- a double, glass fibre reinforced polyester body and an ABS or noryl control block (inert to corrosion)
- a downstream sampling outlet
- a connection kit (multiblock valve and hoses)

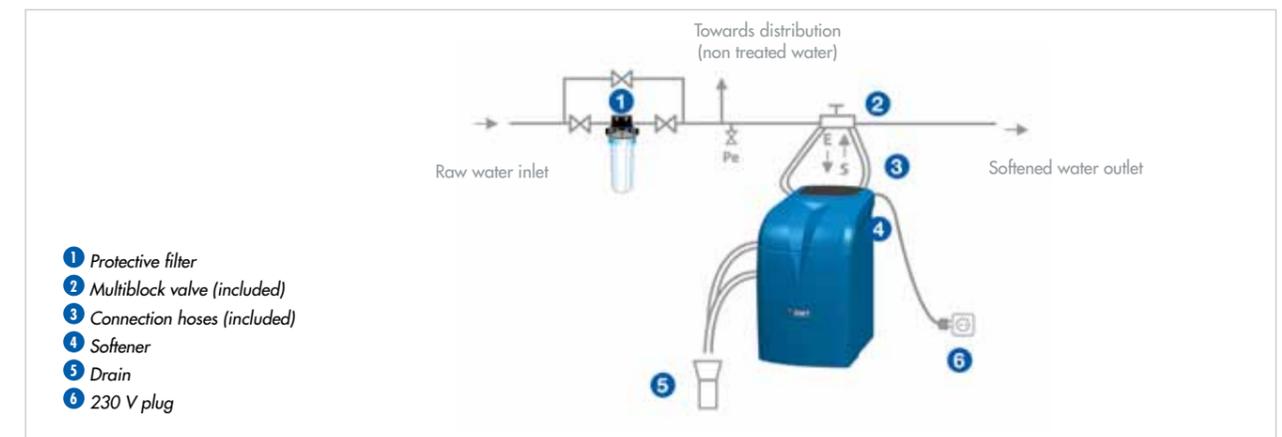
BWT softeners have a sanitary conformity certificate as per French order of 29th May 1997.

## TECHNICAL SPECIFICATIONS

TYPE	AQA PERLA DUO	
<b>TECHNICAL SPECIFICATIONS</b>		
Resin volume	L	2 X 5.2
Exchange capacity	°f.m <sup>3</sup>	continuous
Coupling diameter	DN / inch	DN 32/1"1/4
Flow rate at TH < 0.2°f	m <sup>3</sup> /h	1.7
Flow rate at TH = 10°f	m <sup>3</sup> /h	2.5
Min/max. dynamic pressure	bars	2/5
Maximum water temperature	°C	35
First salt charge	kg	50
Salt tank autonomy	no of regens.	80
Load on ground	kg	102
Product code	<b>P0002450</b>	
Retail price ex. VAT**	<b>2910.00 €</b>	
<b>SIZE SPECIFICATIONS</b>		
Width	mm	500
Softener height	mm	890
Depth	mm	520

\*for raw water TH of 30 °f

## INSTALLATION RECOMMENDATIONS



## ACCESSORIES AND CONSUMABLES

NAME	Product code	Retail price ex. VAT**
CRISTAL 4 filter	P0003350	37.00 €
E1 protection system	P0010090	332.00 €
STERICLEAN 1 water softener resin cleaner (2x125 mL)	P0004880	24.00 €
STERICLEAN 2 water softener resin cleaner (4 x 1 L)	P0004881	106.09 €
AQA CLEAN PACK (disinfectant + STERICLEAN + TH only)	P0004890	53.00 €
SANITABS SALT in an 8 kg bag	P0009235	29.87 €
BWT SALT in a 25 kg bag (price per kilogram)	P0009250	0.61 €
TEST BOX (TH hardness analysis)	P0001561A	30.00 €
TEST PRO (TH hardness analysis)	P5445008	45.00 €
Approved installer inspection case	P0018055	206.00 €
Effluent disconnection drain	P0074702	22.50 €



BWT E1 Filter



STERICLEAN



AQA Clean

\*Commissioning by a BWT SERVICES technician included in Metropolitan France.

# BWT AQA VISEO

WATER SOFTENER



## PRODUCT PLUSES

- **Compact model:** 60 cm high
- **Monosphere resins** for **halved water and salt consumption** compared to a traditional softener
- **Offset wireless display**

## OPERATION

BWT softener technology consists in eliminating scale by an ion exchange using high tech resins. Scale salts (calcium and magnesium) are trapped, softening the water. BWT AQA VISEO appliances use high tech and monosphere resins that reduce water and salt consumption. The appliance automatically calculates the quantity of softened water it produces and the remaining autonomy to trigger regeneration depending on needs (volume programming).

It has simplified programming using a control box with a back-lit display. BWT AQA VISEO is fitted with an offset control box that shows the salt level and the home's water consumption.

## APPLICATIONS

The BWT AQA VISEO is designed for use in private homes. It is a very compact model (60 cm high) which is ideal for reduced spaces. In some cases it can also meet community applications or catering needs upstream of the equipment to protect from scale. Softened water protects installations and equipment from premature deterioration or excess energy consumption caused by scale.

## STANDARD EQUIPMENT

Softener delivered complete fitted with:

- offset battery powered wireless control box
- monosphere resins
- a dry salt tank
- an internal meter
- a residual hardness regulation valve
- a check valve
- A Bio probe to asepticize the resins at each regeneration
- a glass fibre reinforced polyester body and an ABS or noryl control block (inert to corrosion)
- a BWT CRISTAL 4 pre-filter
- a drain

BWT softeners have a sanitary conformity certificate as per French order of 29th May 1997.



COMMISSIONING  
BY A TECHNICIAN  
INCLUDED\*



→ **Flow rate:** 2 m<sup>3</sup>/h at TH 0 °f

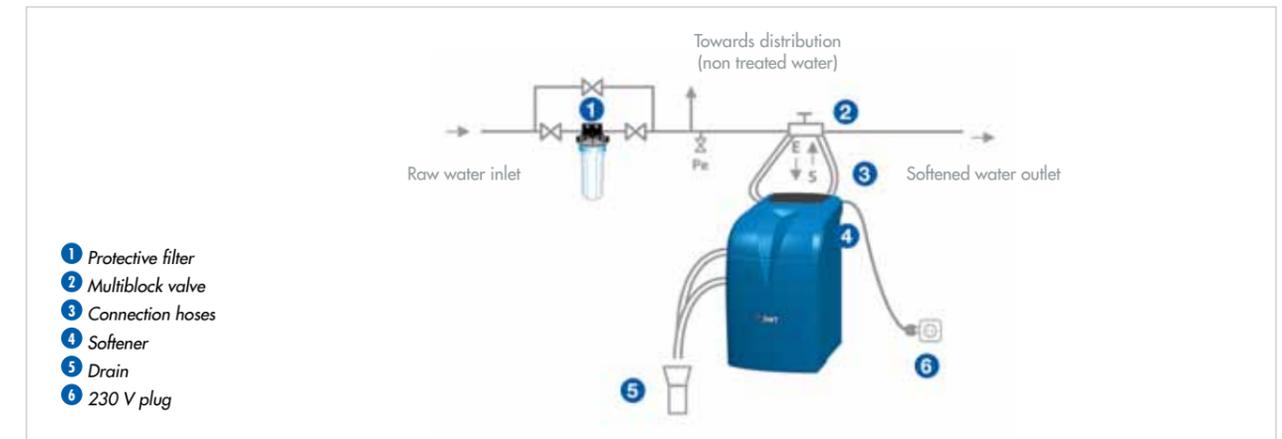
→ **Resin volume:** 5.4 L

## TECHNICAL SPECIFICATIONS

TYPE	VISEO	
<b>TECHNICAL SPECIFICATIONS</b>		
Resin volume	L	5.4
Exchange capacity	°f.m <sup>3</sup>	28
Coupling diameter	DN / inch	DN 25/1"
Flow rate at TH < 0.2°f	m <sup>3</sup> /h	2.0
Flow rate at TH = 10°f	m <sup>3</sup> /h	3.0
Min/max. dynamic pressure	bars	2.5/7
Maximum water temperature	°C	35
First salt charge	kg	30
Salt tank autonomy	no of regens.	55 to 60
Load on ground	kg	55
Product code	<b>P0002300</b>	
Retail price ex. VAT**	<b>2290.00 €</b>	
<b>SIZE SPECIFICATIONS</b>		
Width	mm	358
Softener height	mm	600
Depth	mm	480

\*for raw water TH of 30 °f

## INSTALLATION RECOMMENDATIONS



## ACCESSORIES AND CONSUMABLES

NAME	Product code	Retail price ex. VAT**
1 CRISTAL 4 10" 20 µm cartridge (sleeve + holder)	P0003352	26.00 €
STERICLEAN 1 water softener resin cleaner (2x125 mL)	P0004880	24.00 €
STERICLEAN 2 water softener resin cleaner (4 x 1 L)	P0004881	106.09 €
AQA CLEAN PACK (disinfectant + STERICLEAN + TH only)	P0004890	53.00 €
SANITABS SALT in an 8 kg bag	P0009235	29.87 €
BWT SALT in a 25 kg bag (price per kilogram)	P0009250	0.61 €
TEST BOX (TH hardness analysis)	P0001561A	30.00 €
TEST PRO (TH hardness analysis)	P5445008	45.00 €
Approved installer inspection case	P0018055	206.00 €
MULTIBLOCK 1" M+ FLEX 2 CORRUGATED STAINLESS STEEL VALVE KIT	P0001108	238.00 €
MULTIBLOCK 1" M valve	P0887528	166.00 €
FLEX 2 - 2 hoses 1" F/F - angled/straight - 800 mm	P0011800	92.00 €
3-valve 1/4 T bypass kit + hoses	P0011705	184.00 €
Effluent disconnection drain	P0074702	22.50 €
Wall fixture for AQA PERLA VISEO	P0011820	175.00 €



STERICLEAN



Wall support



AQA Clean



Multiblock valve



Impurity trapping filter

\*Commissioning by a BWT SERVICES technician included in Metropolitan France.

# BWT AQA PERLA

WATER SOFTENER



## PRODUCT PLUSES

- **Low consumption** of water and salt
- **Bio function:** resin disinfection

## OPERATION

BWT softener technology consists in eliminating scale by an ion exchange using high tech resins. Scale salts (calcium and magnesium) are trapped, softening the water. BWT AQA PERLA appliances use high tech that reduces water and salt consumption.

The appliance automatically calculates the quantity of softened water it produces and the remaining autonomy to trigger regeneration depending on needs (volume programming). It has simplified programming using a control box with a back-lit display.

## APPLICATIONS

AQA PERLA line softeners are designed for private homes. In some cases they can also meet community applications or catering needs upstream of the equipment to protect from scale. Softened water protects installations and equipment from premature deterioration or excess energy consumption caused by scale.

## STANDARD EQUIPMENT

Softener delivered complete fitted with:

- an internal meter
- a residual hardness regulation valve
- a check valve
- A Bio probe to asepticize the resins at each regeneration
- a glass fibre reinforced polyester body and an ABS or noryl control block (inert to corrosion)
- a BWT CRISTAL 4 pre-filter
- a drain

BWT softeners have a sanitary conformity certificate as per French order of 29th May 1997.

COMMISSIONING  
BY A TECHNICIAN  
INCLUDED\*



→ **Flow rate:** 2 to 2.4 m<sup>3</sup>/h at TH 0 °f

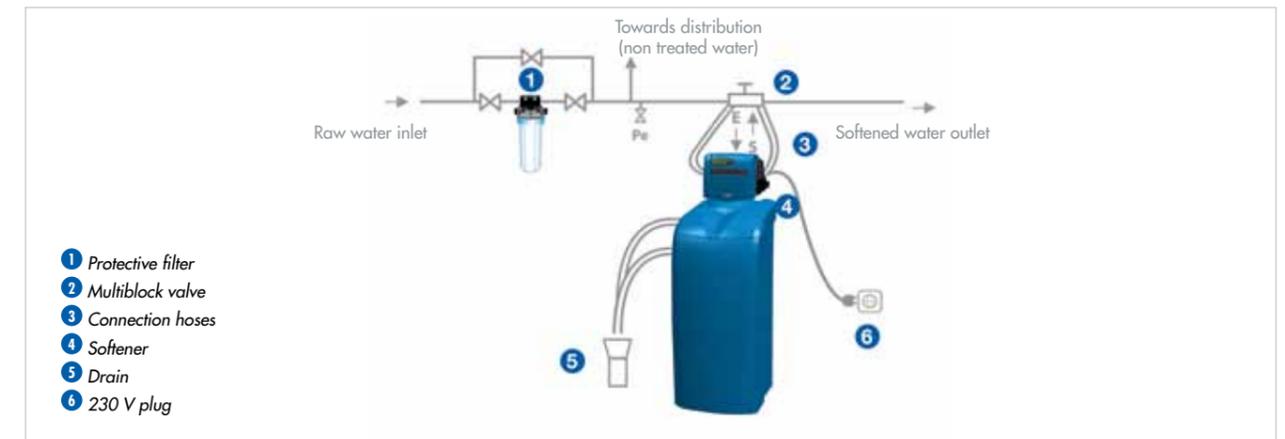
→ **Resin volume:** 10 to 30 L

## TECHNICAL SPECIFICATIONS

TYPE		AQA PERLA 05	AQA PERLA 10	AQA PERLA 20	AQA PERLA 30
<b>TECHNICAL SPECIFICATIONS</b>					
Resin volume	L	10	16	20	30
Exchange capacity	°f.m <sup>3</sup>	60	90	120	160
Coupling diameter	DN / inch	DN 25/1"	DN 25/1"	DN 25/1"	DN 25/1"
Flow rate at TH < 0.2°f	m <sup>3</sup> /h	2.0	2.0	2.5	2.5
Flow rate at TH = 10°f	m <sup>3</sup> /h	3.0	3.0	3.75	3.75
Min/max. dynamic pressure	bars	2.0/7	2.0/7	2.0/7	2.0/7
Maximum water temperature	°C	35	35	35	35
First salt charge	kg	16	60	60	75
Salt tank autonomy	no of regens.	9	14	11	9
Load on ground	kg	55	115	120	135
Product code		<b>P0002451</b>	<b>P0002452</b>	<b>P0002453</b>	<b>P0002454</b>
Retail price ex. VAT**		<b>2070.00 €</b>	<b>2090.00 €</b>	<b>2315.00 €</b>	<b>2417.00 €</b>
<b>SIZE SPECIFICATIONS</b>					
Width	mm	385	385	385	405
Softener height	mm	655	1110	1110	1110
Depth	mm	500	500	500	500

\*for raw water TH of 30 °f

## INSTALLATION RECOMMENDATIONS



## ACCESSORIES AND CONSUMABLES

NAME	Product code	Retail price ex. VAT**
1 CRISTAL 4 10" 20 µm cartridge (sleeve + holder)	P0003352	26.00 €
STERICLEAN 1 water softener resin cleaner (2 x 125 mL)	P0004880	24.00 €
STERICLEAN 2 water softener resin cleaner (4 x 1 L)	P0004881	106.09 €
AQA CLEAN PACK (disinfectant + STERICLEAN + TH only)	P0004890	53.00 €
SANITABS SALT in an 8 kg bag	P0009235	29.87 €
BWT SALT in a 25 kg bag (price per kilogram)	P0009250	0.61 €
TEST BOX (TH hardness analysis)	P0001561A	30.00 €
TEST PRO (TH hardness analysis)	P5445008	45.00 €
Approved installer inspection case	P0018055	206.00 €
MULTIBLOCK 1" M+ FLEX 2 CORRUGATED STAINLESS STEEL VALVE KIT	P0001108	238.00 €
MULTIBLOCK 1" M valve	P0887528	166.00 €
FLEX 2 - 2 hoses 1" F/F - angled/straight - 800 mm	P0011800	92.00 €
3-valve 1/4 T bypass kit + hoses	P0011705	184.00 €
Effluent disconnection drain	P0074702	22.50 €



STERICLEAN



Multiblock valve



AQA Clean



Impurity trapping filter

# BWT VOLUMECO

WATER SOFTENER



## PRODUCT PLUSES

- **Solid appliance**
- **Essential functions**



COMMISSIONING  
BY A TECHNICIAN  
INCLUDED\*



## OPERATION

BWT softener technology consists in eliminating scale by an ion exchange using resins. Scale salts (calcium and magnesium) are trapped, softening the water.

The BWT VOLUMECO softener has the essential functions. The appliance automatically calculates the quantity of softened water it produces and the remaining autonomy to trigger regeneration depending on needs (volume programming). It has simplified programming using a simple control box.

## APPLICATIONS

The BWT VOLUMECO softener is designed for use in private homes. In some cases it can also meet community applications or catering needs upstream of the equipment to protect from scale. Softened water protects installations and equipment from premature deterioration or excess energy consumption caused by scale.

## STANDARD EQUIPMENT

Softener delivered complete fitted with:

- an internal meter
- a residual hardness regulation valve
- a check valve

BWT softeners have a sanitary conformity certificate as per French order of 29th May 1997.

→ **Flow rate:** 2 m<sup>3</sup>/h at TH 0 °f

→ **Resin volume:** 16 L

\*Commissioning by a BWT SERVICES technician included in Metropolitan France.

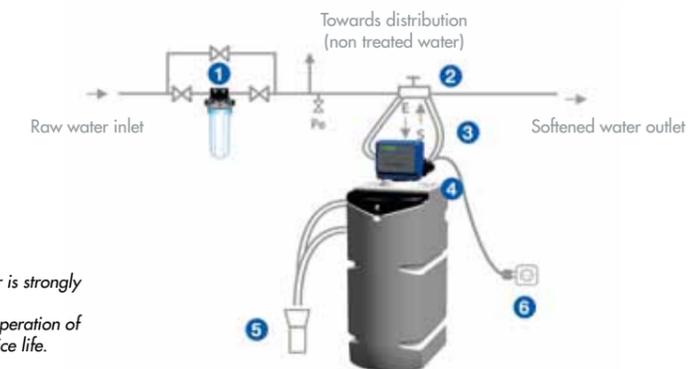
## TECHNICAL SPECIFICATIONS

TYPE	VOLUMECO	
<b>TECHNICAL SPECIFICATIONS</b>		
Resin volume	L	16
Exchange capacity	°f.m <sup>3</sup>	90
Coupling diameter	DN / inch	DN 25/1"
Flow rate at TH < 0.2°f	m <sup>3</sup> /h	2.0
Flow rate at TH = 10°f*	m <sup>3</sup> /h	3.0
Min/max. dynamic pressure	bars	2/7
Maximum water temperature	°C	35
First salt charge	kg	125
Salt tank autonomy	no of regens.	50
Load on ground	kg	180
Product code		<b>P0001480</b>
Retail price ex. VAT**		<b>1390.00 €</b>
<b>SIZE SPECIFICATIONS</b>		
Width	mm	410
Softener height	mm	1115
Depth	mm	520

\*for raw water TH of 30 °f

## INSTALLATION RECOMMENDATIONS

- 1 Protective filter
- 2 Multiblock valve
- 3 Connection hoses
- 4 Softener
- 5 Drain
- 6 230 V plug



NB: The use of a filter upstream from the softener is strongly recommended. The filter guarantees the protection and correct operation of the softener and contributes to extending its service life.

