



CATALOGUE

2016/2017



## PROCESS WATER

- RAW WATER
- REVERSE OSMOSIS WATER
- DISTILLED WATER
- NEUTRALISATION
- POOLS & PONDS
- INDUSTRIAL UTILITIES

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 AIR CONDITIONING WATER

Heating water, iced water and closed circuits

### 3. PROCESS WATER

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



*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 **3,600 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.*

Dominique Boucly  
Managing Director

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

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## RAW WATER

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## REVERSE OSMOSIS WATER

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## SERVICES

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# BWT, ALL THE WATER TREATMENT SOLUTIONS



→ 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



SOFTENING, FILTRATION, LIMESCALE, CONDITIONING, DISINFECTION, ETC.

# 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

## 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



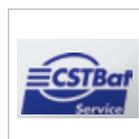
ISO 9001: 2008 n° 1994/2604: AFNOR has certified that our water treatment quality management system is compliant with the standard.



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.



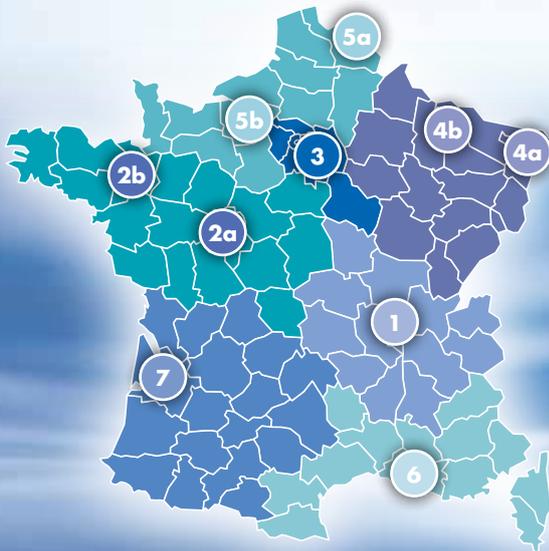
Our BWT residential softeners, manufactured on our Saint-Denis BWT production site are certified "Guaranteed French Origin". The guarantee that the products bearing the logo were made in France.



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



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→ **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.

# 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.**



## → 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

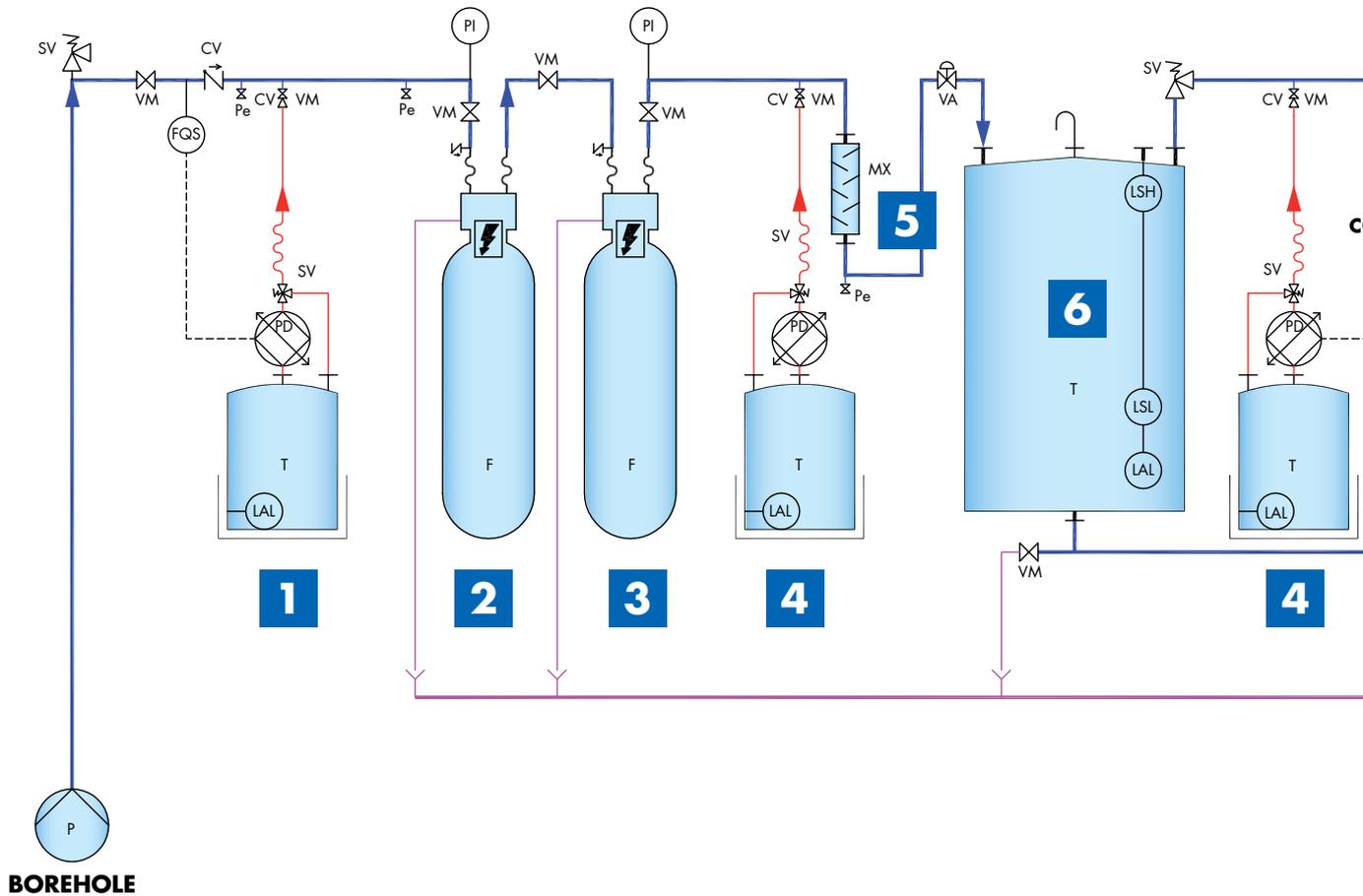
Have a chat with your sales contact or check out the web site [www.bwtprescription.fr](http://www.bwtprescription.fr)

# WATER PRODUCTION

## RAW WATER AND BOREHOLE

### THE PROCESS AND COMPONENTS FOR RAW WATER AND BOREHOLE WATER PRODUCTION

Example not contractually binding

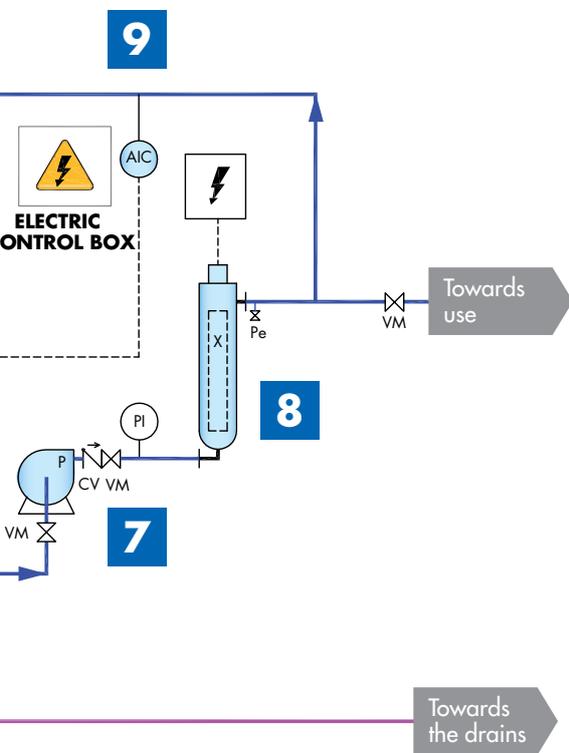


<b>P</b>	Pump
<b>CV</b>	Check valve
<b>T</b>	Tank
<b>PI</b>	Pressure gauge
<b>F</b>	Filter
<b>C</b>	Chlorine meter

<b>MX</b>	Mixer
<b>SV</b>	Relief valve
<b>LSL</b>	Low level
<b>LAL</b>	Alarm low level
<b>LSH</b>	High level
<b>VM</b>	Manual valve

<b>VA</b>	Automatic valve
<b>FQS</b>	Meter
<b>Pe</b>	Sample taking

# OLE WATER



- 1** Dosage - coagulation / flocculation **10**
- 2** Twin layer sand / neutralite / activated carbon filtering **16 / 17 / 18 / 20**
- 3** Manganese removal / iron removal filtering **20 / 22**
- 4** Dosage - chlorination **12 / 14**
- 5** Static mixer - on request
- 6** Storage tank - on request
- 7** Distribution rework - on request
- 8** Ultraviolet **26 / 28**
- 9** Multi-parameter analysers **24 / 25**

# DOSING UNIT

## COAGULATION FLOCCULATION



→ **Flow rate:** 1 to 9 L/h

### PRODUCT PLUSSES

- **Mandatory containment tank**
- **Highly reliable** electronic dosing pump
- **Complete and ready to connect**

### OPERATION AND APPLICATIONS

Coagulation and flocculation treatment is used to clarify water when its colloidal content is too high.

Coagulation neutralises the colloidal content and destabilises it through the addition of reagents.

Flocculation agglomerates these fine solid particles into flakes. They can then be eliminated using sand filtering.

These dosage units are designed to carry out the coagulation and flocculation steps.

They are supplied complete and ready to connect.

The choice of unit will depend on the type of installation to be treated and its flow rate.

All pump accessories are provided and included with the delivery.

### STANDARD EQUIPMENT

The complete and ready to connect dosing unit, including:

- the 140 L treatment tank
- the graduated dosing tank and digital display dosing pump with user friendly programming: simplified monitoring and operation
- the high reliability electronic dosing pump (stepping motor for dosage reliability at the lowest flow rates)
- injection accessories (suction screen, tubing and discharge piping, injection tube, etc.)
- the cable to couple to the transmitter meter
- the containment tank that is mandatory for all chemical storage, it is sized for your dosing unit and is part of the delivery: for fully compliant sites

## COMPLETE DOSING UNIT

Complete and pre-equipped, ready to connect units

### TECHNICAL SPECIFICATIONS

TYPE		DOSING UNIT MÉDO P9 + 140 L TANK + CONTAINMENT TANK	DOSING UNIT MÉDO XG6 + 140 L TANK + CONTAINMENT TANK	DOSING UNIT DDA 7 C + 140 L TANK + CONTAINMENT TANK
<b>TECHNICAL SPECIFICATIONS</b>				
Dosing flow	L/h	9	7.1	7.5
Discharge counter-pressure	bars	3	7	16
Injection cadence	Shots / minute	180	180	190
Volume per shot	mL	0.83	0.66	Adjusted
4-20 mA Input		no	yes	yes
BMS information		yes	yes	yes
Product code		<b>PK0027133</b>	<b>PK0027131</b>	<b>PK0027108C</b>

### ACCESSORIES AND CONSUMABLES

NAME	Product code
Coagulant BWT CM 208 - Container 24 kg/kg*	<b>P0007611A</b>
Flocculant BWT SN530F SAC: 25 kg/kg*	<b>P0007821A</b>
Containment tank for jerricans	<b>R0028061</b>
60 L / 125 L / 140 L reagent containment tank	<b>R0028011</b>
2 drum containment pallet 1300 x 700 x 445 mm - W: 22 kg - Load: 800 kg	<b>P0970664</b>
IBC XL 1050 L containment	<b>P0973267</b>
Hot water injection pipe	<b>P0028032</b>

\* Reagents given as an indication, to be validated after on site tests.

# DOSING UNIT

## DISINFECTION



### PRODUCT PLUSSES

- **Effective chlorine treatment** against bacteria
- **Simplified equipment sizing**
- **Easier treatment decisions**

### OPERATION AND APPLICATIONS

These dosing units are designed to chlorinate your cold water services and your processes.

They are supplied complete and ready to connect.

The choice of unit will depend on the type of installation to be treated, the chlorine concentration and the installation flow rate.

All accessories are available and included with the delivery, as well as the initial treatment charge: all that remains to select is the meter if the site does not have one.

It is advisable and recommended to use a chlorine analyser regulator of the BWT PROBOX type to guarantee the safety and accuracy of chlorine injections into the network.

### STANDARD EQUIPMENT

The complete and ready to connect dosing unit, including:

- the 140 L graduated treatment tank
- the high reliability digital display dosing pump and user friendly programming: simplified monitoring and operation
- injection accessories (suction screen, tubing and discharge piping, injection tube, etc.)
- the cable to couple to the transmitter meter
- the containment tank that is mandatory for all chemical storage, it is sized for your dosing unit and is part of the delivery: for fully compliant sites
- a first charge of 20 kg of liquid chlorine approved for water for human consumption

→ **Flow rate:** 1 to 60 L/h

## COMPLETE DISINFECTION DOSING UNIT

Complete pre-equipped and ready to connect units with liquid chlorine supplied (except METRIC 60)

### TECHNICAL SPECIFICATIONS

TYPE		DOSING UNIT MÉDO P1 + 140 L TANK + 1 BIB OF BWT DW 3 002 + CONTAINMENT TANK	DOSING UNIT MEDO XG6 + 140 L TANK + 1 BIB OF BWT DW 3 002 + CONTAINMENT TANK	DOSING UNIT DDA 7 C + 140 L TANK + 1 BIB OF BWT DW 3 002 + CONTAINMENT TANK	DOSING UNIT METRIC 60 + 200 L TANK + CONTAINMENT TANK
<b>TECHNICAL SPECIFICATIONS</b>					
Dosing flow	L/h	1	7.1	7.5	60
Discharge counter-pressure	bars	16	7	16	10
Injection cadence	Shots / minute	180	180	190	120
Volume per shot	mL	0.1	0.66	Adjusted	3.8
4-20 mA Input		no	yes	yes	yes
BMS information		yes	yes	yes	yes
Treatment	included	20 kg of BWT DW 3 002	20 kg of BWT DW 3 002	20 kg of BWT DW 3 002	-
Product code		<b>PK0027132C</b>	<b>PK0027131C</b>	<b>PK0027108CC</b>	<b>PK0002804</b>

### ACCESSORIES AND CONSUMABLES

NAME	Product code
BIB 20 kg of BWT DW 3 002	<b>P0008143BIB</b>
Containment tank for jerricans	<b>R0028061</b>
60 L / 125 L containment tank	<b>R0028011</b>
2 drum containment pallet 1,300 x 700 x 445 mm - W: 22 kg - Load: 800 kg	<b>P0970664</b>
IBC XL 1050 L containment	<b>P0973267</b>
Hot water injection pipe	<b>P0028032</b>

# ECO-MX NANO

## DISINFECTION BY ELECTROLYSIS



→ **Daily chlorine production:** 900 g

→ **Daily disinfectant volume:** 240 litres

→ **Daily treatment capacity at 1 ppm of chlorine:** 900 m<sup>3</sup>

## PRODUCT PLUSES

- **Plug'n'play** assembly and connection
- **Self cleaning system** electrode
- **High disinfectant power**
- Authorised for **food grade contact**
- **Disinfectant not classified** for health and the environment
- Minimum and **simplified** maintenance
- **Immediate** and on demand production of disinfectant solution according to needs.
- **No more handling or storage** of chemicals

## OPERATION

Using food grade salt, the BWT ECO-MX Nano generators produce a disinfectant at the point of use, eliminating delivery, storage and handling of hazardous chemicals.

The BWT ECO-MX solution can be injected directly from storage into the system to be treated and then measured on line using standard equipment (redox, ammeter).

The system is fully stand alone and requires neither complex installations nor connection to the drains.

## APPLICATIONS

The BWT ECO-MX Nano generator can produce a high power disinfectant on site, depending on demand. The applications it covers are multiple. These especially include:

- cleaning in place (reduced machine down time)
- cooling circuits (protection from legionellosis)
- potable water (sanitary disinfection)
- waste water (advanced oxidation)
- food industry process (fight against pathogen bacteria, reduction of THMs, chlorates, perchlorates and AOX)

## STANDARD EQUIPMENT

Complete system delivered with:

- the plug'n'play pre-treatment cartridge
- the built-in salt tank
- the electrolysis cell
- the connection hose
- the level sensor

And optionally:

- the disinfectant solution storage tank
- the injection system (dosing pump)
- the monitoring system (ORP, ammeter)

## TECHNICAL SPECIFICATIONS

TYPE		BWT ECO-MX Nano
<b>TECHNICAL SPECIFICATIONS</b>		
Content of produced FAC*	kg / day	0.90
Treatment capacity (at 1 ppm FAC)	m <sup>3</sup> of water / day	908
Flow rate of the produced solution (+/- 15 %)	L/h	10.2
Daily solution production	L/day	245
Salt consumption	kg / day	3.0
Solution FAC content	mg/L	4.0 ± 1.0
Supply pressure	bars	1 - 5
Raw water temperature	°C	10 - 27
Raw water TH without pre-treatment	°f	< 1
Temperature of the premises	°C	6 - 40
Voltage	V	220 Single phased
Salt quality		Compliant with EN 973 (type A) standard
Product code		<b>PK0029602</b>
<b>SIZE SPECIFICATIONS</b>		
Width	mm	813
Depth	mm	711
Height	mm	1,524

\* FAC: Free Available Chlorine

## ACCESSORIES AND CONSUMABLES

NAME	Product code
250 litre storage tank for ECO-MX Nano with built-in vent	<b>P0029562</b>
Pre-treatment cartridge for ECO-MX Nano	<b>P0029565</b>
Containment tank for P0029562 tank	<b>C0970712</b>
Fuse for ECO-MX Nano	<b>P0029561</b>
PE tubing for ECO-MX Nano	<b>P0029559</b>
PVC tubing for ECO-MX Nano	<b>P0029558</b>
PPE tubing for ECO-MX Nano	<b>P0029557</b>
PPE tubing for ECO-MX Nano brine	<b>P0029556</b>
TEST PRO (TH hardness analysis)	<b>P5445008</b>
Free / total CHLORINE KIT (colorimetry: 0-2.5 mg / L - 50 tests)	<b>C0904831</b>

## INSTALLATION RECOMMENDATIONS



# BWT 1 000 FILTER



## PRODUCT PLUSSES

- *Solid appliance*
- **Valve insensitive** to corrosion
- **Simple and user friendly** programming

## OPERATION AND APPLICATIONS

BWT 1000 filters are used to treat water for different purposes depending on the selected filtering medium:

- sand or multi-media filtering: entrapment of undesirable particles (according to their size) at the surface of the filtering medium
- activated carbon: entrapment of the organic compounds at the origin of the tastes and odours that alter the water
- neutralite: neutralisation of undesirable water acidity

BWT 1000 filters are used to treat water in many sectors of activity: industry, process, potable water, residential, etc.

## STANDARD EQUIPMENT

The BWT 1 000 filters:

- robust appliance with a valve that is insensitive to corrosion
- hydraulically controlled ABS valve
- control box with simple and user friendly programming
- chronometric programming: configurable autonomy
- operating reserve in the event of a power failure for more safety

→ **Flow:** 250 L/h to 2 500 L/h

## TECHNICAL SPECIFICATIONS

TYPE		1008 S	1010 S	1013 S	1008 N	1010 N	1013 N	1008 CA	1010 CA	1013 CA
<b>TECHNICAL SPECIFICATIONS</b>										
Coupling diameter	DN / inch	DN 25/1"	DN 25/1"	DN 25/1"						
Type of medium		Sand	Sand	Sand	Neutralite	Neutralite	Neutralite	Activated carbon	Activated carbon	Activated carbon
Max flow	L/h	1000	1800	2500	250	600	1000	300	750	1,200
Washing flow	L/h	600	1,000	1,600	600	1000	1,600	500	750	1,200
Min/max. dynamic pressure	bars	2/6	2/6	2/6	2/6	2/6	2/6	2/6	2/6	2/6
Min/max water temperature	°C	0/35	0/35	0/35	0/35	0/35	0/35	0/35	0/35	0/35
Product code		<b>P0003951</b>	<b>P0003952</b>	<b>P0003953</b>	<b>P0003967</b>	<b>P0003968</b>	<b>P0003969</b>	<b>P0003957</b>	<b>P0003958</b>	<b>P0003959</b>
<b>SIZE SPECIFICATIONS</b>										
Body diameter	mm	210	260	335	210	260	335	210	260	335
Total height	mm	1,290	1,540	1,540	1,290	1,540	1,540	1,290	1,540	1,540
Height from the ground to the I/O axis	mm	1,200	1,450	1,450	1,200	1,450	1,450	1,200	1,450	1,450
Service weight	kg	70	140	200	70	140	200	70	140	200

# BWT 1 500

## FILTER



### PRODUCT PLUSES

- A **simple and effective** filter
- **Automatic cleaning**
- **Several charges** possible

### OPERATION AND APPLICATIONS

BWT 1500 filters are used to treat water for different purposes depending on the selected filtering medium:

- sand or multi-media filtering: entrapment of undesirable particles according to their size at the surface of the filtering medium
- activated carbon: entrapment of the organic compounds at the origin of the tastes and odours that alter the water
- neutralite: neutralisation of undesirable water acidity

BWT 1500 filters are used to treat water in many sectors of activity: industry, process, potable water, etc.

### STANDARD EQUIPMENT

The BWT 1 500 filters:

- robust appliance with a valve that is insensitive to corrosion
- hydraulically controlled ABS valve
- control box with simple and user friendly programming
- chronometric programming: configurable autonomy
- operating reserve in the event of a power failure for more safety

→ **Flow:** 2.5 to 5 m<sup>3</sup>/h

### TECHNICAL SPECIFICATIONS

TYPE		1 500 S	1 500 CA	1 500 Neutralite
<b>TECHNICAL SPECIFICATIONS</b>				
Coupling diameter	DN / inch	DN 25 / 1"	DN 25 / 1"	DN 25 / 1"
Type of medium		Sand	Activated carbon	Neutralite
Max flow	m <sup>3</sup> /h	5.0	2.5	2.5
Washing flow	m <sup>3</sup> /h	3.0	3.0	3.0
Min/max. dynamic pressure	bars	2 / 6	2 / 6	2 / 6
Min/max water temperature	°C	0 / 35	0 / 35	0 / 35
Product code		<b>PK0001715</b>	<b>PK0001790</b>	<b>PK0001791</b>
<b>SIZE SPECIFICATIONS</b>				
Body diameter	mm	400	400	400
Total height	mm	1,907	1,907	1,907

# BWT FILTER 2 000

## FILTER



→ **Flow:** 2.2 to 6.5 m<sup>3</sup>/h

## PRODUCT PLUSSES

- A **robust** appliance with body / valves **insensitive to corrosion**
- **Back-washable filter**
- **Manual and automatic wash versions**
- **Chronometric programming**

## OPERATION AND APPLICATIONS

BWT 2000 filters are used to treat water for different purposes depending on the selected filtering medium:

- clarification of turbid water (= a high load of suspended matter) with two layers of filtering material combining quartz sand and anthracite to trap suspended particles in the entire thickness of the filtering bed
- activated carbon: entrapment of the organic compounds at the origin of the tastes and odours that alter the water

BWT 2000 filters are used to treat water in many sectors of activity: industry, process, potable water, irrigation, etc.

