Catalog 2025

BWT water treatment solutions for export

BWT

Europe's leading water treatment company

An expert in water treatment for over 30 years, the BWT Group offers a complete range of products and services to transform any water, whether mains water or tap water, into a high-quality fluid that meets the hygiene, safety and energy comfort requirements expected by our customers.

5,500 **Employees** worldwide, including **+ 600 employees** for BWT France

13 **R&D centres**
3 BWT France **sites**

12 Production **sites** of which **3** BWT France **sites**

€1.4 billion **turnover** for the BWT group, including **€135 million** for BWT France

Our know-how for all markets

Wherever there is water, BWT is there to provide optimum water for domestic, professional, local authority and industrial use.

Our Water cooler offer

BWT offers a range of water coolers as part of a more sustainable, more economical and simpler approach. This means you can choose to drink local water rather than bottled water. Our water coolers can be adapted to any space (offices, reception areas, public buildings, etc.) and offer filtered, fresh or carbonated water at will.

Contents

BWT its key commitments

In response to current and future societal and environmental challenges, BWT is committed to a Corporate Social Responsibility (CSR) approach, adopting real actions on a daily basis. As a market leader, BWT France strives to strengthen its business with innovative, sustainable and digital solutions. Our objective is twofold: to guarantee the satisfaction of our customers and to reduce everyone's environmental impact.

Our quality guarantees

ISO 9001 & ISO 45001 certifications

9001: Quality

45001: Health & Safety at

EcoVadis Medal

Our Silver Top 15% medal rewards BWT for its CSR actions and performance in 4 areas:

- Environment
- Ethics
- Social and human rights
- Responsible purchasing

Our commitments enable us to rank in the top 15% (percentile of 85 or more), based on companies rated in the last 12 months by Ecovadis, across all sectors.

*Sustainable development objective.

Our contribution to the United Nations SDGs

Developing innovative, sustainable solutions to improve water quality: with our innovations such as BWT SoluTECH powder, BWT ECO-MX, BWT ECO-UV and the Alternative Chemistry approach.

Reducing water consumption to ensure sustainable management with more economical equipment ranging from our domestic water softeners to our BWT Plug & Reuse container. This makes it easier to test water recycling prior to investment.

Ensuring safe and conscientious working conditions.

Ongoing investment in research and development of innovative, sustainable water treatment**technologies** .

90% reduction in the use of plastic in our production operations at Saint Denis.

Reducing the number of chemical pick-ups on our production site without impacting customer satisfaction.

Building a better future, for you and for the planet.

At BWT, Corporate Social Responsibility (CSR) is more than just a principle; it is the backbone of our value chain and permeates all our markets: individual housing, tenement and service sector buildings, industry, Pharma & Biotech and Hospitality.

As a leader in water treatment, we are fully aware of our essential role in the sustainable management of natural resources. We are committed to minimising our environmental footprint and promoting environmentally responsible growth.

Every day, thanks to the commitment of our teams, we are helping to build a sustainable, resilient future that respects water and the planet.

Sébastien MARLIER
BWT France Managing Director

Working with our solutions means:

More sustainable manufacturing

- By focusing on responsible design: less plastic, less packaging, kraft cardboard, reduced quantities of materials, etc.
- For example, by encouraging local production of our water softeners.

Services and manufacturer's warranties

- By offering product warranties of up to 10 years on main parts.
- Including commissioning and maintenance contract carried out by our technicians.
- By creating digital tools to simplify local monitoring and assistance, to make it easier to get to grips with any situation.

Product repairability

- By providing access to spare parts for the entire life of the product and beyond for essential products.
- By guaranteeing that the appliance will always be repaired at a lower cost than replacing it (for our water softener range).

Our commitments are based on 4 pillars

To help you consume water more sensibly and efficiently, adopt responsible practices in your buildings and guarantee quality water throughout the life cycle of your facilities.

Reducing energy consumption

Optimised water treatment helps maintain the performance of heating systems by preventing scale build-up and the damaging effects of corrosion.

By limiting these problems, installations consume less energy, operate more efficiently and last longer, helping to reduce costs and the environmental impact.

Focus on...

FILTERS AND CLARIFIER FILTER UNITS
Removes solid impurities, sludge, suspended matter, oxides and magnetisable particles. Preventive or curative treatment.

Environmental benefit:
- improves the energy performance of networks,
- reduces the consumption of packaging products.

p. 58

BWT AQA THERM
Water circuit filling manifold with softened or demineralised water.

Environmental benefit:
- no water or salt consumption,
- without electricity.

p. 62

Improving the sustainability of buildings

Well-maintained, regularly monitored installations fitted with BWT repairable equipment guarantee greater equipment durability. By extending their lifespan, you reduce the need to replace them and optimise the durability of your buildings, while promoting a more sustainable and responsible approach.

Focus on...