## ACCESSORIES AND CONSUMABLES

NAME	Product code	Retail price ex. VAT**
CRISTAL ECO filter	P0088165	21.00 €
CRISTAL ECO cartridge	P0088155	3.00 €
STERICLEAN 1 water softener resin cleaner (2 x 125 mL)	P0004880	24.00 €
STERICLEAN 2 water softener resin cleaner (4 x 1 L)	P0004881	106.09 €
AQA CLEAN PACK (disinfectant + STERICLEAN + TH only)	P0004890	53.00 €
SANITABS SALT in an 8 kg bag	P0009235	29.87 €
BWT SALT in a 25 kg bag (price per kilogram)	P0009250	0.61 €
TEST BOX (TH hardness analysis)	P0001561A	30.00 €
TEST PRO (TH hardness analysis)	P5445008	45.00 €
Approved installer inspection case	P0018055	206.00 €
MULTIBLOCK 1" M+ FLEX 2 CORRUGATED STAINLESS STEEL VALVE KIT	P0001108	238.00 €
MULTIBLOCK 1" M valve	P0887528	166.00 €
FLEX 2 - 2 hoses 1" F/F - angled/straight - 800 mm	P0011800	92.00 €
3-valve 1/4 T bypass kit + hoses	P0011709	140.00 €
Effluent disconnection drain	P0074702	22.50 €



STERICLEAN



Multiblock valve



AQA Clean



CRISTAL ECO cartridge

# BWT VOLUMECO MINI

## WATER SOFTENER



### PRODUCT PLUSES

- **Solid** appliance
- **Essential functions**
- **Compact size**



COMMISSIONING  
BY A TECHNICIAN  
INCLUDED\*



→ **Flow rate:** 2 m<sup>3</sup>/h at TH 0 °f

→ **Resin volume:** 5 L

### OPERATION

BWT softener technology consists in eliminating scale by an ion exchange using resins. Scale salts (calcium and magnesium) are trapped, softening the water.

The BWT VOLUMECO MINI softener has the essential functions. The appliance automatically calculates the quantity of softened water it produces and the remaining autonomy to trigger regeneration depending on needs (volume programming). It has simplified programming using a simple control box. Its compact size means it can be installed in the most reduced spaces.

### APPLICATIONS

The BWT VOLUMECO is designed for property developers, for apartments with micro-exchanger wall mounted boilers and/or space issues.

In some cases it can also meet community applications or catering needs upstream of the equipment to protect from scale.

Softened water protects installations and equipment from deteriorating.

### STANDARD EQUIPMENT

Softener delivered complete fitted with:

- an internal meter
- a residual hardness regulation valve
- a check valve

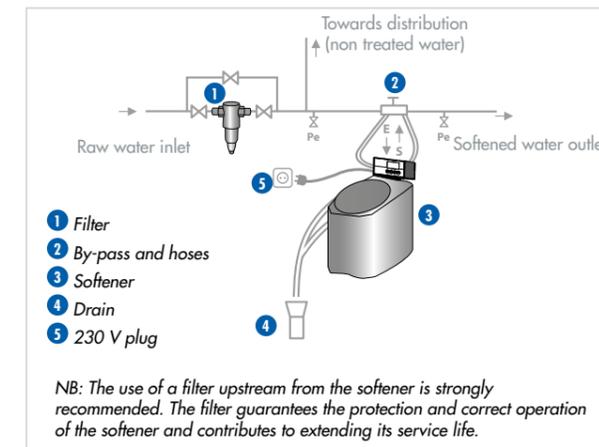
BWT softeners have a sanitary conformity certificate as per French order of 29th May 1997.

### TECHNICAL SPECIFICATIONS

TYPE	VOLUMECO MINI	
<b>TECHNICAL SPECIFICATIONS</b>		
Resin volume	L	5
Exchange capacity	°f.m <sup>3</sup>	25
Coupling diameter	DN / inch	DN 25/1"
Flow rate at TH < 0.2°f	m <sup>3</sup> /h	2.0
Flow rate at TH = 10°f	m <sup>3</sup> /h	3.0
Min/max. dynamic pressure	bars	1/8
Maximum water temperature	°C	35
First salt charge	kg	25
Salt tank autonomy	no of regens.	40
Product code	<b>P0001486</b>	
Retail price ex. VAT**	<b>1360.00 €</b>	
<b>SIZE SPECIFICATIONS</b>		
Width	mm	280
Softener height	mm	460
Depth	mm	480

\*for raw water TH of 30 °f

### INSTALLATION RECOMMENDATIONS



### SIZING TABLE

N° of people in the home	Consumption m <sup>3</sup> /year	Water hardness (°f)						
		20	25	30	35	40	45	50
1 pers.	55							
2 pers.	90							
3 pers.	120							
4 pers.	150							
5 pers.	180							
6 pers.	210							

■ VOLUMECO MINI ■ AQA PERLA Line

### ACCESSORIES AND CONSUMABLES

NAME	Product code	Retail price ex. VAT**
CRISTAL ECO filter	P0088165	21.00 €
CRISTAL ECO cartridge	P0088155	3.00 €
STERICLEAN 1 water softener resin cleaner (2 x 125 mL)	P0004880	24.00 €
STERICLEAN 2 water softener resin cleaner (4 x 1 L)	P0004881	106.09 €
AQA CLEAN PACK (disinfectant + STERICLEAN + TH only)	P0004890	53.00 €
SANITABS SALT in an 8 kg bag	P0009235	29.87 €
BWT SALT in a 25 kg bag (price per kilogram)	P0009250	0.61 €
TEST BOX (TH hardness analysis)	P0001561A	30.00 €
TEST PRO (TH hardness analysis)	P5445008	45.00 €
Approved installer inspection case	P0018055	206.00 €
MULTIBLOCK 1" M+ FLEX 2 CORRUGATED STAINLESS STEEL VALVE KIT	P0001108	238.00 €
MULTIBLOCK 1" M valve	P0887528	166.00 €
FLEX 2 - 2 hoses 1" F/F - angled/straight - 800 mm	P0011800	92.00 €
3-valve 1/4 T bypass kit + hoses	P0011709	140.00 €
Effluent disconnection drain	P0074702	22.50 €



STERICLEAN



Multiblock valve



AQA Clean

\*Commissioning by a BWT SERVICES technician included in Metropolitan France.

FOCUS ON

# THE SOFTENER LINE

## simplyconnect



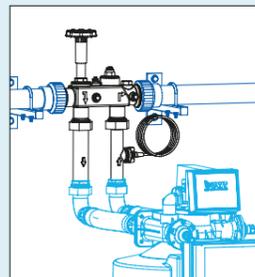
→ The BWT SIMPLY CONNECT line softeners are equipped for easy, reliable and economic connection.



### WHAT IS A BWT SIMPLY CONNECT SOFTENER?

A BWT SIMPLY CONNECT softener is a high tech product that has all the essential elements for its installation and operation:

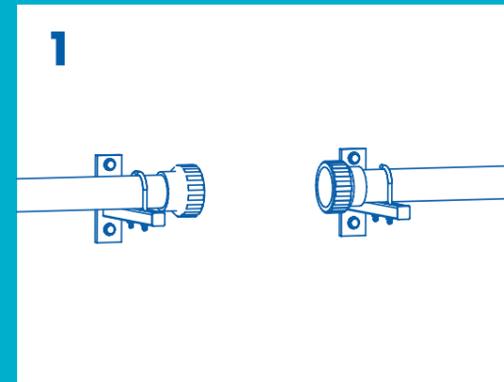
- Complete high tech softener
- By-pass
- Blending valve
- Meter
- Sample-taking outlet



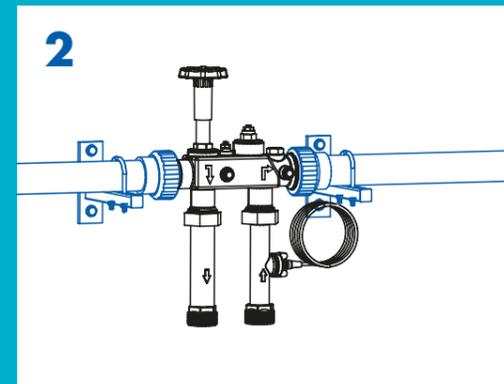
### WHAT ARE THE ADVANTAGES OF SIMPLY CONNECT?

- Ready-to-connect
- Easy to install
- Safe and reliable assembly
- Economic

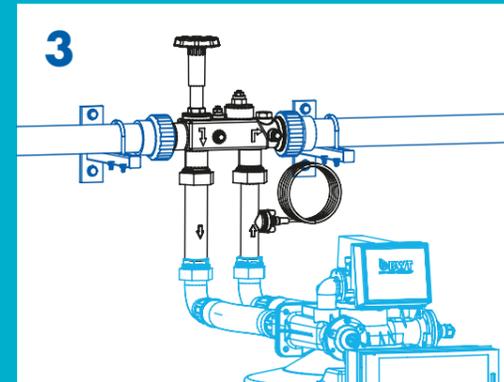
### CONNECTING A SIMPLY CONNECT SOFTENER



Cut the piping to fit the SIMPLY CONNECT connection module spacing

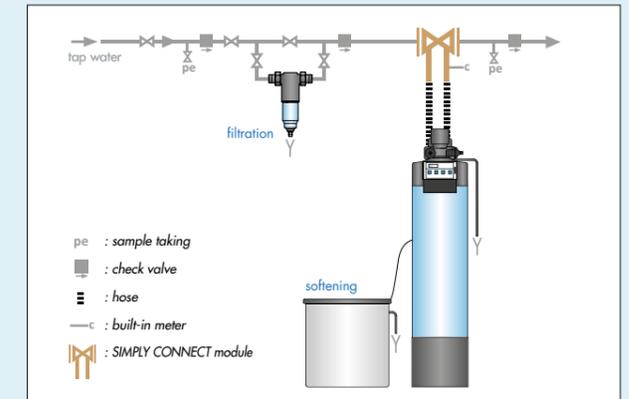


Fit the SIMPLY CONNECT connection module



Connect the SIMPLY CONNECT softener and start it up

### FOR EASY, RELIABLE AND ECONOMIC CONNECTION



### BWT SIMPLY CONNECT Softeners



BWT RONDOMAT ECOBIO SC  
P. 40



BWT 5000 SC  
P. 42



BWT 6000 SC  
P. 44



BWT 7000 SC  
P. 46



BWT 9000 SC  
P. 48

# BWT RONDONAT ECOBIO SC

## WATER SOFTENER



→ Flow rate: 2 to 10 m<sup>3</sup>/h at TH 0°f

### PRODUCT PLUSES

- **Continuous production** of softened water
- **Exclusive anti-bacterial technique**
- **SIMPLY CONNECT: fast, easy and economic connection**

### OPERATION

BWT softener technology consists in eliminating scale by an ion exchange using high tech resins. Scale salts (calcium and magnesium) are trapped, softening the water. The BWT RONDONAT ECOBIO SC softening stations use high tech to treat high flows of water.

The appliance is fitted with two resin columns making it possible to deliver continuous softened water.

Its technology gives it low water (-50%) and salt (-40%) consumption. It is fitted with an exclusive bacterial growth prevention system.

This compact, single salt tank station takes up very little space.

### APPLICATIONS

The BWT RONDONAT ECOBIO SC is designed for all softened water applications in sensitive environments, for continuous water production:

- community facilities and establishments open to the public
- hospitals
- retirement homes
- industry

### STANDARD EQUIPMENT

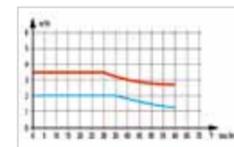
Softener delivered complete fitted with:

- an automatic, two-bottle valve
- a DN 32 / 1"1/4 or DN 50 / 2" connection
- a glass fibre reinforced polyester body: no risks of corrosion
- a digital IP54 control box: shows the production cycle history and faults, the flow of softened water production; BMS reporting included
- a single, fast dissolving salt tank
- approved food grade resin
- a SIMPLY CONNECT coupling system: built-in meter, by-pass, mixer tap and hoses
- a low salt level detection system

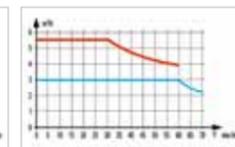
### TECHNICAL SPECIFICATIONS

TYPE		ECOBIO 2	ECOBIO 3	ECOBIO 6	ECOBIO 10
<b>TECHNICAL SPECIFICATIONS</b>					
Coupling diameter	DN / inch	DN 32/ 1"1/4	DN 32/ 1"1/4	DN 50/ 2"	DN 50/ 2"
Flow rate at TH < 0.2°f	m <sup>3</sup> /h	2	3	6	10
Flow rate at TH = 10°f	m <sup>3</sup> /h	3	4.5	9	15
Min/max. dynamic pressure	bars	2.5/8.0	2.5/8.0	2.5/8.0	2.5/8.0
Maximum water temperature	°C	35	35	35	35
First salt charge	kg	75	75	150	150
Salt tank autonomy	no of regens.	50	22	18	12
Load on ground	kg	200	280	650	780
Product code		<b>BKORONDO2SC</b>	<b>BKORONDO3SC</b>	<b>BKORONDO6SC</b>	<b>BKORONDO10SC</b>
<b>SIZE SPECIFICATIONS</b>					
Softener body diameters	mm	269	269	400	552
Softener height	mm	870	1380	1540	1550
Salt tank diameter	mm	470	470	650	650
Salt tank height	mm	630	630	880	880

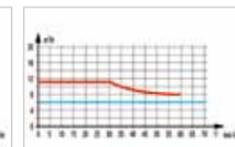
\*for raw water TH of 30 °f



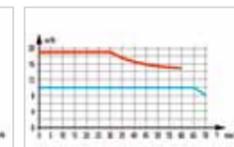
BWT ECOBIO 2 station



BWT ECOBIO 3 station

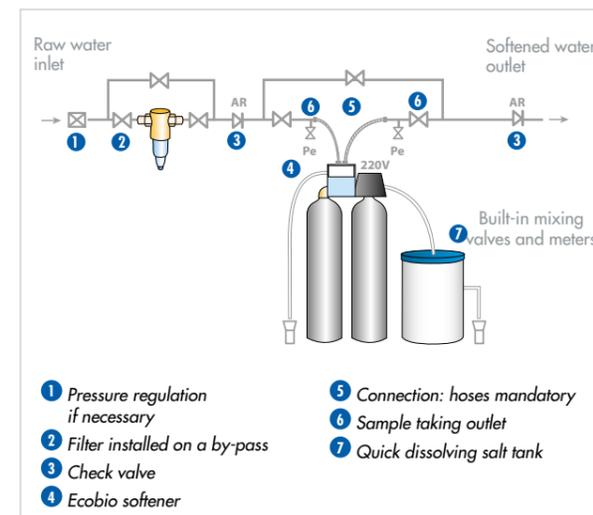


BWT ECOBIO 6 station



BWT ECOBIO 10 station

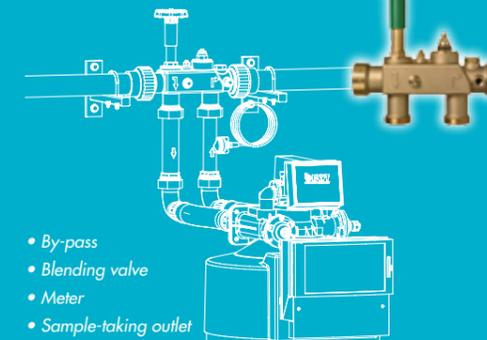
### INSTALLATION RECOMMENDATIONS



### FOCUS ON

#### SIMPLY CONNECT SOFTENERS

Simple, reliable and economic



### ACCESSORIES AND CONSUMABLES

NAME	Product code
BWT INFINITY Manual DN 32 / 1"1/4 filter	<b>P0010072</b>
BWT INFINITY Automatic DN 32 / 1"1/4 filter	<b>P0010077</b>
BWT CRISTAL DN 32 / 1"1/4 filter	<b>P0003198</b>
BWT INFINITY manual DN 50 / 2" filter	<b>P0010074</b>
BWT INFINITY automatic DN 50 / 2" filter	<b>P0010079</b>
BWT CRISTAL DN 50 / 2" filter	<b>P0003200</b>

NAME	Product code
AQA CLEAN 1 (community softener maintenance kit) for R. ECOBIO 2/3/6	<b>P0004895</b>
AQA CLEAN 2 (community softener maintenance kit) for R. ECOBIO 10	<b>P0004896</b>
Tee connector for TH 0°f SIMPLY CONNECT	<b>P0073402</b>
DN 32 / 1"1/4 mixing valve	<b>P0001923</b>
PROBOX TH Analysis	<b>P0080505</b>

# BWT 5000 SC

## WATER SOFTENER



### PRODUCT PLUSES

- **Space-saving compact softener**
- **SIMPLY CONNECT: fast, easy and economic connection**

### OPERATION

BWT softener technology consists in eliminating scale by an ion exchange using high tech resins. Scale salts (calcium and magnesium) are trapped, softening the water.

The BWT 5000 SC appliance uses high tech that reduces water and salt consumption.

The appliance automatically calculates the quantity of softened water it produces and the remaining autonomy to trigger regeneration depending on needs (volume programming). It has simplified programming using a control box.

### APPLICATIONS

The SIMPLY CONNECT line BWT softeners are for community housing, offices, hotels, catering or healthcare establishments for applications to:

- fill heating and air conditioning circuits
- protect washing machines and steam ovens
- produce domestic hot water

BWT 5000 SC softeners are single-part and ideal for reduced spaces in boiler rooms or in kitchens.

Softened water protects installations and equipment from premature deterioration or excess energy consumption caused by scale.