## STANDARD EQUIPMENT

The BWT 2000 medium filter is delivered complete and ready to install with:

- the polyester body, insensitive to corrosion
- the set of 6 automatic or manual valves
- the control box used to trigger the programmable timing of back-wash phases
- the hydraulic distributor
- the medium selected for the application: filtering, neutralisation, iron removal, odour removal

Chronometric programming using a built-in timer or by pressure difference: filter autonomy.

## TECHNICAL SPECIFICATIONS

TYPE		2,053	2,061	2,076	2,091
<b>TECHNICAL SPECIFICATIONS</b>					
Coupling diameter	DN / inch	40/1"1/2	40/1"1/2	40/1"1/2	40/1"1/2
Max flow (at 10 m/h)	m <sup>3</sup> /h	2.2	2.9	4.5	6.5
Rinsing flow (single layer)	m <sup>3</sup> /h	6	7	11	16
Min/max. dynamic pressure	bars	1.5 - 7	1.5 - 7	1.5 - 7	1.5 - 7
Maximum water temperature	°C	35	35	35	35
Load on ground	kg	450	750	1,200	1,600
Manual code		<b>PK0003900</b>	<b>PK0003902</b>	<b>PK0003904</b>	<b>PK0003908</b>
Automatic code		<b>PK0003901</b>	<b>PK0003903</b>	<b>PK0003905</b>	<b>PK0003909</b>
Twin layer charge code		<b>PK0003100</b>	<b>PK0003104</b>	<b>PK0003108</b>	<b>PK0003112</b>
Activated carbon charge code		<b>PK0003102</b>	<b>PK0003106</b>	<b>PK0003110</b>	<b>PK0003114</b>
<b>SIZE SPECIFICATIONS</b>					
Body diameter	mm	555	610	770	930
Total filter height	mm	1,920	2,165	2,235	2,310
Input/output axis	mm	1,100	1,100	1,100	1,100

# BWT FILTER 3 000

## FILTER



### PRODUCT PLUSSES

- A **robust** appliance with body / valves **insensitive to corrosion**
- **Back-washable filter**
- **Automatic filter**

### OPERATION AND APPLICATIONS

BWT 3000 filters are used to treat water for different purposes depending on the selected filtering medium:

- clarification of turbid water (= a high load of suspended matter) with two layers of filtering material combining quartz sand and anthracite to trap suspended particles in the entire thickness of the filtering bed
- activated carbon: entrapment of the organic compounds at the origin of the tastes and odours that alter the water

BWT 3000 filters are used to treat water in many sectors of activity: industry, process, potable water, irrigation, etc.

### STANDARD EQUIPMENT

The BWT 3000 medium filter is delivered complete and ready to install with:

- the polyester body, insensitive to corrosion
- the top valve
- the control box used to trigger the programmable timing of back-wash phases
- the medium selected for the application: filtering, neutralisation, iron removal, odour removal

→ **Flow:** 8 to 21 m<sup>3</sup>/h

## TECHNICAL SPECIFICATIONS

TYPE		3,055	3,061	3,077	3,093
<b>TECHNICAL SPECIFICATIONS</b>					
Coupling diameter	DN / inch	50 / 2	50 / 2	50 / 2	50 / 2
Max flow	m <sup>3</sup> /h	8	11	17	21
Rinsing flow (single layer)	m <sup>3</sup> /h	6	7	11	16
Min/max. dynamic pressure	bars	1.5 - 7	1.5 - 7	1.5 - 7	1.5 - 7
Maximum water temperature	°C	35	35	35	35
Load on ground	kg	450	750	1,200	1,600
Filter code		<b>BK0003055</b>	<b>BK0003061</b>	<b>BK0003077</b>	<b>BK0003093</b>
Sand charge code		<b>PK0003202</b>	<b>PK0003212</b>	<b>PK0003222</b>	<b>PK0003232</b>
Activated carbon charge code		<b>PK0003203</b>	<b>PK0003213</b>	<b>PK0003223</b>	<b>PK0003233</b>
Twin layer charge code		<b>PK0003201</b>	<b>PK0003211</b>	<b>PK0003221</b>	<b>PK0003231</b>
Iron removal charge code		<b>PK0003206</b>	<b>PK0003216</b>	<b>PK0003226</b>	<b>PK0003236</b>
Neutralite charge code		<b>PK0003204</b>	<b>PK0003214</b>	<b>PK0003224</b>	<b>PK0003234</b>
Manganese removal charge code		<b>PK0003205</b>	<b>PK0003215</b>	<b>PK0003225</b>	<b>PK0003235</b>
<b>SIZE SPECIFICATIONS</b>					
Body diameter	mm	555	610	770	930
Total filter height	mm	1,945	2,185	2,345	2,455
Input/output axis	mm	1,675	1,915	2,075	2,185

# BWT 1010 IRON REMOVAL FILTER

## FILTER



→ **Flow:** 0.5 to 2.4 m<sup>3</sup>/h

## PRODUCT PLUSES

- **Better value for money**
- **Compact model**
- **Automatic washing using a double washing cycle** (co-current rinsing)

## OPERATION AND APPLICATIONS

The BWT 1010 IRON REMOVAL filter delivers water that has been partially cleansed of iron and manganese thereby protecting your installation equipment.

Thanks to its medium, the BWT 1010 IRON REMOVAL filter oxidises the iron and manganese and makes it possible to recover the iron oxides thus formed.

The BWT 1010 IRON REMOVAL filter is fully automated, simple and easy to use.

### Note:

The recommendation of a BWT 1010 IRON REMOVAL filter may require a suitable study of the water quality and the site, whatever the application.

Contact your regional BWT branch to get useful advice.

### Precaution:

To correctly treat water, it must be subjected to an analysis showing at least the following:

- the maximum iron (Fe) content
- the maximum manganese (Mn) content
- the acidity level (pH)

NOTE: the minimum authorised iron content for potable water is 0.2 mg/L.

## STANDARD EQUIPMENT

- A complete filter equipped with: a valve, a body, a charge
- An injected Noryl hydraulic control block with electronic control box
- The glass fibre reinforced polyester body and ABS or Noryl control block, both insensitive to corrosion
- A single medium

The medium is a grainy filtering substance used as a catalyst to increase the oxidation reaction of iron and manganese dissolved in the water: the compounds thus formed precipitate and can be filtered.

The BWT 1010 IRON REMOVAL medium is not consumed by the reaction and can be regenerated by loosening and washing.

The washes are carried out at a selected time for a given duration and a frequency in days.

## TECHNICAL SPECIFICATIONS

TYPE		1010 IRON REMOVAL
<b>TECHNICAL SPECIFICATIONS</b>		
Coupling diameter	DN / inch	DN 25 / 1"
Max flow	m <sup>3</sup> /h	2.4
Rinsing flow	m <sup>3</sup> /h	1.5 to 2
Min/max. dynamic pressure	bars	2 to 6
Fe / Mn reduction rate	%	99 %*
Maximum water temperature	°C	35
Load on ground	kg	140
Packaging	mm	41 x 31 x 138
Product code		<b>P0003978</b>
<b>SIZE SPECIFICATIONS</b>		
Body diameter	mm	260
Total filter height	mm	1,540
Input/output axis	mm	1,450

Determine the hardness of your water Maximum cumulated Iron and Magnesium rate: 5 ppm

# BWT PROBOX

## ANALYSER REGULATOR



### → Multi-parameter analysis

#### CHAMBERS AND SENSORS (SELECTION)

NAME	Product code
<b>BOX</b>	
PROBOX system	<b>P0029050</b>
<b>CHAMBER (SELECTION)</b>	
Measurement chamber 1 oxidant sensor	<b>P0029114</b>
Measurement chamber 1 pH	<b>P0029112</b>
Measurement chamber 1 pH + 1 oxidant	<b>P0029111</b>

#### 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

NAME	Product code
<b>SENSOR (SELECTION)</b>	
PVC temperature sensor	<b>P0060057</b>
Stainless steel 45°C temperature sensor	<b>P0060068</b>
Stainless steel 80°C temperature sensor	<b>P0060069</b>
Standard 0.5 bar pH sensor	<b>P0060055</b>
Standard 6 bars pH sensor	<b>P0060056</b>
Free chlorine sensor 0-2 ppm	<b>P0060060</b>
Free chlorine sensor 0-10 ppm	<b>P0060059</b>
Active chlorine sensor 0-2 ppm	<b>P0060062</b>
Active chlorine sensor 0-10 ppm	<b>C0959553</b>
Total chlorine sensor 0-2 ppm	<b>P0060064</b>
Total chlorine sensor 0-10 ppm	<b>P0060066</b>
Chlorine dioxide sensor 0-2 ppm	<b>P0960515</b>
Chlorine dioxide sensor 0-10 ppm	<b>P0060067</b>

# BWT MULTICONTROL

## ANALYSER REGULATOR



### OPERATION AND APPLICATIONS

Water measurement using multiple parameters makes it possible to monitor and secure water quality, whether for establishments open to the public, healthcare establishments, leisure facilities, hotels or all industrial processes.

The BWT MULTICONTROL is a simple and user friendly analyser and regulator, providing up to 6 analysis inputs, with a wide range of sensors, different physical and chemical parameters to measure: temperature, pH, potential redox, conductivity, etc.

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

It is supplied as an option with all the connectors needed to install it.

### STANDARD EQUIPMENT

The BWT MULTICONTROL is a wall mounted analyser and regulator that is delivered ready to use with:

- the checking and transmission of multiple data on physical, chemical, and hydraulic water parameters
- pH, conductivity, flow rate and potential redox
- the possible addition of 6 checking functions
- data retrieval on an SD card
- PID regulation
- 230 V AC electric power supply
- the protection box
- the display and control panel
- the base unit with power supply, 2 digital inputs, 2 analogue outputs, 2 digital outputs

### → Multi-parameter analysis

TYPE	pH	1 x conductivity	2 x conductivity	1 pH + 1 conductivity
<b>TECHNICAL SPECIFICATIONS</b>				
Product code	P0077030	P0077031	P0077032	P0077033

### PH REDOX CONDUCTIVITY ACCESSORIES

NAME	Product code
pH sensor	P0005071
Redox sensor	P0005072
PT 1000 sensor	P0005070
pH + T° sensor holder (if required)	P0005073
Connection cable for redox or pH sensor	P0079358
Connection cable for PT 1000 sensor	P0079359
Sensor + conductivity sensor holder K=0.01 (T° included)	P0060300
Sensor + conductivity sensor holder K=1 (T° included)	P0060301

### CONNECTION ACCESSORIES

NAME	Product code
PVC DN 20 union fitting for pH or redox sensor	P0079250
PVC DN 20 union fitting for cond. sensor	P0079251
PVC DN 25 union fitting for pH or redox sensor	P0079252
PVC DN 25 union fitting for cond. sensor	P0079253
PVC DN 32 union fitting for pH / redox / cond sensor	P0079254
PVC DN 40 union fitting for pH / redox / cond sensor	P0079255
PVC DN 50 union fitting for pH / redox / cond sensor	P0079256
PVC DN 65 fitting collar for pH / redox / cond. sensor	P0048178
PVC DN 80 fitting collar for pH / redox / cond. sensor	P0048179

# BWT BIOSTIL UV

## COLD WATER UV TREATMENT



→ **3 models**

→ **Flow rates:** 1000 to 4,200 L/h

### PRODUCT PLUSSES

- **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 (UVC, 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 UVC 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

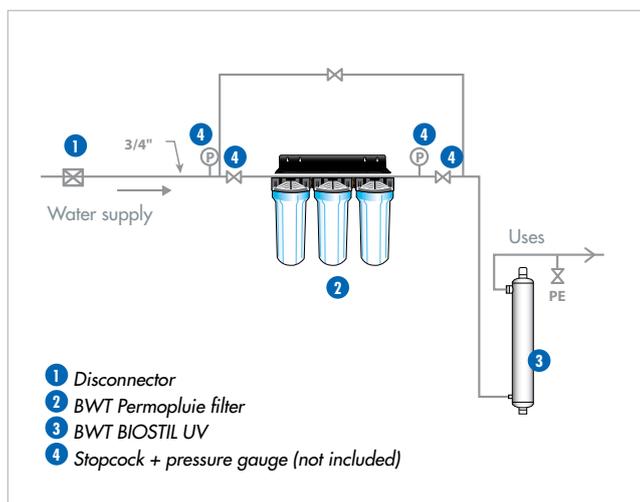
## TECHNICAL SPECIFICATIONS

TYPE		BWT BIOSTIL UV 1 000	BWT BIOSTIL UV 1,800	BWT BIOSTIL UV 2,700
<b>TECHNICAL SPECIFICATIONS</b>				
Max flow rate at a UV dosage of 25 mJ/cm <sup>2</sup> *	L/h	1,700	2,900	4,200
Max flow rate at a UV dosage of 40 mJ/cm <sup>2</sup> **	L/h	1000	1,800	2,700
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>
<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



## CARE

To guarantee to 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.

## ACCESSORIES AND CONSUMABLES

NAME	Product code
Rainwater filter	<b>P0003900</b>
Rainwater filter replacement kit	<b>P0003902</b>
UV lamp for BIOSTIL 1000	<b>P0004211</b>
UV lamp for BIOSTIL 1,800	<b>P0015622</b>
UV lamp for BIOSTIL 2,700	<b>P0004219</b>

# BWT BIOSTIL UV N/EU/HI

## HOT OR COLD WATER UV TREATMENT



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

### PRODUCT PLUSSES

- **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

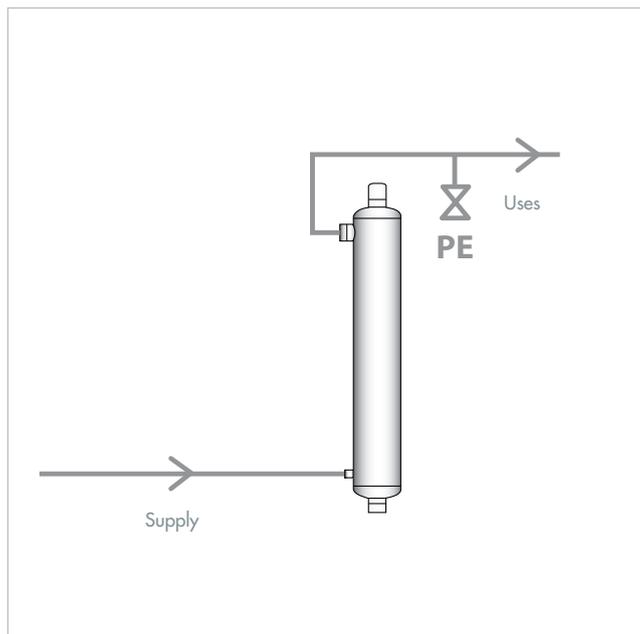
BWT BIOSTIL BWT UV generators come in 2 lines:

- 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

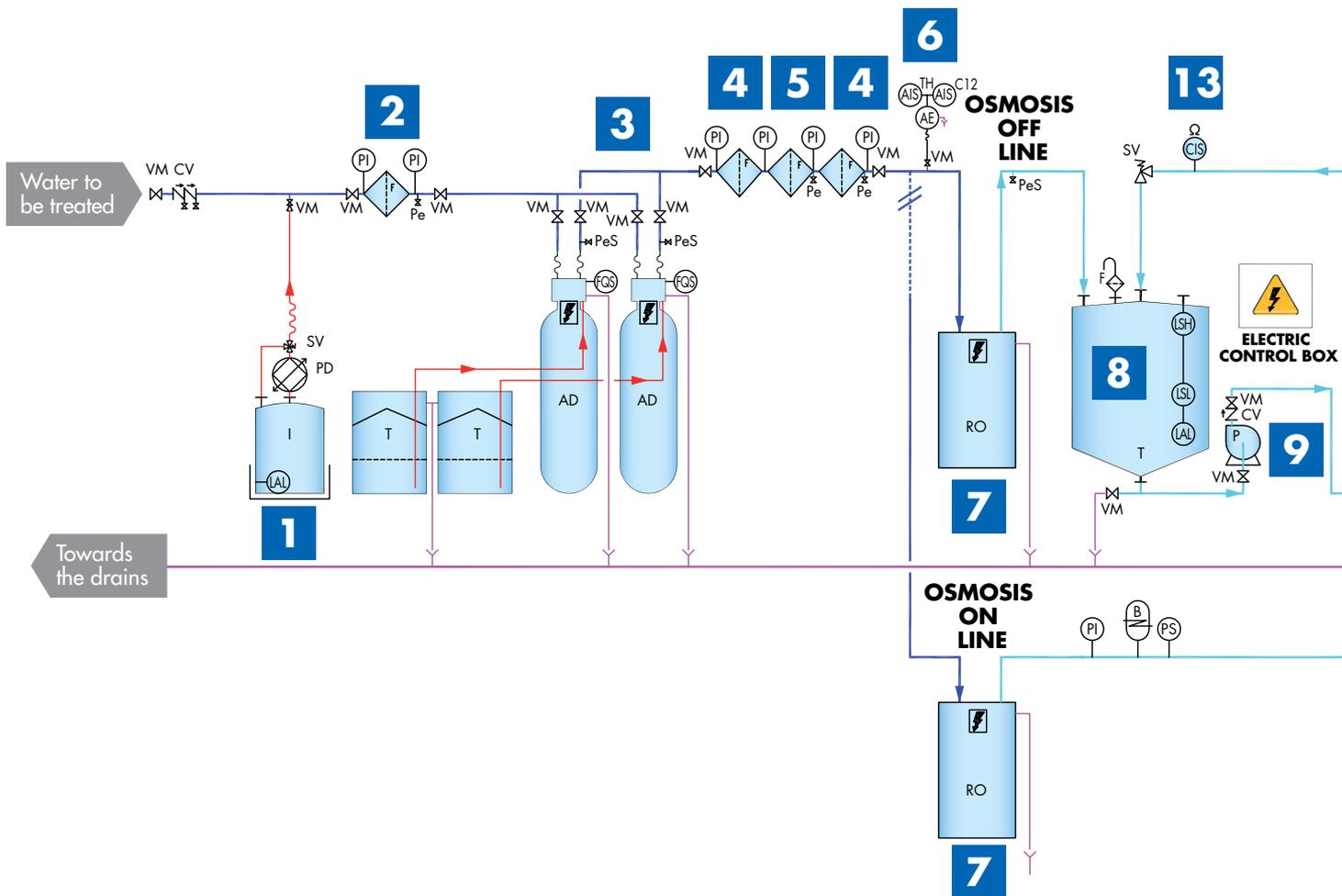
TYPE		UV17N	UV27N	UV40N	EU11 DN 32	EU11 DN 50	EU22	EU35	HI17	HI22
<b>TECHNICAL SPECIFICATIONS</b>										
Max flow rate	m <sup>3</sup> /h	15.7	47.2	182.0	4.3	6.8	22.0	46.0	38.0	68.0
Input/output connection	DN	50	80	150	32	50	80	100	80	100
Max. pressure	bars	10	10	10	10	10	10	10	10	10
Number of lamps		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 Biodosimetry test		yes	yes	yes	no	no	no	no	no	no
UV with sanitary compliance certificate		yes								
Product code		<b>P0002225</b>	<b>P0002226</b>	<b>P0002227</b>	<b>P0002205</b>	<b>P0002208</b>	<b>P0002206</b>	<b>P0002207</b>	<b>P0002209</b>	<b>P0002210</b>
<b>SIZE SPECIFICATIONS</b>										
Width	mm	186	376	510	128	128	420	556	308	359
Height	mm	1,275	1,187	1,370	1,013	1,310	1,165	1,191	1,350	1,380

## INSTALLATION RECOMMENDATIONS



# WATER PRODUCTION REVERSE OSMOSIS

## THE PROCESS AND COMPONENTS FOR REVERSE OSMOSIS WATER PRODUCTION

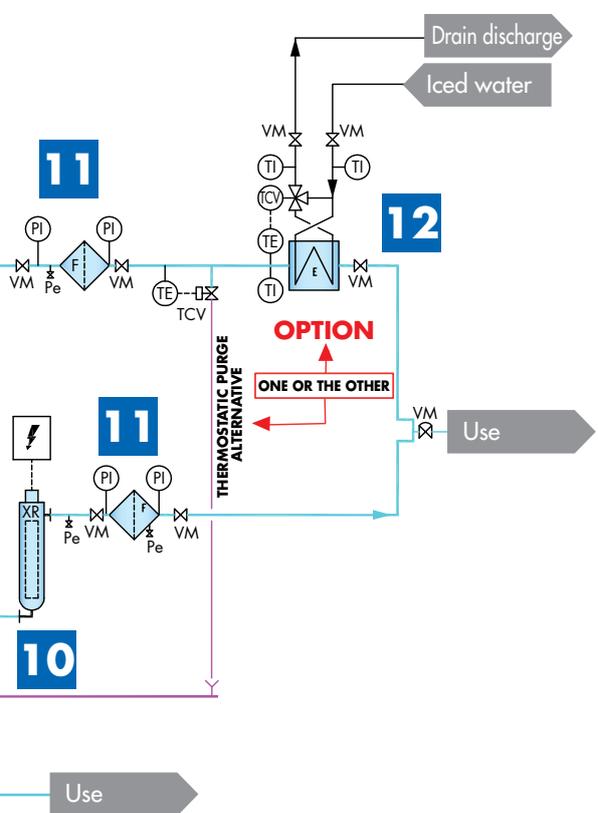


T Tank  
PI Pressure gauge  
F Filter  
AIS CL2 Chlorine meter  
AIS TH Th meter  
RO Osmosis unit  
LAL Low alarm level

LSH High level  
VM Manual valve  
VA Automatic valve  
FQS Meter  
Pe Sample taking  
XR Ultraviolet  
CV Check valve

LSL Low level  
P Pump  
SV Relief valve  
PS Pressure switch  
B Booster pump tank  
E Exchanger  
PD Dosing pump

# 2



<b>1</b> Dosage - disinfection	<b>12 / 14</b>
<b>2</b> Filtering	<b>32 / 44</b>
<b>3</b> Softening	<b>34 / 36 / 38</b>
<b>4</b> Micro-filtering	<b>40 / 41 / 42</b>
<b>5</b> Dechlorination	<b>41</b>
<b>6</b> Analysis	<b>45</b>
<b>7</b> Reverse osmosis	<b>46 / 48 / 50 / 52 / 54 / 56 / 58</b>
<b>8</b> Tank	<b>60</b>
<b>9</b> Booster rework - on request	
<b>10</b> Ultraviolet	
<b>11</b> Micro-filtering	<b>61</b>
<b>12</b> Cooler - on request	
<b>13</b> Conductivity meter	<b>25</b>