BWT AQA Confiance contracts

Guarantee optimum water quality, reliability and performance of water treatment installations thanks to the expertise of BWT technicians, located throughout France, whose proximity ensures optimum response times.

Environmental benefit:
- equipment durability,
- maintaining initial performance.

p. 16

Preserving water resources

More water-efficient equipment and environmentally-friendly treatments significantly reduce the impact on natural ecosystems. By adopting these virtuous solutions, we are helping to preserve water resources while protecting our environment more widely.

Focus on...

BWT PERLA PRO XL
New-generation water softener

Environmental benefit:
- water and salt savings thanks to its Top-Out design.

p. 74

BWT ECO-42 090
The result of "Alternative Chemicals by BWT", the cleaning and desludging product reduces the impact on discharge thanks to its biodegradable, pH-neutral and phosphorus-free formulation.

Environmental benefit:
- non-toxic,
- reduced rinsing operations on new works.

p. 112

Protecting building occupants

Effective, appropriate water treatment prevents bacteriological risks, guaranteeing safe, high-quality water.

This protects occupants, particularly in care and health establishments, where health control is essential to their well-being and safety.

Focus on...

BWT BIOX
Disinfection of water for human consumption using a stable chlorine dioxide solution.

Environmental benefit:
- less oxidant in water discharged into drains,
- no organochlorine by-products.

p. 86

BWT ECO-MX
Disinfection of water in cooling circuits or for human consumption using a solution generated by salt electrolysis.

Environmental benefit:
- disinfectant not classified for health or the environment,
- from water, salt and electricity.

p. 90

Together, we can build a sustainable future.

We are here to **maintain your facilities**

BWT Service Pro

From commissioning to analytical monitoring, our BWT technicians will support you throughout your water treatment cycle to keep your facilities running smoothly and guarantee optimum water quality.

Full support

- Commissioning
- After-sales service with manufacturer's parts
- Maintenance of your technical installations
- On-site training
- Audit of facilities
- Areas for improvement
- Analytical Monitoring

Over 6,500
contracts

Over 5,000
commissioning
per year

110
technicians
throughout France

DID YOU KNOW?

Our qualified experts are specialists in terms of your equipment and your business:

- an average of almost 10 years' experience for the technical team,
- ongoing team training,
- strict compliance with safety regulations on the work site.

Focus on...

Disinfection and protection of your sanitary networks

Disinfection must be provided for general cold water (GCW) and domestic hot water (DHW) installations in order to ensure that water quality complies with regulatory requirements as soon as a new installation is commissioned, or after work has been carried out on or shutdown of an existing installation.

BWT can help you with disinfection

Diagnosis

Design of a technical and commercial offer
Tailor-made operating protocol

- Handover of technical information: context, analysis results, etc.
- Coordination with your teams,
- Site survey,
- Recommendations for emergency measures in the event of proven contamination.

Disinfection services

Issuing of a site completion report
Certificate of disinfection

- Site review (access, safety, user information),
- Coordination of technical teams,
- Installation of the necessary equipment (dosing pumps, PPE, treatment products, etc.),
- Protocol implementation.

Inspection

Disinfection monitoring and support

- Control analyses at D+2,
- Recommendations for preventive treatment or equipment,
- Contract proposal: physico-chemical or bacteriological analysis contract, equipment maintenance, etc.

The BWT AQA Confidence Contract,

for 100% sustainable maintenance

BWT Aqa Confidence Vital and Premium maintenance contracts give you a number of advantages:

+ SAVINGS

» **Cheaper** compared with one-off call-outs.

» **Energy savings** thanks to well-maintained appliances.

» **Longer device lifespan**.

+ COMFORT

» **Annual service** systematically scheduled by us. Automatic parts supply.

» **Troubleshooting**.

» **Optimising settings** and performance.

+ SAFETY

» **We guarantee the quality** of the distributed water.

» **Compliance with technical** maintenance obligations.

» **Expertise of our BWT regional agencies** certified ISO 9001, ISO 45001 and Responsible Care.

Find out more

on our AQA Confidence Vital and Premium policies:

	VITAL 1 visit/year	PREMIUM 1 visit/year
Consumables included every year	Filter cartridges (limited to one set of 3 cartridges/year) 1 × Aqa Clean Pack	
Right to warranties - with a discount on non-contractual spare parts	» Warranty on worn parts only » 20% on non-contract spare parts	All-inclusive: parts, OM and travel warranty
Upstream Downstream WH analysis of the appliance during each visit	YES	YES
Maximum contract duration	OPEN-ENDED	9 YEARS (Subscription only in the year in which the new appliance is commissioned)
Breakdown service outside contract included	NO	YES
Service report on each visit	YES	YES

Focus on...

10 key points for softener maintenance!