### STANDARD EQUIPMENT

Softener delivered complete fitted with:

- a polymer (Noryl) valve with built-in meter and mixer
- a DN 25 / 1" connection
- a glass fibre reinforced polyester body: no risks of corrosion
- an electronic control box
- food grade approved resins
- a SIMPLY CONNECT coupling system: built-in meter, by-pass, mixer and hoses



→ **Flow rate:** 2 to 2.4 m<sup>3</sup>/h at TH 0 °f

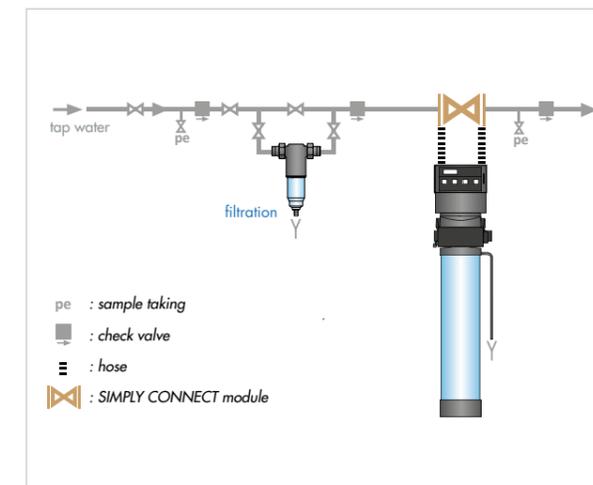
→ **Resin volume:** 10 to 28 L

### TECHNICAL SPECIFICATIONS

TYPE		5010 SC	5016 SC	5028 SC
<b>TECHNICAL SPECIFICATIONS</b>				
Resin volume	L	10	16	28
Exchange capacity	°f.m <sup>3</sup>	55	88	154
Coupling diameter	DN / inch	DN 25 / 1"	DN 25 / 1"	DN 25 / 1"
Flow rate at TH < 0.2°f	m <sup>3</sup> /h	2	2.2	2.3
Flow rate at TH = 10°f	m <sup>3</sup> /h	3.0	3.3	3.4
Min/max. dynamic pressure	bars	2.0/7	2.0/7	2.0/7
Maximum water temperature	°C	35	35	35
First salt charge	kg	25	125	125
Salt tank autonomy	number of regens.	27	48	24
Load on ground	kg	120	150	160
Product code		<b>B005010SC25</b>	<b>B005016SC25</b>	<b>B005028SC25</b>
<b>SIZE SPECIFICATIONS</b>				
Softener length	mm	330	570	570
Softener height	mm	690	1140	1140
Depth	mm	610	460	460

\*for raw water TH of 30 °f

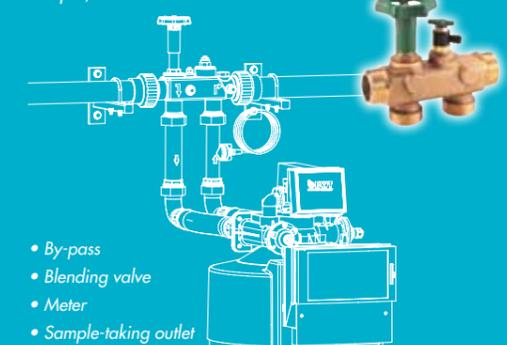
### INSTALLATION RECOMMENDATIONS



### FOCUS ON

#### SIMPLY CONNECT SOFTENERS

Simple, reliable and economic



### ACCESSORIES AND CONSUMABLES

NAME	Product code
BWT INFINITY automatic DN 25 / 1" filter	<b>P0010076</b>
BWT CRISTAL DN 25 / 1" filter	<b>P0003197</b>
Resin chlorination kit (up to 125 L)	<b>P0011507</b>
AQA CLEAN 1 (community softener maintenance kit from 50 to 150 L)	<b>P0004895</b>
DN 25 / 1" mixing valve	<b>P0001920</b>
Low salt level sensor	<b>C0261545</b>

# BWT 6000 SC

## WATER SOFTENER



### PRODUCT PLUSES

- Turnkey **industrial configuration**
- **SIMPLY CONNECT**: fast, easy and economic connection

### OPERATION

BWT softener technology consists in eliminating scale by an ion exchange using high tech resins. Scale salts (calcium and magnesium) are trapped, softening the water. The BWT 6000 SC appliances use high tech to treat high flows of water.

Possible duplex or triplex operation when mounted in parallel or alternating configuration using an alternating kit.

### APPLICATIONS

The SIMPLY CONNECT line BWT softeners are for community housing, offices, hotels, catering or healthcare establishments for applications to:

- fill heating and air conditioning circuits
- protect washing machines and steam ovens
- produce domestic hot water
- supply industrial processes (e.g.: cooling towers, boilers, technical services, cooling water, etc.).

### STANDARD EQUIPMENT

Softener delivered complete fitted with:

- a polymer (Noryl) valve with built-in meter and mixer
- a DN 32/1"1/4 connection
- a glass fibre reinforced polyester body: no risks of corrosion
- an electronic control box
- approved food grade resin
- a SIMPLY CONNECT coupling system: built-in meter, by-pass, mixer and hoses



→ **Flow rate:** 2.4 to 3 m<sup>3</sup>/h at TH 0 °f

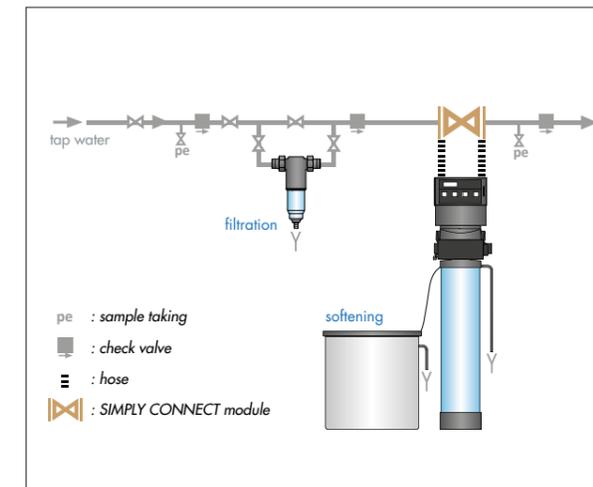
→ **Resin volume:** 25 to 75 L

### TECHNICAL SPECIFICATIONS

TYPE		6025 SC	6050 SC	6075 SC
<b>TECHNICAL SPECIFICATIONS</b>				
Resin volume	L	25	50	75
Exchange capacity	°f.m <sup>3</sup>	140	275	410
Coupling diameter	DN / inch	DN 32/ 1"1/4	DN 32/ 1"1/4	DN 32/ 1"1/4
Flow rate at TH < 0.2°f	m <sup>3</sup> /h	2.4	2.6	3.0
Flow rate at TH = 10°f	m <sup>3</sup> /h	3.6	3.9	4.5
Min/max. dynamic pressure	bars	2/7	2/7	2/7
Maximum water temperature	°C	35	35	35
First salt charge	kg	75	100	200
Salt tank autonomy	number of regens.	20	17	13
Load on ground	kg	240	300	500
Product code		<b>B006025SC32</b>	<b>B006050SC32</b>	<b>B006075SC32</b>
<b>SIZE SPECIFICATIONS</b>				
Softener body diameters	mm	210	260	335
Softener height	mm	1580	1830	1830
Salt tank diameter	mm	470	530	720
Salt tank height	mm	660	780	800

\*for raw water TH of 30 °f

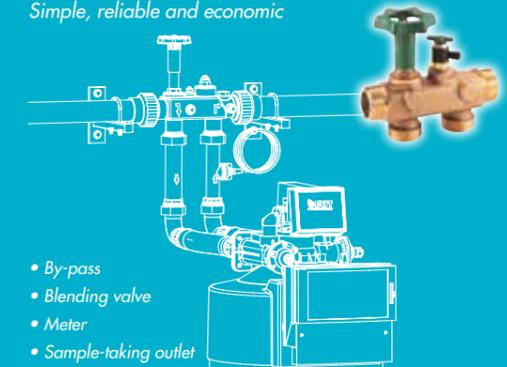
### INSTALLATION RECOMMENDATIONS



### FOCUS ON

#### SIMPLY CONNECT SOFTENERS

Simple, reliable and economic



### ACCESSORIES AND CONSUMABLES

NAME	Product code
BWT INFINITY Manual DN 32/1"1/4 filter	<b>P0010072</b>
BWT INFINITY Automatic DN 32/1"1/4 filter	<b>P0010077</b>
BWT CRISTAL DN 32/1"1/4 filter	<b>P0003198</b>
Resin chlorination kit (up to 125 L)	<b>P0011507</b>

NAME	Product code
AQA CLEAN 1 (community softener maintenance kit from 50 to 150 L)	<b>P0004895</b>
DN 25 / 1" mixing valve	<b>P0001920</b>
Low salt level sensor	<b>C0261545</b>
By-pass suppression kit for BWT 6000 SC	<b>P0001286</b>
Alternation kit	<b>P0005716</b>

# BWT 7000 SC

## WATER SOFTENER



### PRODUCT PLUSES

- Turnkey **industrial configuration**
- **SIMPLY CONNECT**: fast, easy and economic connection

### OPERATION

BWT softener technology consists in eliminating scale by an ion exchange using high tech resins. Scale salts (calcium and magnesium) are trapped, softening the water. The BWT 7000 SC appliances use high tech to treat high flows of water.

Possible duplex or triplex operation when mounted in parallel or alternating configuration using an alternating kit.

### APPLICATIONS

The SIMPLY CONNECT line BWT softeners are for community housing, offices, hotels, catering or healthcare establishments for applications to:

- fill heating and air conditioning circuits
- protect washing machines and steam ovens
- produce domestic hot water
- supply industrial processes (e.g.: cooling towers, boilers, technical services, cooling water, etc.).

### STANDARD EQUIPMENT

Softener delivered complete fitted with:

- a polymer valve (Noryl)
- a SIMPLY CONNECT coupling system: built-in meter, by-pass, mixer and hoses
- an electronic control box



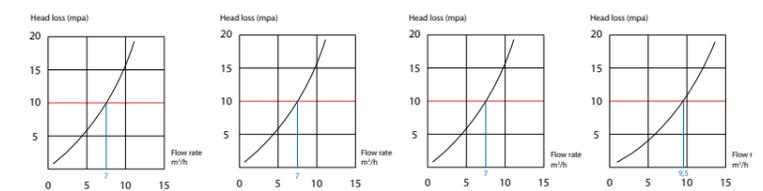
→ **Flow rate:** 7 to 9.5 m<sup>3</sup>/h at TH 0 °f

→ **Resin volume:** 50 to 150 L

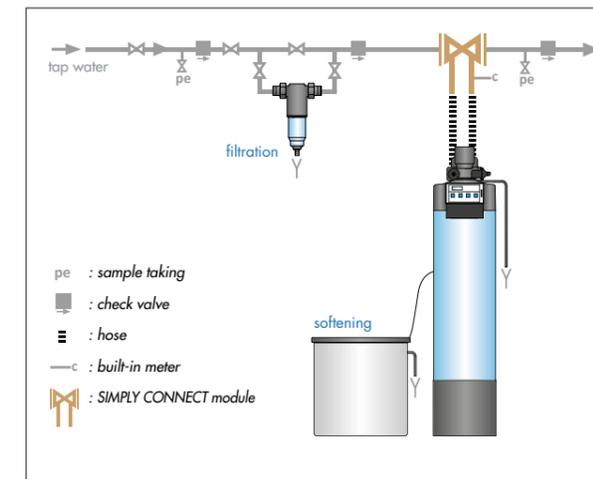
### TECHNICAL SPECIFICATIONS

TYPE		7050 SC	7075 SC	7125 SC	7150 SC
<b>TECHNICAL SPECIFICATIONS</b>					
Resin volume	L	50	75	125	150
Exchange capacity	°f.m <sup>3</sup>	275	410	685	825
Coupling diameter	DN / inch	DN 50/ 2"	DN 50/ 2"	DN 50/ 2"	DN 50/ 2"
Flow rate at TH < 0.2°f	m <sup>3</sup> /h	7	7	7	9.5
Flow rate at TH = 10°f	m <sup>3</sup> /h	10.5	10.5	10.5	14
Min/max. dynamic pressure	bars	2/7	2/7	2/7	2/7
Maximum water temperature	°C	35	35	35	35
First salt charge	kg	135	135	200	200
Salt tank autonomy	number of regens.	21	10	15	12
Load on ground	kg	450	500	550	850
Product code		<b>BK07050SC40</b>	<b>BK07075SC40</b>	<b>BK07125SC40</b>	<b>BK07150SC40</b>
<b>SIZE SPECIFICATIONS</b>					
Softener body diameters	mm	375	375	425	460
Softener height	mm	1245	1750	1790	1880
Salt tank diameter	mm	720	720	720	715
Salt tank height	mm	800	800	800	1400

\*for raw water TH of 30 °f



### INSTALLATION RECOMMENDATIONS



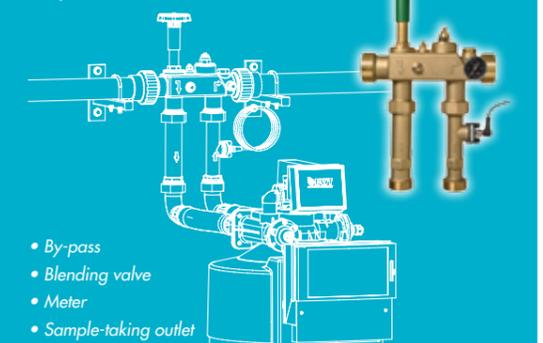
### ACCESSORIES AND CONSUMABLES

NAME	Product code
BWT INFINITY manual DN 40 / 1"1/2 filter	<b>P0010073</b>
BWT INFINITY automatic DN 40 / 1"1/2 filter	<b>P0010078</b>
BWT CRISTAL DN 40 / 1"1/2 filter	<b>P0003199</b>
Resin chlorination kit (up to 125 L)	<b>P0011507</b>
SANIRESINE resin chlorination kit (up to 400 L)	<b>P0029527</b>
AQA CLEAN 1 (community softener maintenance kit)	<b>P0004895</b>

### FOCUS ON

#### SIMPLY CONNECT SOFTENERS

Simple, reliable and economic



- By-pass
- Blending valve
- Meter
- Sample-taking outlet

NAME	Product code
Tee connector for TH 0 °f SIMPLY CONNECT	<b>P0073402</b>
DN 32 / 1"1/4 mixing valve	<b>P0001923</b>
Low salt level sensor	<b>C0261545</b>
Bypass suppression kit	<b>P0001791</b>
Alternation kit	<b>P0005702</b>

# BWT 9000 SC

## WATER SOFTENER



### PRODUCT PLUSES

- **Industrial configuration**
- **SIMPLY CONNECT: fast, easy and economic connection**

### OPERATION

BWT softener technology consists in eliminating scale by an ion exchange using high tech resins. Scale salts (calcium and magnesium) are trapped, softening the water. The BWT 9000 SC appliances use high tech to treat high flows of water.

Possible duplex or triplex operation when mounted in parallel or alternating configuration using an alternating kit.

### APPLICATIONS

The SIMPLY CONNECT line BWT softeners are for community housing, offices, hotels, catering or healthcare establishments for applications to:

- fill heating and air conditioning circuits
- protect washing machines and steam ovens
- produce domestic hot water
- supply of industrial processes (e.g.: cooling towers, boilers, technical services, cooling water, etc.).

### STANDARD EQUIPMENT

Softener delivered complete fitted with:

- a bronze valve with by-pass
- a DN 50/2" (SC) connection
- a glass fibre reinforced polyester body: no risks of corrosion
- an electronic control box
- approved food grade resin
- a SIMPLY CONNECT coupling system: built-in meter, by-pass, mixer and hoses

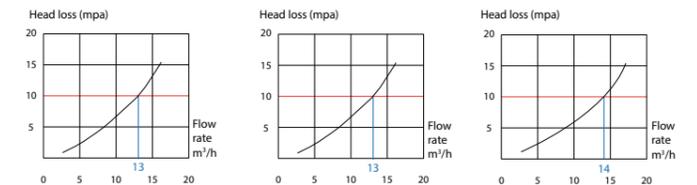
→ **Flow rate:** 13 to 14 m<sup>3</sup>/h at TH 0 °f

→ **Resin volume:** 175 to 300 L

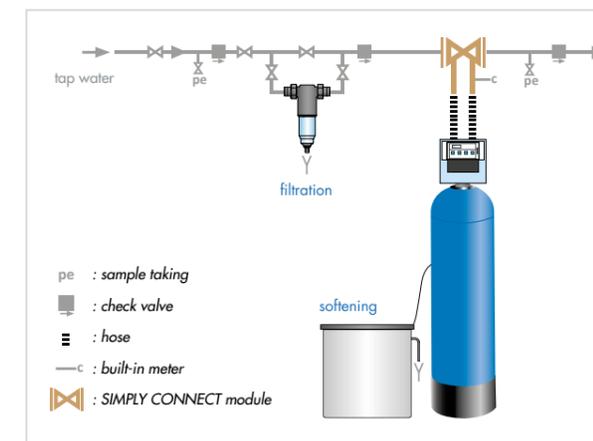
### TECHNICAL SPECIFICATIONS

TYPE		9175 SC	9225 SC	9300 SC
<b>TECHNICAL SPECIFICATIONS</b>				
Resin volume	L	175	225	300
Exchange capacity	°f.m <sup>3</sup>	960	1240	1650
Coupling diameter	DN / inch	DN 50 / 2"	DN 50 / 2"	DN 50 / 2"
Flow rate at TH < 0.2°f	m <sup>3</sup> /h	13	13	14
Flow rate at TH = 10°f	m <sup>3</sup> /h	19.5	19.5	21
Min/max. dynamic pressure	bars	2/7	2/7	2/7
Maximum water temperature	°C	35	35	35
First salt charge	kg	300	300	400
Salt tank autonomy	number of regens.	21	12	16
Load on ground	kg	900	1000	1150
Product code		<b>BK09175SC50</b>	<b>BK09225SC50</b>	<b>BK09300SC50</b>
<b>SIZE SPECIFICATIONS</b>				
Softener body diameters	mm	460	550	610
Softener height	mm	2110	1965	2205
Salt tank diameter	mm	720	720	720
Salt tank height	mm	1400	1400	1400

\*for raw water TH of 30 °f



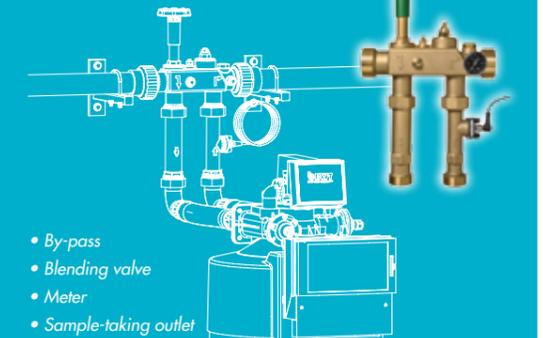
### INSTALLATION RECOMMENDATIONS



### FOCUS ON

#### SIMPLY CONNECT SOFTENERS

Simple, reliable and economic



- By-pass
- Blending valve
- Meter
- Sample-taking outlet

### ACCESSORIES AND CONSUMABLES

NAME	Product code
BWT INFINITY manual DN 50/2" filter	<b>P0010074</b>
BWT INFINITY automatic DN 50/2" filter	<b>P0010079</b>
BWT CRISTAL DN 50/2" filter	<b>P0003200</b>
SANIREFINE resin chlorination kit (up to 400 L)	<b>P0029527</b>
AQA CLEAN CT 2 (community softener maintenance kit)	<b>P0004896</b>
Tee connector for TH 0 °f SIMPLY CONNECT	<b>P0073402</b>

NAME	Product code
DN 32 / 1"1/4 mixing valve	<b>P0001923</b>
DN 50 / 2" mixing valve	<b>P0001924</b>
Low salt level sensor	<b>C0261545</b>
Hydro alternation kit 2 meters (not included)	<b>P0001921</b>
Hydro alternation kit 1 meter (not included)	<b>P0001922</b>

# BWT 8000 WATER SOFTENER



## PRODUCT PLUSES

- **Industrial configuration**
- **High flow treatment**

### OPERATION

BWT softener technology consists in eliminating scale by an ion exchange using high tech resins. Scale salts (calcium and magnesium) are trapped, softening the water. The BWT 8000 appliances use high tech to treat high flows of water.