AD Softener  
 TCV Thermostatic valve  
 TE Thermostat  
 TI Thermometer

# 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 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

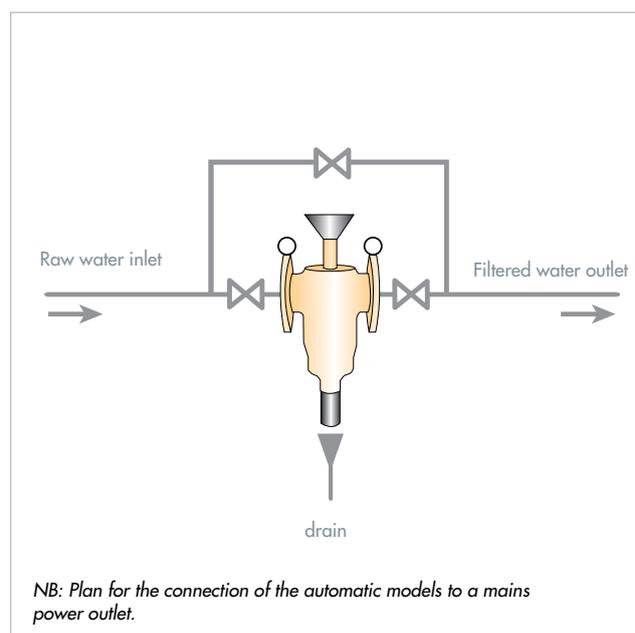
TYPE		INFINITY 3/4"	INFINITY 1"	INFINITY 1 1/4"	INFINITY 1 1/2"	INFINITY 2"
<b>TECHNICAL SPECIFICATIONS</b>						
Coupling diameter	DN / inch	DN 20 / 3/4"	DN 25 / 1"	DN 32 / 1 1/4"	DN 40 / 1 1/2"	DN 50 / 2"
Rated flow at $\Delta P = 0.2$ bar	m <sup>3</sup> /h	3.5	4.5	5	9	11
Threshold / filter density	$\mu\text{m}$	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		-	-	<b>P0010072</b>	<b>P0010073</b>	<b>P0010074</b>
Automatic version product code		<b>P0010075</b>	<b>P0010076</b>	<b>P0010077</b>	<b>P0010078</b>	<b>P0010079</b>
<b>SIZE SPECIFICATIONS</b>						
Width	mm	210	210	218	240	260
Height	mm	550	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 $\Delta P = 0.2$ bar	m <sup>3</sup> /h	22	36	85	100
Threshold / filter density	$\mu\text{m}$	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		<b>PK0033932A</b>	<b>PK0033933A</b>	<b>PK0033934A</b>	<b>PK0033935A</b>
Automatic version product code		<b>PK0033936A</b>	<b>PK0033937A</b>	<b>PK0033938A</b>	<b>PK0033939A</b>
<b>SIZE SPECIFICATIONS</b>					
Width	mm	220	220	350	350
Height	mm	550	550	690	700

## ACCESSORIES AND CONSUMABLES

NAME	Product code
Differential pressure gauge	<b>P0097913</b>
Stainless steel 200 $\mu\text{m}$ screen	<b>P0039072</b>
Stainless steel 500 $\mu\text{m}$ screen	<b>P0003511</b>

## INSTALLATION RECOMMENDATIONS



# BWT 6000 SC

## WATER SOFTENER



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

→ **Resin volume:** 25 to 75 L

## PRODUCT PLUSSES

- 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 apartment buildings, offices, hotels, catering or healthcare establishments for applications to:

- fill 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:

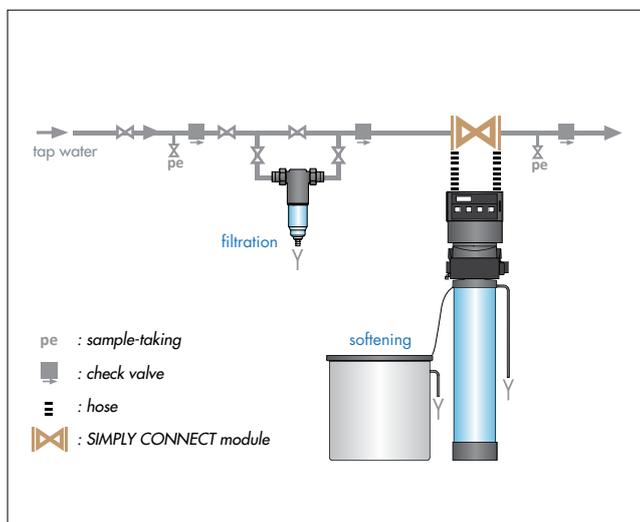
- a polymer (Noryl) valve with built-in meter and mixer
- a DN 32 / 1"1/4 connection
- a glass fibre reinforced polyester body: no risks of corrosion
- an electronic control box
- approved food grade resin
- a SIMPLY CONNECT coupling system: built-in meter, by-pass, mixer and hoses

## 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	1,580	1,830	1,830
Salt tank diameter	mm	470	530	720
Salt tank height	mm	660	780	800

\*for raw water TH of 30 °f

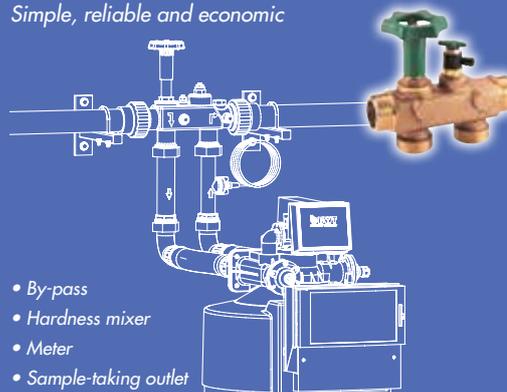
## INSTALLATION RECOMMENDATIONS



## 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>P0011506</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



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

→ **Resin volume:** 50 to 150 L

## PRODUCT PLUSSES

- 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 apartment buildings, offices, hotels, catering or healthcare establishments for applications to:

- fill 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

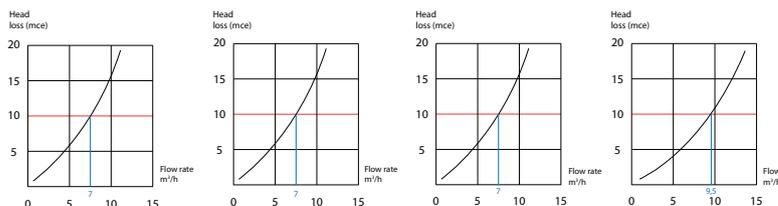
Softener delivered complete fitted with:

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

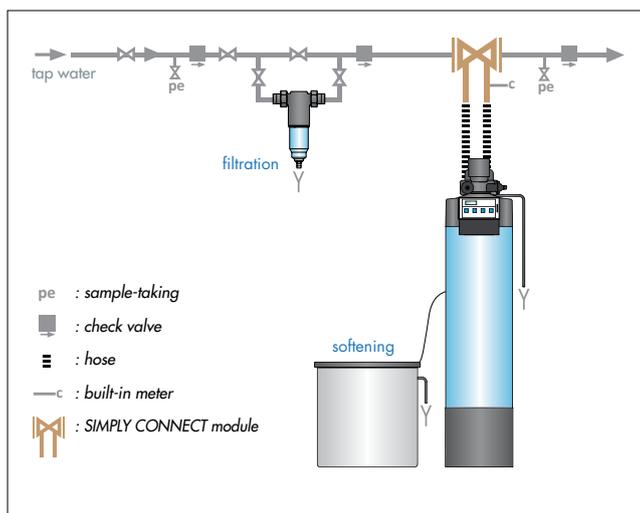
## TECHNICAL SPECIFICATIONS

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"			
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	1,245	1,750	1,790	1,880
Salt tank diameter	mm	720	720	720	715
Salt tank height	mm	800	800	800	1,400

\*for raw water TH of 30 °f



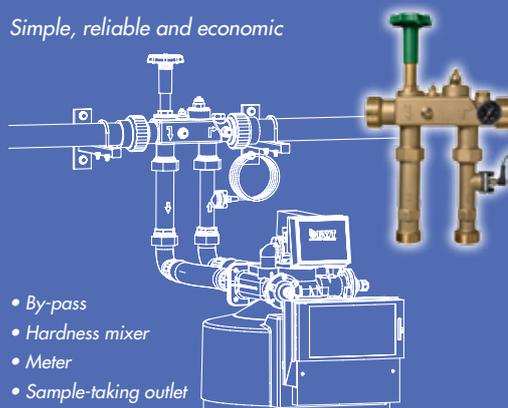
## INSTALLATION RECOMMENDATIONS



## FOCUS ON

### SIMPLY CONNECT SOFTENERS

Simple, reliable and economic



- By-pass
- Hardness mixer
- Meter
- Sample-taking outlet

## 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>

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



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

→ **Resin volume:** 175 to 300 L

## PRODUCT PLUSSES

- **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 apartment buildings, offices, hotels, catering or healthcare establishments for applications to:

- fill 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

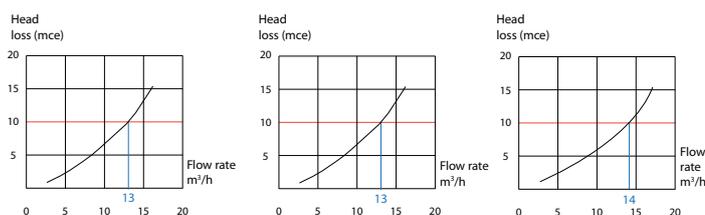
Softener delivered complete fitted with:

- a 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

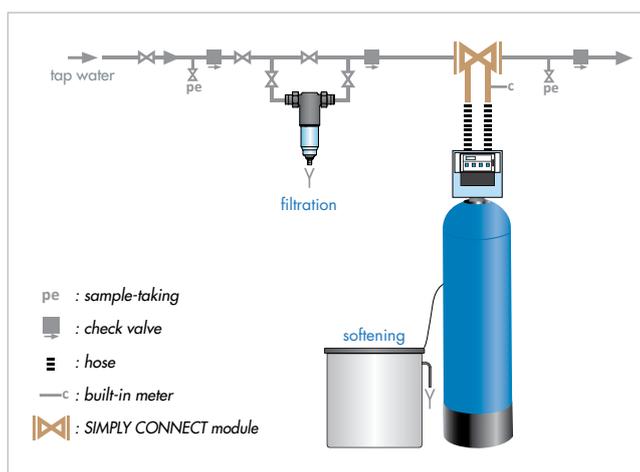
## TECHNICAL SPECIFICATIONS

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	1,240	1,650
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	1,000	1,150
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	2,110	1,965	2,205
Salt tank diameter	mm	720	720	720
Salt tank height	mm	1,400	1,400	1,400

\*for raw water TH of 30 °f



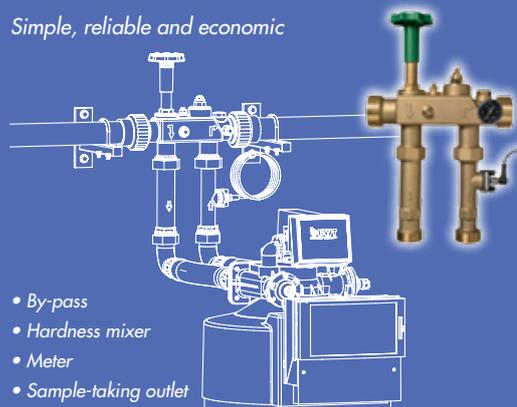
## INSTALLATION RECOMMENDATIONS



## FOCUS ON

### SIMPLY CONNECT SOFTENERS

Simple, reliable and economic



- By-pass
- Hardness mixer
- 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 LP10 / LP20 FILTER

## SINGLE CARTRIDGE FILTER



→ **Flow:** 300 L/h to 2,000 L/h

### TECHNICAL SPECIFICATIONS

TYPE		LP10	LP10PP + purge	LP20	LP20PP + purge
<b>TECHNICAL SPECIFICATIONS</b>					
Coupling diameter	DN/inches	DN 20 / 3/4"			
Connection type		DOE	DOE	DOE	DOE
Cartridge height	"	9 3/4"	9 3/4"	20"	20"
Max service pressure	bars	8	8	8	8
Water temperature	°C	50	50	50	50
Product code		<b>P0048324</b>	<b>P0048320</b>	<b>P0048319</b>	<b>P0048321</b>
<b>SIZE SPECIFICATIONS</b>					
Total width	mm	122	122	122	122
Total height	mm	317	317	577	577

### PRODUCT PLUSSES

- *Easy handling*
- *Quick to install*

### OPERATION

BWT has developed a set of single-cartridge cases that can be integrated into process pre-treatment and treatment at the point of use.

### APPLICATIONS

Main applications for these cases: filtering (from 100 to 0.2 µm) and dechlorination

### THE EQUIPMENT

Reinforced polypropylene cases are available in 10" and 20" heights

### ASSOCIATED CARTRIDGES

- 10" or 20" DOE type (double opening)
- The PROPYL and PROPYL P cartridge lines respectively correspond to the sectors of activity indicated in the table below
- Filtering of particles from 0.2 to 50 µ or dechlorination using activated carbon

### ACCESSORIES

NAME	10" Product code	20" Product code	Application
<b>Associated micro-filtering cartridges per box of 6</b>			
BWT PROPYL 1 micron	<b>PK0098180N</b>	<b>PK0098220N</b>	Collective
BWT PROPYL 10 microns	<b>PK0098182N</b>	<b>PK0098222N</b>	Collective
BWT PROPYL 20 microns	<b>PK0098183N</b>	<b>PK0098223N</b>	Collective
BWT PROPYL 50 microns	<b>PK0098184N</b>	<b>PK0098224N</b>	Collective
BWT PROPYL P 0.2 micron	<b>PK0094824N</b>	<b>PK0094825N</b>	Process
BWT PROPYL P 1 micron	<b>PK0094827N</b>	<b>PK0094828N</b>	Process
BWT PROPYL P 10 microns	<b>PK0094835N</b>	<b>PK0094836N</b>	Process
<b>Associated activated carbon cartridges per box of 6</b>			
BWT Carbon	<b>PK0093146</b>	<b>PK0093147</b>	Dechlorination
BWT Carbon HE	<b>PK0093154</b>	<b>PK0093155</b>	Dechlorination

# BWT BIG BLUE FILTER

## SINGLE CARTRIDGE FILTER



→ **Flow:** 1 to 4 m<sup>3</sup>/h

### PRODUCT PLUSES

- *Easy handling*
- *Quick to install*

#### OPERATION

High capacity filters that can be used to replace multi-cartridge filters or serially installed single cartridges for many applications

#### APPLICATIONS

The main use for these cases: dechlorination

#### THE EQUIPMENT

- Opaque casing
- Female tapped inlet / outlet couplings 1" (DN 25) and 1 1/2" (DN 40)
- Vent

#### ASSOCIATED CARTRIDGES

- Activated carbon filtering. Coke carbon block
- Maximum temperature 80 °C

#### ACCESSORIES

NAME	Product code
<b>Associated cartridges</b>	
BWT BB 20" activated carbon per box of 4	<b>PK0955266</b>
BWT BB 20" 20 µ cartridge	<b>P0985680</b>

#### TECHNICAL SPECIFICATIONS

TYPE		BB 20"	BB 20"
<b>TECHNICAL SPECIFICATIONS</b>			
Flow rate with 0.2 bar head loss	m <sup>3</sup> /h	1.2	4
Coupling diameter	DN	DN 25	DN 40
Connection type		DOE	Code 8
Cartridge height	"	20"	20"
Product code		<b>P0955258</b>	<b>P0955229</b>

# BWT CMC FILTER

## MULTI-CARTRIDGE FILTER



### PRODUCT PLUSSES

- *High treatment capacity*
- *Optimum filtering quality*

### OPERATION

BWT has developed a set of multi-cartridge stainless steel cases that can be integrated into process pre-treatment and treatment at the point of use.

### APPLICATIONS

Main applications for these cases: micro-filtering and dechlorination

### STANDARD EQUIPMENT

- 316 L grade stainless steel, electro-polished and screen printed casing
- 2-point closure collar, lip seal

### ASSOCIATED CARTRIDGES

- DOE (20") or Code 8 (20" / 30" / 40") cartridge tips
- Micro-filtering with absolute filtering threshold of 0.2 to 10  $\mu$  or dechlorination on activated carbon blocks
- Maximum water temperature: 80°C (50°C for activated carbon)

→ **Flow rate:** 1.4 to 48 m<sup>3</sup>/h

## TECHNICAL SPECIFICATIONS

TYPE		803 D	803	803	806	806	812	812
<b>TECHNICAL SPECIFICATIONS</b>								
Coupling diameter	DN	DN 50	DN 50	DN 50	DN 80	DN 80	DN 80	DN 80
Type of cartridge tip		DOE	Code 8					
Cartridge number x height		3 x 20"	3 x 30"	3 x 40"	6 x 30"	6 x 40"	12 x 30"	12 x 40"
Max service pressure	bars	10	10	10	10	10	10	10
Maximum water temperature (outside the cartridge)	°C	150	150	150	150	150	150	150
Product code		P0048802N	P0048803N	P0048804N	P0048808N	P0048809N	P0048813N	P0048814N

## ACCESSORIES AND CONSUMABLES

Adapter kits are available for each case making it possible to switch from a DOE cartridge model to a Code 8 model and vice versa.

<b>ADAPTER</b>								
	3 x 20" DOE → Code 8	3 x 30" Code 8 → DOE	3 x 40" Code 8 → DOE	6 x 30" Code 8 → DOE	6 x 40" Code 8 → DOE	12 x 30" Code 8 → DOE	12 x 40" Code 8 → DOE	
Product code	P0060229	P0060233	P0060234	P0060236	P0060237	P0060239	P0060240	

NAME	Rated flow*	Product code
<b>Associated micro-filtering cartridges per box of 6</b>		
BWT PROPYL P 0.2 micron 20" DOE	Rated flow for the cartridges: 1 m <sup>3</sup> /h per 10" length	PK0094825N
BWT PROPYL P 1 micron 20" DOE		PK0094828N
BWT PROPYL P 10 microns 20" DOE		PK0094836N
BWT PROPYL P 0.2 micron 30" Code 8		PK0094840N
BWT PROPYL P 1 micron 30" Code 8		PK0094853N
BWT PROPYL P 10 microns 30" Code 8		PK0094916N
BWT PROPYL P 0.2 micron 40" Code 8		PK0094841N
BWT PROPYL P 1 micron 40" Code 8		PK0093618N
BWT PROPYL P 10 microns 40" Code 8		PK0093303N
<b>Associated activated carbon cartridges per box of 6</b>		
BWT CARBON 20" DOE	Rated flow for the cartridges: 230 L/h per 10" length	PK0093147
BWT CARBON 20" HE DOE		PK0093155
BWT CARBON 30" DOE		PK0093152
BWT CARBON 30" HE DOE		PK0093156
BWT CARBON 40" DOE		PK0093153
BWT CARBON 40" HE DOE		PK0093157

\* Depending on water quality

# BWT HFX FILTER

## HIGH CAPACITY FILTER



→ **Flow:** 12 to 60 m<sup>3</sup>/h

### TECHNICAL SPECIFICATIONS

TYPE		HFX 40	HFX 60
<b>TECHNICAL SPECIFICATIONS</b>			
Coupling diameter	DN	DN 50	DN 50
Type of cartridge tip		SOE	SOE
Cartridge height	"	40"	60"
Max service pressure	bars	10	10
Maximum water temperature	°C	150	150
Product code		<b>P0048848N</b>	<b>P0048849N</b>

### PRODUCT PLUSSES

- *Simple maintenance*
- *High flow rate*

### OPERATION

BWT has developed a set of high capacity stainless steel cases that can be integrated into process pre-treatment and treatment at the point of use.

### APPLICATIONS

Main applications for these cases: micro-filtering

### STANDARD EQUIPMENT

- 316 L grade stainless steel, electro-polished and screen printed casing
- 2-point closure collar, lip seal
- 2 models: vertical (40") and horizontal (60")

### ASSOCIATED CARTRIDGES

- Connection for specific BWT cartridges (40" / 60")
- Particle micro-filtering from 1 to 50 µ using polypropylene cartridges
- Maximum water temperature: 80 °C

### ACCESSORIES

2 cartridge models to cover all pre-filtering:

- HFXP: folded membrane polypropylene cartridges with an absolute filtering threshold
- HFXS: extruded polypropylene cartridges with a nominal filtering threshold

NAME	Product code	Application
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#### Associated micro-filtering cartridges per box of 3

BWT PROPYL HFXP 1 micron 40" SOE	<b>PK0050780N</b>	Process
BWT PROPYL HFXP 1 micron 60" SOE	<b>PK0050781N</b>	Process
BWT PROPYL HFXP 10 microns 40" SOE	<b>PK0050782N</b>	Process
BWT PROPYL HFXP 10 microns 60" SOE	<b>PK0050783N</b>	Process
BWT PROPYL HFXS 10 microns 40" SOE	<b>PK0050784N</b>	Process
BWT PROPYL HFXS 10 microns 60" SOE	<b>PK0050785N</b>	Process
BWT PROPYL HFXS 50 microns 40" SOE	<b>PK0050786N</b>	Process
BWT PROPYL HFXS 50 microns 60" SOE	<b>PK0050789N</b>	Process

# BWT ANALYSIS PROBOX

TH/Cl ANALYSER



→ **Titration for water hardness and photometer for chlorine**

## PRODUCT PLUSES

- *Stand-alone device*
- *Reliable results*

### OPERATION

The BWT ANALYSIS PROBOX is a simple and accurate analyser with online water hardness measurement using titration, and colorimetry for chlorine.

It can display the measured value and trigger an alarm in the event of overshooting (recorded value). The installation can be programmed to stop by sending a signal via a 4-20 mA output (board optional).

### APPLICATIONS

Water measurement using multiple parameters makes it possible to monitor and secure water quality, whether for establishments open to the public, healthcare establishments, leisure facilities, hotels or all industrial processes.

### STANDARD EQUIPMENT

The BWT ANALYSIS PROBOX is wall mounted and delivered with:

- electricity supply: 230 V AC
- input power: 30 VA max
- potential-free relay outputs for thresholds, alarms, and maintenance
- 0/4-20 mA analogue output on TH model
- LCD screen and touch keyboard for the display of the measurements, alarms and programming
- drop down menus to access analysis and appliance configuration parameters

### TECHNICAL SPECIFICATIONS

TYPE	TH	TH / Cl	Free Cl
<b>TECHNICAL SPECIFICATIONS</b>			
Analysis performed	Hardness	Hardness / free chlorine / active chlorine	Free chlorine
4-20 mA Output	Included	Included	Option
Product code	<b>P0080505</b>	<b>P0960187</b>	<b>P0960204</b>

### ACCESSORIES AND CONSUMABLES

NAME	Product code
PROBOX ANALYSIS TH connection kit	<b>P0080506</b>
4-20 mA card option	<b>P0920161</b>
Hardness reagent 0.09 to 0.89°F 500 ml	<b>P0959132</b>
Hardness reagent 0.45 to 4.48°F 500 ml	<b>P0959133</b>
Hardness reagent 1.79 to 17.79°F 500 ml	<b>P0959134</b>
Hardness reagent 4.48 to 44.80°F 500 ml	<b>P0959759</b>
Cooler for BWT ANALYSIS PROBOX	<b>P0915948</b>

# BWT PERMAQ COMPACT 2/4/6

COMPACT REVERSE OSMOSIS UNIT



→ **Flow rate:** 60 to 180 L/h

→ **3 models**

## PRODUCT PLUSSES

- **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 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 reserved for applications that require distilled quality water: air conditioning, industrial process, washing, steaming, autoclave, printing, laboratory, etc.