1. Check hydraulic assembly for leaks.
2. Check and inspect the various phases of the softener cycle.
3. Check the programming.
4. Systematic cartridge replacement (for existing filter).
5. Hardness analysis before and after the softener.
6. Brine valve inspection.
7. Check the salt level in the tank.
8. Disinfection of salt tank and softening resins.
9. Analysis of chloride content upstream and downstream of the device.
10. Calculation of softener cycle (m^3).

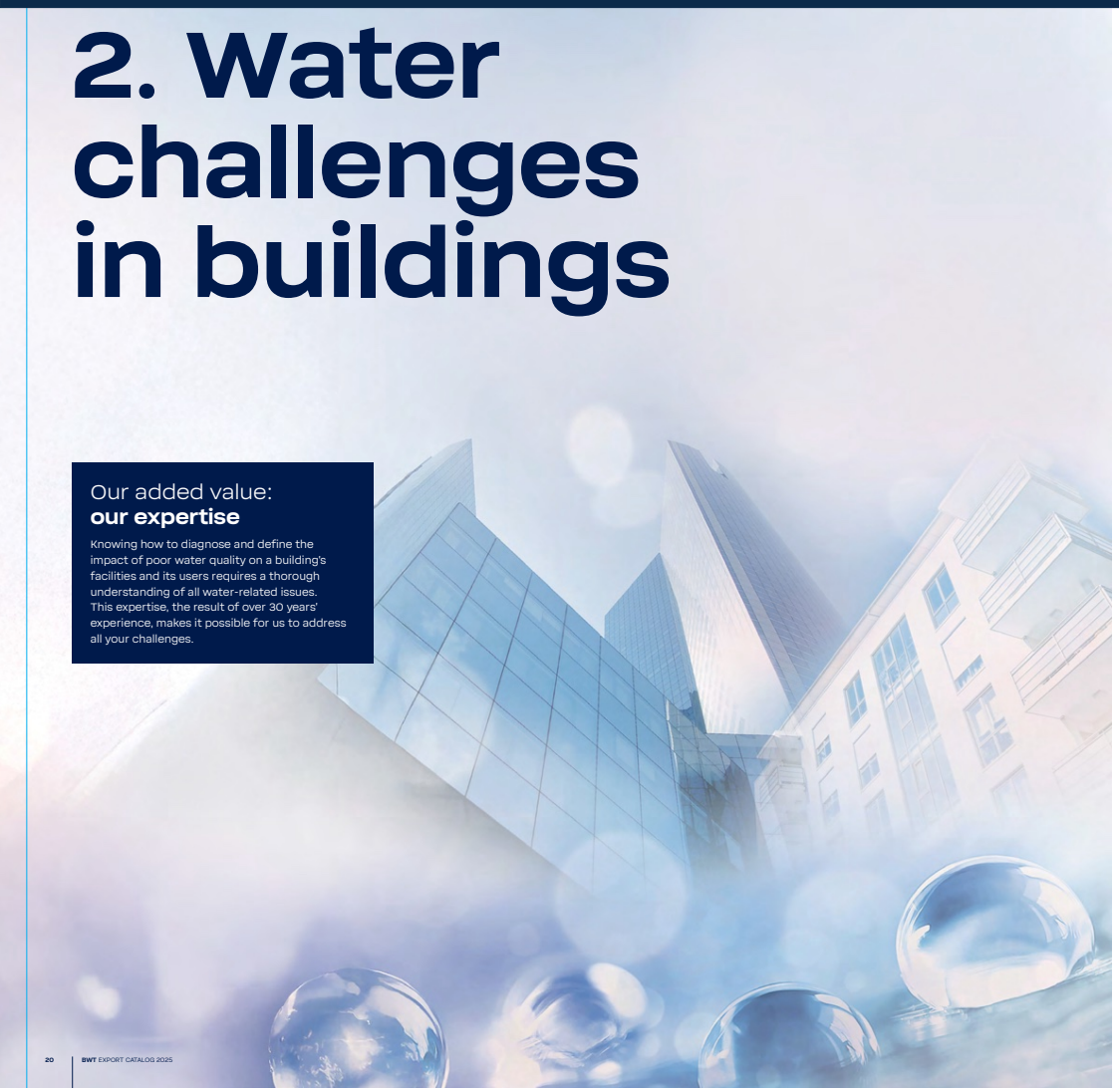
GOOD TO KNOW

» Water treatment systems are covered by article R1321-61 of the French Public Health Code and must therefore be regularly checked and maintained.

» BWT supports you in this process with the BWT Aqa Confiance maintenance contract, specially adapted to each BWT appliance.

BWT Service
is a matter of trust!

2. Water challenges in buildings



Our added value: **our expertise**

Knowing how to diagnose and define the impact of poor water quality on a building's facilities and its users requires a thorough understanding of all water-related issues. This expertise, the result of over 30 years' experience, makes it possible for us to address all your challenges.