Possible duplex or triplex operation when mounted in parallel or alternating configuration using an alternating kit.

### APPLICATIONS

The 8000 line softeners are for community housing, offices, hotels, catering or healthcare establishments for applications to:

- produce domestic hot water
- fill heating and air conditioning circuits
- protect washing machines and steam ovens
- supply industrial processes (e.g.: cooling towers, boilers, technical services, cooling water, etc.).

Softened water protects installations and equipment from premature deterioration or excess energy consumption caused by scale.

### STANDARD EQUIPMENT

Softener delivered complete fitted with:

- a steel valve with or without bypass depending on the setting
- a DN 2"1/2 connection
- a glass fibre reinforced polyester body: no risks of corrosion
- an electronic control box
- food grade approved resins
- a pair of 2"1/2 hoses

→ **Flow rate:** 20 to 26 m<sup>3</sup>/h at TH 0°f

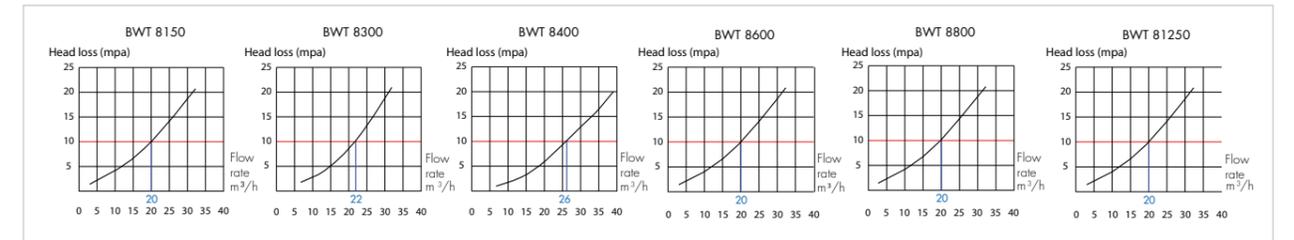
→ **Resin volume:** 150 to 1,250 L

## TECHNICAL SPECIFICATIONS

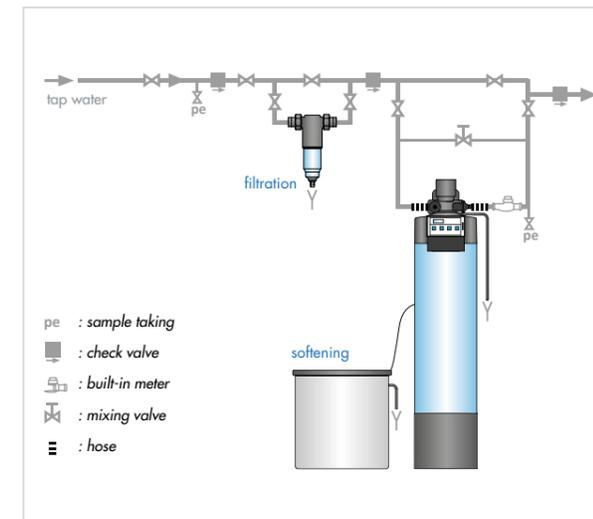
TYPE		BWT 8150	BWT 8300	BWT 8400	BWT 8600	BWT 8800	BWT 81250
<b>TECHNICAL SPECIFICATIONS</b>							
Resin volume	L	150	300	400	600	800	1250
Exchange capacity	°f.m <sup>3</sup>	825	1650	2200	3300	4400	6875
Coupling diameter	DN / inch	DN 65/2"1/2					
Flow rate at TH < 0.2°f	m <sup>3</sup> /h	20	22	26	20	20	20
Flow rate at TH = 10°f	m <sup>3</sup> /h	30	33	39	30	30	30
Min/max. dynamic pressure	bars	2/7	2/7	2/7	2/7	2/7	2/7
Maximum water temperature	°C	35	35	35	35	35	35
First salt charge	kg	400	400	600	1000	1000	2000
Salt tank autonomy	number of regens.	13	9	7	12	8	10
Load on ground	T/m <sup>2</sup>	5	5	4	4	4	4
Product code		BK000008150	BK000008300	BK000008400	BK000008600	BK000008800	BK0000081250

<b>SIZE SPECIFICATIONS</b>							
Softener body diameters	mm	550	610	770	930	1075	1225
Softener height	mm	2210	2250	2400	2430	2395	2455
Salt tank diameter	mm	720	720	820	1300	1300	2x1300
Salt tank height	mm	1400	1400	1400	1560	1560	1560

\*for raw water TH of 30 °f



## INSTALLATION RECOMMENDATIONS



## ACCESSORIES AND CONSUMABLES

NAME	Product code
BWT INFINITY manual DN 65/2"1/2 filter	PK0033932A
BWT INFINITY automatic DN 65/2"1/2 filter	PK0033936A
BWT CRISTAL DN 65/3" filter	P0003539
SANIRESINE resin chlorination kit (up to 400 L)	P0029527
AQA CLEAN CT 2 (community softener maintenance kit from 150 to 300 L)	P0004896
AQA CLEAN CT 3 (community softener maintenance kit from 300 to 1000 L)	P0004897
Mixing valve DN 50 / 2"	P0001924
Low salt level sensor	C0261545
DN 50 transmitting meter with flanges (DN 65)	P0005320
Hydro alternation kit 2 meters (not included)	P0001921
Hydro alternation kit 1 meter (not included)	P0001922

# BWT EC

## HOT WATER SOFTENER



### PRODUCT PLUSES

- **Treatment of water** that has already been heated
- **Simplified timer programming**

### OPERATION

BWT softener technology consists in eliminating scale by an ion exchange using high tech resins. Scale salts (calcium and magnesium) are trapped, softening the water. BWT EC appliances are twin-block automatic softeners. They use high tech to treat water that has already been heated as close as possible to the point of use. They withstand temperatures of up to 65°C.

The appliance regeneration is timer-based. It has simplified programming using a control box.

### APPLICATIONS

BWT EC softeners are designed for hotels, and especially catering, for applications to:

- produce hot water for kitchens
  - soften the domestic hot water supply to kitchens
  - protect washing machines and steam ovens
  - supply certain industrial processes that require a hot water supply
- Softened water protects installations and equipment from premature deterioration or excess energy consumption caused by scale.

### STANDARD EQUIPMENT

Softener delivered complete fitted with:

- a bronze and metal Teflon coated valve
- a DN 25/1" connection
- a glass fibre reinforced polyester body: no risks of corrosion
- a manually programmed valve
- a built-in bypass and re-hardening

→ **Flow rate:** 2.5 m<sup>3</sup>/h at TH 0 °f

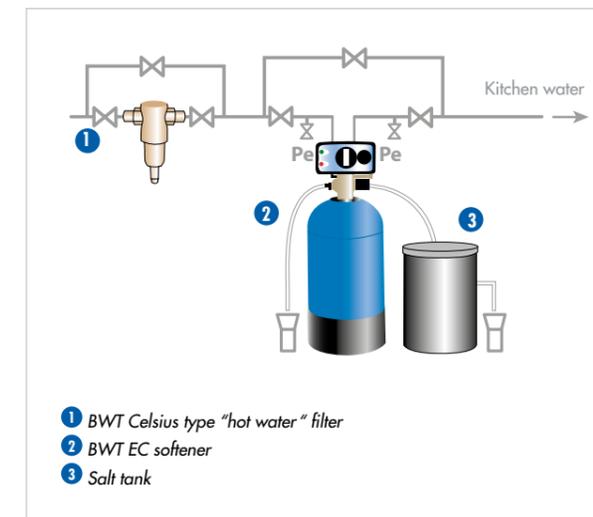
→ **Resin volume:** 17 to 65 L

### TECHNICAL SPECIFICATIONS

TYPE		EC 17	EC 35	EC 50	EC 65
<b>TECHNICAL SPECIFICATIONS</b>					
Resin volume	L	17	35	50	65
Exchange capacity	°f.m <sup>3</sup>	100	200	275	350
Coupling diameter	DN / inch	DN 25/1"	DN 25/1"	DN 25/1"	DN 25/1"
Flow rate at TH < 0.2°f	m <sup>3</sup> /h	2.5	2.5	2.5	2.5
Flow rate at TH = 10°f	m <sup>3</sup> /h	3.7	3.7	3.7	3.7
Min/max. dynamic pressure	bars	2.0/8.6	2.0/8.6	2.0/8.6	2.0/8.6
Maximum water temperature	°C	65	65	65	65
First salt charge	kg	100	150	150	250
Salt tank autonomy	number of regens.	30	20	15	20
Load on ground	kg	150	180	200	350
Product code		<b>PK0001571</b>	<b>PK0001572</b>	<b>PK0001573</b>	<b>PK0001574</b>
<b>SIZE SPECIFICATIONS</b>					
Softener body diameters	mm	254	254	257	335
Softener height	mm	678	1084	1568	1576
Salt tank diameter	mm	480	535	535	720
Salt tank height	mm	680	775	775	800

\*for raw water TH of 30 °f

### INSTALLATION RECOMMENDATIONS



### ACCESSORIES AND CONSUMABLES

NAME	Product code
BWT CELCIUS DN 25/1" filter	<b>P0010064</b>
Set of stainless steel corrugated 1" F/F 110°C hoses	<b>C0011802</b>
AQA CLEAN CT 1 (community softener maintenance kit from 50 to 150 L)	<b>P0004895</b>
DN 25 / 1" mixing valve	<b>P0001920</b>

# 3

## WHY RECOMMEND ANTI-SCALE APPLIANCES?

Anti-scale is a solution when softening is not possible, or when the user chooses not to use it.

The different available technology (treatment dosage, physical anti-scale) is proven and offers effective action for existing technical and economic configurations.



# ANTI-SCALE

## → Protect installations

by limiting the appearance of scale: sanitary appliances are protected, heating elements remain effective, surfaces are easier to clean, built-in piping flows are balanced.

• BWT PHOS	56
• BWT DIPHOS	57
• FOCUS ON AQA TOTAL	58
• BWT AQA NANO	59
• BWT AQA TOTAL	60
• DOSING AND FILM FORMING UNIT	62

You will find the applications in 2 symbols for each product.



ideal for individual housing



Ideal for community facilities

# BWT PHOS

ANTI-SCALE DOSER



## PRODUCT PLUSES

- Dosage proportional to the flow, **with no excess dosage**
- Directional connection flange
- **Simple and quick to install**



## OPERATION

The BWT PHOS doser provides accurate dosing of dispersal products in the water. The added dispersal product prevents scale deposits from forming in piping and on equipment.

## APPLICATIONS

BWT PHOS dosers are effective for medium hard water which is not heated in excess of 70°C.

They are specially adapted to treating community facility domestic hot water (for 3 to 20 dwellings), and general residential cold water supplies.

## STANDARD EQUIPMENT

Doser delivered complete fitted with:

- anti-scale and corrosion prevention phosphosilicates
- a clear tank
- a directional coupling flange for installation on horizontal or vertical piping
- a double effect membrane and pin offset flow regulator
- a diffuser that prevents any overdoses

→ Flow rate: 90 to 4,200 L/h

TYPE		PHOS 1/2"	PHOS 3/4"	PHOS 1"	PHOS 1"1/4"
<b>TECHNICAL SPECIFICATIONS</b>					
Coupling diameter	DN/inch	DN 15 / 1/2"	DN 20 / 3/4"	DN 25 / 1"	DN 32 / 1"1/4"
Min/max rated flow	L/h	90 / 1500	90 / 1800	90 / 2400	90 / 4200
Head loss	bars	0.29	0.25	0.40	0.35
Max. dynamic pressure	bars	10	10	10	10
Min/max water temperature	°C	0 / 35	0 / 35	0 / 35	0 / 35
Product code		<b>P0075300</b>	<b>P0075301</b>	<b>P0075302</b>	<b>P0075303</b>
Retail price ex. VAT*		<b>116.00 €</b>	<b>306.00 €</b>	<b>346.00 €</b>	<b>410.00 €</b>
<b>SIZE SPECIFICATIONS</b>					
L x H	mm	84 X 180	185 X 280	185 X 280	205 X 280
Bowl I/O Axis height	mm	150	230	230	230

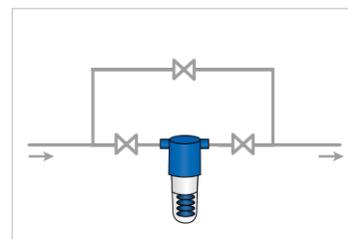
## ACCESSORIES AND CONSUMABLES

NAME	Product code	Retail price ex. VAT*
QUANTOPHOS H Box of 2 350 g bags	<b>P0010543</b>	<b>50.00 €</b>
QUANTOPHOS H - Blister containing 2 80 g bags for PHOS 1/2"	<b>P0010545</b>	<b>21.00 €</b>

## CARE

The product charge should be changed about every 100 m<sup>3</sup> or more often if the product level visible through the bowl is low.

## INSTALLATION RECOMMENDATIONS



NB: not suitable for exchanger or micro-exchanger domestic hot water production

# BWT DIPHOS

ANTI-SCALE AND CORROSION PROTECTION FILTER



## PRODUCT PLUSES

- **Delivered complete with by-pass, fixture bracket and dismantling wrench**
- **Simple and quick to install**
- **Silicophosphate beads effective up to 90°**



→ Flow rate: 1.8 m<sup>3</sup>/h

TYPE	DIPHOS	
<b>TECHNICAL SPECIFICATIONS</b>		
Coupling diameter	DN/inch	DN 20 / 3/4"
Min/max rated flow	L/h	1800
Head loss	bars	0.2
Max. dynamic pressure	bars	8
Min/max water temperature	°C	0 / 35
Product code	<b>P0003880B</b>	
Retail price ex. VAT*	<b>153.00 €</b>	
<b>SIZE SPECIFICATIONS</b>		
W x H x D	mm	404 x 450 x 105

## ACCESSORIES AND CONSUMABLES

NAME	Product code	Retail price ex. VAT*
2 impurity trapping sleeves + 1 silicophosphate cartridge	<b>P0003702A</b>	<b>47.00 €</b>
Silicophosphate cartridge	<b>P0003709A</b>	<b>30.00 €</b>
Impurity trapping cartridge	<b>P0003351</b>	<b>15.50 €</b>
Removal key + seal	<b>P0003353</b>	<b>20.60 €</b>

## OPERATION

The filter traps water-borne impurities (particles in suspension, sludge, sand) and protects from scale and corrosion. The BWT DIPHOS filter has 2 bowls and 2 cartridges (20 µm filtering and silicophosphates).

## APPLICATIONS

For scale rich water and when it is not possible to install a softener, the BWT DIPHOS system is used to filter out impurities and to protect installations against scale deposits and corrosion by preventing the deposit of scale salts. Pipes, heating components (boilers, heat exchangers, etc.) and sanitary and household appliances are protected.

## STANDARD EQUIPMENT

Complete filter delivered with:

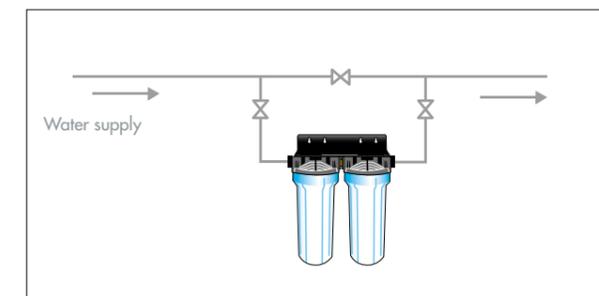
- a wall mounting bracket
- a wrench to remove the filter bowls
- the 1<sup>st</sup> set of cartridges: 1 20 µm impurity trapping filter + 1 silicophosphate bead anti-scale and corrosion protection cartridge
- a bypass (brass connectors – copper pipes – ¼ turn valves)

## CARE

The silicophosphate cartridge should be changed if the product level visible in the bowl is low.

The filtering cartridge is to be changed every 6 months or more frequently depending on your water quality.

## INSTALLATION RECOMMENDATIONS



## FOCUS ON

# THE ANTI-SCALE SOLUTION TO PROTECT EQUIPMENT AND INSTALLATIONS



## WHY USE ANTI-SCALE TREATMENTS?

Hard water causes scale deposits and corrosion in housing and buildings.