### STANDARD EQUIPMENT

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

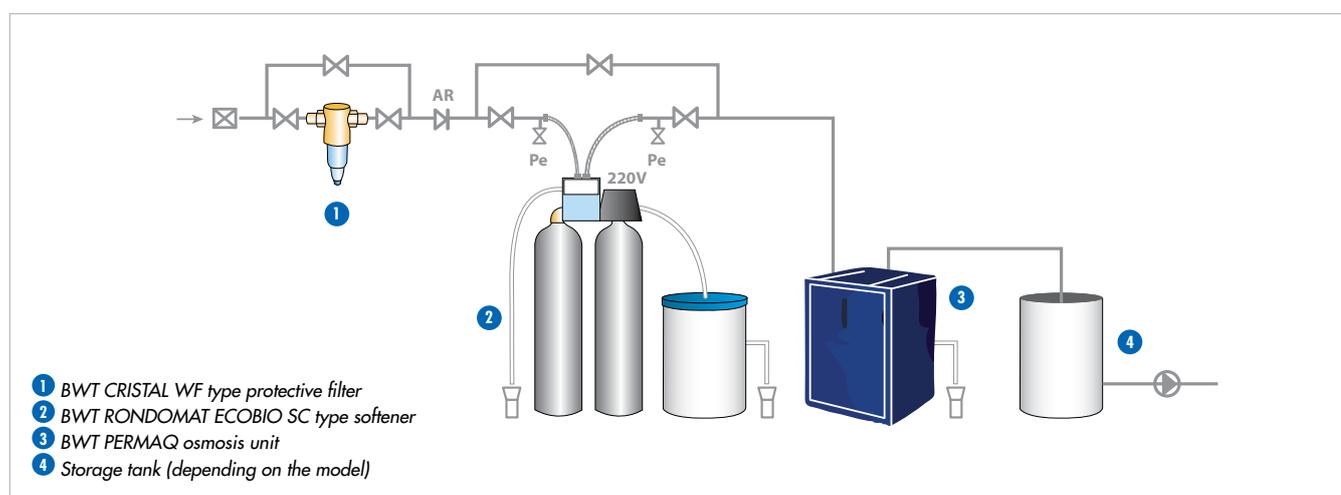
- a full protective casing
- a built-in display
- all the internal and control connections
- a built-in mixer valve for different applications

## 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



→ **Flow rate:** 130 to 150 L/h  
→ **2 models**

## PRODUCT PLUSSES

- *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 reserved for applications that require distilled quality water: air conditioning, industrial process, washing, steaming, autoclave, printing, laboratory, etc.

### STANDARD EQUIPMENT

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

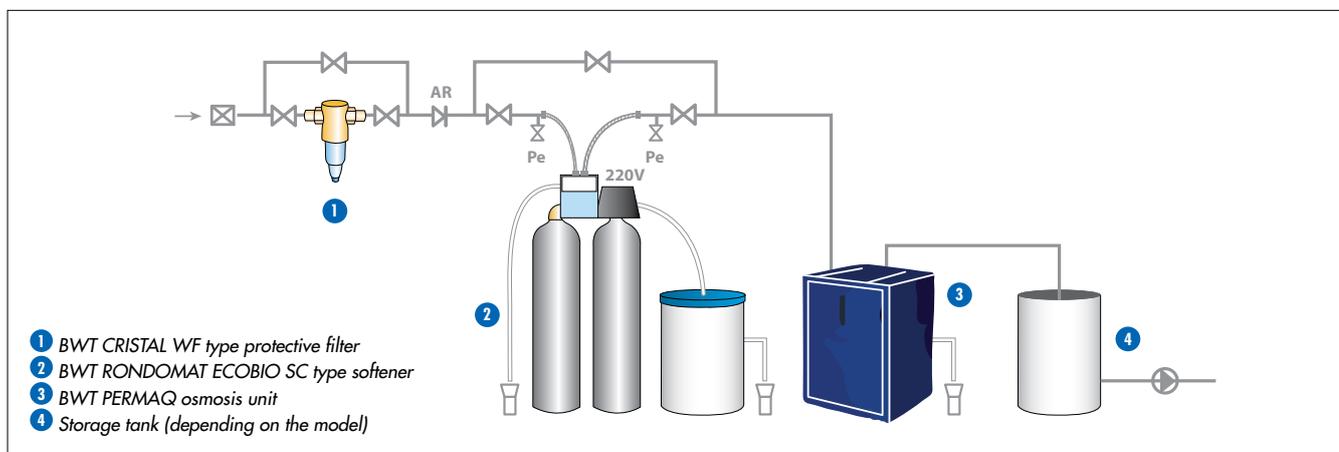
- a full protective casing
- a built-in operations display
- a built-in flow meter and pressure gauge
- all the internal and control connections
- COMPACT 41 model: built-in 3 L hydrophore tank
- COMPACT 51 model: 50 L storage with built-in distribution pump
- automatic cut-off if the input pressure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



## 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 ECO

## COMPACT REVERSE OSMOSIS UNIT



### PRODUCT PLUSSES

- **Quick and easy** to install
- **Wide range** of reverse osmosis water production
- **Reduced** floorspace occupation
- Rinsing in intervals to **optimise hygiene**
- Permeate yield **in excess of 80 % (in softened water)**
- **Off and on-line** operation

### OPERATION

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

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

The BWT PERMAQ ECO reverse osmosis unit is ready for use on site with or without a tank, in the on-line or off-line version.

### APPLICATIONS

Many applications require distilled water quality in varying sectors of activity: air conditioning, industrial process, washing, steaming, autoclave, printing, laboratory, etc.

### THE EQUIPMENT

BWT PERMAQ ECO reverse osmosis units are available in 2 different models.

BWT PERMAQ ECO reverse osmosis units are delivered complete with:

- integral casing to protect the reverse osmosis unit from impacts and dust
- a built-in display
- a built in conductivity meter
- high pressure pump
- all the internal connections and controls are built into the design

→ **Flow rate:** 90 to 130 L/h

## TECHNICAL SPECIFICATIONS

TYPE		On-line	Off-line
<b>TECHNICAL SPECIFICATIONS</b>			
Permeate	L/h	90	130
Salt retention rate*	%	95	95
Permeate yield*	%	30 to 80	30 to 80
Number of membranes		1	1
Min/max service pressure	bars	2.5/6.0	2.5/6.0
Min/max water temperature	°C	5 to 30	5 to 30
Product code		<b>PK0004576</b>	<b>P0004577</b>
<b>SIZE SPECIFICATIONS</b>			
Width	mm	200	200
Depth	mm	200	200
Height	mm	1,700	1,700

\* Depends on the raw water quality.

## ACCESSORIES AND CONSUMABLES

NAME	Product code
Complete system to combine a tank and reverse osmosis unit Solenoid/ cabinet for 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>
LP 20 Filter + purge	<b>P0048321</b>
BWT-PROPYL 10 microns 10" cartridge - Box of 6	<b>PK0098182N</b>
BWT-PROPYL 10 microns 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>PK0093146</b>
BWT-CARBON 20" cartridge - Box of 6	<b>PK0093147</b>

# BWT PERMAQ PICO

## COMPACT REVERSE OSMOSIS UNIT



### PRODUCT PLUSSES

- **Quick and easy** to install
- **Wide range** of reverse osmosis water production
- **Reduced** floorspace occupation
- Rinsing in intervals to **optimise hygiene**
- Permeate yield **in excess of 80 % (in softened water)**
- **Off and on-line** operation

### OPERATION

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

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

The BWT PERMAQ PICO reverse osmosis unit is ready for use on site with or without a tank, in the on-line or off-line version.

### APPLICATIONS

Many applications require distilled water quality in varying sectors of activity: air conditioning, industrial process, washing, steaming, autoclave, printing, laboratory, etc.

### THE EQUIPMENT

BWT PERMAQ PICO reverse osmosis units are available in 14 different models.

BWT PERMAQ PICO reverse osmosis units are delivered complete with:

- integral casing to protect the reverse osmosis unit from impacts and dust
- a built-in display
- a built in conductivity meter
- high pressure pump
- all the internal connections and controls are built into the design
- a built-in 5 µm filter

→ **Flow rate:** 220 to 2,100 L/h

## TECHNICAL SPECIFICATIONS

TYPE		20 On-line	40 On-line	50 On-line	60 On-line	70 On-line
<b>TECHNICAL SPECIFICATIONS</b>						
Permeate flow rate**	L/h	220	510	1,000	1,400	1,600
Salt retention rate*	%	98	98	98	98	98
Permeate yield*	%	75 to 80				
Number of membranes		2	1	2	3	3
Min/max service pressure	bars	2.5/6.0	2.5/6.0	2.5/6.0	2.5/6.0	2.5/6.0
Min/max water temperature	°C	5 to 30				
Product code		<b>P0004525</b>	<b>P0004527</b>	<b>P0004528</b>	<b>P0004529</b>	<b>P0004530</b>

TYPE		20 Off-line	40 Off-line	50 Off-line	60 Off-line	70 Off-line
<b>TECHNICAL SPECIFICATIONS</b>						
Permeate	L/h	310	650	1,250	1,800	2,100
Salt retention rate*	%	98	98	98	98	98
Permeate yield*	%	75 to 80				
Number of membranes		2	1	2	3	3
Min/max service pressure	bars	2.5/6.0	2.5/6.0	2.5/6.0	2.5/6.0	2.5/6.0
Min/max water temperature	°C	5 to 30				
Product code		<b>P0004517</b>	<b>P0004519</b>	<b>P0004520</b>	<b>P0004521</b>	<b>P0004523</b>

TYPE		10	20	30	40	50	60	70
<b>SIZE SPECIFICATIONS</b>								
Width	mm	475	475	475	475	475	475	475
Depth	mm	450	590	590	590	590	730	730
Height	mm	800	800	800	1285	1285	1285	1285

\* Raw water to softened water.

\*\* at an input pressure of 4 bars

## ACCESSORIES AND CONSUMABLES

NAME	Product code
Complete system to combine a tank and reverse osmosis unit Solenoid/ cabinet for level management	<b>P0045557</b>
Multiblock connection	<b>P0004540</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>
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>PK0093146</b>
BWT-CARBON 20" cartridge - Box of 6	<b>PK0093147</b>

# BWT PERMAQ DELTA

## OSMOSIS UNIT



### PRODUCT PLUSSES

- **Quick and easy** to install
- **Wide range** of reverse osmosis water production
- **High quality** components
- **Many operating modes**
- **Permeate yield in excess of 75 %**

### OPERATION

BWT PERMAQ DELTA reverse osmosis units are skid mounted reverse osmosis water production units.

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

The BWT PERMAQ DELTA is delivered ready to use on site.

### APPLICATIONS

Many applications require distilled water quality in varying sectors of activity: air conditioning, industrial process, washing, steaming, autoclave, printing, laboratory, etc.

BWT PERMAQ DELTA reverse osmosis units are available in 10 different models.

### THE EQUIPMENT

BWT PERMAQ DELTA reverse osmosis units are delivered complete with:

- full 304 L grade stainless steel skid
- a built-in display
- a built in conductivity meter
- high pressure pump
- all the internal connections and controls are built into the design

→ **Flow rate:** 270 to 3,400 L/h

## TECHNICAL SPECIFICATIONS

TYPE		10	20	30	40	50
<b>TECHNICAL SPECIFICATIONS</b>						
Permeate	L/h	270	500	800	1000	1,250
Salt retention rate*	%	98	98	98	98	98
Permeate yield*	%	75 to 80				
Number of membranes		1	2	3	4	5
Min/max service pressure	bars	2.5/6.0	2.5/6.0	2.5/6.0	2.5/6.0	2.5/6.0
Min/max water temperature	°C	5 to 30				
Electric connection	V/Hz	400/50	400/50	400/50	400/50	400/50
Installed capacity	kW	1.5	1.5	2.2	2.2	2.2
Protection class (pump)	IP	55	55	55	55	55
Raw water / permeate connection	DN	25/15	25/15	25/15	25/15	25/15
Effluent evacuation connection	DN	15	15	15	15	15
Weight (approx.)	Kg	90	105	120	135	150
Product code		<b>SC**</b>	<b>SC**</b>	<b>SC**</b>	<b>SC**</b>	<b>SC**</b>
<b>SIZE SPECIFICATIONS</b>						
Width	mm	750	750	750	750	750
Depth	mm	750	750	750	750	750
Height (approx.)	mm	1,600	1,600	1,600	1,600	1,600

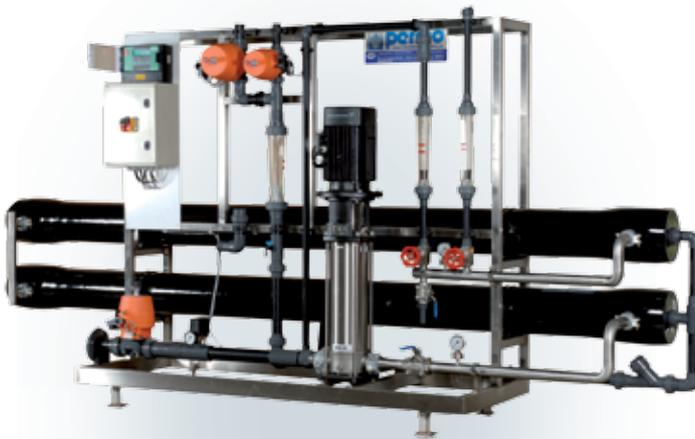
TYPE		60	80	100	120	140
<b>TECHNICAL SPECIFICATIONS</b>						
Permeate	L/h	1,500	2,000	2,500	3,000	3,400
Salt retention rate*	%	98	98	98	98	98
Permeate yield*	%	75 to 80				
Number of membranes		6	8	10	12	14
Min/max service pressure	bars	2.5/6.0	2.5/6.0	2.5/6.0	2.5/6.0	2.5/6.0
Min/max water temperature	°C	5 to 30				
Electric connection	V/Hz	400/50	400/50	400/50	400/50	400/50
Installed capacity	kW	2.2	4	4	4	4
Protection class (pump)	IP	55	55	55	55	55
Raw water / permeate connection	DN	32/20	32/20	32/20	32/25	32/25
Effluent evacuation connection	DN	20	20	20	25	25
Weight (approx.)	Kg	200	225	250	280	310
Product code		<b>SC**</b>	<b>SC**</b>	<b>SC**</b>	<b>SC**</b>	<b>SC**</b>
<b>SIZE SPECIFICATIONS</b>						
Width	mm	2,500	2,500	2,500	2,500	2,500
Depth	mm	550	550	550	550	550
Height (approx.)	mm	1,650	1,650	1,650	1,650	1,650

\* Raw water to softened water.

\*\* SC: on request.

# BWT PERMAQ SIGMA 800 HP

## OSMOSIS UNIT



### PRODUCT PLUSSES

- **Quick and easy** to install
- **Wide range** of reverse osmosis water production
- **High quality** components
- **Many operating modes**
- **Permeate yield in excess of 75 %**

### OPERATION

BWT PERMAQ SIGMA reverse osmosis units are skid mounted reverse osmosis water production units.

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

The BWT PERMAQ SIGMA is delivered ready to use on site.

### APPLICATIONS

Many applications require distilled water quality in varying sectors of activity: utilities and industrial process, washing, steaming, autoclave, printing, laboratory, etc.

### THE EQUIPMENT

BWT PERMAQ SIGMA reverse osmosis units are available in 8 different models.

BWT PERMAQ SIGMA reverse osmosis units are delivered complete with:

- full 304 L grade stainless steel skid
- a built-in display
- a built in conductivity meter
- high pressure pump
- all the internal connections and controls are built into the design

Higher capacity SIGMA units are available, please contact our teams.

→ **Flow rate:** 4 to 20 m<sup>3</sup> / h

## TECHNICAL SPECIFICATIONS

TYPE		4	5	6	8	10	12.5	15	20
<b>TECHNICAL SPECIFICATIONS</b>									
Permeate	m <sup>3</sup> /h	4.0	5.0	6.0	7.0	8.0	12.5	15.0	20.0
Salt retention rate*	%	> 99							
Permeate yield*	%	75							
Number of membranes		4	5	6	8	10	12	15	20
Min/max service pressure	bars	2.5 to 6							
Min/max water temperature	°C	5 to 30							
Electric connection	V/Hz	400/50							
Installed capacity	kW	6			12			16	
Protection class (pump)	IP	55	55	55	55	55	55	55	55
Raw water / permeate connection	DN	32/32	32/32	40/40	50/40	50/50	65/50	65/65	65/65
Quality discharge connection	DN	25	25	32	32	40	40	50	50
Effluent evacuation connection	DN	15	20	20	25	25	25	32	40
Weight (approx.)	Kg	380	430	490	610	700	800	960	1,240
Product code		<b>SC**</b>							
<b>SIZE SPECIFICATIONS</b>									
Width	mm	4,574	5,590	3,558	4,574	5,590	4,574	5,590	5,590
Depth	mm	750							
Height (approx.)	mm	1,850							

\* Raw water to softened water.

\*\* SC: on request.

# BWT PERMAQ MODULO SK

COMPACT REVERSE OSMOSIS UNIT WITH BUILT-IN PRE-TREATMENT



## PRODUCT PLUSSES

- **Easy to use**
- **Reduced** floorspace occupation
- Rinsing in intervals to **optimise hygiene**
- Permeate yield **in excess of 75 %**
- **Off and on-line** operation

## OPERATION

BWT PERMAQ MODULO SK reverse osmosis units are compact reverse osmosis water production units.

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

The BWT PERMAQ MODULO SK is delivered ready to use on site. Its skid includes all the pre-treatment equipment needed for reverse osmosis water production.

## APPLICATIONS

Many applications require distilled water quality in varying sectors of activity: air conditioning, industrial process, washing, steaming, autoclave, printing, laboratory, etc.

## THE EQUIPMENT

BWT PERMAQ MODULO SK reverse osmosis units are available in 4 models with a capacity of 500, 800, 1 000 and 1 200 L/h.

BWT PERMAQ MODULO SK units are delivered ready to operate:

- built-in pre-filters
- automatic softeners
- dechlorinating filters
- fine safety filtering
- complete reverse osmosis unit (high pressure pump, conductivity meter, control components)

All the internal connections and functional controls are built into the design.

→ **Flow rate:** 500 to 1,200 L/h

## TECHNICAL SPECIFICATIONS

TYPE		500	800	1,000	1,200
<b>TECHNICAL SPECIFICATIONS</b>					
Permeate	L/h	500	800	1000	1,200
Salt retention rate*	%	98	98	98	98
Permeate yield*	%	75 to 80	75 to 80	75 to 80	75 to 80
Number of membranes		2	3	4	5
Min/max service pressure	bars	2.5/6.0	2.5/6.0	2.5/6.0	2.5/6.0
Min/max water temperature	°C	5 to 30	5 to 30	5 to 30	5 to 30
Electric connection	V/Hz	400/50	400/50	400/50	400/50
Installed capacity	kW	1.1	1.5	1.5	1.5
Protection class	IP	54	54	54	54
Raw water / permeate connection	DN	25/15	25/15	25/15	25/15
Connection to the drains	DN	50	50	50	50
Weight (approx.)	Kg	180	240	280	300
Product code		<b>SC**</b>	<b>SC**</b>	<b>SC**</b>	<b>SC**</b>
<b>SIZE SPECIFICATIONS</b>					
Width	mm	1,200	1,200	1,200	1,200
Depth	mm	700	700	700	700
Height (approx.)	mm	1,940	1,940	1,940	1,940

\* Raw water to softened water.

\*\* SC: on request.

## CONSUMABLES

NAME	Product code
BWT-PROPYL 10 micron 20" cartridge - Box of 6	<b>PK0098222N</b>
BWT-PROPYL 1 micron 20" cartridge - Box of 6	<b>PK0098220N</b>
BWT-CARBON 20" cartridge - Box of 6	<b>PK0093147</b>

# STORAGE TANK

## STANDARD STORAGE



→ **Volume:** 300 to 1,500 L

## PRODUCT PLUSSES

- *Opaque tank limiting bacterial growth*
- *Easy to clean tank*

### OPERATION

The storage tanks are used to complete processes such as reverse osmosis, neutralisation, etc. and to maintain the quality of the water produced.

### APPLICATIONS

The tanks can be flat-bottomed for basic storage applications, and sloped-bottomed to allow all the water to flow out of the tank.