A number of crucial issues depend on the quality of the water circulating in the networks.

Poor water quality can result in the presence of limescale, corrosion, mud, or even certain undesirable bacteria, and can lead to:

- **risks to the health and safety of occupants** (contamination and infection);
- **malfunctions in installations**, leading to reduced performance and durability;
- **deterioration in occupant comfort** (unpleasant drinking water, insufficient heating comfort, etc.).

For health, economic and ecological reasons, energy efficiency, bacteriological management, hygiene and safety have become imperatives, supported by an increasingly demanding regulatory framework. To meet all these challenges, there is only one solution: **adopting water treatment for each problem**.

Water & **the energy performance of buildings**

The energy performance of buildings is one of today's major challenges, for both environmental and economic reasons. The aim is to reduce the energy consumption of buildings while maintaining the same level of user comfort. And because water is the main medium of calories in climatic circuits, it plays an essential role.

Poor quality water can cause problems with heating and domestic hot water systems, reducing their performance and durability. Appropriate water treatment and monitoring of installations are therefore essential to maintain the energy performance of buildings, guarantee the comfort of residents, ensure the longevity of equipment and contribute to the enhancement of our legacy.

What are the consequences of poor water treatment?

Limescale, corrosion and mud, generated by the absence of treatment or by inappropriate water treatment, are the main problems affecting water in HVAC systems. Here's a look at the damage they can cause.

Limescale

- It clogs the components of sanitation and air conditioning systems, reducing their efficiency.
- It causes hydraulic equipment (pumps and valves) to malfunction.
- It increases the time it takes for hot water systems to come up to temperature, resulting in higher energy consumption.

Corrosion

- It weakens materials, leading to holes and leaks.
- It encourages the build-up of sludge, which reduces boiler efficiency.
- It produces gases that create noise and cold zones in heat emitters.

Sludge

- They clog up various system components, including valves, radiators, underfloor heating loops and heating elements, forcing the heating temperature to be increased and therefore consuming more energy.
- They weaken and prematurely age production equipment (condensers, heat exchangers, etc.).

Did you know?

Are you aware of the impact of limescale-laden water on heat transfer?

1 mm of limescale deposit = -7 % of heat transfer*

*Source: ECONEAULOGIS design office.

At BWT we support you

With appropriate water treatment and regular maintenance, you can maintain the energy performance of your buildings and:

- **ensure** optimum operation of your facilities,
- **limit** maintenance costs,
- **keep** energy costs **under control**,
- **optimise** occupant comfort.

GOOD TO KNOW

Certain bacteria, such as sulphate-reducing and ferruginous bacteria, can generate biocorrosion or bacterial corrosion phenomena that can damage networks.

Would you like to find out more?

Scan this QR code to download and read our white paper on "The impact of water quality on HVAC systems".

In this comprehensive guide, there are case studies, results and solutions for reducing maintenance costs, preserving installations and optimising occupant comfort.

Water & **bacteriological management in building networks**

Controlling bacteriological risk is one of the major challenges of today and in the future. Like all living organisms, water contains millions of bacteria, some of which can be harmful to our health or damage the installations they come into contact with. The aim is to control or even halt their proliferation and guard against associated risks, which means implementing preventive or curative water treatment.

What are the consequences of poor water treatment?

Certain bacteria that are dangerous to humans or harmful to equipment can develop in large numbers in water systems. Among the bacteria that cause us problems, there are 2 main categories:

Bacteria in sanitation networks

These can include pathogenic bacteria such as legionella pneumophila and pseudomonas aeruginosa, as well as coliforms and escherichia coli, which can cause more or less severe forms of gastric problems.

Corrosion bacteria

This is the phenomenon of biocorrosion, caused by Sulphate-Reducing Bacteria (SRB) and Iron-Reducing Bacteria (IRB). SRBs proliferate to a greater or lesser extent depending on the type of material used in hydraulic network circuits and their ability to infest biofilm.

Each type of building will be more or less sensitive to bacteriological problems of a different nature:

- **Hospitals:** legionella pneumophila, pseudomonas aeruginosa, staphylococcus, SRB.
- **Spas/water treatment:** legionella pneumophila, pseudomonas aeruginosa and coliform bacteria.
- **Housing:** legionella pneumophila, SRB.

The key figure

Between 3,000 and 5,000 people

die each year as a result of a hospital-acquired infection*

*Source: infonosocomiale.fr.

At BWT we support you

With appropriate water treatment and regular analyses, you can keep the bacteriological risks in your networks under control, so you can:

- **prevent** any health risks,
- **avoid** water-related problems that could affect the operation of your equipment,
- **comply with** the required hygiene and drinkability criteria,
- **comply with** the legal obligations set out in the French Public Health Code.

Would you like to find out more?

Scan this QR code to download and read our white paper on "Bacteriological management of water systems in buildings".