### The visible consequences are:

- Deterioration of equipment in contact with the water (valves, tanks, exchangers, radiators, etc.)
- Scale deposits in piping that reduce the cross section and increase corrosion

### The invisible consequences are:

- Reduced boiler performances and therefore increased energy bills
- Increased, costly regular maintenance

## THE SCALE PROTECTION SOLUTION

The high tech BWT AQA TOTAL and BWT AQA NANO physical anti-scale appliances are the simple and reliable solution to:

- **protect your installations** by limiting the deposit of scale crystals in your piping and heat exchangers
- **maintain your equipment's** energy performances
- **reduce energy and** maintenance bills

## EXCLUSIVE BWT ANTI-SCALE TECHNOLOGY

- **High tech anti-scale action** that adapts to the volumes being drawn
- **Ecological physical anti-scale** with no water or salt consumption
- **Does not alter the water's** composition
- **Easy to install** and reduced maintenance
- **Automatic operation** with no releases
- **Produced by BWT** with a sanitary compliance certificate

## BWT ANTI-SCALE APPLIANCES



BWT AQA NANO  
Anti-scale for the home  
P. 59



BWT AQA TOTAL  
Anti-scale for community facilities  
P. 60

# BWT AQA NANO

## PHYSICAL ANTI-SCALE



## PRODUCT PLUSES

- **Fully automatic** appliance
- **Permanent action** that adapts to drawn volumes
- **Controlled autonomy** and module change indicator



→ Flow rate: 1.5 m<sup>3</sup>/h

TYPE	AQA NANO	
<b>TECHNICAL SPECIFICATIONS</b>		
Coupling diameter	DN/inch	DN 25/1"
Rated flow at P= 0.8 bar	L/h	1500
Treatment capacity	m <sup>3</sup>	110 (+/- 10)
Max. static pressure	bars	16
Min/max water temperature	°C	0 / 40
Product code	<b>P0005900</b>	
Retail price ex. VAT*	<b>814.00 €</b>	
<b>SIZE SPECIFICATIONS</b>		
W x H x D	mm	300 x 710 x 234
Weight in service	kg	11

## ACCESSORIES AND CONSUMABLES

NAME	Product code	Retail price ex. VAT*
AQA NANO cartridge	<b>P0015730</b>	<b>59.00 €</b>
E1 protection system	<b>P0010090</b>	<b>332.00 €</b>
CRISTAL 4 filter	<b>P0003350</b>	<b>37.00 €</b>

## OPERATION

The BWT AQA NANO anti-scale uses high tech physical action against scale. Using electric pulses, its technology creates scale nano-crystals which can neither agglomerate nor deposit on materials in contact with the water.

Fully automatic, the BWT AQA NANO consumes neither water, nor salt, and does not alter the composition of the water.

## APPLICATIONS

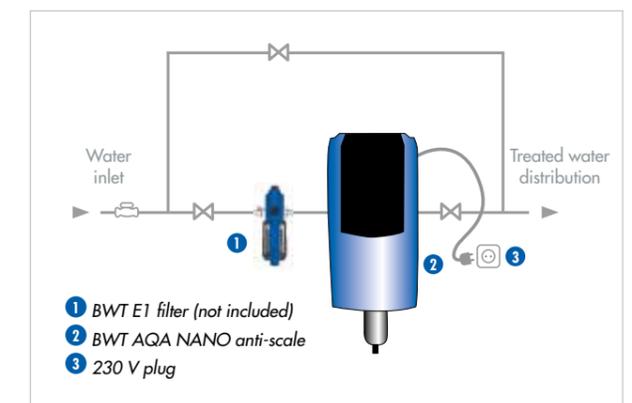
The BWT AQA NANO is used to limit scale in water services, thereby maintaining the flow rate of water through the pipes, to maintain the output of domestic hot water production systems and increase installation service life, as well as that of taps.

## STANDARD EQUIPMENT

The BWT AQA NANO anti-scale is delivered complete with:

- casing to protect from dust and spray
- titanium electrodes to generate the treatment pulses
- single stand alone 110 m<sup>3</sup> cartridge
- fully automated operation (electronic)
- an intuitive LED display showing the operating status

## INSTALLATION RECOMMENDATIONS



# BWT AQA TOTAL

PHYSICAL ANTI-SCALE



## PRODUCT PLUSES

- **Continuous action** that adapts to drawn volumes
- **Automatic stand-by**
- **Controlled autonomy** and module change indicator
- **CEBTP and DVGW approved**

## OPERATION AND APPLICATIONS

The BWT AQA TOTAL anti-scale has a physical effect on scale. Using electric pulses, its technology creates scale nano-crystals which can neither agglomerate nor deposit on materials in contact with the water.

Fully automatic, it consumes neither water, nor salt, and does not alter the composition of the water.

## APPLICATIONS

The BWT AQA TOTAL anti-scale is used to limit scale in water services, thereby maintaining the flow rate of water through the pipes, maintaining the output of domestic hot water production systems and increasing installation service life, as well as that of taps.

## STANDARD EQUIPMENT

The BWT AQA TOTAL anti-scale is delivered complete with:

- casing to protect from dust and spray
- one or more stand-alone cartridges from 380 to 575 m<sup>3</sup>
- fully automated operation (electronic)
- an intuitive LED display showing the operating status

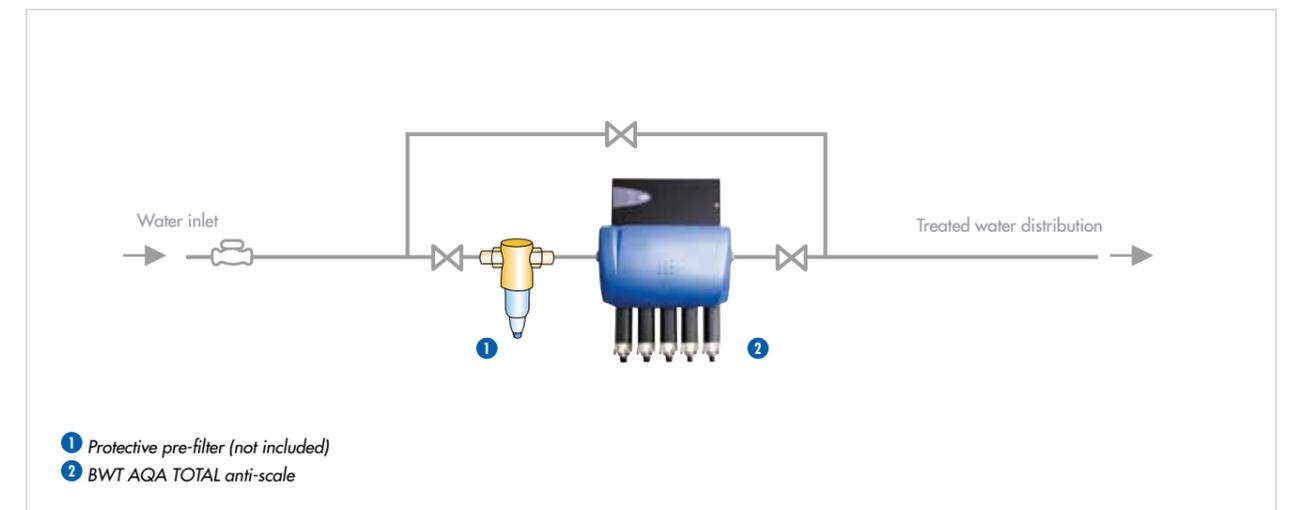


→ **Flow rate:** 1.5 to 14 m<sup>3</sup>/h

## TECHNICAL SPECIFICATIONS

TYPE		1500	2500	4500	5600	8400	11200	14000
<b>TECHNICAL SPECIFICATIONS</b>								
Rated flow rate with 0.8 bar head loss	m <sup>3</sup> /h	1.5	2.5	4.5	5.6	8.4	11.2	14.0
Treatment capacity	m <sup>3</sup>	380 (+/- 20 %)	380 (+/- 20 %)	760	1150	1725	2300	2875
Coupling diameter	DN/inch	DN 25/ 1"	DN 32/ 1"1/4	DN 40/ 1"1/2	DN 40/ 1"1/2	DN 40/ 1"1/2	DN 50/ 2"	DN 50/ 2"
Max service pressure	bars	10	10	10	10	10	10	10
Maximum water temperature	°C	35	35	35	35	35	35	35
Weight in service	kg	14	24	33	57	64	94	101
Product code		<b>P0005901</b>	<b>P0005902</b>	<b>P0005904</b>	<b>P0005905</b>	<b>P0005908</b>	<b>P0005911</b>	<b>P0005914</b>
<b>SIZE SPECIFICATIONS</b>								
Width	mm	320	310	320	560	560	825	825
Height	mm	1100	1130	1105	1280	1280	1280	1280
Depth	mm	200	280	320	470	470	470	470

## INSTALLATION RECOMMENDATIONS



## WARNING

Conditions for use:

- pH < 8
- TH < 40 °f
- TAC < 25 °f
- temperature < 80 °C

## ACCESSORIES AND CONSUMABLES

NAME	Product code
Module for AQA TOTAL 1500/2500/4500	<b>P0015731</b>
Module for AQA TOTAL 5600 to 14000	<b>P0015733</b>
BWT CRISTAL WF DN 40 filter	<b>P0003199</b>
BWT CRISTAL WF DN 50 filter	<b>P0003200</b>
BWT INFINITY DN 40 M filter	<b>P0010073</b>
BWT INFINITY DN 50 M filter	<b>P0010074</b>



BWT CRISTAL WF filter



BWT INFINITY filter

# DOSING AND FILM CREATING UNIT

CORROSION PROTECTION TREATMENT



## PRODUCT PLUSES

- Dosing unit **delivered complete and ready to commission**
- **Accurate and reliable** electronic pump
- Film creation treatment with a technical approval issued by **the CSTBat**



## OPERATION AND APPLICATIONS

The dosing unit is the easy and reliable way to treat your domestic hot water. It is delivered complete and ready to start up, with its first film generating charge.

The containment tank, which is mandatory for all chemical storage, is sized for your dosing unit.

The electronic dosing pump provides accurate doses from the very smallest flows. Available in a PM60 model for high flows and high counter-pressures (60 L/h).

Graduated dosing tank, digital display dosing pump and user friendly programming: simplified monitoring and operation.

## APPLICATIONS

The dosing unit is designed to simplify community domestic hot water service treatment.

The choice depends on the hardness of the site water supply.

## STANDARD EQUIPMENT

The dosing unit is delivered complete and ready to commission:

- 140 L treatment tank
- the dosing pump
- injection accessories (suction screen, tubing and discharge piping, injection tube, etc.)
- the cable to couple to the transmitter meter
- the containment tank
- the first 40 kg charge of film generating treatment for domestic hot water services

Only the meter remains to be selected if the site is not equipped with one.

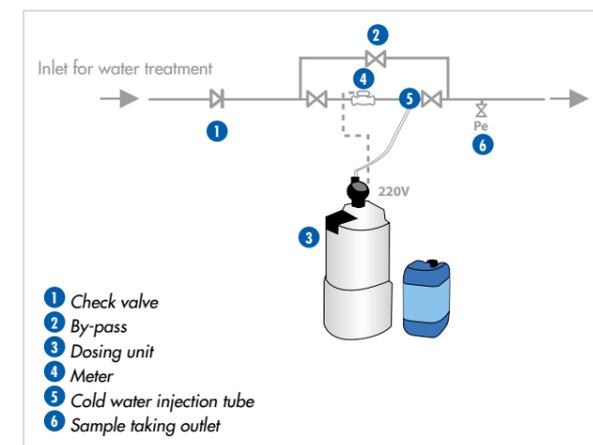
→ Flow rate: 7 L/h

→ Film generation treatment

## TECHNICAL SPECIFICATIONS

TYPE	DOSING UNIT MEDO XG6 + 140 L tank + 2 BIB of BWT FILM 105 + containment tank		DOSING UNIT MEDO XG6 + 140 L tank + 2 BIB of BWT AQUASIL + containment tank	
	TECHNICAL SPECIFICATIONS			
Raw water hardness	°f	TH ≤ 20	10 ≤ TH ≤ 45	
Dosing flow	L/h	0.7 to 7.1	0.7 to 7.1	
Discharge counter-pressure	bars	7	7	
Injection cadence	shots/minute	180	180	
Volume per shot	mL	0.66	0.66	
4-20 mA Input		yes	yes	
BMS information		yes	yes	
ATEC film creation treatment	(Included)	20 kg of BWT FILM 105	20 kg of BWT AQUASIL	
Product code		<b>PK0027132F</b>	<b>PK0027132A</b>	

## INSTALLATION RECOMMENDATIONS



## SUPPLEMENTS TO THE LINE: COLD WATER METERS

With a dry contact output to carry over pulses for proportional film generator dosage.

TYPE	Transmitter meter	DN 20	DN 25	DN 32	DN 40	DN 50	DN 65	DN 80
TECHNICAL SPECIFICATIONS								
Coupling diameter	inches	3/4" threaded	1" threaded	1 1/4" threaded	1 1/2" threaded	2" threaded	2 1/2" flanges	3" flanges
Rated flow	m <sup>3</sup> /h	2.5	3.5	6.0	10.0	15.0	25.0	40.0
K (L for 1 pulse)		1	1	1	1	1	50	50
Starting threshold	L/h	50	78	125	200	312	450	1200
Size (LxHxD)	mm	190x130x90	260x140x100	260x140x100	300x160x110	270x190x73	270x190x70	300x190x70
Weight	kg	2	2	2	5	13	19	27
Product code		<b>P0005342DH</b>	<b>P0005325DH</b>	<b>P0005329DH</b>	<b>P0005355DH</b>	<b>P0005358DH</b>	<b>P0005320</b>	<b>P0005347</b>

## ACCESSORIES AND CONSUMABLES

NAME	Product code
Containment tank for jerricans	<b>R0028011</b>
60 L / 140 L containment tank	<b>R0028011</b>
2 drum containment pallet 1300 x 700 x 445 mm - W: 22 kg - Load 800 kg	<b>P0973265</b>
IBC XL 1050 L containment	<b>P0973267</b>
Hot water injection pipe	<b>P0028032</b>

# 4

## WHY RECOMMEND DISINFECTION EQUIPMENT AND TECHNIQUES?

Disinfection reduces the presence of organic germs. It uses physical processes such as high temperature, UV radiation, or ultrasounds, ultra-filtration processes or chemical processes (chlorine and its derivatives). Disinfection is essential when unwelcome micro-organisms are present or appear in the water (germs, bacteria, legionella, etc.). To maintain or improve water quality, the BWT disinfection line of equipment guarantees safety.



# DISINFECTION

## → Guaranteed safety

BWT disinfection equipment and techniques make it possible to maintain or improve water quality.

• BWT BIOSTIL UV	66
• BWT BIOSTIL UV N / EU / HI	68
• BWT PROBOX	70
• BWT ECOREDOX	71
• BWT ECOBOX ECS	72
• BWT AQA BLUE	73
• BWT DOSING UNIT	74

You will find the applications in 2 symbols for each product.



ideal for individual housing



Ideal for community facilities

# BWT BIOSTIL UV

COLD WATER UV TREATMENT



## PRODUCT PLUSES

- **Easy to install and solid**
- **Effective water disinfection:** destroys germs, bacteria, viruses, fungi and spores without adding any chemicals or altering the water's taste
- **Easy maintenance**

## OPERATION

BWT BIOSTIL UV is water disinfection equipment that uses UV radiation. The process is simple, chemical-free and cheap to maintain. It is highly effective on previously clarified water and does not alter the taste or the chemical composition of the treated water.

The water that flows through the BWT BIOSTIL UV is subjected to ultra-violet radiation from the lamp (UV-C, wavelength 245 nanometres) which destroys the micro-organisms in the water in just a few seconds.

## APPLICATIONS

BWT BIOSTIL UV is recommended for applications:

- to treat borehole water or rainwater for domestic or small community applications
- to supply air conditioning and humidifier circuits

The equipment is compliant with applicable legislation.

## STANDARD EQUIPMENT

BWT BIOSTIL UV is composed:

- of a 304 grade stainless steel radiation chamber
- of a low pressure UV-C system with a lamp power that varies depending on the model and has a service life of about 9,000 hours (1 year)
- of a control box including ballast, a starter, an alarm, a LED indicator and a time meter
- of an audio alarm system to indicate when to change the UV lamp, or when there is a malfunction.



→ 3 models

→ Flow rates: 1,000 to 4,200 L/h

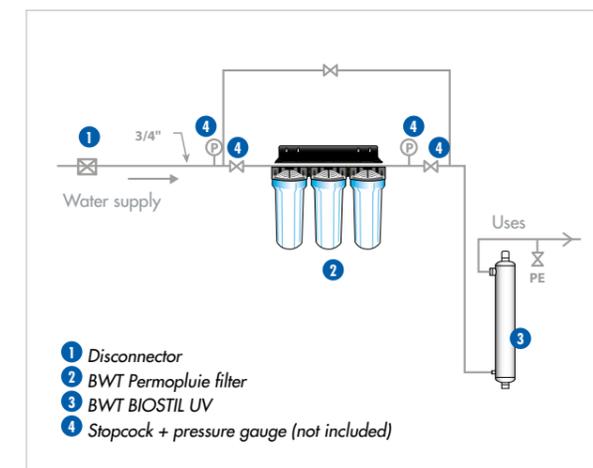
## TECHNICAL SPECIFICATIONS

TYPE		BWT BIOSTIL UV 1000	BWT BIOSTIL UV 1800	BWT BIOSTIL UV 2700
<b>TECHNICAL SPECIFICATIONS</b>				
Max flow rate at a UV dosage of 25 mJ/cm <sup>2</sup> *	L/h	1700	2900	4200
Max flow rate at a UV dosage of 40 mJ/cm <sup>2</sup> *	L/h	1000	1800	2700
Input/output connection	inches	3/4"	3/4"	3/4"
Maximum pressure	bars	8.6	8.6	8.6
Output power	W	30	46	48
Lamp power	W	25	37	39
Min/max water temperature	°C	2 to 40	2 to 40	2 to 40
Product code		<b>P0012241</b>	<b>P0012243</b>	<b>P0012247</b>
Retail price ex. VAT***		<b>680.00 €</b>	<b>850.00 €</b>	<b>1010.00 €</b>
<b>SIZE SPECIFICATIONS</b>				
Length	mm	565	905	600
Depth	mm	65	65	90
Ballast length	mm	185	185	175
Ballast width	mm	80	80	80
Clearance**	mm	600	950	650

\* The French Health Ministry circular imposes a minimum UV dose of 25 mJ/cm<sup>2</sup>. The corresponding flow rate should be considered when choosing your BIOSTIL model. The value of 40 mJ/cm<sup>2</sup> (at 95 % transmission) is a reference for manufacturers. The corresponding flow rates give the names to the models in our line.

\*\* For lamp changes

## INSTALLATION RECOMMENDATIONS



## ACCESSORIES AND CONSUMABLES

NAME	Product code	Retail price ex. VAT***
Rainwater filter	<b>P0003900</b>	<b>133.00 €</b>
Rainwater filter replacement kit	<b>P0003902</b>	<b>31.00 €</b>
UV lamp for BIOSTIL 1000	<b>P0004211</b>	<b>64.00 €</b>
UV lamp for BIOSTIL 1800	<b>P0015622</b>	<b>82.00 €</b>
UV lamp for BIOSTIL 2700	<b>P0004219</b>	<b>92.00 €</b>

## CARE

To guarantee effectiveness, the quartz must be kept clean and the UV lamp must be changed at least every year.

An indicator with an alarm notifies of when the UV lamp should be changed.