### THE EQUIPMENT

BWT storage tanks are supplied standard with:

- 3-level detection making it possible to protect the water distribution pump
- vent

### TECHNICAL SPECIFICATIONS

NAME	Product code
Flat bottomed equipped 300 L tank	<b>P00935810</b>
Flat bottomed equipped 500 L tank	<b>P0970190</b>
Flat bottomed equipped 1,000 L tank	<b>P0098371</b>
Flat bottomed equipped 1,500 L tank	<b>P0970065</b>
Sloped bottom equipped 300 L tank	<b>P097020</b>
Sloped bottom equipped 500 L tank	<b>P0096087</b>
Sloped bottom equipped 1,000 L tank	<b>P0094475</b>
Sloped bottom equipped 1,500 L tank	<b>P0970014</b>

# BWT PCY FILTER

## SINGLE-CARTRIDGE FILTER



### PRODUCT PLUSES

- *Optimum filtering quality*
- *Easy to install and maintain*

### OPERATION AND APPLICATIONS

BWT has developed a single-cartridge bacteriological (pharma grade) or particle (electronic grade) filtering case that can be built into the process water distribution loop or as close as possible to the point of use. Main available cartridge filtering capacities: 0.45/0.2/0.1 µm

### STANDARD EQUIPMENT

Reinforced polypropylene cases are available in 10" and 20" heights

### ASSOCIATED CARTRIDGES

Two grades of micro-filtration:

- E grade = electronic applications
- P grade = pharma applications

### CARTRIDGE TYPE

NAME	Product code	Height	Nuclear
BWT-PURELIFE E 0.2 µm 10" - Code 7	<b>P0096393N</b>	10"	Electronic
BWT-PURELIFE E 0.2 µm 20" - Code 7	<b>P0096395N</b>	20"	Electronic
BWT-PURELIFE P 0.2 µm 10" - Code 7	<b>P0096535N</b>	10"	Pharma
BWT-PURELIFE P 0.2 µm 20" - Code 7	<b>P0096536N</b>	20"	Pharma

→ **Flow:** 1,000 to 2,000 L/h

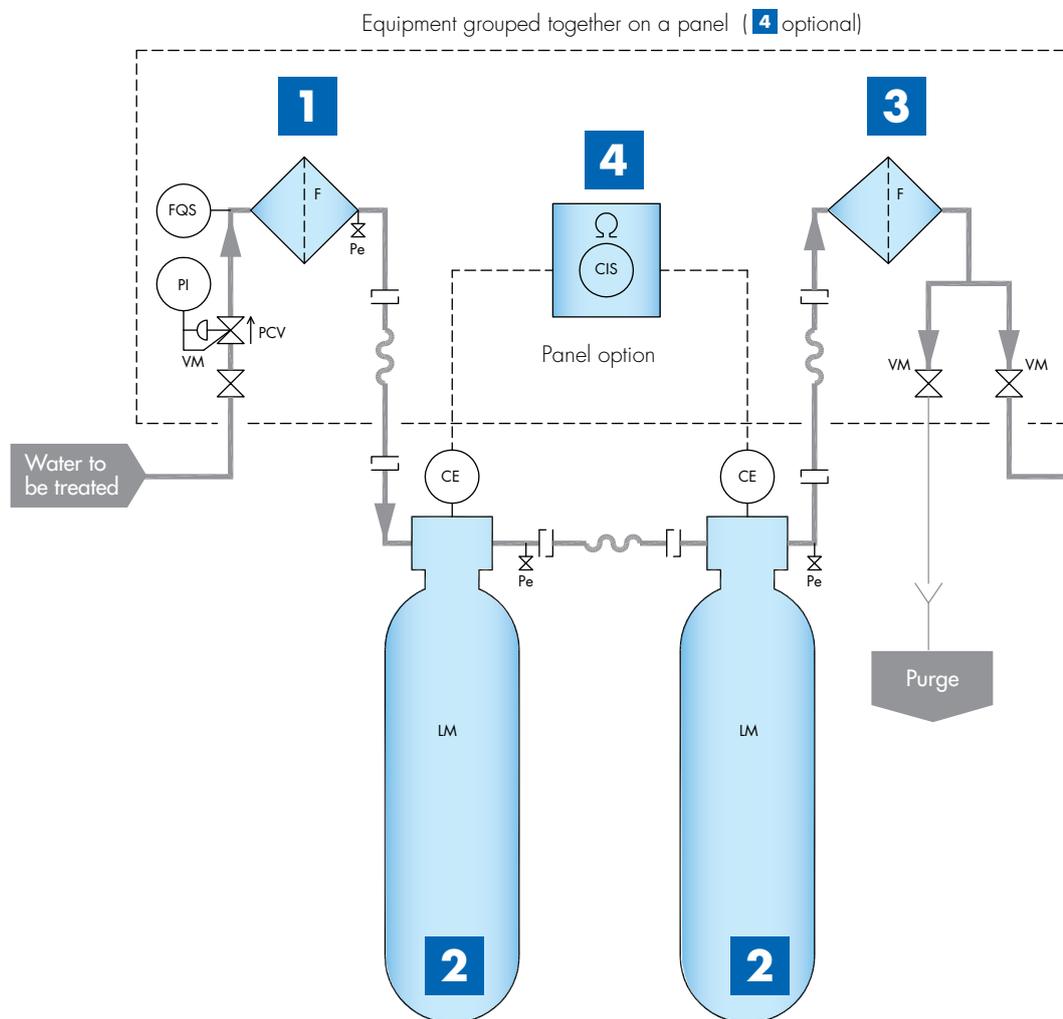
### TECHNICAL SPECIFICATIONS

TYPE		PCY 10	PCY 20
<b>TECHNICAL SPECIFICATIONS</b>			
Coupling diameter	DN/inches	DN 25 / 1"	DN 25 / 1"
Connection type		Code 7	Code 7
Cartridge height	"	10"	20"
Max service pressure (20°C)	bars	10	10
Maximum water temperature	°C	50	50
Product code		<b>P0096342</b>	<b>P0096341</b>
<b>SIZE SPECIFICATIONS</b>			
Total width	mm	147	147
Total height	mm	440	688

# WATER PRODUCTION

## DISTILLED WATER

### THE PROCESS AND COMPONENTS FOR DISTILLED WATER



PI Pressure gauge  
 F Filter  
 LM Mixed bed  
 Pe Sample taking  
 CIS  $\Omega$  Conductivity meter

PCV Expansion valve  
 VM Manual valve  
 FQS Meter  
 CE Conductivity meter sensor

# 3

Towards  
use

DISTILLED  
WATER

3

- 1** Dechlorination filter
- 2** Mixed bed **64**
- 3** Micro-filtering
- 4** Analyser **69**

# BWT LMIJ

## MIXED BED BOTTLE



→ 6 models  
→ Flow: 360 to 8,000 L/h

## PRODUCT PLUSSES

- **Quick and easy** to install
- **Reduced floorspace** occupation
- **Stand alone operation**

### OPERATION

BWT LMIJs are used to demineralise tap water to obtain high quality water with its mineral content removed. This technology favours simple and fast implementation.

### APPLICATIONS

Many applications require distilled water quality in varying sectors of activity: air conditioning, industrial process, washing, steaming, autoclave, printing, laboratory, etc.

### THE EQUIPMENT

- Glass fibre reinforced polyester body in a stainless steel skirt
- PVC valves with quick coupling using unions
- Conductivity meter socket

### ACCESSORIES

NAME	Product code
Wall panel including filter/meter/pre-filters/filters	<b>P0962592</b>
MultiControl 2 DEMIN + cables + sensors	<b>P0077037</b>

### TECHNICAL SPECIFICATIONS

TYPE		12	25	50	75	125	225
<b>TECHNICAL SPECIFICATIONS</b>							
Production flow rate	m <sup>3</sup> /h	0.36	0.75	1.5	2.0	5.0	8.0
Coupling diameter	DN	15	15	15	15	40	40
Product code		<b>PK0004462</b>	<b>PK0004463</b>	<b>PK0004464</b>	<b>PK0004467</b>	<b>P0004473</b>	<b>P0004475</b>

### CONDITIONING

Mixed resin	50 L drum	Standard	Nuclear grade	Ultra pure	High micro-electronic
Product code		<b>P0009076</b>	<b>P0009072</b>	<b>P0097229</b>	<b>P0969316</b>

# BWT LMIR

## MIXED BED BOTTLE



→ **Flow:** 200 to 4,500 L/h

### TECHNICAL SPECIFICATIONS

TYPE		15	25	35	65	105	140 on chassis	180 on chassis	300 on chassis	600 on chassis
<b>TECHNICAL SPECIFICATIONS</b>										
Production flow rate	m <sup>3</sup> /h	0.20	0.25	0.4	0.9	1.2	1.5	2.0	3.0	4.5
Coupling diameter	DN	15	15	15	15	20	20	20	20	2 X 20
Recommended pressure:	bars	2 to 5								
Maximum pressure	bars	10								
Water temperature	°C	2 to 50								
Product code		<b>P0096196</b>	<b>P0969196</b>	<b>P0969197</b>	<b>P0969198</b>	<b>P0973088</b>	<b>P0969199</b>	<b>P0969200</b>	<b>P09692001</b>	<b>P0969202</b>
Exchange code zone 1*		<b>P00996860</b>	<b>P0969189</b>	<b>P0969190</b>	<b>P0969191</b>	<b>P0996891</b>	<b>P0969192</b>	<b>P0969193</b>	<b>P0969194</b>	<b>P0969195</b>
Exchange code zone 2**		<b>P0996850</b>	<b>P0996851</b>	<b>P0996852</b>	<b>P0996853</b>	<b>P0996854</b>	<b>P0996855</b>	<b>P0996856</b>	<b>P0996857</b>	<b>P0996858</b>

\* Zone 1: departments 02 - 08 - 10 - 14 - 18 - 21 - 27 - 28 - 36 - 37 - 41 - 45 - 51 - 58 - 59 - 60 - 62 - 72 - 76 - 80 - 89 - region Paris.

\*\*Zone 2: departments 05 - 26 - 38 - 73 - 74 - 01 - 03 - 07 - 42 - 43 - 63 - 69 - 71

For other zones please contact us.

### PRODUCT PLUSSES

- **Exchange and delivery** anywhere in France
- **Quick and easy** to install
- **Reduced floorspace** occupation
- **Stand alone operation**

### OPERATION

BWT LMIRs are used to demineralise tap water to obtain high quality water with its mineral content removed.

This technology favours simple and fast implementation.

### APPLICATIONS

Many applications require distilled water quality in varying sectors of activity: air conditioning, industrial process, washing, steaming, autoclave, printing, laboratory, etc.

This technology favours simple and fast implementation.

### THE EQUIPMENT

- Reinforced polyester body
- PVC valves with quick coupling using unions
- Stainless steel sensor Coef. 0.1 built onto the bottle head

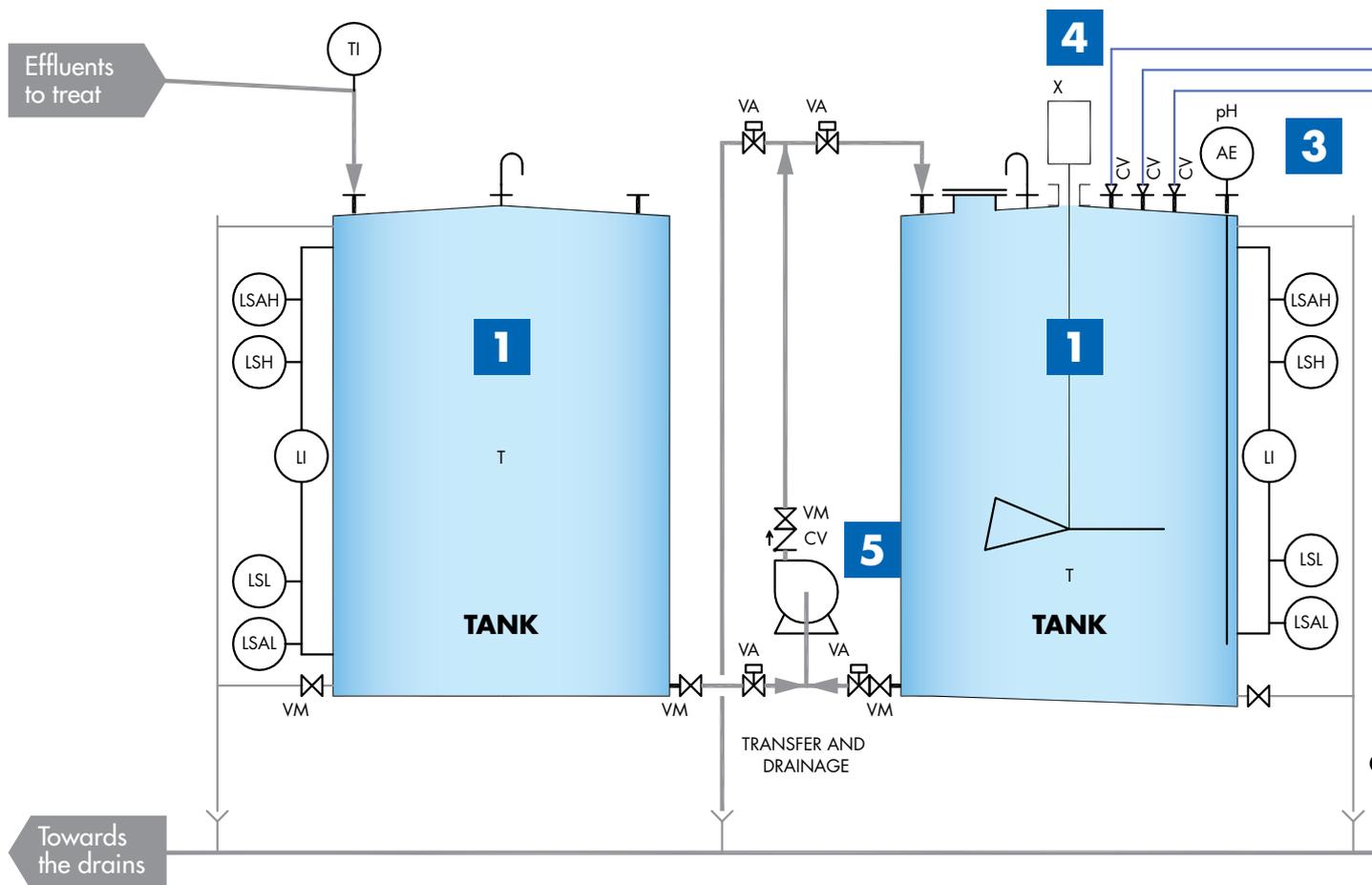
A bottle exchange service is available to replace bottles once the resins are spent.

### ACCESSORIES

NAME	Product code
Wall panel including filter/meter/pre-filters/filters	<b>P0962592</b>
MultiControl 2 DEMIN + cables (no sensors)	<b>P0077038</b>

# EFFLUENT NEUTRALISATION

## THE PROCESS AND COMPONENTS FOR EFFLUENT NEUTRALISATION

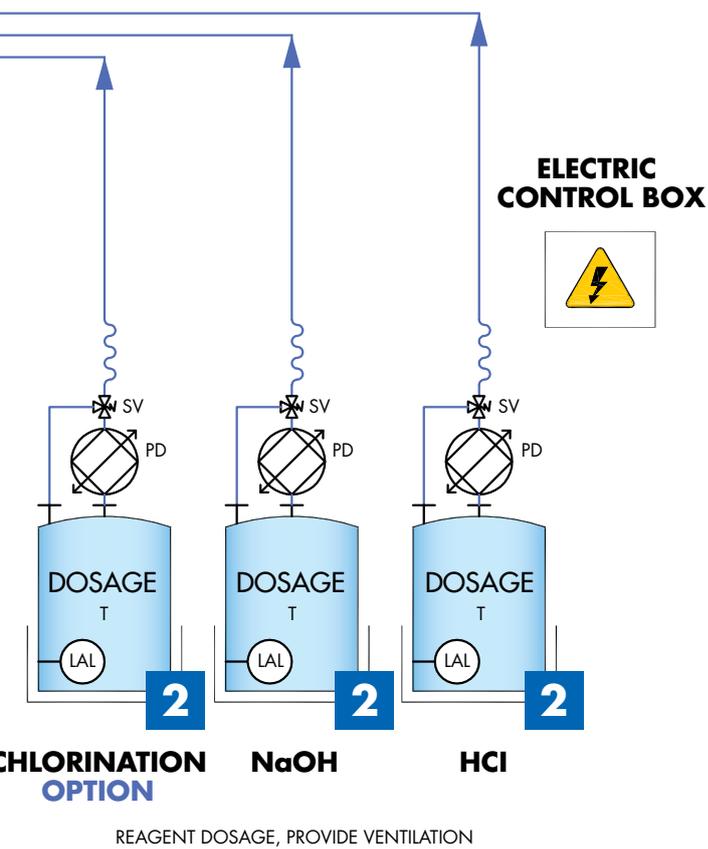


**LSAL** Alarm low level  
**LSH** High level  
**LSAH** Alarm high level  
**VM** Manual valve  
**VA** Automatic valve

**TI** Thermometer  
**PD** Dosing pump  
**T** Tank  
**P** Pump  
**PI** Pressure gauge

**AE PH** PH Meter  
**SV** Relief valve  
**LSL** Low level

# 4



<b>1</b> Storage tank	<b>68</b>
<b>2</b> Dosing unit	<b>70</b>
<b>3</b> Analyser	<b>69</b>
<b>4</b> Mixer - on request	
<b>5</b> Pump - on request	

# STORAGE TANK

## STANDARD STORAGE



→ **Volume:** 300 to 1,500 L

## PRODUCT PLUSSES

- *Opaque tank limiting bacterial growth*
- *Easy to clean tank*

### OPERATION

The storage tanks are used to complete processes such as reverse osmosis, neutralisation, etc. and to maintain the quality of the water produced.

### APPLICATIONS

The tanks can be flat-bottomed for basic storage applications, and sloped-bottomed to allow all the water to flow out of the tank.

### THE EQUIPMENT

BWT storage tanks are supplied standard with:

- 3-level detection making it possible to protect the water distribution pump
- vent

### TECHNICAL SPECIFICATIONS

NAME	Product code
Flat bottomed equipped 300 L tank	<b>P00935810</b>
Flat bottomed equipped 500 L tank	<b>P0970190</b>
Flat bottomed equipped 1,000 L tank	<b>P0098371</b>
Flat bottomed equipped 1,500 L tank	<b>P0970065</b>
Sloped bottom equipped 300 L tank	<b>P097020</b>
Sloped bottom equipped 500 L tank	<b>P0096087</b>
Sloped bottom equipped 1,000 L tank	<b>P0094475</b>
Sloped bottom equipped 1,500 L tank	<b>P0970014</b>

# BWT MULTICONTROL

## ANALYSER REGULATOR



### OPERATION AND APPLICATIONS

Water measurement using multiple parameters makes it possible to monitor and secure water quality, whether for establishments open to the public, healthcare establishments, leisure facilities, hotels or all industrial processes.

The BWT MULTICONTROL is a simple and user friendly analyser and regulator, providing up to 6 analysis inputs, with a wide range of sensors, different physical and chemical parameters to measure: temperature, pH, potential redox, conductivity, etc.

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

If is supplied as an option with all the connectors needed to install it.

### STANDARD EQUIPMENT

The BWT MULTICONTROL is a wall mounted analyser and regulator that is delivered ready to use with:

- the checking and transmission of multiple data on physical, chemical, and hydraulic water parameters
- pH, conductivity, flow rate and potential redox
- the possible addition of 6 checking functions
- data retrieval on an SD card
- PID regulation
- 230 V AC electric power supply
- the protection box
- the display and control panel
- the base unit with power supply, 2 digital inputs, 2 analogue outputs, 2 digital outputs

### → Multi-parameter analysis

TYPE	pH	1 x conductivity	2 x conductivity	1 pH + 1 conductivity
<b>TECHNICAL SPECIFICATIONS</b>				
Product code	P0077030	P0077031	P0077032	P0077033

### PH REDOX CONDUCTIVITY ACCESSORIES

NAME	Product code
pH sensor	P0005071
Redox sensor	P0005072
PT 1000 sensor	P0005070
pH + T° sensor holder (if required)	P0005073
Connection cable for redox or pH sensor	P0079358
Connection cable for PT 1000 sensor	P0079359
Sensor + conductivity sensor holder K=0.01 (T° included)	P0060300
Sensor + conductivity sensor holder K=1 (T° included)	P0060301

### CONNECTION ACCESSORIES

NAME	Product code
PVC DN 20 union fitting for pH or redox sensor	P0079250
PVC DN 20 union fitting for cond. sensor	P0079251
PVC DN 25 union fitting for pH or redox sensor	P0079252
PVC DN 25 union fitting for cond. sensor	P0079253
PVC DN 32 union fitting for pH / redox / cond sensor	P0079254
PVC DN 40 union fitting for pH / redox / cond sensor	P0079255
PVC DN 50 union fitting for pH / redox / cond sensor	P0079256
PVC DN 65 fitting collar for pH / redox / cond. sensor	P0048178
PVC DN 80 fitting collar for pH / redox / cond. sensor	P0048179

# CHLORINE / SODA DOSING UNIT

DISINFECTION NEUTRALISATION



## PRODUCT PLUSSES

- Simplified equipment sizing, **easier treatment selection**
- Dosing unit **delivered complete with accessories**

## OPERATION AND APPLICATIONS

These dosing units are designed to chlorinate and neutralise effluents.

They are supplied complete and ready to connect.

It is advisable and recommended to use a chlorine and/or pH analyser regulator to guarantee the safety and accuracy of chlorine injections into the network.

## STANDARD EQUIPMENT

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

- the 140 L treatment tank
- the high reliability electronic dosing pump (stepping motor for dosage reliability at the lowest flow rates)
- injection accessories (suction screen, tubing and discharge piping, injection tube, etc.)
- the cable to couple to the transmitter meter
- the containment tank that is mandatory for all chemical storage, it is sized for your dosing unit and is part of the delivery: for fully compliant sites
- the graduated dosing tank and digital display dosing pump with user friendly programming: simplified monitoring and operation

→ **Flow rate:** 7.5 L/h

## COMPLETE DOSING UNIT

Complete and pre-equipped, ready to connect units

### TECHNICAL SPECIFICATIONS

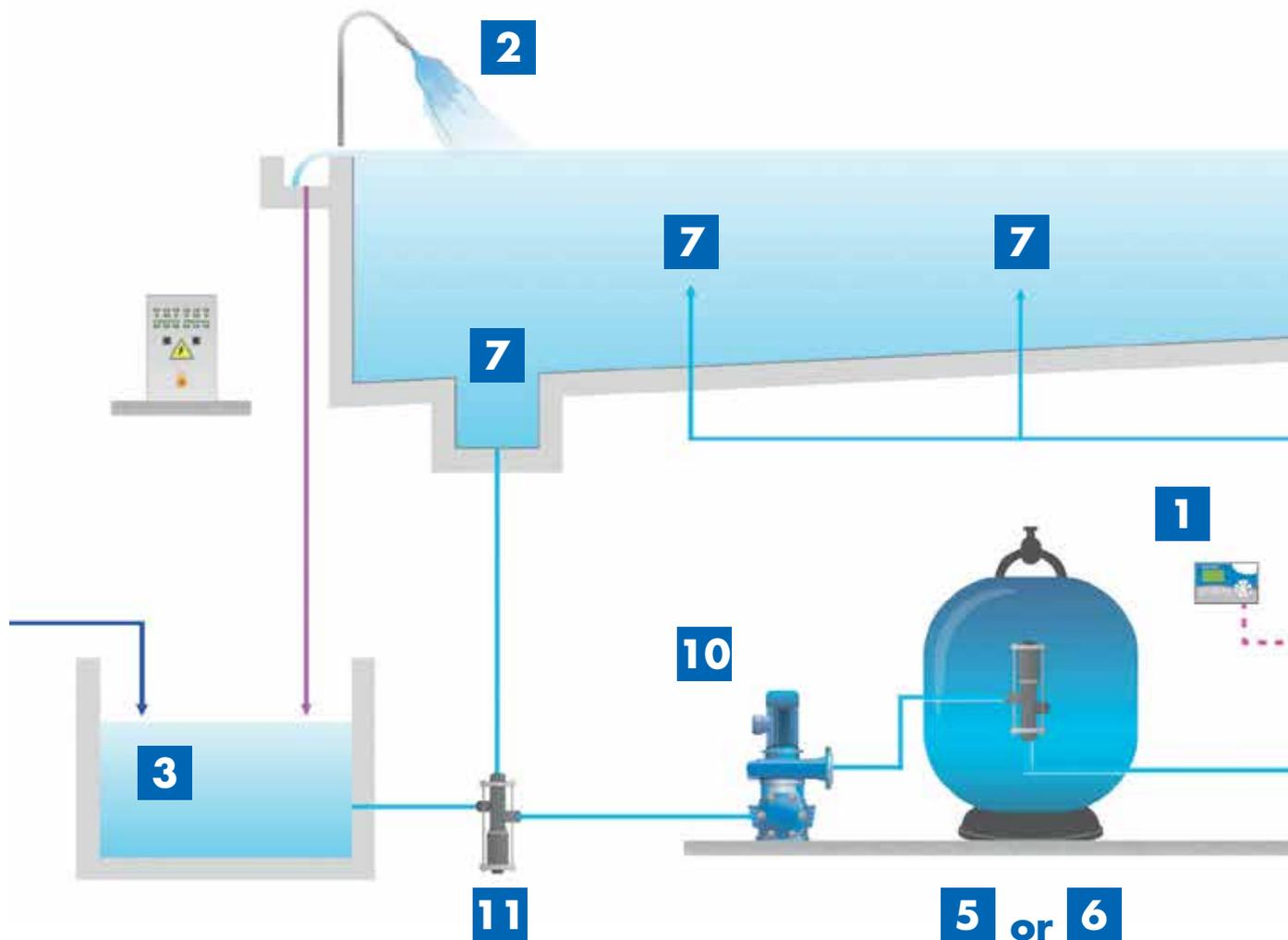
TYPE		DOSING UNIT DDA 7 C + 140 L TANK + CONTAINMENT TANK	DOSING UNIT DDA 7 S + 140 L TANK + CONTAINMENT TANK
<b>TECHNICAL SPECIFICATIONS</b>			
Dosing flow	L/h	7.5	7.5
Discharge counter-pressure	bars	16	16
Injection cadence	shots/minute	190	190
Volume per shot	mL	0.74	0.74
4-20 mA Input		yes	yes
BMS information		yes	yes
Treatment		Chlorine dosage, hydrochloric acid up to 37%	Soda dosage
Product code		<b>PK0027108C</b>	<b>PK0027108S</b>