In this comprehensive guide, you will find case studies, results and solutions to help you better understand and manage bacteria in building sanitary water systems.

Water, **hygiene and safety in health and care establishments**

Hygiene and sanitary safety are fundamental issues, particularly in healthcare establishments frequented by a vulnerable population. These problems are closely linked to water quality, which is present at all levels, and require the implementation of specific solutions and equipment.

The key figure

It is estimated that there are between 5 to 10 million bacteria in the universe. Today, we only know about 10,000 of them*

*Source: Agence Science Presse.

What are the consequences of poor water treatment?

Hygiene and safety in buildings can be compromised by poor water quality. There are 3 main types of water that may encounter different types of risk.

Water for human consumption

- This involves water treated for food, sanitary purposes and also for standard care, in accordance with the criteria defined in the guide published in circular NO.DHOS/E4/DGS/SD7A/2005/417 dated 9 September 2005.
- Potential risks include: infectious and parasitic risks, the risk of hospital-acquired infections, toxic risks (chemical substances) and the risk of burns.

Water from HVAC systems

- Compatible with renewable energies and new technologies, water is the main heat transfer fluid used in HVAC systems.
- It is the source of the energy efficiency for facilities as well as their malfunctions when it is subject to mud, limescale, corrosion, etc.

Specific water

- Sterilisation water, which is the result of a specific water treatment process, Bacteriologically Controlled Water (BCW), which is necessary for certain treatments, balneotherapy and thalassotherapy water, laundry water and effluent are all so-called specific waters.
- They require a water treatment system tailored to each specific need.

GOOD TO KNOW

Water quality plays a central role in the sterilisation process for:

- **Contributing to** the correct operation of a sterilisation unit.
- **Ensuring the long-term future of** washing-disinfection machines and autoclaves.
- **Ensuring** the hygiene of devices leaving the process.

At BWT we support you

As a result of our collaboration with a large number of health and care facilities, our expertise enables us to help you manage the various risks with a personalised water treatment. This approach involves paying particular attention to the design and construction of water production and distribution facilities.

Our support will enable you to:

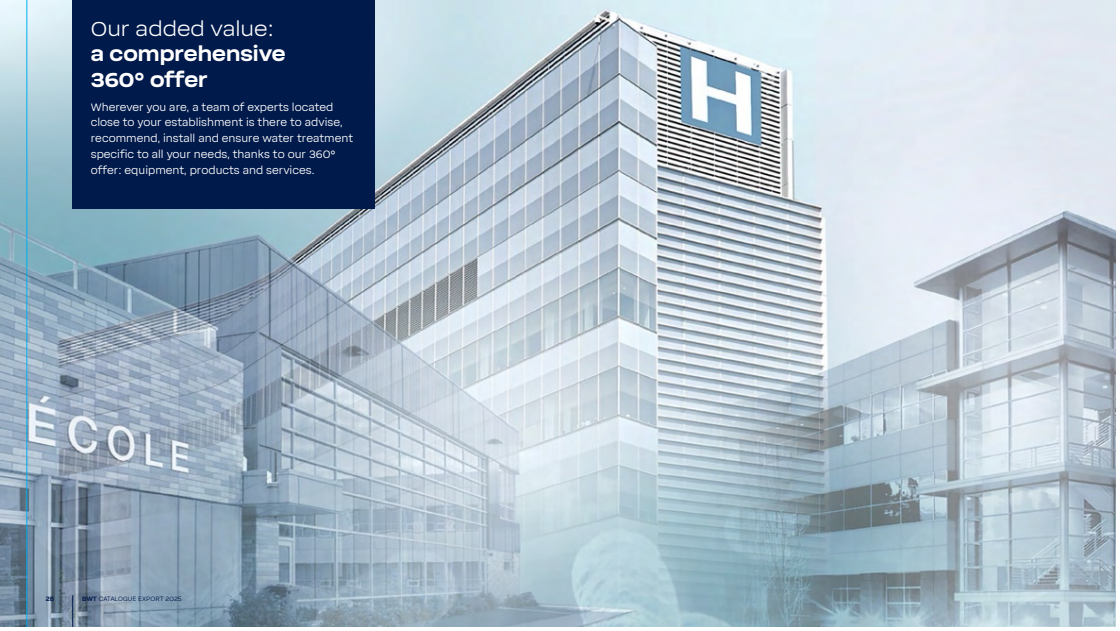
- **control** bacterial risks, however you are using water,
- **ensure** optimum operation of your HVAC, sanitary, sterilisation and balneotherapy equipment,
- **comply with** health and safety requirements,
- **optimise** the energy performance of your buildings.

Would you like to find out more?

Scan this QR code to download and read our white paper on "Water at the heart of hygiene and health".

In this comprehensive guide, you will find an overview of the main uses of water in health and care facilities and the best practices to adopt to ensure high quality water.