## OPERATING LIMITS

For top effectiveness, the water to be treated must meet the following criteria:

- water transmission: 75 % or over
- iron: < 0.3 mg/L
- hardness: < 12 °f
- turbidity: < 1 NTU unit
- manganese: < 0.06 mg/L
- tannins: < 0.01 mg/L

For hard water (TH > 12 °f), plan to pre-treat the water using filtering and softening to remove scale deposits or impurities.

# BWT BIOSTIL UV N / EU / HI

HOT OR COLD WATER UV TREATMENT



## PRODUCT PLUSES

- **Easy to install and solid**
- **Effective water disinfection:** destroys germs, bacteria, viruses, fungi and spores without adding any chemicals or altering the water's taste
- **Easy maintenance**

## OPERATION

BWT BIOSTIL UV is water disinfection equipment that uses UV radiation. The process is effective and simple, chemical-free and cheap to maintain. It is highly effective on perfectly clear water and does not alter the taste or the chemical composition of the treated water.

The water that flows through the BWT BIOSTIL UV is subjected to powerful ultra-violet radiation from the lamp (UV-C, wavelength 245 nanometres) which destroys the DNA of micro-organisms in the water in just a few seconds.

## APPLICATIONS

BWT BIOSTIL UV is recommended for applications:

- to treat borehole water or rainwater for community applications
- to produce potable water
- to supply air conditioning and humidifier circuits
- to supply general cold water and domestic hot water circuits
- for process water in the agri-food industry, cosmetics industry, etc.

## STANDARD EQUIPMENT

BWT BIOSTIL UV is composed:

- of a stainless steel radiation chamber
- of a low pressure UV-C system with a 37 W or 39 W lamp depending on the model with a service life of about 9,000 hours (1 year)
- of a control box including a ballast, a starter, an alarm, a LED indicator and a time meter
- of an audio alarm system to indicate when to change the UV lamp, or when there is a malfunction

BWT BIOSTIL BWT UV generators come in 2 lines:

- one line for potable water production with a biosimetry test and a sanitary compliance certificate: BIOSTIL UV N
- one line for potable water networks with a sanitary compliance certificate:
  - cold water: EU model
  - hot water: HI model

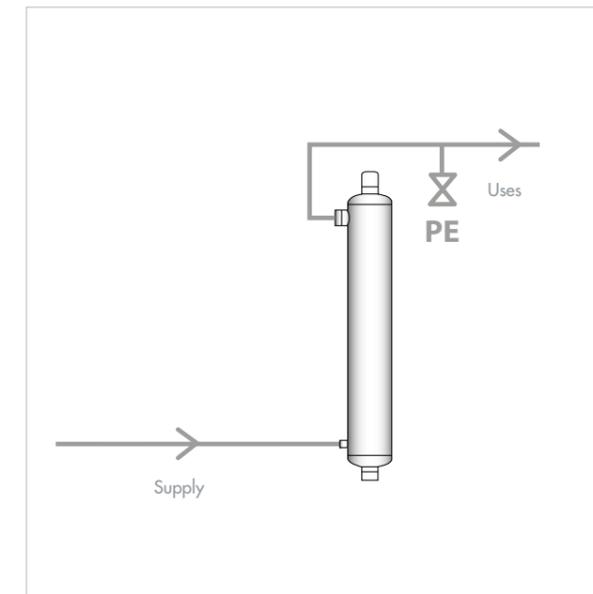
## TECHNICAL SPECIFICATIONS

TYPE		UV17N	UV27N	UV40N	EU11 DN 32	EU11 DN 50	EU22	EU35	HI17	HI22
<b>TECHNICAL SPECIFICATIONS</b>										
Max flow rate	m <sup>3</sup> /h	15.7	47.2	182.0	4.3	6.8	22.0	46.0	38.0	68.0
Input/output connection	DN	50	80	150	32	50	80	100	80	100
Max. pressure	bars	10	10	10	10	10	10	10	10	10
Number of lamps		1	3	3	1	1	3	4	2	3
Lamp power	W	200	130	270	80	100	80	80	200	200
Min/max water temperature	°C	5 to 65	5 to 65	5 to 65	5 to 30	5 to 30	5 to 30	5 to 65	5 to 65	5 to 65
UV for potability Biosimetry test		yes	yes	yes	no	no	no	no	no	no
UV with sanitary compliance certificate		yes	yes	yes	yes	yes	yes	yes	yes	yes
Product code		P0002225	P0002226	P0002227	P0002205	P0002208	P0002206	P0002207	P0002209	P0002210

## SIZE SPECIFICATIONS

Width	mm	186	376	510	128	128	420	556	308	359
Height	mm	1275	1187	1370	1013	1310	1165	1191	1350	1380

## INSTALLATION RECOMMENDATIONS



→ **Flow rate:** 15 to 182 m<sup>3</sup>/h

# BWT PROBOX

## ANALYSER REGULATOR



### OPERATION

BWT PROBOX is a twin-channel analyser and regulator, that is simple and accurate. It uses selective amperometric probes to analyse different physical-chemical parameters: temperature, pH, Redox potential, chlorine, chlorine dioxide, etc.

The supplied outputs make it possible to retrieve the measurement data or to control a dosing pump for example.

Software is also available (SYSCOM) to retrieve the data and provide traceability.

### APPLICATIONS

BWT PROBOX is suitable for establishments open to the public, healthcare and leisure establishments or hotels, but also for all commercial accommodation.

### STANDARD EQUIPMENT

BWT PROBOX is delivered equipped with:

- 1 wall box containing the electronics
- 1 back-lit LCD display
- 2 programmable relays (250 V / 5A max)
- 3 4-20 mA signal inputs of which 2 can be configured
- 2 0/4-20 mA signal outputs that are configurable for BMS or regulation
- 2 RS 232C type outputs
- 1 RS 422 or 485 type outputs
- 1 USB port

→ Measurement range: 0 to 10 ppm

TYPE	pH	Free chlorine 0-2 ppm	Free chlorine 0-10 ppm	Active chlorine 0-2 ppm	Active chlorine 0-10 ppm	Total chlorine 0-10 ppm	ClO <sub>2</sub> 0-2 ppm
<b>TECHNICAL SPECIFICATIONS</b>							
Parameters	pH	Free chlorine	Free chlorine	Active chlorine	Active chlorine	Total chlorine	Chlorine dioxide
Product code	P0002956	P0992736	P0002951	P0002952	P0002953	P0002955	P0002942

### ACCESSORIES AND CONSUMABLES

NAME	Product code
PROBOX system	P0029010
Measurement chamber 1 oxidant sensor	P0029114
Measurement chamber 1 pH	P0029112
Measurement chamber 1 pH + 1 oxidant	P0029111
PVC temperature sensor	P0060057
Stainless steel 45°C temperature sensor	P0060068
Stainless steel 80°C temperature sensor	P0060069
Standard 0.5 bar pH sensor	P0060055
Standard 6 bars pH sensor	P0060056

NAME	Product code
Free chlorine sensor 0-2 ppm	P0060060
Free chlorine sensor 0-10 ppm	P0060059
Active chlorine sensor 0-2 ppm	P0060062
Active chlorine sensor 0-10 ppm	C0959553
Total chlorine sensor 0-2 ppm	P0060064
Total chlorine sensor 0-10 ppm	P0060066
Chlorine dioxide sensor 0-2 ppm	P0960515
Chlorine dioxide sensor 0-10 ppm	P0060067

# BWT ECOREDOX

## REDOX ANALYSER REGULATOR



### OPERATION

BWT ECOREDOX is a Redox measurement chain. This wall mounted analyser is used to control chlorine injections at the start of the domestic hot water loop and to analyse the value on the return from the loop.

In order to save water, the sensor is located on a loop parallel to the piping using a set of 3 valves (not included).

### APPLICATIONS

BWT ECOREDOX is a simple solution to fight against micro-organisms including legionella.

It is therefore suitable for establishments open to the public, healthcare and leisure establishments or hotels, but also for all commercial accommodation.

### STANDARD EQUIPMENT

BWT ECOREDOX is delivered complete with:

- a wall box (IP66 polycarbonate box containing the electronics)
- a 120 mm Redox electrode
- a high pressure and temperature stainless steel electrode holder
- an alarm output: 1 dry contact
- 5 m of cable for direct connection to the regulator

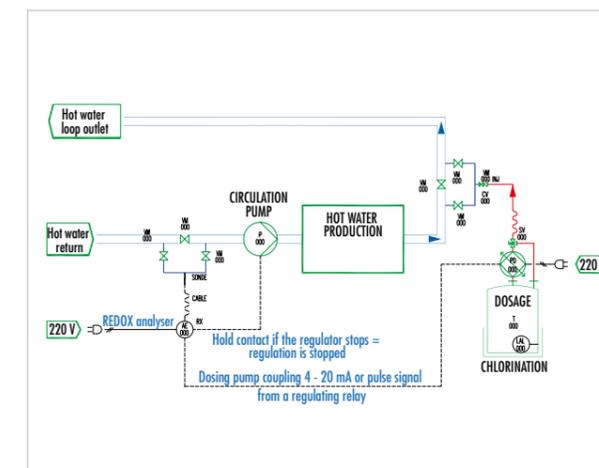
→ Measurement range: -2000 to +2000 mV

TYPE	ECOREDOX	
<b>TECHNICAL SPECIFICATIONS</b>		
Connection diameter stainless steel sheath	DN/inch	1/2" G
Measurement type	Redox	
Max. pressure	bars	10
Max water temperature	°C	130
Product code	P0074925A	
<b>SIZE SPECIFICATIONS</b>		
W x H x D	mm	181 x 185 x 172

### ACCESSORIES AND CONSUMABLES

NAME	Product code
MultiREDOX sensor	P0079263
Cable for Redox sensor	P0079358
MultiREDOX sensor holder	P0079266

### INSTALLATION RECOMMENDATIONS



Price list on request - See general sales terms and conditions

Price list on request - See general sales terms and conditions

# BWT ECOBOX ECS

CHLORINE ANALYSER AND REGULATOR



## PRODUCT PLUSES

- **Ready-to-mount** wall panel
- **Withstands** 70 °C
- **Wide measurement range:** from 0 to 10 mg/L

### OPERATION

BWT ECOBOX ECS is used to accurately control chlorine injections at the start of the domestic hot water loop and to analyse the value on the return from the loop. Set point values are entered to programme regular timed injections.

The ECOBOX ECS innovation lies in the presence of an analysis chamber and a sensor, that withstand temperatures of up to 70°C. The amperometric sensor provides a chlorine measurement range of between 0 and 10 ppm.

This innovation makes it possible to avoid sending water to the drains.

### APPLICATIONS

BWT ECOBOX ECS is a simple and effective solution to fight against micro-organisms including legionella.

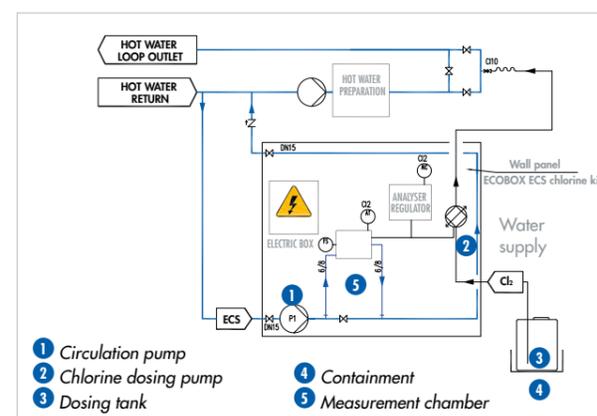
It is therefore suitable for healthcare and leisure establishments or hotels, but also for all commercial accommodation.

### STANDARD EQUIPMENT

Pre-assembled, wall mounted tool set ready-to-install on site, composed of:

- An analysis chamber with a chlorine measurement electrode
- A specific analyser/regulator
- A control box for the entire installation
- a water circulation sub-loop combined with a circulator providing a constant flow to the analysis chamber
- optionally: traceability software

### INSTALLATION RECOMMENDATIONS



- 1 Circulation pump
- 2 Chlorine dosing pump
- 3 Dosing tank
- 4 Containment
- 5 Measurement chamber



→ **Measurement range:** 0 to 10 ppm

TYPE		ECOBX ECS
<b>TECHNICAL SPECIFICATIONS</b>		
I/O connection	DN	20
Min/max. pressure	bars	1 to 6
Measurement range	ppm	0 to 10
Lamp power	W	200
Min/max water temperature	°C	1 to 70
Product code	PK0012270	
<b>SIZE SPECIFICATIONS</b>		
L x H	mm	610 X 370

### ACCESSORIES AND CONSUMABLES

NAME	Product code
Containment tank for jerricans	R0028011
60 L / 140 L containment tank	R0028011
SYSCOM Software	P0012311
Hot water injection pipe	P0028032

# BWT AQA BLUE

CHLORINE GENERATOR



## PRODUCT PLUSES

- Runs **without electricity** and without hazardous products
- **Compact easy-to-install** model



### OPERATION

The BWT AQA BLUE chlorine generator provides the right chlorine dosage to protect both water taste and hygiene.

It is compact and runs without electricity, consuming only salt (electrolysis process).

### APPLICATIONS

Thanks to the effectiveness of chlorine, BWT AQA BLUE protects the household's water from bacterial growth.

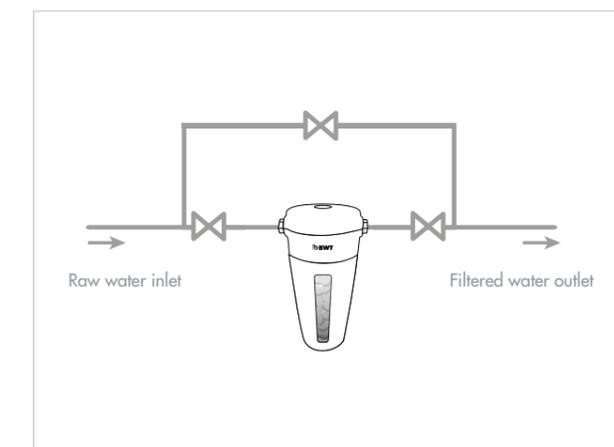
Installed on the water inlet, by simple connection to the services, with no electric connection or drainage.

### STANDARD EQUIPMENT

Equipment delivered complete and ready-to-install with:

- a tool to open/close the salt tank
- a wall mounting bracket
- a first charge of salt

### INSTALLATION RECOMMENDATIONS



→ **Flow rate:** 900 L/h

TYPE		AQA BLUE
<b>TECHNICAL SPECIFICATIONS</b>		
Coupling diameter	inches	3/4" F
Active chlorine dosage	mg/L	0.15 to 0.40
Operating flow rate	L/h	180 to 900
Max service pressure	bars	8
Salt storage capacity	g	850
Treatment capacity (autonomy)	m <sup>3</sup>	30
Product code	P0029570	
Retail price ex. VAT*	780.00 €	
<b>SIZE SPECIFICATIONS</b>		
L x D x H	mm	175 x 160 x 370

### ACCESSORIES AND CONSUMABLES

NAME	Product code	Retail price ex. VAT*
Salt tablets - 850 gr	P0003127	9.60 €

\*Prices valid in Metropolitan France unless changed. See general sales terms and conditions

# DOSING UNIT

## PRODUCT INJECTION



### PRODUCT PLUSES

- Dosing unit delivered complete and **ready to connect**
- **Accurate and reliable** electronic pump



### OPERATION

The dosing unit is the easy and reliable way to treat your circuits. It is delivered complete and ready to commission. The containment tank, which is mandatory for all chemical storage, is sized for your dosing unit. The electronic dosing pump provides accurate doses from the very smallest flows. Available in a PM60 model for high flow and high counter-pressure circuits. Graduated dosing tank, digital display dosing pump and user friendly programming: simplified monitoring and operation.

### APPLICATIONS

The dosing unit is designed to simplify community water service treatment. It is delivered complete and ready to connect. The choice is made depending on the dosing pump sizing.

### STANDARD EQUIPMENT

The dosing unit is delivered complete and ready to connect, including:

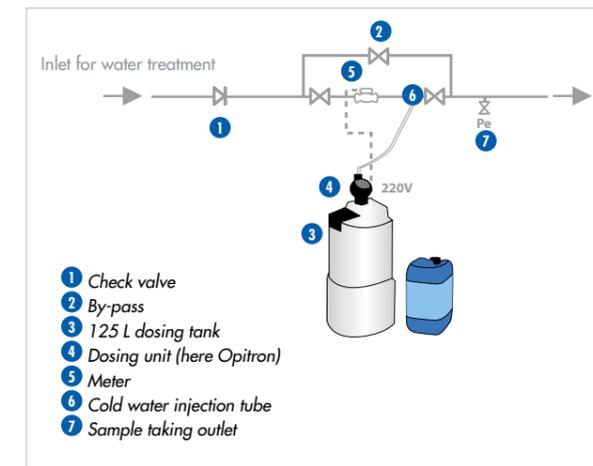
- the 140 L treatment tank
- the dosing pump
- injection accessories (suction screen, tubing and discharge piping, injection tube, etc.)
- the cable to couple to the transmitter meter
- the containment tank

→ **Flow rate: 7 to 60 L/h**

### TECHNICAL SPECIFICATIONS

TYPE		DOSING UNIT MEDO XG6 + 140 L tank	DOSING UNIT METRIC 60 + 200 L tank
<b>TECHNICAL SPECIFICATIONS</b>			
Dosing flow	L/h	0.7 to 7.1	0.075 to 60
Discharge counter-pressure	bars	7	10
Injection cadence	Shots/minute	180	120
Volume per shot		0.66	3.80
4-20 mA Input		yes	yes
BMS information		yes	yes
Product code		<b>PK0027131</b>	<b>PK0002804</b>

### INSTALLATION RECOMMENDATIONS



### SUPPLEMENTS TO THE LINE: COLD WATER METERS

With a dry contact output to carry over pulses for proportional film generator dosage.