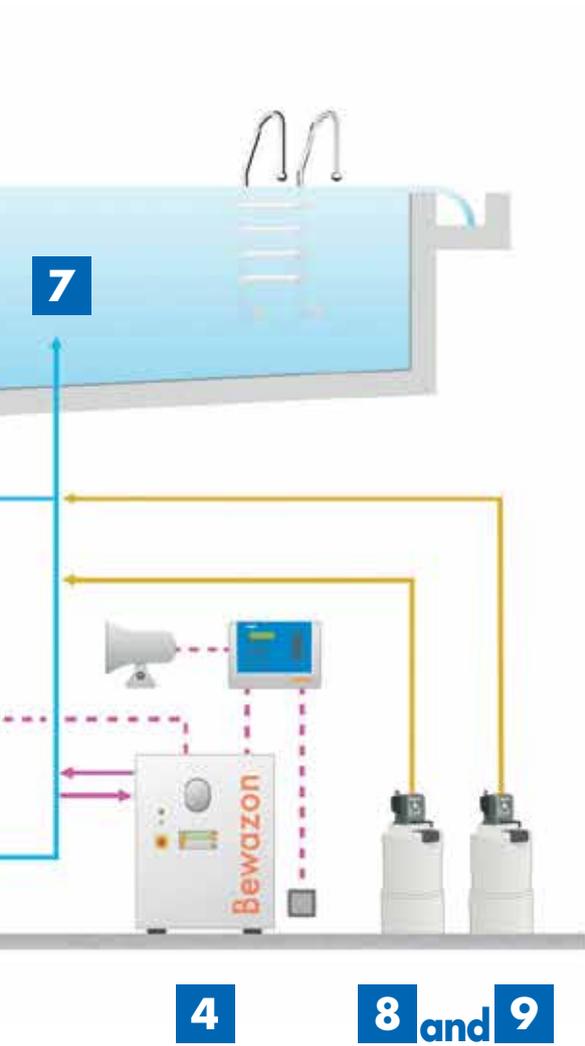
### ACCESSORIES AND CONSUMABLES

NAME	Product code
20 kg BIB of BWT CP-6001	<b>P0007951BWT</b>
20 kg BIB of BWT DW 3002	<b>P0008143ABIB</b>
Containment tank for jerricans	<b>R0028061</b>
60 L / 125 L / 140 L reagent 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>

# POOL AND POND WATER TREATMENT

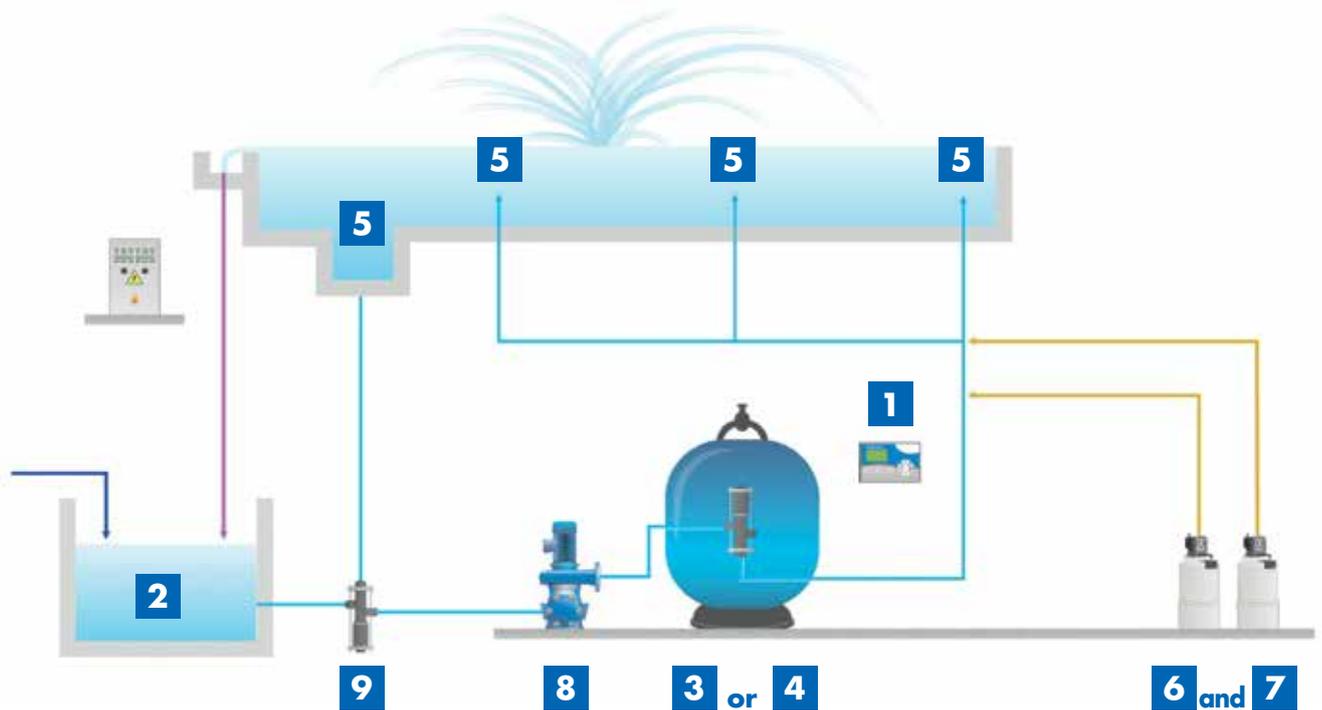
THE PROCESS AND COMPONENTS FOR BALNEOTHERAPY POOLS





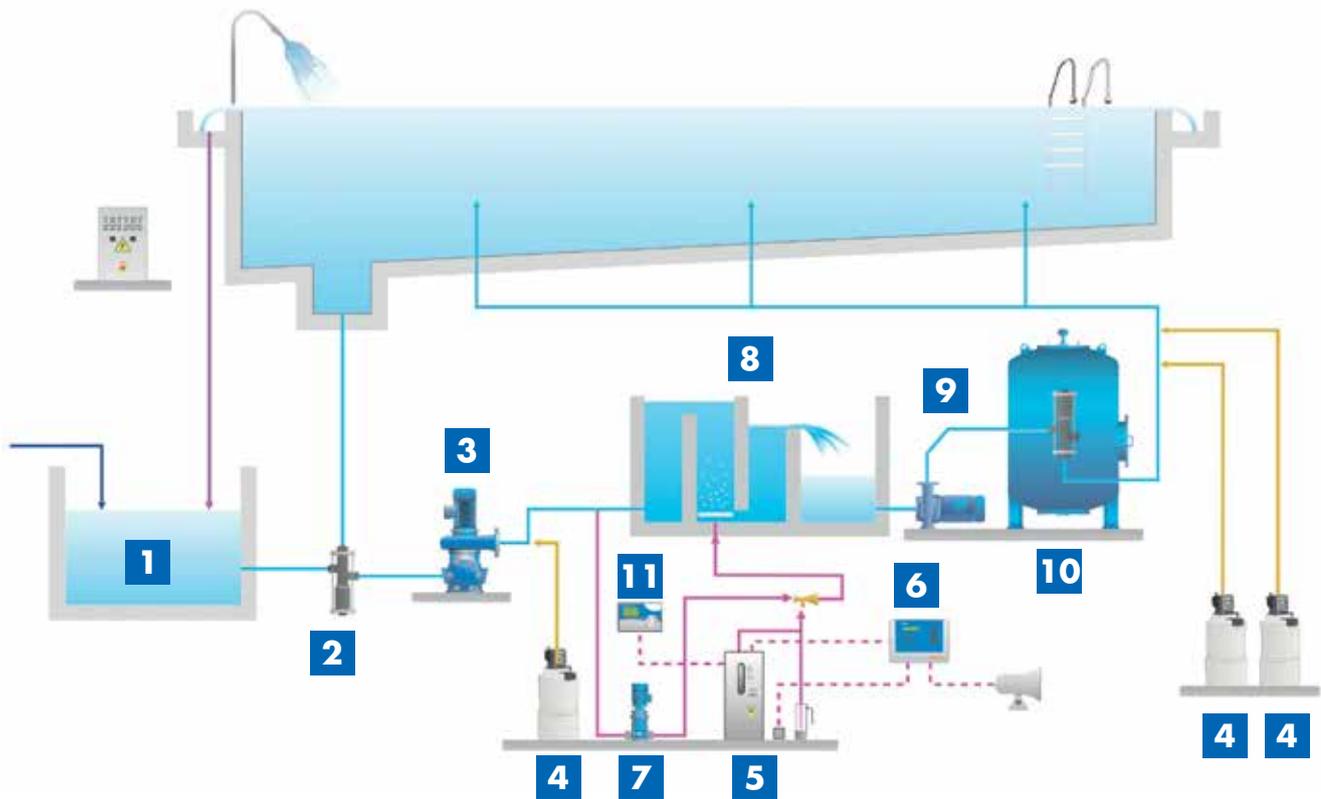
<b>1</b> LOG Analyser	<b>78</b>
<b>2</b> Water features	<b>80</b>
<b>3</b> Buffer tank	<b>81</b>
<b>4</b> Bewazon	<b>82</b>
<b>5</b> LAGOONA filter	<b>84</b>
<b>6</b> Automatic / Manual BOY filter	<b>86</b>
<b>7</b> Parts to embed	<b>88</b>
<b>8</b> Pool products	<b>89</b>
<b>9</b> MEDO dosing pump	<b>90</b>
<b>10</b> LAGOONA pump	<b>92</b>
<b>11</b> LAGOONA automatic valve	<b>94</b>

## THE PROCESSES AND COMPONENTS FOR FOUNTAINS



<b>1</b>	LOG Analyser	<b>78</b>
<b>2</b>	PE buffer tank	<b>81</b>
<b>3</b>	Lagoona filter	<b>84</b>
<b>4</b>	Automatic / Manual Boy filter	<b>86</b>
<b>5</b>	Parts to embed	<b>88</b>
<b>6</b>	Pool products	<b>89</b>
<b>7</b>	MEDO dosing pump	<b>90</b>
<b>8</b>	Lagoona pump	<b>92</b>
<b>9</b>	Lagoona automatic valve	<b>94</b>

## THE PROCESS AND COMPONENTS FOR OZONE POOL TREATMENT



<b>1</b> Buffer tank	<b>81</b>
<b>2</b> Lagoon automatic valve	<b>94</b>
<b>3</b> Lagoon pump	<b>92</b>
<b>4</b> Dosing unit	<b>70</b>
<b>5</b> Ozone device	
<b>6</b> Ozone leak detector	
<b>7</b> Ozone booster pump	
<b>8</b> Water/ozone contact tower	
<b>9</b> Booster pump	
<b>10</b> Special ozone process filter	
<b>11</b> Analyser - regulator	

*Specific equipment available on request*

*For other ozone process, please contact us.*

# LEISURE POOLS / BALNEOTHERAPY POOLS / SPAS / HOTELS

→ **Our BWT line of equipment** has been specially designed to treat the water in balneotherapy pools, spas, hotel pools and other leisure establishments. Our know-how, from design to maintenance, allows us to offer a comprehensive and bespoke solution adapted to each project.

**Public swimming pools  
and aqua centres**



**Private swimming pools  
and leisure and hotel  
pools, fitness centres  
Elderly care homes,  
hospital environment**



**Balneotherapy,  
thalassotherapy,  
spas**



## A TURNKEY SOLUTION FROM DRAWINGS TO COMMISSIONING



**Water treatment** is only optimal when it is sustainable, sure and always 100% effective. This is why BWT has a specific team available for operators and project owners to guarantee our performance:

- **a specific contract manager** to follow your project's progress
- **our expert technicians** to commission your installation
- **our regional branches** for bespoke maintenance, ready to intervene from a neighbouring location and without delay when needed



### OUR SOLUTIONS:



#### Operational assistance

Thanks to the maintenance assistance software, you can monitor tasks daily to guarantee the installation is in working order, but also to carry out preventive maintenance - from simple daily reminders to yearly maintenance.



#### Maintenance contract

We propose tailor made maintenance contracts adapted to each installation and configuration



#### Training in the use of the equipment

Your water treatment installation is delivered with training. It allows the operator to quickly become familiar with the water treatment equipment.

We provide training on site or at our headquarters. We have a French training licence number.

**French Licence n° 11 93 04002**

# BWT LOG

## ANALYSERS / REGULATORS



BWT LOG 1



BWT LOG 2



BWT LOG MULTI

## PRODUCT PLUSSES

- **User friendly configuration interface**
- **Analysis traceability** using measurement history
- **Remote viewing** via RS 485 connection or Modem (option)
- **Permanent auto-checking** of the sensors

### OPERATION

BWT LOG analysers / regulators use "current loop" technology to carry data from parameter measurement sensors.

The data from the sensors is processed by the BWT LOG analysers and used to control dosing equipment (dosing pumps, solenoids, ozone devices, etc.) or send the data to a remote location (analogue signal or RJ45 link).

### APPLICATIONS

BWT LOG analysers / regulators are for use in analysing chemical parameters in swimming pools and fountains. The BWT LOG line is composed of the following models:

- LOG 1 for pH/redox/temperature analysis
- LOG 2 for pH/chlorine/temperature analysis
- LOG MULTI for selected multi-parameter analysis

### STANDARD EQUIPMENT

LOG 1:

- 1 electronic ABS control box with back lit screen
- 1 measurement chamber
- 3 sensors : pH/rH/temperature

LOG 2:

- 1 electronic ABS control box with back lit screen
- 1 measurement chamber
- 3 sensors : pH/chlorine/temperature

LOG MULTI :

- 1 electronic ABS control box with back lit screen

Measurement chamber and sensors to be selected from the line of accessories.

## TECHNICAL SPECIFICATIONS

TYPE	LOG 1	LOG 2	LOG MULTI
<b>TECHNICAL SPECIFICATIONS</b>			
Consumption	15 W		25 W
Supply	Between 90 V and 240 V		
Operating T°	-5 to +60°C		
Dimensions (L x W x H)	235 x 185 x 119 mm		320 x 260 x 129 mm
Control box weight	1.5 kg		3 kg
Protection index	IP 65		IP 65
<b>INPUTS</b>			
Measurement inputs	2 inputs 4... 20 mA 2 potentiometric inputs		10 inputs 4... 20 mA
Control inputs	1 ON-OFF remote control input 1 chamber flow or tank level input		2 ON-OFF, pulse or flow meter remote control inputs
Metering input	1 meter or tank level pulse input		-
<b>OUTPUTS</b>			
Relay outputs	4 relay outputs with a max. power of 2 A/250 VAC 2 dry contact potential free relay outputs		6 dry contact potential free relay outputs Max 5 A/250 VAC
Analogue outputs	2 analogue outputs 0/4... 20 mA Max 500 Ω		6 analogue outputs 0/4... 20 mA Max 500 Ω
Printer outputs	1 RS232 type printer output		1 RS232 type printer output
<b>COMMUNICATIONS</b>			
Bus	1 RS485-MODBUS RTU communications bus		1 RS485 communications bus 1 offset display communications bus 1 extension module communications bus (option)
Modem (option)	1 RJ45 modem socket		1 RJ45 modem socket
Product code	<b>P0002923</b>	<b>P0002924</b>	<b>C0976975</b>

## ACCESSORIES

NAME	Product code
Universal 3 sensor chamber	<b>C0415310</b>
Universal 1 sensor chamber	<b>C0415311</b>
3 sensor piping chamber	<b>C0415315</b>
1 sensor piping chamber	<b>C0415316</b>
pH 0-14 sensor	<b>P0060055</b>
Temperature sensor -5 / 45°C	<b>P0060057</b>
Active chlorine sensor 0-10 ppm	<b>C0959553</b>
Active chlorine sensor 0-2 ppm	<b>P0060062</b>
Free chlorine sensor 0-10 ppm	<b>P0060059</b>
Free chlorine sensor 0-2 ppm	<b>P0060060</b>
Total chlorine sensor 0-10 ppm	<b>P0060066</b>
Total chlorine sensor 0-2 ppm	<b>P0060064</b>
Ozone sensor 0-2 ppm	<b>P0060091</b>
BCDM sensor 0-10 ppm	<b>P0960152</b>
BCDMH sensor 0-2 ppm	<b>P0060125</b>
rH 0-1000 mV sensor	<b>P0060058</b>



Ozone sensor



Temperature and pH sensor

# WATER FEATURES

## FUN POOL EQUIPMENT



### PRODUCT PLUSSES

- **Complete kits** (pumps, embedded parts, electro-pneumatic control box)
- **High quality** manufactured products

### APPLICATIONS

For fun pool water features, BWT has complete kits including water or air circulation parts, pumps or blowers as well as an electric control box that can be pneumatically operated from the pool.

### STANDARD EQUIPMENT

The kits are available for concrete, tiled or liner pools and are available with an ABS or 316 L grade polished stainless steel finish.

NAME	Product code
ABS counter current unit	P0006633
STAINLESS STEEL design counter current unit	P0006634
Liner kit for counter current unit	P0006635
3 nozzle ABS massage	P0006636
3 nozzle STAINLESS STEEL massage	P0006637
Liner kit for 3 nozzle massage	P0006638
4 nozzle ABS massage	P0006639
4 nozzle STAINLESS STEEL massage	P0006640
Liner kit for 4 nozzle massage	P0006641
5 nozzle ABS massage	P0006642

NAME	Product code
5 nozzle STAINLESS STEEL massage	P0006643
Liner kit for 5 nozzle massage	P0006644
Air bubble plate	P0006645
ABS water geyser	P0006646
STAINLESS STEEL water geyser	P0006647
Liner kit for water geyser	P0006648
Liner air bubble plate	P0006649
Goose neck	P0006651
Waterfall	P0006652
Liner kit for goose neck / waterfall	P0006653

# PE BUFFER TANK

## WATER RECOVERY



### PRODUCT PLUSSES

- **Corrosion proof PE tank**
- **Rectangular construction** to save space
- **Tailor made connection tappings**

### OPERATION

PE buffer tanks are used to recover and store overflow water

### APPLICATIONS

Thanks to the use of highly chlorine resistant PE, buffer tanks make it possible to collect the overflow water from pools or fountains.

### STANDARD EQUIPMENT

The buffer tanks have standard equipment including:

- 3 or 4 S100 x 8 connectors
- 3 or 4 caps with 2" reduction
- 1 S160 x 7 connector + solid cap on the 3000 and 5000 models

→ **Volume:** from 1,000 to 5,000 L

TYPE		1,000	1,500	2,000	2,500	3,000	5,000
<b>TECHNICAL SPECIFICATIONS</b>							
Volume	L	1,000	1,500	2,000	2,500	3,000	5,000
Length	mm	1,050	1,500	2,000	2,160	2,390	2,390
Width	mm	730	730	730	880	850	1,350
Height	mm	1,660	1,660	1,660	1,660	1,980	1,980
Weight	kg	50	79	118	153	210	240
Code		On request					

### ACCESSORIES

NAME	Product code
Manhole Ø 400	On request
Collar / Flange Ø 50 / DN 40	On request
Collar / Flange Ø 63 / DN 50	On request
Collar / Flange Ø 75 / DN 65	On request
Collar / Flange Ø 90 / DN 80	On request
Collar / Flange Ø 110 / DN 100	On request
Collar / Flange Ø 125 / DN 125	On request
Collar / Flange Ø 140 / DN 125	On request
Collar / Flange Ø 160 / DN 150	On request
Collar / Flange Ø 200 / DN 180	On request
Top connection kit for 2 tanks	On request
Bottom connection kit for 2 tanks	On request

# BWT BEWAZON

## OZONE DEVICE



### PRODUCT PLUSSES

- **Compact** ozone device
- **Easy to install** on new or existing pools
- **Exceptional** pool water **quality**
- **Less chlorine** in the water
- **Reduced** water consumption

### OPERATION

Ozone, produced from the oxygen in the air, is the most powerful and effective disinfectant, giving clear and odourless pool water. BWT BEWAZON ozone generators are highly compact and gather together all the elements required to produce and dose ozone in the water on a stainless steel skid. Connection is via a by-pass on the main discharge network.

### APPLICATIONS

BWT BEWAZON ozone generators are especially effective for optimum swimming pool water disinfection and dechlorination (up to 50 m<sup>3</sup> for the 1 g / h model, up to 100 m<sup>3</sup> for the 2 g / h model). Its high oxidising power makes it possible to significantly reduce the amount of chlorine in the water. Furthermore, ozone contributes to oxygenating the water, thereby improving its clearness.