3. Water and different types of buildings



Our added value:
a comprehensive 360° offer

Wherever you are, a team of experts located close to your establishment is there to advise, recommend, install and ensure water treatment specific to all your needs, thanks to our 360° offer: equipment, products and services.

Water is omnipresent in all types of buildings. Whether it is water for human consumption, water used in HVAC systems or technical water intended for specific uses, its quality plays a fundamental role, with an impact on our health, our living comfort, our spending and our environment.

Each type of building is subject to specific challenges and regulations:

- apartment blocks, which must provide a certain level of comfort while controlling energy consumption;
- offices and public buildings, combining hygiene, technical and financial performance;
- hotels, which have to ensure the well-being and sanitary safety of their occupants while optimising their energy costs;
- Healthcare Facilities and Treatment Centres, which have to protect a vulnerable population from any health risks while optimising energy consumption.

In all these configurations, BWT offers a complete package, **tailored solutions and personalised support**.

Water in **apartment blocks**

The comfort of occupants and limiting energy consumption are now the main issues in apartment blocks.

Managing the water cycle plays a central role. It provides high-quality heating and air-conditioning while optimising the energy performance and durability of equipment. To overcome all these challenges, we offer you a comprehensive range of solutions and services.

What are the regulations in France?

Only the regulatory aspect relating to health and bacteriological risks is covered by:

- Article R1321-3 of the French Public Health Code: Water intended for human consumption must comply with quality standards, covering microbiological, physico-chemical and radiological parameters, established for the purpose of monitoring water production, distribution and packaging facilities and assessing the risks to human health.
- Order of 30 November 2005 relating to fixed installations intended for heating and supplying domestic hot water to residential buildings, work premises or premises open to the public.
- French Public Health Code, Article R.1321 in relation to the general provisions for water for human consumption.

What expertise?

Domestic Cold Water

FILTRATION
Retains solid impurities and other components to protect your facilities and equipment.
All our filters **p. 42**

DISINFECTION
Eliminates germs, bacteria and micro-organisms to make your facilities safer.
All our solutions **p. 82**

Domestic Hot Water

FILTRATION
Retains solid impurities and other components to protect your facilities and equipment.
All our filters **p. 42**

SOFTENING
Removes limescale from water, protects equipment and networks from scale, and maintains the energy performance of domestic hot water systems.
All our softeners **p. 60**

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HVAC circuits

HEATING, CHILLED WATER OR DRY FILTRATION
Continuously removes oxides, magnetisable particles, solid sediments, sludge and suspended solids.
All our filters **p. 42**

SOFTENING
Removes limescale from water and protects HVAC systems from limescale build-up.
All our softeners **p. 60**

NETWORK PROTECTION
- Cleaning: washing and de-silting of networks before packaging.
- Conditioning: protects and maintains the physical and chemical balance of networks against corrosion, sludge, etc.

All our solutions **p. 98**

THINK ABOUT IT!

Water treatment is only effective and long-lasting if it includes:

- prior disinfection,
- maintenance contracts,
- analytical monitoring.

Water in **hotels**

Hotels are keen to offer their guests maximum comfort while keeping energy costs under control.

This implies a certain level of comfort in terms of heating and sanitary conditions, which is reflected in the installation of reliable protection against limescale on equipment (coffee machines, dishwashers, etc.) and solutions for dispensing drinking water that tastes good and is odourless. Particularly for facilities with a swimming pool and/or spa, a rigorous water treatment protocol guarantees hygiene, user safety and the longevity of the equipment.

What are the regulations in France?

Only the regulatory aspect relating to health and bacteriological risks is covered by:

- Article R1321-3 of the French Public Health Code: Water intended for human consumption must comply with quality standards, covering microbiological, physico-chemical and radiological parameters, established for the purpose of monitoring water production, distribution and packaging facilities and assessing the risks to human health.
- Order of 1st February 2010 for public buildings relating to the monitoring of legionella in facilities for the production, storage and distribution of domestic hot water.
- French Public Health Code, Article R.1321 in relation to the general provisions for water for human consumption.

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DRINKING WATER
Allows you to filter tap water and stop using bottled water.

THINK ABOUT IT!

Water treatment is only effective and long-lasting if it includes:

- prior disinfection,
- maintenance contracts,
- analytical monitoring.

Water in **offices and public buildings** (PB)

Offices and public buildings have the distinctive feature of being high-traffic areas, and generally very busy places. When it comes to water quality, this requires particular vigilance: hygiene, sanitary safety and comfort.

This feature also means that we need to be able to supply continuous power to high-output equipment, while controlling its technical and financial performance and reliability. For all these reasons, and in a specific regulatory context, a specific water treatment protocol is required for this type of building.

What are the regulations in France?