TYPE	Transmitter meter	DN 20	DN 25	DN 32	DN 40	DN 50	DN 65	DN 80
<b>TECHNICAL SPECIFICATIONS</b>								
Coupling diameter	inches	3/4" threaded	1" threaded	1"1/4 threaded	1"1/2 threaded	2" threaded	2"1/2 flanges	3" flanges
Rated flow	m <sup>3</sup> /h	2.5	3.5	6.0	10.0	15.0	25.0	40.0
K (L for 1 pulse)		1	1	1	1	1	50	50
Starting threshold	L/h	50	70	125	200	300	450	1200
Size (LxHxD)	mm	190x130x90	260x140x100	260x140x100	300x160x110	270x190x73	270x190x70	300x190x70
Weight	kg	2	2	2	5	13	19	27
Product code		<b>P0005342DH</b>	<b>P0005325DH</b>	<b>P0005329DH</b>	<b>P0005355DH</b>	<b>P0005358DH</b>	<b>P0005320</b>	<b>P0005347</b>

### ACCESSORIES AND CONSUMABLES

NAME	Product code
Containment tank for jerrycans	<b>R0028011</b>
60 L / 140 L containment tank	<b>R0028011</b>
2 drum containment pallet 1300 x 700 x 445 mm - W: 22 kg - 800 kg load	<b>P0970664</b>
IBC XL 1050 L containment	<b>P0973267</b>
Hot water injection pipe	<b>P0028032</b>

# 5

## REVERSE OSMOSIS WATER

### WHY RECOMMEND THE USE OF REVERSE OSMOSIS WATER?

Certain applications require demineralised water. One solution to obtain it uses reverse osmosis technology. By forcing the water through an extremely fine membrane, reverse osmosis can trap all the undesirable elements in the water and thus deliver pure water.



→ **Reverse osmosis technology** is used to convert potable water into pure water that meets the most technical requirements and guarantees bacterial protection. BWT proposes high tech solutions.

- BWT PERMAQ COMPACT 2/4/6 **78**
- BWT PERMAQ COMPACT 41/5 **80**
- BWT PERMAQ COMPACT 100 **82**

You will find the applications in 2 symbols for each product.



ideal for individual housing



Ideal for community facilities

# BWT PERMAQ COMPACT 2/4/6

COMPACT REVERSE OSMOSIS UNIT



## PRODUCT PLUSES

- High tech
- Stand-alone operation
- Off and on-line models



## OPERATION

BWT PERMAQ COMPACT reverse osmosis units are compact reverse osmosis water production units. They convert potable water into pure water meeting the most technical requirements.

The reverse osmosis unit has a high pressure pump that forces the water through a membrane; the undesirable elements in the water are eliminated and the resulting permeated water can be used for various applications.

The permeate yield is higher than 80% (for softened water).

The PERMAQ COMPACT reverse osmosis unit is ready for use on site with or without a tank. BWT PERMAQ COMPACT 2/4/6 is available in 3 models from 60 L/h to 180 L/h.

## APPLICATIONS

BWT PERMAQ COMPACT reverse osmosis units are designed for applications that require de-mineralised water quality: air conditioning, industrial processes, washing, steaming, autoclaves, printing, laboratories, etc.

## STANDARD EQUIPMENT

PERMAQ COMPACT 2/4/6 units are delivered complete with:

- a full protective casing
- a built-in display
- all the internal and control connections
- a built-in mixer valve for different applications

→ Flow rate: 60 to 180 L/h

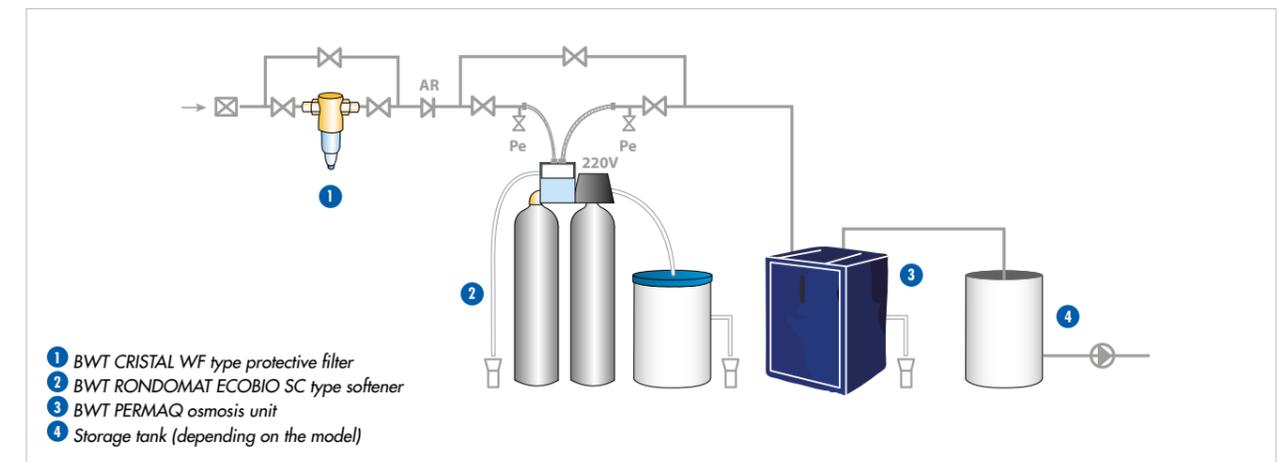
→ 3 models

## TECHNICAL SPECIFICATIONS

TYPE		2	4	6
<b>TECHNICAL SPECIFICATIONS</b>				
Permeate	L/h	60	120	180
Salt retention rate*	%	95	95	95
Permeate yield*	%	40 to 80	40 to 80	40 to 80
Number of membranes		1	2	3
Raw water inlet connection	inches	1/2"	1/2"	1/2"
Concentrate outlet connection		Rilsan 10 mm	Rilsan 10 mm	Rilsan 10 mm
Permeate outlet connection	inches	3/4"	3/4"	3/4"
Min/max service pressure	bars	2/4	2/4	2/4
Max water temperature	°C	30	30	30
Weight in service	kg	25	29	32
Product code		<b>P0045576</b>	<b>P0045577</b>	<b>P0045578</b>
<b>SIZE SPECIFICATIONS</b>				
Width	mm	230	230	230
Depth	mm	250	335	425
Height	mm	380	380	380

\* Depends on the raw water quality

## INSTALLATION RECOMMENDATIONS



## ACCESSORIES AND CONSUMABLES

NAME	Product code
Complete system to combine the tank and osmosis unit Solenoid / cabinet for water level management	<b>P0045557</b>
35 L Steel flask with bladder	<b>P0956270</b>
50 L Steel flask with bladder	<b>P0956271</b>
80 L Steel flask with bladder	<b>P0956272</b>
140 L Steel flask with bladder	<b>P0956273</b>
300 L Steel flask with bladder	<b>P0956274</b>
LP 10 Filter + purge	<b>P0048320</b>

NAME	Product code
LP 20 Filter + purge	<b>P0048321</b>
BWT-PROPYL 10 micron 10" cartridge - Box of 6	<b>PK0098182N</b>
BWT-PROPYL 10 micron 20" cartridge - Box of 6	<b>PK0098222N</b>
BWT-PROPYL 1 micron 10" cartridge - Box of 6	<b>PK0098180N</b>
BWT-PROPYL 1 micron 20" cartridge - Box of 6	<b>PK0098220N</b>
BWT-CARBON 10" cartridge - Box of 6	<b>PK0093146N</b>
BWT-CARBON 20" cartridge - Box of 6	<b>PK0093147N</b>

# BWT PERMAQ COMPACT 41/51

COMPACT REVERSE OSMOSIS UNIT



## PRODUCT PLUSES

- High tech
- Stand-alone operation
- Off and on-line models



## OPERATION

BWT PERMAQ COMPACT reverse osmosis units are compact reverse osmosis water production units. They convert potable water into pure water meeting the most technical requirements.

The reverse osmosis unit has a high pressure pump that forces the water through a membrane; the undesirable elements in the water are eliminated and the resulting permeated water can be used for various applications.

The permeate yield is higher than 80% (for softened water).

The BWT PERMAQ COMPACT reverse osmosis units are ready for use on site with or without a tank.

BWT PERMAQ COMPACT 41/50 is available in 2 models from 130 L/h to 150 L/h.

The COMPACT 41 ON LINE model has a backwashing function for the membrane each time production is stopped, and a 3.5 L storage.

The COMPACT 51 OFF LINE is fitted with a pump and a 50 L tank for autonomy during maintenance work or water supply failures.

## APPLICATIONS

BWT PERMAQ COMPACT reverse osmosis units are designed for applications that require de-mineralised water quality: air conditioning, industrial processes, washing, steaming, autoclaves, printing, laboratories, etc.

## STANDARD EQUIPMENT

PERMAQ COMPACT 41/51 osmosis units are delivered complete with:

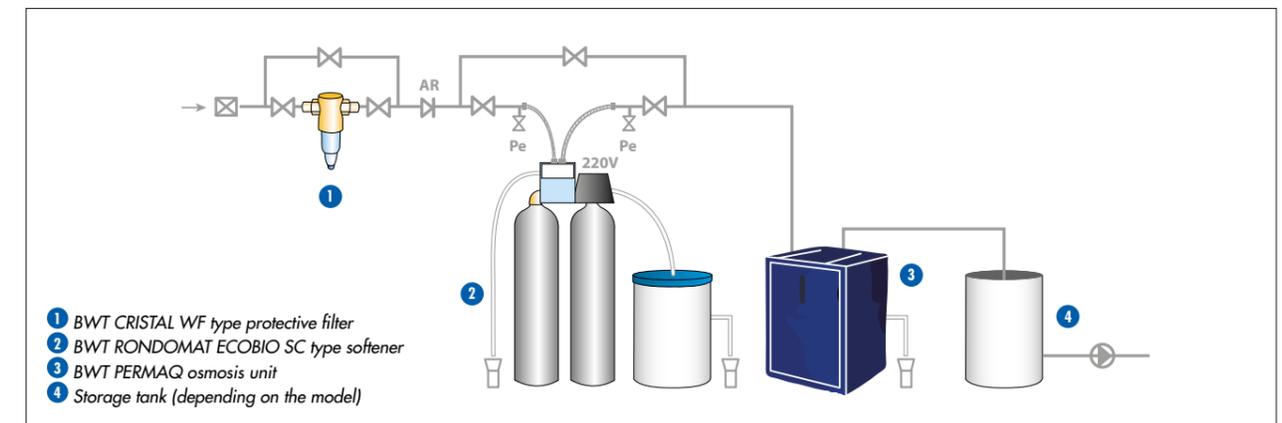
- a full protective casing
- a built-in operations display
- a built-in flow meter and pressure gauge
- all the internal and control connections
- COMPACT 41 model: built-in 3 L hydrophore tank
- COMPACT 51 model: 50 L storage with built-in distribution pump
- automatic cut-off if the input pressure is too low

## TECHNICAL SPECIFICATIONS

TYPE		41 ON LINE	51 OFF LINE
<b>TECHNICAL SPECIFICATIONS</b>			
Permeate	L/h	130	150
Salt retention rate*	%	95	95
Permeate yield*	%	40 to 80	40 to 80
Number of membranes		1	1
Raw water inlet connection	inches	1/2"	3/4"
Concentrate outlet connection		3/4"	3/4"
Permeate outlet connection	inches	3/4"	3/4"
Min/max service pressure	bars	2/7	2/7
Max water temperature	°C	30	30
Weight in service	kg	57	100
Product code		<b>P0004052</b>	<b>P0004051</b>
<b>SIZE SPECIFICATIONS</b>			
Width	mm	260	350
Depth	mm	670	560
Height	mm	520	750

\* Depends on the raw water quality

## INSTALLATION RECOMMENDATIONS



→ Flow rate: 130 to 150 L/h

→ 2 models

## ACCESSORIES AND CONSUMABLES

NAME	Product code
Complete system to combine the tank and osmosis unit Solenoid / cabinet for water level management	<b>P0045557</b>
35 L Steel flask with bladder	<b>P0956270</b>
50 L Steel flask with bladder	<b>P0956271</b>
80 L Steel flask with bladder	<b>P0956272</b>
140 L Steel flask with bladder	<b>P0956273</b>
300 L Steel flask with bladder	<b>P0956274</b>
LP 10 Filter + purge	<b>P0048320</b>

NAME	Product code
LP 20 Filter + purge	<b>P0048321</b>
BWT-PROPYL 10 micron 10" cartridge - Box of 6	<b>PK0098182N</b>
BWT-PROPYL 10 micron 20" cartridge - Box of 6	<b>PK0098222N</b>
BWT-PROPYL 1 micron 10" cartridge - Box of 6	<b>PK0098180N</b>
BWT-PROPYL 1 micron 20" cartridge - Box of 6	<b>PK0098220N</b>
BWT-CARBON 10" cartridge - Box of 6	<b>PK0093146N</b>
BWT-CARBON 20" cartridge - Box of 6	<b>PK0093147N</b>

# BWT PERMAQ COMPACT 100

COMPACT REVERSE OSMOSIS UNIT



## PRODUCT PLUSES

- High tech
- Stand-alone operation
- 100 L Storage tank



## OPERATION

BWT PERMAQ COMPACT reverse osmosis units are compact reverse osmosis water production units.

They convert potable water into pure water meeting the most technical requirements.

The reverse osmosis unit has a high pressure pump that forces the water through a membrane; the undesirable elements in the water are eliminated and the resulting permeated water can be used for various applications.

The permeate yield is higher than 80% (for softened water)

BWT PERMAQ COMPACT reverse osmosis units are ready for use on site.

BWT PERMAQ COMPACT 100 is available in 6 models from 50 L/h to 300 L/h.

## APPLICATIONS

BWT PERMAQ COMPACT reverse osmosis units are designed for applications that require de-mineralised water quality: air conditioning, industrial processes, washing, steaming, autoclaves, printing, laboratories, etc.

## STANDARD EQUIPMENT

PERMAQ COMPACT 100 osmosis units are delivered complete with:

- a full protective casing
- a 100 L de-mineralised water storage tank
- a distribution pump
- a pressurisation tank
- all the internal and control connections
- a built-in 5 micron filter

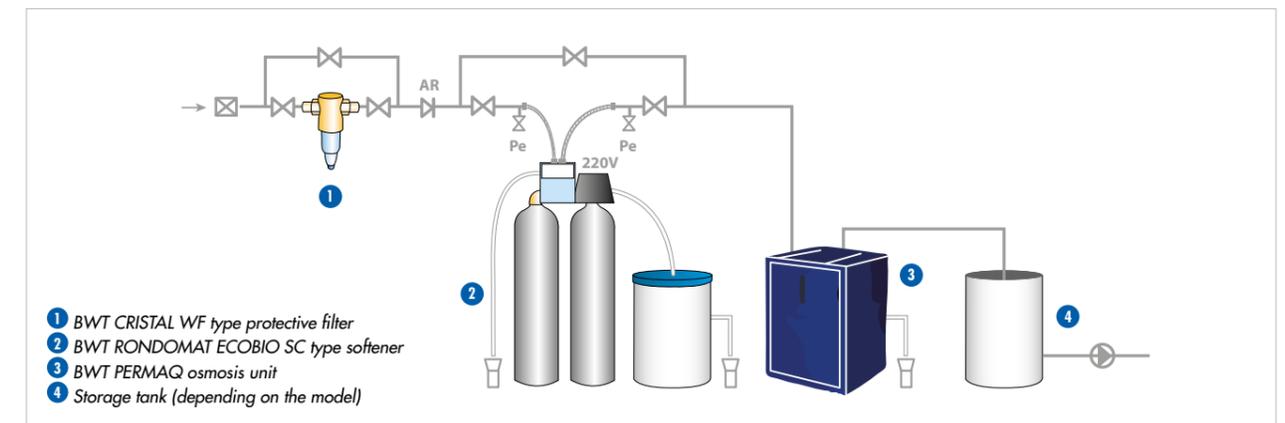
→ Flow rate: 50 to 300 L/h

## TECHNICAL SPECIFICATIONS

TYPE		111	112	113	114	115	116
<b>TECHNICAL SPECIFICATIONS</b>							
Permeate	L/h	50	100	150	200	250	300
Salt retention rate*	%	95	95	95	95	95	95
Permeate yield*	%	40 to 80					
Number of membranes		1	2	3	4	5	6
Raw water inlet connection	inches	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
Concentrate outlet connection		Rilsan 10 mm					
Permeate outlet connection	inches	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Min/max service pressure	bars	2/7	2/7	2/7	2/7	2/7	2/7
Max water temperature	°C	35	35	35	35	35	35
Weight in service	kg	150	150	150	150	150	150
Product code		P0004911	P0004912	P0004913	P0004914	P0004915	P0004916
<b>SIZE SPECIFICATIONS</b>							
Width Height	mm	850	850	850	850	850	850
Length	mm	580	580	580	580	580	580
Depth	mm	580	580	580	580	580	580

\* Depends on the raw water quality

## INSTALLATION RECOMMENDATIONS



## ACCESSORIES AND CONSUMABLES

NAME	Product code
LP 10 Filter + purge	P0048320
LP 20 Filter + purge	P0048321
BWT-PROPYL 10 micron 10" cartridge - Box of 6	PK0098182N
BWT-PROPYL 10 micron 20" cartridge - Box of 6	PK0098222N
BWT-PROPYL 1 micron 10" cartridge - Box of 6	PK0098180N
BWT-PROPYL 1 micron 20" cartridge - Box of 6	PK0098220N
BWT-CARBON 10" cartridge - Box of 6	PK0093146N
BWT-CARBON 20" cartridge - Box of 6	PK0093147N

# 6

## WHY USE BWT SERVICES?

Water treatment is only optimal when it is sustainable, sure and always 100% effective.

This is why BWT offers a set of specific services, guaranteeing performance.



# SERVICES

## → By accompanying you, BWT

provides you with advice, safety and the guarantees you need for your water treatment issues and installations.

- BWT SERVICES **86**
- BWT CONTRACTS AND COMMISSIONING **87**
- ANALYSIS SERVICES **88**
- DOMESTIC HOT WATER DISINFECTION SERVICES **89**

# BWT SERVICES

By your side, our BWT engineers and technicians accompany you in all the phases of your project to bring you:

- optimised interventions by qualified and recognised professionals
- accompaniment throughout your equipment's life cycle
- personalised contracts adapted to your needs
- advice and expertise for your water treatment issues
- permanent technical assistance, at your disposal for the sustainability, optimisation and evolution of your installations



# BWT CONTRACTS AND COMMISSIONING

## BWT SERVICE CONTRACTS

BWT can offer standard contracts or contracts specially adapted to your water treatment installations and your needs.