### STANDARD EQUIPMENT

- BWT BEWAZON ozone generators are delivered complete with:
- an electric control and ozone production cubicle
  - a booster pump
  - a hydro-injector
  - a 316 L grade stainless steel contact and degassing tower
  - a stainless steel supporting skid

→ **Ozone production:** 1 to 2 g/h

→ **For pool volumes** up to 100 m<sup>3</sup>

## TECHNICAL SPECIFICATIONS

TYPE		BEWAZON 1	BEWAZON 2
<b>TECHNICAL SPECIFICATIONS</b>			
Ozone production	g/h	1	2
Ozone concentration	g/Nm <sup>3</sup>	20	20
Gas used		Air	Air
Air flow rate	L/h	50	80
Ambient temperature	°C	5 - 30	5 - 30
Relative air humidity, max.	%	60	60
Protection class		IP 52	IP 52
Absorption rate in water	%	95	95
Ozone / water reaction time	min	2 - 2.5	2 - 2.5
Installation water flow rate	m <sup>3</sup> /h	1.5 - 2	1.5 - 2
Min / max water temperature	°C	15 - 30	15 - 30
Maximum water pressure	Bars	1	1
Electricity supply power	W	1,250	1,300
Mains connection		3 x 400 V / N / PE, 50 Hz	3 x 400 V / N / PE, 50 Hz
Dimensions (LxHxD)	mm	800 x 1600 x 700	800 x 1600 x 700
Rated connection cross section (water inlet / water outlet)		1 ¼" outer threading / d 32, DN 25	1 ¼" outer threading / d 32, DN 25
Weight (not including packaging), approx.	kg	150	150
Product code		<b>P0800136</b>	<b>P00800135</b>

## ACCESSORIES

NAME	Product code
Ozone detection in the air system	<b>C0854002</b>
Ozone measurement cell + 2 m shielded cable	<b>C0854003</b>
Audio buzzer	<b>C0854004</b>



*Ozone detection in the air system*

# LAGOONA FILTERS

## MULTIMEDIA FILTERS



- **Flow rate:** 34 to 173 m<sup>3</sup>/h
- **Diameter:** 1,050 to 2,350 mm

### PRODUCT PLUSSES

- **Corrosion proof filter body**  
in glass fibre reinforced polyester
- **High filtering speed:** 40 m/h
- **Low space occupation** on the ground
- **Filter body, 10 years guarantee\***
- Product **manufactured in France**

### OPERATION

BWT LAGOONA filters operate using multimedia filtering using several layers of gravel and sand (surface filtering) as well as a hydro-anthracite layer (volume filtering) providing optimum water quality for minimum ground coverage.

### APPLICATIONS

Simple, effective and especially robust thanks to their polyester and glass fibre material, BWT LAGOONA filters are especially suited to treat swimming pool water and water from other ornamental pools. With a filtering speed of 40 m / h maximum, the BWT LAGOONA filter line can be used to treat flows of 34 to 173 m<sup>3</sup>/h.

### STANDARD EQUIPMENT

BWT LAGOONA filters are fitted as a standard with:

- a glass fibre reinforced polyester filter body with radial and axial filament rolling to balance pressure constraints
- an internal PVC PN10 distribution system with upper distribution cone and collector arms in the lower part
- a Ø 400 mm manhole on the upper convex bottom
- a drainage cap in the lower part
- PVC PN10 flanged I / O connectors adapted to the filter flow rates

TO be combined with:

- A multimedia filtering charge (sand + hydro-anthracite)
- A set of 5 manual valves or an automatic 5-way valve
- A BWT LAGOONA line pump

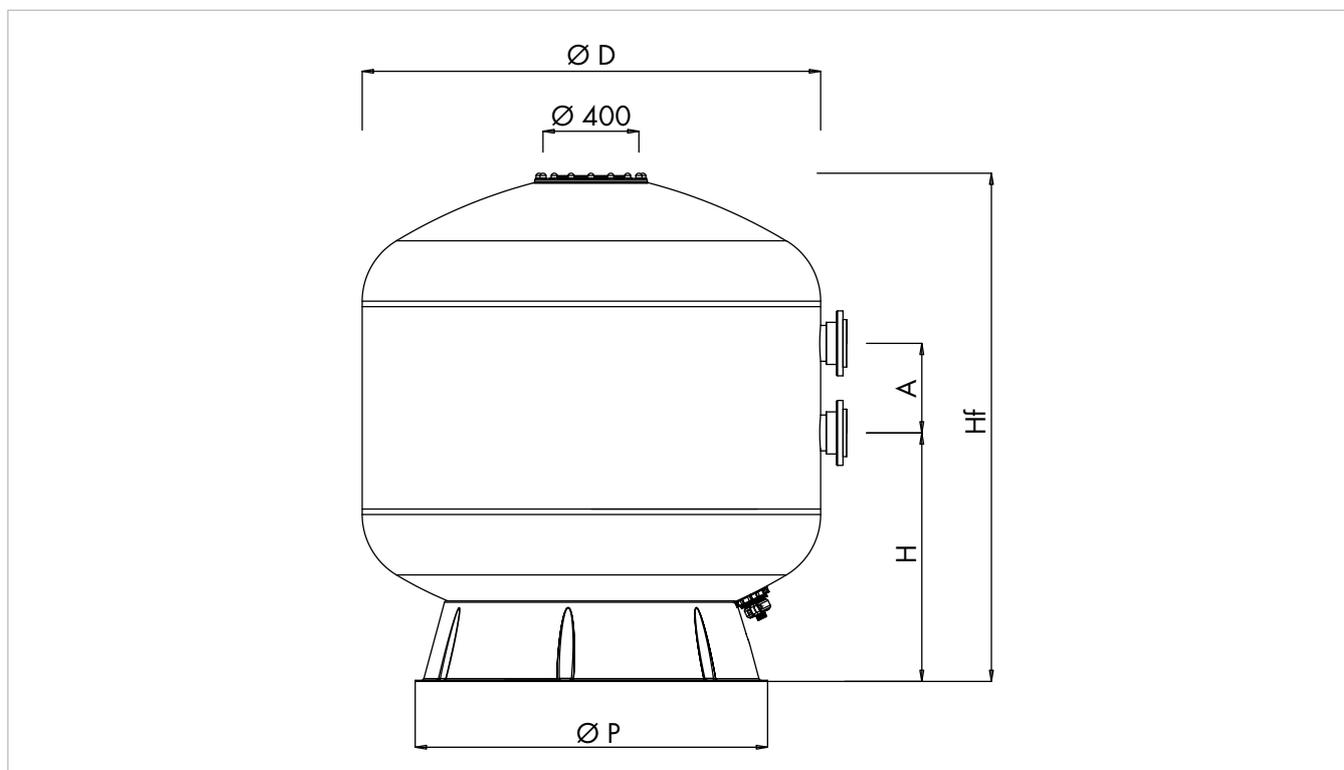
\* 10 year guarantee, depending on usage conditions. Contact us.

## TECHNICAL SPECIFICATIONS

TYPE		1,050	1,200	1,400	1,600	1,800	2,000	2,200	2,350
<b>TECHNICAL SPECIFICATIONS</b>									
Connection DN	mm	80	100	125	125	150	150	200	200
Max flow rate*	m <sup>3</sup> /h	34	45	61	80	101	125	152	173
Empty filter weight	kg	70	80	102	145	177	190	300	343
Filtering body weight	kg	1,350	1,750	2,500	3,325	4,375	5,750	6,800	10,025
Total weight with charge	kg	1,420	1,830	2,600	3,470	4,550	5,940	7,100	10,400
Service pressure	bars	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Test pressure	bars	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75
Product code		<b>P0066040</b>	<b>P0066041</b>	<b>P0066042</b>	<b>P0066043</b>	<b>P0066044</b>	<b>P0066045</b>	<b>P0066046</b>	<b>P0066047</b>
Associated filtering charge code		<b>PK0066050</b>	<b>PK0066051</b>	<b>PK0066052</b>	<b>PK0066053</b>	<b>PK0066054</b>	<b>PK0066055</b>	<b>PK0066056</b>	<b>PK0066057</b>
Associated manual set code		<b>P0066056</b>	<b>P0066057</b>	<b>P0066058</b>	<b>P0066058</b>	<b>P0066059</b>	<b>P0066059</b>	<b>P0066060</b>	<b>P0066060</b>
<b>SIZE SPECIFICATIONS</b>									
D - Inner diameter	mm	1,050	1,200	1,400	1,600	1,800	2,000	2,200	2,350
P <sub>r</sub> - Base diameter	mm	795	900	1,065	1,230	1,395	1,562	1,848	1,848
S - Filtering surface area	m <sup>2</sup>	0.87	1.13	1.54	2.01	2.54	3.14	3.80	4.34
H <sub>f</sub> - Total height	mm	2,102	2,149	2,162	2,176	2,310	2,285	2,310	2,372
H - Input shaft height	mm	925	950	960	1,030	1,060	1,110	1,050	1,085
A - I / O spacing	mm	300	300	400	400	400	400	400	400
Connection DN	mm	80	100	125	125	150	150	200	200

\* Given for a filtering speed of 40 m/h

## MEASUREMENT DRAWING



# THE BOY AUTO

## AUTOMATIC FILTER



- **Flow rate:** 6 to 32 m<sup>3</sup>/h
- **Diameter:** 610 to 920 mm

### PRODUCT PLUSSES

- **Corrosion proof filter body**  
in glass fibre reinforced polyester
- **Automatic washing**
- **Compact**

### OPERATION

BWT LE BOY filters auto operate using the surface filtering principle using several layers of gravel and sand.

Backwashing is automated using an automatic hydraulically and electrically controlled valve.

### APPLICATIONS

BWT LE BOY AUTO filters are designed for private swimming pool water or ornamental fountain type water filtering.

### STANDARD EQUIPMENT

Filter fitted with:

- a glass fibre reinforced polyester filter body
- a complete gravel and sand filtering charge
- an automatic backwashing valve
- a control box

TYPE		600	750	900
<b>TECHNICAL SPECIFICATIONS</b>				
Filter diameter	mm	620	770	920
Total height	mm	1,028	1,093	1,178
Connection DN	DN/"	50/2"	50/2"	50/2"
Flow rate at 20 m/h	m <sup>3</sup> /h	6	9	13
Flow rate at 30 m/h	m <sup>3</sup> /h	9	14	19
Flow rate at 40 m/h	m <sup>3</sup> /h	12	19	26
Flow rate at 50 m/h*	m <sup>3</sup> /h	15	24	32
Filtering body weight	kg	150	275	425
Service pressure	bars	2.5	2.5	2.5
Test pressure	bars	3.75	3.75	3.75
Product code		<b>PK0006046</b>	<b>PK0006047</b>	<b>PK0006049</b>

\*Max. recommended flow rate for fountains only.

# LE BOY MANU

## MANUAL FILTER



### PRODUCT PLUSSES

- **Corrosion proof filter body**  
in glass fibre reinforced polyester
- **Compact**
- **Simple operation**

### OPERATION

BWT LE BOY MANU filters run on the principle of surface filtering using several layers of gravel and sand.

Backwashing is manual using an ABS 6-way valve.

### APPLICATIONS

BWT LE BOY AUTO filters are designed for private and collective (hotels, balneotherapy, etc.) swimming pool water or ornamental fountain type water filtering.

### STANDARD EQUIPMENT

Filter fitted with:

- a glass fibre reinforced polyester filter body
- a 6-way manual valve

They are easy to automate using a PVC LAGOONA 5-way valve.

→ **Flow rate:** 4 to 32 m<sup>3</sup>/h

→ **Diameter:** 480 to 920 mm

TYPE		480	610	770	920
<b>TECHNICAL SPECIFICATIONS</b>					
Filter diameter	mm	480	610	770	920
Total height	mm	825	955	1,095	1,200
Connection DN	DN/"	40/1"1/2	40/1"1/2	50/2"	50/2"
Flow rate at 20 m/h	m <sup>3</sup> /h	4	6	9	13
Flow rate at 30 m/h	m <sup>3</sup> /h	5	9	14	19
Flow rate at 40 m/h	m <sup>3</sup> /h	7	12	19	26
Flow rate at 50 m/h*	m <sup>3</sup> /h	9	15	24	32
Filtering body weight	kg	75	150	275	425
Service pressure	bars	2.5	2.5	2.5	2.5
Test pressure	bars	3.75	3.75	3.75	3.75
Product code		<b>C0311001</b>	<b>C0311002</b>	<b>C0311003</b>	<b>C0311004</b>
Manual valve code		<b>C0310010</b>	<b>C0310010</b>	<b>P0006081</b>	<b>P0006081</b>
Associated filtering charge code		<b>CK0611840</b>	<b>CK0611846</b>	<b>CK0611850</b>	<b>CK0611854</b>

\*Max. recommended flow rate for fountains only.

# PARTS TO EMBED

## WATER CIRCULATION



ABS discharge nozzle



Bottom drain



Wide slit skimmer

### OPERATION AND APPLICATIONS

The embedded parts provide water circulation in the pools. The wide BWT line makes it possible to meet all technical needs (tiled or liner pools) or architectural needs (stainless steel or white ABS parts).

### DISCHARGE PARTS

NAME	Product code
ABS 2" ball and socket discharge - Concrete pool	P0066151
ABS 2" ball and socket discharge - Liner pool	P0066153
ABS 2" bottom discharge - Concrete pool	P0066157
ABS 2" bottom discharge - Liner pool	P0066156
Stainless steel 2" ball and socket discharge - Concrete pool	C0975604
Stainless steel 2" ball and socket discharge - Liner pool	C0915783
Stainless steel 2" bottom discharge - Concrete pool	C0069181
Stainless steel 2" bottom discharge - Liner pool	On request

### BOTTOM SUCTION PARTS

NAME	Product code
Bottom drain 355 x 355 - DN 100 - Concrete pool	P0066131
Bottom drain 355 x 355 - DN 100 - Liner pool	C0921746
Bottom drain 512 x 512 - DN 125 - Concrete pool	C0921070
Bottom drain 512 x 512 - DN 125 - Liner pool	C0973006

### SKIMMERS

NAME	Product code
ABS wide slit skimmer - Concrete pool	P0066165
ABS wide slit skimmer - Liner pool	P0066166
ABS small slit skimmer - Concrete pool	P0066161
ABS small slit skimmer - Liner pool	P0066162
Stainless steel wide slit skimmer - Concrete pool	On request
Stainless steel wide slit skimmer - Liner pool	On request
Stainless steel small slit skimmer - Concrete pool	C0973001
Stainless steel small slit skimmer - Liner pool	C0915782

### MISCELLANEOUS PARTS

NAME	Product code
ABS floater operated level regulator	P0065910
ABS 2" embedding sleeve - L 250 mm	P0066172
ABS Brush socket - Concrete pool	P0066141
ABS Brush socket - Liner pool	P0066142
Stainless steel Brush socket - Concrete pool	C0975605
Stainless steel Brush socket - Liner pool	C0915784
Other parts	On request

# PRODUCTS

## WATER CONDITIONING

### PROFLO LINE

A complete line for pool water treatment.

### BWT LINE

Products from the BWT product line that can be used in pools.



### PROFLO LINE

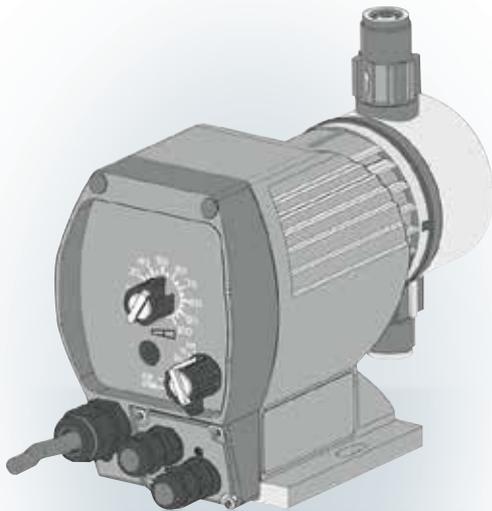
NAME	USE	CONDITIONING	Item code
ProFlo Alg	Algaecide	5 L container	P0063001
ProFlo Plus	pH increase	5 kg tub	P0063005
ProFlo Minor P	pH reduction	8 kg tub	P0063008
ProFlo Minor L	pH reduction	10 L container	P0063010
ProFlo HC 32	pH reduction	23 kg container	P0063012
ProFlo Stab	Chlorine stabiliser	10 kg tub	P0063025
ProFlo Dic	Chlorinated disinfectant	10 kg tub	P0063031
ProFlo Tri-T	Chlorinated disinfectant	10 kg tub	P0063042
ProFlo Activ	Chlorinated disinfectant	5 kg tub	P0063050
ProFlo Cal	Chlorinated disinfectant	5 kg tub	P0063055
ProFlo Hypo 48	Chlorinated disinfectant	25 kg container	P0063048
ProFlo Sap	Flocculant	10 kg tub	P0063086
ProFlo PAC	Flocculant	24 kg container	P0063084

### BWT LINE

NAME	USE	CONDITIONING	Item code
CP-5010	pH reduction	25 kg container	P0008378
CP-6001	pH increase	20 kg Bag-in-box	P0007951BIB
SH-7001	Chlorine neutraliser	20 kg Bag-in-box	P0008047BIB

# MEDO P1 & P9

## DOSING PUMPS



### PRODUCT PLUSSES

- *Directional connectors*
- *Corrosion resistant materials*
- *Air or water controlled*
- *Control kit included*
- *Reset to 0 if there is a malfunction*

### OPERATION

BWT MEDO P1 and P9 dosing pumps are electromagnetic PTFE coated membrane pumps.

The dosing flow rate is adjusted by altering the stroke length and the pulse frequency.

An external contact control can be used to couple to a BWT LOG line analyser / regulator.

### APPLICATIONS

By their simple and robust design (corrosion proof materials that withstand the most aggressive chemicals), BWT MEDO P1 and P9 dosing pumps are specially designed for the chemical treatment of pools and fountains.

The dosing pumps can be used with all the products from the BWT ProFlo line.

### STANDARD EQUIPMENT

The dosing pumps are delivered complete and ready to install with:

- a flexible suction tube with a dry contact ballasted low level
- an external control cable
- a single injection tube
- 2 m of PE tubing

→ **Flow rate:** 1.1 to 9 L/h

→ **Pressure:** up to 16 bars

## TECHNICAL SPECIFICATIONS

TYPE		MEDO P1	MEDO P9
<b>TECHNICAL SPECIFICATIONS</b>			
Max. dosing flow	L/h	1.1	9
Pressure at max. flow rate	Bars	16	3
Coupling diameter	mm	4/6	4/6
Suction height	mCE	6	2
Input power	W	10.5	10.5
Electricity supply	V/Hz	230/50	230/50
Peak power	A	1.5	1.5
Protection		IP65	IP65
Min / max storage temperature	°C	-10/+45	-10/+45
Max. fluid temperature	°C	60	60
Length	mm	213.3	210.3
Width	mm	92.5	92.5
Height with connectors	mm	152	175
Weight	kg	1.8	1.8
Code		<b>P0027132</b>	<b>P0027133</b>

## ACCESSORIES

NAME	Product code
Cleanable injection pipe	<b>C8023051</b>
Pressure holding relief valve	<b>P0959560</b>
140 L dosing tank	<b>R0027971</b>
Containment tank for 140 L tank	<b>R0028011</b>
250 L dosing tank	<b>C0220802</b>
Containment tank for 250 L tank	<b>P0979052</b>
500 L dosing tank	<b>C0220803</b>
Containment tank for 500 L tank	<b>C0922273</b>
PE 4/6 tube	<b>C0690661</b>
PTFE 4/6 tube	<b>P0028212</b>
Electric mixer - stainless steel shaft	<b>C0910001</b>
Electric mixer - PVDF shaft	<b>C0910002</b>

# LAGOONA PUMPS

SPECIFIC POOL AND POND PUMPS



## PRODUCT PLUSSES

- Manufactured in **corrosion proof materials**
- **Self priming** up to 3 m above the water level
- **Perfectly watertight** thanks to maintenance free mechanical stuffing
- **No contact** between the circulating water and the shaft/motor unit
- **Large pre-filter basket** with clear cover

## OPERATION AND APPLICATIONS

BWT LAGOONA pumps are specially designed to treat swimming pool and ornamental pool water.

Thanks to their single part design and reduced size, BWT LAGOONA pumps are easy to install and maintain.

High capacity pre-filter with a clear cover, easy to handle, to space out maintenance frequency and block all impurities that might prevent the pump from running.

BWT LAGOONA pumps are manufactured using glass charged polypropylene making them highly resistant to chlorinated water.

## STANDARD EQUIPMENT

BWT LAGOONA pumps are delivered with:

- union glue-on connectors for simple and easy assembly.
- a key to open and close the pre-filter cover.

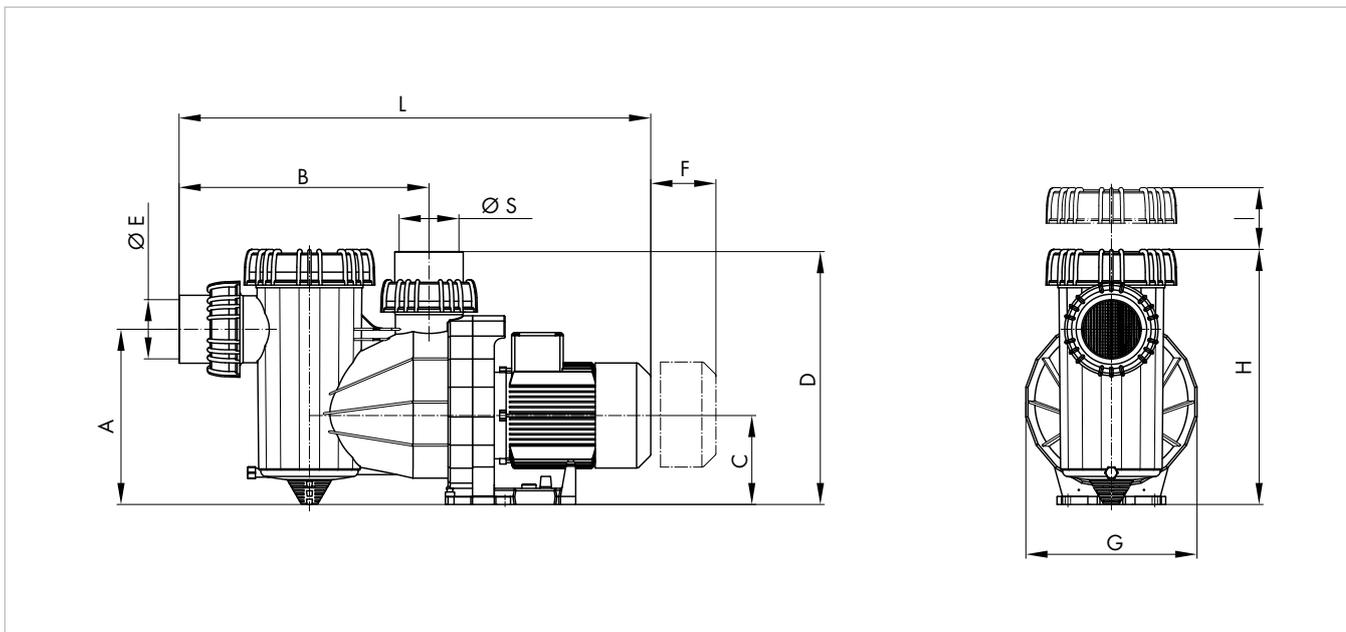
→ **Flow rate:** from 7 to 100 m<sup>3</sup>/h

## TECHNICAL SPECIFICATIONS

TYPE		7 M/T	14 M/T	18-26 M/T	34	45	60	100
<b>TECHNICAL SPECIFICATIONS</b>								
Flow rate	m <sup>3</sup> /h	7	14	26	34	45	60	100
H.M.T	mCE	13	13	13	12	12	13	12
Connections	"/DN	2"/DN50	2"/DN50	2"/DN50	3"/DN80	4"/DN100	4"/DN100	4"/DN100
Voltage	V	M: 230 V T: 400 V	M: 230 V T: 400 V	M: 230 V T: 400 V	400 V	400 V	400 V	400 V
Power	kW	0.7	1.3	2.2	2.7	3.8	4.8	6.4
Intensity	A	M: 3.2 A T: 1.25 A	M: 5.8 A T: 2.5 A	M: 9.4 A T: 3.7 A	4.6	6.2	7.8	11.0
Weight	kg							
Product code		M: P0906198 T: P0065919	M: P0065902 T: P0065906	M: P0906200 T: P0906201	C0069069	C0069070	C0069080	C0069110

<b>SIZE SPECIFICATIONS</b>								
A	mm		245				325	
B	mm		325				460	
C	mm		105				165	
D	mm		321				469	
Ø I/O	"/DN		2"/DN50		3"/DN80		4"/DN100	
F	mm				120			
L	mm	610	660	On request	858	888		905
G	mm		274				315	
H	mm		343				473	
I	mm		230				380	

## MEASUREMENT DRAWING



# LAGOONA VALVES

## AUTOMATIC 3 AND 5 WAY VALVES



→ **Flow rate:** 11 to 100 m<sup>3</sup>/h

→ **DN:** 40 to 125

### PRODUCT PLUSSES

- *Directional connectors*
- *Corrosion resistant materials*
- *Air or water controlled*
- *Control kit included*
- *Reset to 0 if there is a malfunction*

### OPERATION

LAGOONA line automatic 3 and 5 way automatic valves are controlled by the pressure of the tap water network or using compressed air (dry and degreased).