Only the regulatory aspect relating to health and bacteriological risks is covered by:

- Order of 1st February 2010 for public buildings.
- Articles R1321-55 and R1321-56 of the French Public Health Code.

What expertise?

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DRINKING WATER
Allows you to filter tap water and stop using bottled water.

Technical water

Specific treatments depending on the type of building (e.g. maintaining humidity levels in museum exhibition rooms).

THINK ABOUT IT!

Water treatment is only effective and long-lasting if it includes:

- prior disinfection,
- maintenance contracts,
- analytical monitoring.

Water in **Healthcare Facilities and Treatment Centres**

In constant contact with a vulnerable population, water in Healthcare Facilities and Treatment Centres is a source of hygiene, safety and comfort.

It is also the key to the smooth running of the various hospital departments, particularly the sterilisation units. Drawing on our experience of working with many Healthcare Facilities and Treatment Centres stakeholders, we can offer you comprehensive support for all uses of water in this highly specific and regulated context.

What are the regulations in France?

Reference document
Technical Guidelines "L'eau dans les établissements de santé - Direction Générale de la Santé et Direction de l'hospitalisation et de l'organisation des soins (2005)"

Health risks
Legionella and nosocomial infections.
- Articles R1321-55 and R1321-56.
- Order of 1st February 2010.

Quality parameters and references
Order of 11 January 2007, as amended.

Sterilisation
AFNOR NF EN 285 standard.

Balneotherapy
- Articles D1332-1, D1332-2 and D1332-3 of the French Public Health Code.
- Decree and orders of 26 May 2021.
- Order of 7 April 1981.

Effluents
Circular dated 30 July 2004.
- Order of 16 July 2007.
- Order of 2 February 1998.
- The French Public Health Code.

What are the water issues in Healthcare Facilities and Treatment Centres?

- **Controlling** bacterial risks.
- **Ensuring** heating and HVAC equipment operates correctly.
- **Optimising** the energy performance of our facilities.
- **Sustaining** technical facilities.

What are the health risks in the Healthcare Facilities and Treatment Centre sector?

INFECTIOUS AND PARASITIC RISKS

They come from bacteria, viruses, parasites, fungi and micro-algae. The severity of the infections that these micro-organisms can cause varies depending on their nature, the routes of exposure and the immune status of those exposed.

NOSOCOMIAL-ACQUIRED INFECTIONS

- They develop in hospitalised patients and can be caused by viruses, bacteria or parasites.
- There are several types of nosocomial infection: digestive (gastroenteritis, diarrhoea), respiratory (Legionella, Pseudomonas), skin and mucous membranes (septicaemia, keratoconjunctivitis), bones and joints (Mycobacterium xenopi).
- The consequences can be serious, so preventive measures are essential.

TOXIC RISKS

They can be caused by the ingestion of certain chemical substances (nitrate, chlorine) in excessive quantities in water, or by the presence of substances such as aluminium, copper or zinc in certain applications such as haemodialysis.

BURN RISKS

Fifty per cent are caused by liquids that are too hot.

GOOD TO KNOW

Legionella risk

Legionella is one of the main water-borne health risks in Healthcare Facilities and Treatment Centre establishments. The Order of 1st February 2010 on the monitoring of legionella in water production, storage and distribution installations strictly defines a number of requirements, including:

- Regular checks for Legionella bacteria on high-risk taps.
- These analyses are carried out by an approved laboratory.
- Keep a health logbook to ensure that monitoring is traceable.

Water in **Healthcare Facilities and Treatment Centres**

What expertise?

Domestic Cold Water

FILTRATION
Retains solid impurities and other components to protect your facilities and equipment.
All our filters **p. 42**

DISINFECTION
Eliminates germs, bacteria and micro-organisms to make your facilities safer.
All our solutions **p. 82**

Domestic Hot Water

FILTRATION
Retains solid impurities and other components to protect your facilities and equipment.
All our filters **p. 42**

SOFTENING
Removes limescale from water, protects equipment and networks from scale, and maintains the energy performance of domestic hot water systems.
All our softeners **p. 60**

DISINFECTION
Eliminates germs, bacteria and micro-organisms to make your facilities safer.
All our solutions **p. 82**

HVAC circuits

HEATING, CHILLED WATER OR DRY FILTRATION
Continuously removes oxides, magnetisable particles, solid sediments, sludge and suspended solids.
All our filters **p. 44**

SOFTENING
Removes limescale from water and protects HVAC systems from limescale build-up.
All our softeners **p. 60**

NETWORK PROTECTION
- Cleaning: washing and de-silting of networks before packaging.
- Conditioning: protects and maintains the physical and chemical balance of networks against corrosion, sludge, etc.

All our solutions **p. 98**

Catering

FILTRATION
Retains solid impurities and other components to protect your facilities and equipment.
All our filters **p. 42**

SOFTENING
Removes limescale from water and protects HVAC systems from limescale build-up.
All our softeners **p. 60**

DRINKING WATER
Allows you to filter tap water and stop using bottled water.