→ Get in touch with your BWT sales contact

## COMMISSIONING YOUR INSTALLATION

A BWT technician will travel to:

- check the installation and connection to services
- commission and configure the installation according to needs
- train to operate, manage and maintain your appliance

## 2016 FIXED PRICE COMMISSIONING

	Fixed price ex. VAT
<b>BWT DOSING UNIT</b>	<b>150.00 €</b>
<b>FILTERS</b> BWT 1000 to 1500	<b>190.00 €</b>
<b>SOFTENERS</b> BWT EC / BWT 5000 / BWT 6000 / BWT 7050 to BWT 7125	
<b>ANTI-SCALE</b> BWT AQA TOTAL Community	
<b>UV TREATMENT</b> BWT BIOSTIL SI	<b>290.00 €</b>
<b>SOFTENERS</b> BWT 7150 to 7200	
<b>SOFTENERS</b> BWT 8150 to 8300 and BWT 9000	
<b>SOFTENERS</b> BWT ECOBIO	<b>350.0 €</b>
<b>OSMOSIS UNIT</b> BWT PERMAQ	
<b>CHLORINATION</b> BWT ECOBOX ECS / BWT ECOREDOX / BWT MULTICONTROL	<b>490.00 €</b>
<b>SOFTENERS</b> BWT 8400 to 81250	
<b>FILTERS</b> BWT 2000 and 2500	

For duplex appliances (except BWT ECOBIO), apply the following formula:

$(2 \times \text{Fixed price}) - 100$

The prices given above may be increased depending on the working conditions

(access - work site specifics, etc.)

Applicable on 1<sup>st</sup> January 2016

Code P00MESCT

\*Prices valid in Metropolitan France unless changed. See general sales terms and conditions

## → A team of professionals for adapted services

- National (France) and international coverage with over **130 specialised technicians, engineers and assistants**
- A central and a mobile **laboratory**
- Approved **training centres** offering modules adapted to your needs
- A **stock of spare parts** and consumables (central or regional stock)

# ANALYSIS SERVICES



### The BWT integrated laboratory in St Denis:

- 9 people
- Advanced analysis resources, with over 50 analysis parameters
- 50,000 samples per year
- ISO 9001 certified

### BWT laboratory services:

The BWT laboratory processes occasional analyses, samples for on-site audits, pre-paid analysis kits and analysis contracts.

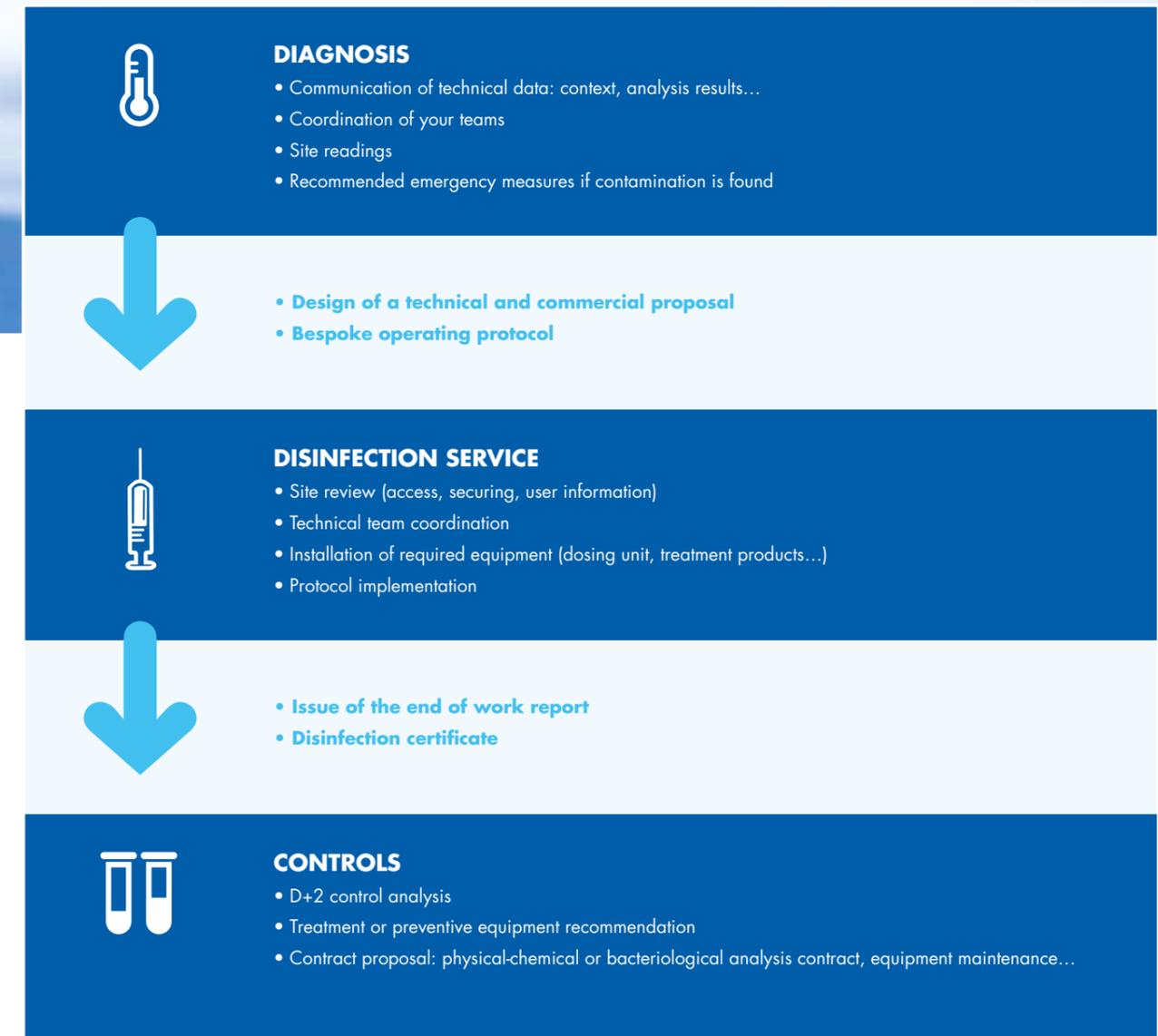
### BWT ANALYSIS SERVICES

- Analysis of **air conditioning circuits** (heating water or iced water - standard and bespoke)
- Analysis of **domestic hot water circuits**
- Analysis of **heat transporting fluids** (glycol water – freezing point, glycol type, alkaline reserve, corrosion protection)
- Analysis of **technical water** (cooling circuits, steam production, process)
- **Ion balances**
- Analysis of **ion exchange resins** (softening, decarbonation, demineralisation)
- Analysis of **deposits and cleaning advice**
- Analysis of **corrosion samples**
- **Digital video-endoscopy**
- **In-situ monitoring, trace searches** (silica, oxygen, sodium)

# DOMESTIC HOT WATER DISINFECTION SERVICES

### BWT CAN ACCOMPANY YOU WITH ITS BESPOKE DISINFECTION SERVICES TO GUARANTEE YOU:

- Risk control
- Good technical practices
- You are given monitoring documentation and an end of operation report fully compliant with applicable regulations



## 1. GENERAL

**1.1** - The present general business terms and conditions apply to all ongoing contractual and pre-contractual relations between BWT France and its customers over and above the special terms and conditions that might have been concluded between the two.

**1.2** - Any derogation to the present general terms and conditions must be explicitly accepted by ourselves in writing.

**1.3** - Documents, catalogues, advertising material and prices not explicitly mentioned in the special terms and conditions are provided as a guide only and cannot bind us.

## 2. CONTRACT FORMATION

### 2.1 - Placing an order

The formation of a contract depends wholly on the explicit, written acceptance of the order by BWT France. Acceptance of our offers or estimates by the customer implies their agreement with the present terms and conditions.

Any order of a total of less than 150 € excluding VAT will be increased by management administrative costs of the sum of 17 €.

Except where otherwise stipulated, offers and estimates remain valid for a period of one month from the date of their mailing.

### 2.2 - Modifications to contract

The order includes precisely and only the equipment specified in the estimate.

For additional supplies, prices and new deadlines are specifically negotiated between BWT France and the Customer. In no case whatsoever can the terms and conditions for additional supplies be prejudicial to those of the main order.

Any modification of orders or contracts requested by customers is subject to our explicit and prior acceptance and must be the subject of an amendment.

### 2.3 - Cancellation

The order expresses the Customer's irrevocable consent they cannot therefore cancel it except in the case of our prior and explicit agreement. In that case, the Customer shall indemnify us for all costs incurred and for any direct or indirect consequences resulting therefrom. In all cases, the lump sums and payments already paid to us shall be deemed our entitlement.

## 3. CHARACTERISTICS AND STATUS OF ORDERED PRODUCTS

Products delivered comply with the technical regulations applicable to them and to those technical standards for which we have explicitly declared the compliance of the product.

We reserve the right at any time to make any modifications with respect to layout, shape, dimensions or material to our devices, machines and machine elements described in our catalogues or brochures.

Safety data sheets for chemical products are available on the internet at the following address: [www.msds-sys.net](http://www.msds-sys.net). You can consult them on line or have them forwarded to you by fax or email. The NAME is your supplier's, the search uses the product code or a part of its designation.

The customer is responsible for operating the product under the operating conditions set out in the specification sheet and in compliance with current safety and environment laws applicable at the site of operations and with acknowledged rules of technology in their activity. It is incumbent on the Customer to draw up a specification sheet appropriate to their technical requirements and if necessary to make sure of the appropriateness of the product for the planned application.

## 4. INTELLECTUAL OWNERSHIP AND KNOW-HOW OF PRODUCTS AND DOCUMENTS

All intellectual property rights in delivered products and in performed works, along with know-how incorporated in the forwarded documents, remain our exclusive property.

## 5. DELIVERY, CARRIAGE, VERIFICATION OF PRODUCTS

### 5.1 - Delivery terms and conditions

Except where otherwise stated, supplies are considered to be delivered on an ex-works or ex-warehouse basis. The delivery is made, either by direct forwarding to the customer, by notice of availability for collection, by delivery in our plants or warehouses to a forwarding agent or carrier designated by the customer or failing that designation, one selected by BWT France.

Where the Customer has ordered the carriage and accepts the cost thereof, the Customer shall bear the cost of all pecuniary consequences of any direct action taken against us by the carrier.

In the event of the Customer not taking delivery, without recourse to an injunction, the latter shall bear the cost of, and accept the risks for, the storage of the supplies. In spite of that the scheduled payment dates cannot be postponed.

### 5.2 - Delivery deadlines

The agreed delivery deadline is an important item to be specified in the contract as well as its characteristics (availability date, acceptance submission deadline, delivery deadline, legal acceptance deadline, etc.). The stipulated deadlines are however given as a guide only and can be questioned where circumstances out of our control occur such as are defined in article 6. Delays can under no circumstances whatsoever justify the cancellation of an order or contract.

Delivery lead times run from the latest of the following dates: the date of the acknowledgement of receipt of the order, the date on which BWT France received information, down payment or supplies that the customer had undertaken to forward.

### 5.3 - Carriage – customs clearance - insurance

The Customer is responsible for and bears the cost of all carriage, insurance, customs clearance, handling and on-site delivery operations, and it is incumbent on them to check consignments on arrival and if necessary undertake proceedings against the carrier, even if the consignment was carriage paid.

Where responsibility for carriage is ours, shipping terms are carriage due at the lowest possible rate, except where otherwise requested by the Customer, in which case any additional costs shall be passed on to the Customer.

## 6. CASE OF FORCE MAJEURE

Neither of the parties of the present contract can be held responsible for their lateness or failure to perform any of the obligations under which they are bound with respect to the contract if that lateness or failure results from the direct or indirect effect of any case of force majeure in the sense wider than that understood by French case-law, such as:

- occurrence of a natural disaster
- earthquake, storm, fire, floods, etc.

- conflicts, war, terrorist attacks
- labour dispute, full or partial strike at the Supplier's or Customer's
- labour dispute, total or partial strike at suppliers, service providers, transporters, postal services, public services, etc.
- mandatory injunction by public authorities (import prohibition, embargo)
- work accidents, broken machines, explosions

## 7 - PRICING

Our prices are those applicable when the order is confirmed. They are in Euros, excluding customs duties, packed and ex-our main warehouse, except where special provisions are stipulated in the contract. They are invoiced according to the terms and conditions of the contract.

For export orders our prices are quoted ex-works Saint-Denis.

Possible discounts are set out in the special terms and conditions of sale specific to the market segment in question such as were set out or likely to be at the request of the Customer.

Prices correspond exclusively to the products and services specified in the offer.

## 8. PAYMENT

### 8.1 - Methods of payment

Payment terms and conditions are defined in the special terms and conditions. However, payments shall be made at the latest on the 60th day following issue of our invoice.

In the case of deferred payment, only the settlement of the payment at the agreed date constitutes payment, the mere handing over of a commercial paper or cheque does not do so. The payment by cheque of a down payment of 30 % may be required of the purchaser in the case of a major order.

In the case of off-invoice discount for anticipated payment, (limited to 0.5 % per month) the amount of deductible VAT must be reduced by the sum of the VAT pertaining to the discount.

In the case of payment by draft, the latter must be returned with acceptance within 7 days of its mailing.

### 8.2 - Late payment

Any late payment shall generate the following from the first day late:

- application of late payment interest equal to three times the legal interest rate,
- application of a fixed indemnity for debt collection costs of 40 Euros,
- when the debt collection costs incurred are greater than the indemnity amount, an additional indemnity on presentation of documentary proof.

### 8.3 - Payment compensation

The Customer undertakes not to conduct any illegal ex-officio debiting or crediting, not to invoice us any amount that would not have been explicitly recognized by BWT France by way of liability.

Any ex officio debit will constitute an unsettled account and shall give rise to the application of provisions in article 8.2 dealing with late payments. However, the parties reserve the right to have recourse to legal or contractual compensation for debt.

### 8.4 - Reservation of title - Risk transfer

We retain full ownership of assets forming the subject of the contract up to the effective payment of the full price plus any additional costs. Default of payment at any one of the scheduled payment dates may lead to a claim for those assets. Nevertheless, as from the delivery date, the Customer assumes the risk for the loss of, or deterioration to, those assets along with the liability for damages they could result in.

In the event of exercising that claim, the advance payments that have already been paid will be retained definitively by BWT France by way of indemnity, without prejudice to the possibility of their obtaining full compensation for the harm caused to the company.

## 9. WARRANTY AND LIABILITY

### 9.1 - Warranty

We undertake to correct any functional fault derived from a fault in design, materials or performance (including assembly if that operation is assigned to us), within the limits of the provisions below. Our obligation is not applicable in the case of a fault arising either from materials supplied by the Customer, or by a design imposed by the latter.

Our warranty is limited to the repair and replacement on site or on our premises of the product or element acknowledged as being defective. Eventual carriage costs are borne by the Customer.

That commitment, except where otherwise specifically stated, only applies to faults that become apparent during a period defined by applicable legislation (warranty period).

Faults and deterioration caused by incorrect assembly or handling, incorrect maintenance, abnormal use or unplanned modifications are excluded from this warranty.

Replacement parts or repairs caused by the normal wear of the equipment, by deterioration or accidents caused by negligence, supervision or routine maintenance faults and incorrect use of the equipment are also excluded from warranty cover.

In order to be able to benefit from those provisions, the Customer must immediately advise us in writing of the defects they attribute to the equipment and must provide all necessary documentary support to prove those claims. They must allow us all facilities to proceed with the verification of those defects and to correct them furthermore they must refrain, except with our explicit consent, from carrying out the repair themselves or having it carried out by a third party.

The warranty period runs from the date of delivery as defined in Article 5.2 above.

### 9.2 - Limits to Supplier liability

Our liability shall be limited to material damage directly suffered by the Customer resulting from faults attributable to us in the performance of the contract.

Under no circumstances whatsoever shall we be bound to compensate for immaterial or indirect damage such as: operating losses, profit losses, opportunity losses, commercial harm, loss of earnings.

## 10. INSURANCE

Since risk by explicit agreement is transferred to the Customer at delivery within as defined in article 8.4, they undertake, from that time, to take out an insurance policy covering the equipment. We may at any time, request certificates for those guarantees of the Customer.

## 11. DISPUTE

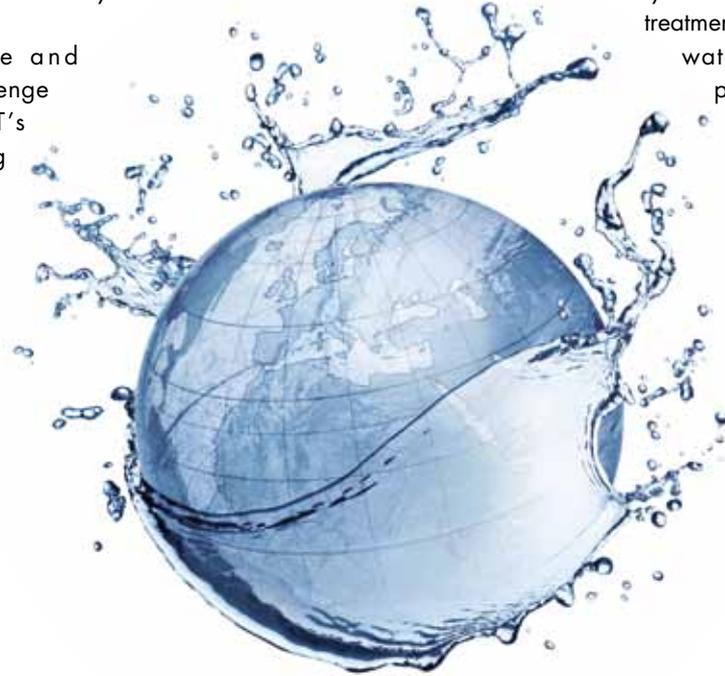
The parties undertake to attempt to settle their differences out of court before referring to the competent court.

Failing an out of court settlement, all disputes relative to the performance or interpretation of these general sales terms and conditions shall be of the exclusive jurisdiction of the Bobigny courts, even on appeal and in the event of multiple defendants, and only French law shall be applicable.

# BWT — The group

The Best Water Technology group was created in 1990. Today it is the European water treatment leader, with 3,600 employees spread over 25 countries, including on other continents. BWT has also built a solid network of partner companies, distributors, installers, decision makers, service providers, industrials, etc. Thanks to which BWT's presence is not only defined by its international sites. We also undertake to provide increasing proximity, reactivity and availability.

Water is everywhere and constitutes a major challenge for our societies. BWT's proven and innovating solutions meet these challenges by proving their effectiveness on a daily basis. They bring their benefits to a building water inlet or to an industrial process; this is what we call the "Entry point". BWT has also developed products that act at the exact point



where the water is drawn; this is the "Point of use".

Within BWT, Research and Development teams continuously work on new concepts, with the prime objective of offering our clients solutions that are both ecological and economic. Energy consumption and CO<sub>2</sub> emission control is at the core of the BWT mission, and we must further guarantee maximum hygiene and safety for people's daily contacts with water. This is why BWT has multiplied innovations in the treatment of air conditioning water circuits, water for human consumption and process water.

This is all summed up by our slogan: BWT – For You and Planet Blue. It is up to us to take this ecological, economic and social responsibility to provide our clients with the best products and services in all domains of water treatment, to contribute in this way to effectively protecting the resources of our Blue Planet.



For You and Planet Blue.

**Your sales contact:**