If there is a power failure or control fluid failure, a return spring returns the valve to its initial position.

### APPLICATIONS

The BWT LAGOONA 3 and 5 way automatic valves are specially designed for the hydraulic automation of pool water or ornamental pool water treatment chains:

- 5 way valve: automated filter washing
- 3 way valve: distribution of the recycling pump's intake flow to the pool bottom or the buffer tank, or addition of a filter backwashing phase.

### STANDARD EQUIPMENT

The valve is delivered complete with its control kit composed of:

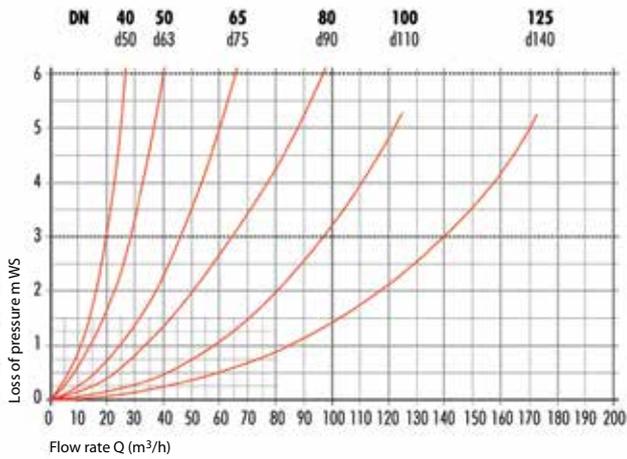
- a 230 V control solenoid
- a pressure gauge
- an isolation tap
- a screen filter

For easy connection to LE BOY MANU filters, the 5 way DN 40 and D 50 valves are delivered with the adapter connections.

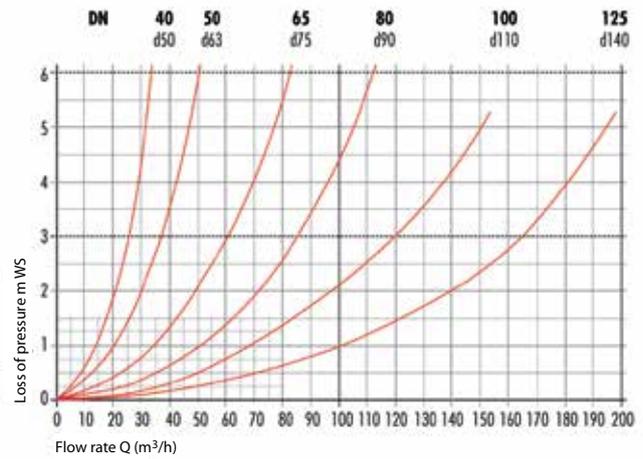
## TECHNICAL SPECIFICATIONS

TYPE		40	50	65	80	100	125
<b>TECHNICAL SPECIFICATIONS</b>							
Connection DN	DN	40	50	65	80	100	125
Flow at $\Delta P = 0.1$ bar - 5 way valve	m <sup>3</sup> /h	11	14	25	33	57	84
Flow at $\Delta P = 0.1$ bar - 3 way valve	m <sup>3</sup> /h	14	20	34	51	82	100
Total length - 5 way valve	mm	644	652	897	1,075	1,321	1,598
Total width - 5 way valve	mm	129	164	254	298	358	443
Filter I / O spacing	mm	190	190	250	300	360	450
Total length - 3 way valve	mm	454	507	647	775	952	1,148
Total width - 3 way valve	mm	129	164	254	298	358	443
5 way valve weight	kg	4.3	6.4	7.8	13.5	21.5	45.0
3 way valve weight	kg	3.2	4.7	7.0	12.5	19.5	35.0
5 way valve code		<b>CK0915001</b>	<b>CK0915000</b>	<b>CK0915002</b>	<b>CK0915003</b>	<b>CK0915004</b>	<b>CK0915005</b>
3 way valve code		<b>CK0915006</b>	<b>CK0915007</b>	<b>CK0915008</b>	<b>CK0915009</b>	<b>CK0915010</b>	<b>CK0915011</b>

## FLOW RATE AND LOAD LOSS GRAPHS



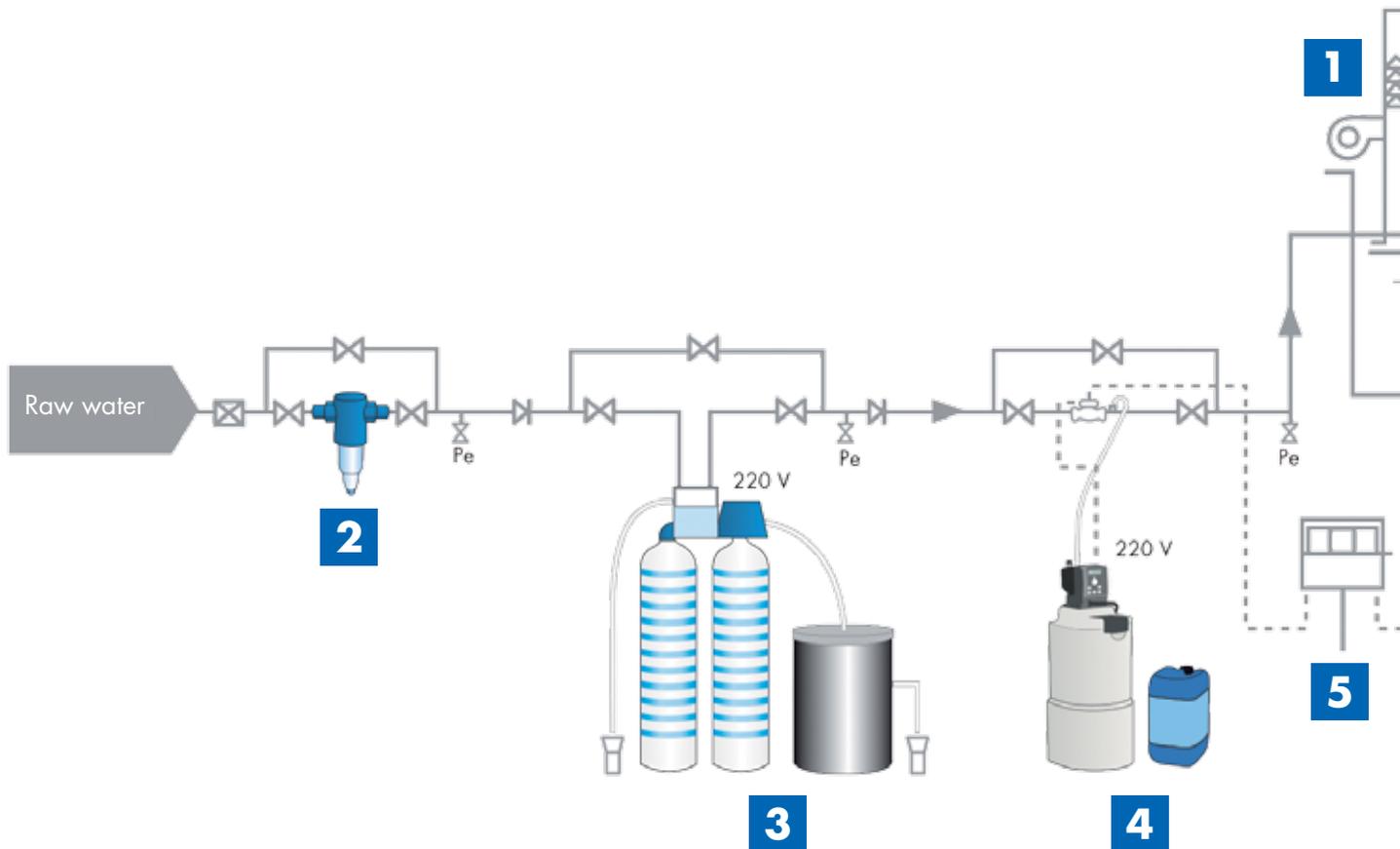
5 way valve

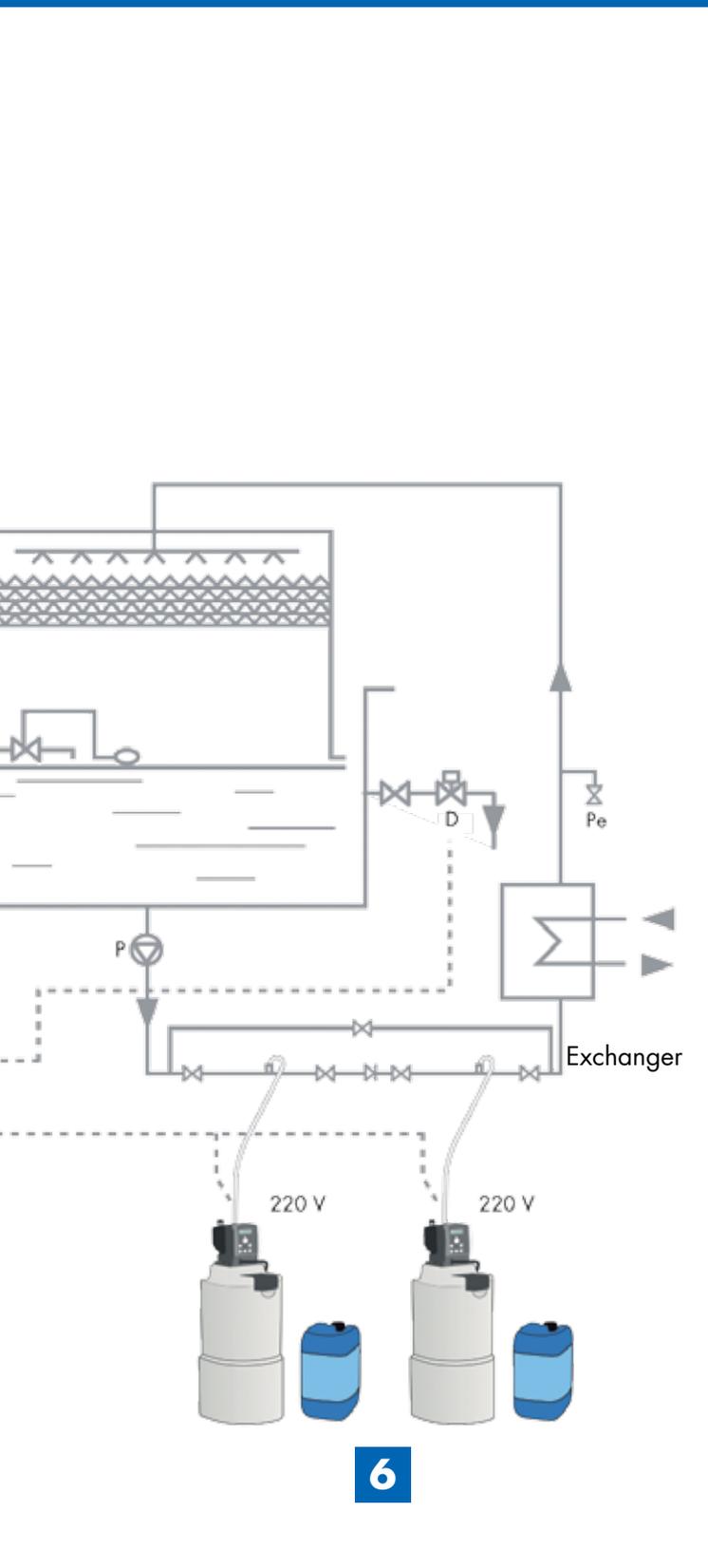


3 way valve

# INDUSTRIAL UTILITIES

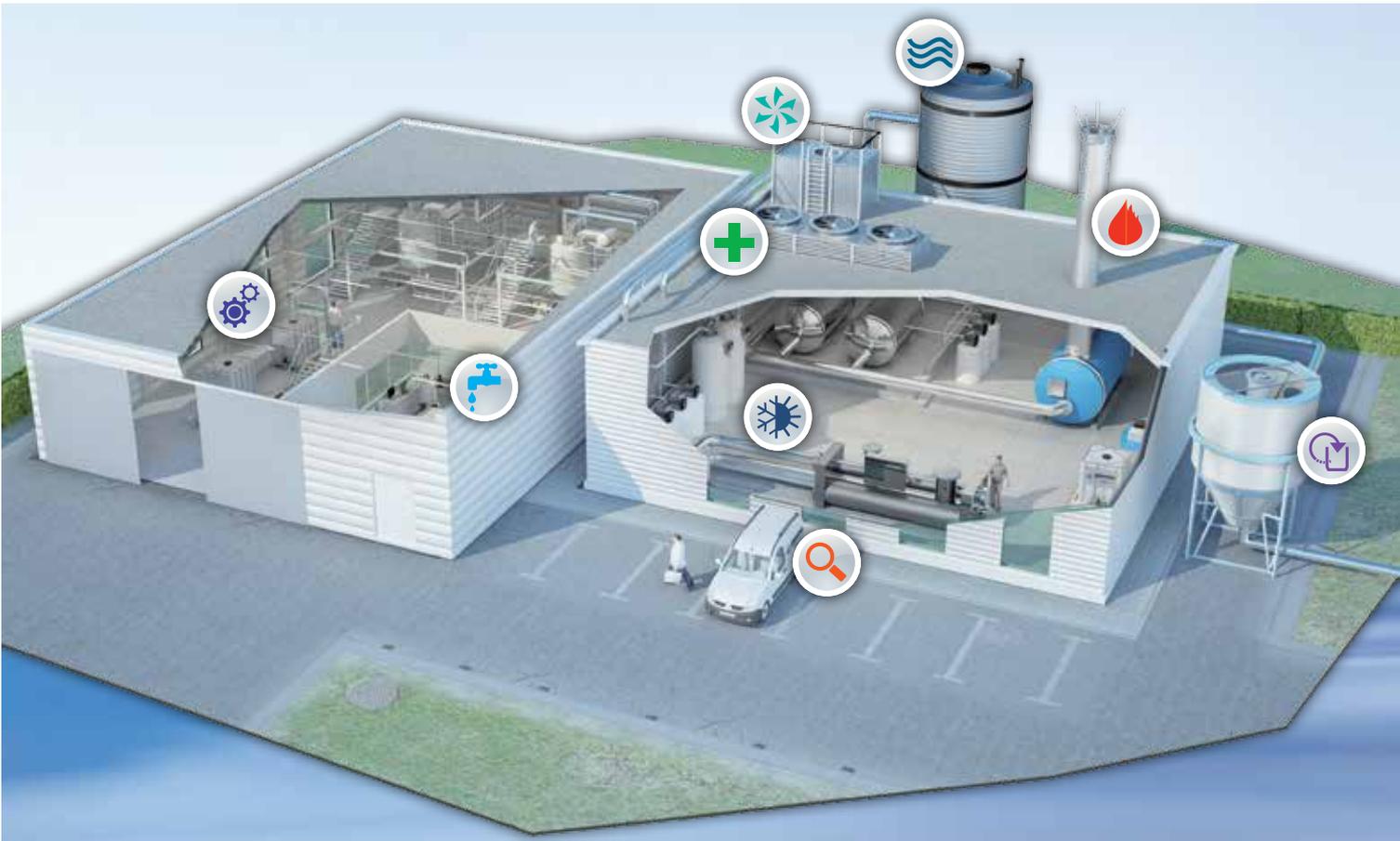
## THE PROCESS AND COMPONENTS FOR AN AIR COOLING TOWER





- 1** Atmospheric air cooler
- 2** Filter
- 3** Softening  
(built-in mixing valves and meter)
- 4** Scale and corrosion treatment
- 5** Automatic deconcentration box
- 6** Oxidant biocide / Organic biocide  
*Alternating treatment using 2 different biocides*

# PRODUCTS FORMULATED FOR INDUSTRIAL WATER CONDITIONING



## → BWT expertise

- In its status of equipment and formulated product manufacturer, BWT is **a unique player on the water treatment market**, capable of offering you the most comprehensive solution to your problems.
- BWT formulations are produced in **three European plants** within the group and are distributed by its seventy subsidiaries and participations throughout the world, and especially in Europe.
- Each subsidiary has **storage warehouse** to be as close as possible to its clients.

## INDUSTRIAL PROCESSES

- Treatment of infectious and assimilated healthcare waste IAHW\*
- Treatment of vacuum pumps, boilers
- Treatment of pasteurisers, sterilisers, autoclaves
- Treatment of very low conductivity process circuits
- Treatment of geothermal wells

## GLYCOL WATER

- Supply of technical or sanitary anti-freeze approved by the French Health Ministry
- Complex formulation used to control scale deposits and corrosion
- Cleaning treatment
- Recovery of spent fluids, recharging with new heat transfer fluid

## COOLING CIRCUITS

- Control of scaling, corrosion, biological growth and more especially legionellosis
- Definition of treatment programmes in order to optimise water consumption
- Curative descaling, de-oxidation and passivation programmes
- Innovating disinfection treatments

## RAW WATER

- Control of scale deposits and corrosion
- Electrolysis based or chlorine dioxide based disinfectant treatment
- Flocculation – Coagulation to precipitate MIS\*
- Iron and manganese removal

## LOW, MEDIUM AND HIGH PRESSURE STEAM PRODUCTION, SUPERHEATED WATER

- Organic or mineral oxygen reducers
- Dispersive, alkaline, phosphating treatments
- Condensate treatment
- Products with FDA\* and AFFSA\* food grade licences
- HP product techniques with turbines

## POTABLE WATER

- Control of scaling and corrosion, using formulations approved for water for human consumption
- Processes covered by CSTB\* technical notices
- Disinfectants authorised for potable water
- Preventive and curative solutions for legionellosis

## MULTI-METAL, ICED WATER AND HEATING CLOSED CIRCUITS

- Processes covered by technical notices
- Innovating treatment for circuits containing aluminium
- Dispersive products, multi-metal corrosion
- Products from plant chemistry
- De-sludging, degreasing and deoxidising products

## REAGENTS AND ANALYSIS EQUIPMENT

- On line on site analysers
- Mobile portable analysers
- Analysis reagents for most physical-chemical parameters
- Compatibility with most common analysis equipment
- Analytical monitoring advice and training

## EFFLUENTS

- Flocculants, coagulants, foam controls and nutriment
- Capture of MIS and colloidal materials
- Treatment of COD\*
- Oil/water, hydrocarbon/water emulsion breakers
- Reduction of nitrogen, phosphorus and production by-product pollution.
- Sludge dehydration
- Detoxication (heavy metals, fluorides, etc.)
- Innovating low environmental impact products

\* DASRI : Infectious and Assimilated Healthcare waste

CSTB: Centre Scientifique et Technique du Bâtiment

MIS: Matter in suspension

AFFSA: Agence Française de Sécurité Sanitaire des Aliments

FDA: Food And Drug Administration

COD: Chemical Oxygen Demand

# SERVICES

## → By accompanying you, BWT

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

### 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.





# 7

- BWT SERVICES **102**
- BWT CONTRACTS AND COMMISSIONING **103**
- ANALYSIS SERVICES **104**
- DOMESTIC HOT WATER DISINFECTION SERVICES **105**

# 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



## → 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)

# 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 BIIOSTIL 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>OSMOSIS UNIT</b> BWT PERMAQ	<b>350.0 €</b>
<b>CHLORINATION</b> BWT ECOBOX ECS / BWT ECOREDOX / BWT MULTICONTROL	
<b>SOFTENERS</b> BWT 8400 to 81250	
<b>FILTERS</b> BWT 2000 and 2500	<b>490.00 €</b>

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

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

# 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



### DIAGNOSIS

- Communication of technical data: context, analysis results...
- Coordination of your teams
- Site readings
- Recommended emergency measures if contamination is found



- **Design of a technical and commercial proposal**
- **Bespoke operating protocol**



### DISINFECTION SERVICE

- Site review (access, securing, user information)
- Technical team coordination
- Installation of required equipment (dosing unit, treatment products...)
- Protocol implementation



- **Issue of the end of work report**
- **Disinfection certificate**



### CONTROLS

- D+2 control analysis
- Treatment or preventive equipment recommendation
- Contract proposal: physical-chemical or bacteriological analysis contract, equipment maintenance...

## 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

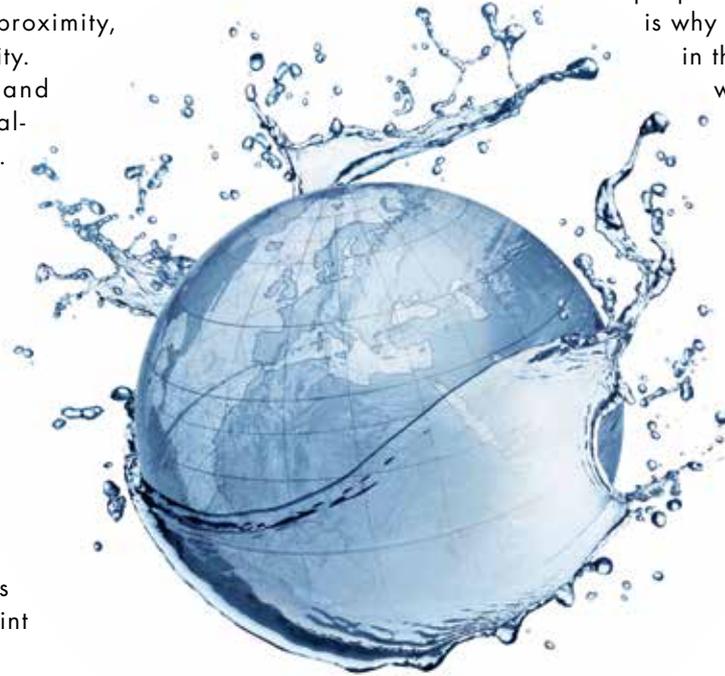
The parties undertake to attempt to settle their differences out of court before referring to the competent court.

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:**

[www.bwt.fr](http://www.bwt.fr)