Technical water

Specific treatments depending on the type of building (e.g. maintaining humidity levels in museum exhibition rooms).

Sterilisation units

High-quality water helps to ensure that a sterilisation unit operates correctly, that washing-disinfection machines and autoclaves are reliable, and that devices leaving the process are hygienically clean.

DOSING UNIT
Injects disinfectants (preventive and curative).
All our solutions **p. 106**

FILTRATION (upstream of softeners)
Retains solid impurities and other components to protect your facilities and equipment.
All our filters **p. 42**

MICROFILTRATION (upstream of osmosis units)
Preserves the performance and lifespan of osmosis membranes.
All our filters **p. 42**

FILTRATION (from purified water loop)
Guarantees a bacteria-free water supply at the start of the loop.
All our filters **p. 42**

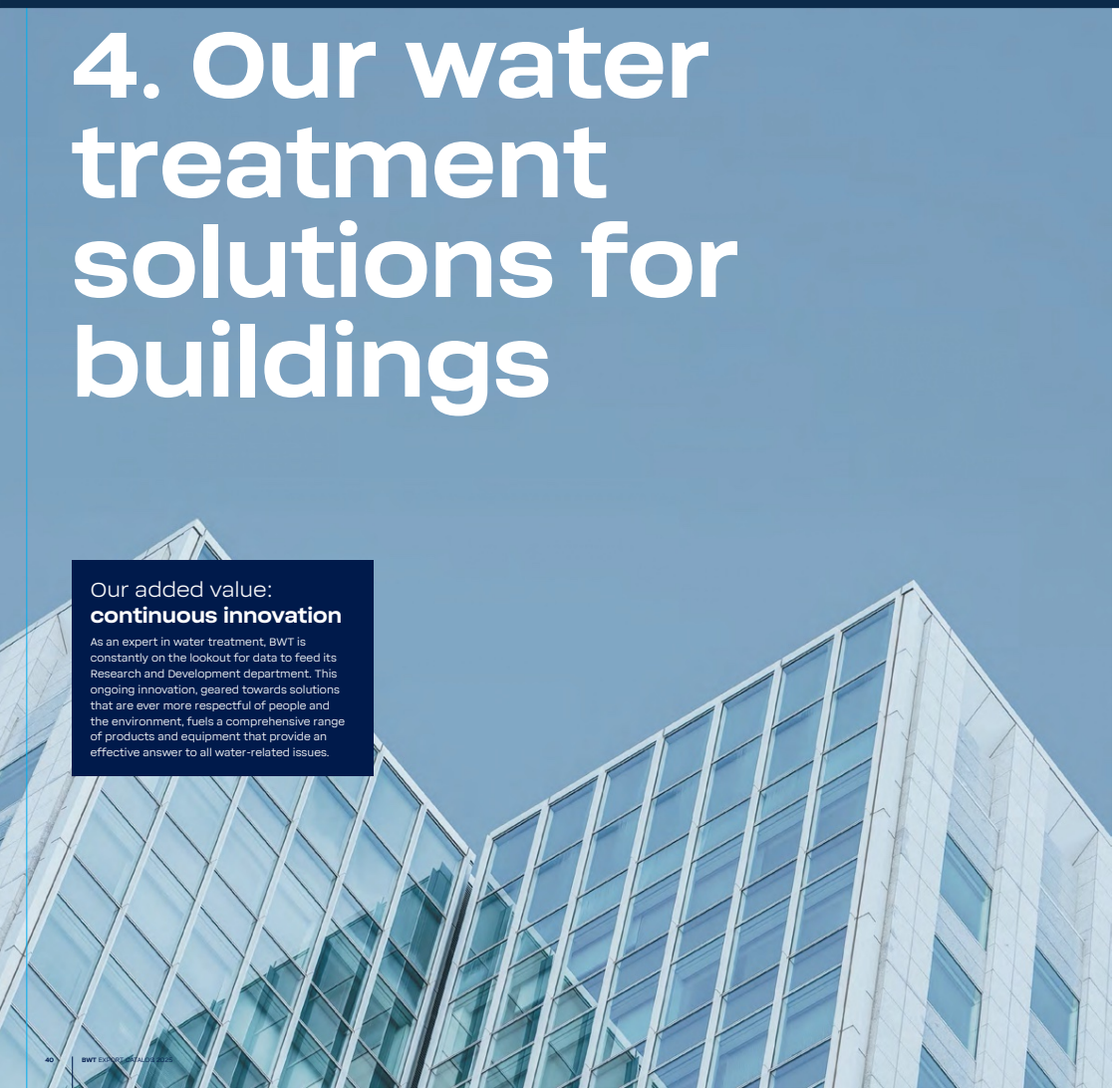
SOFTENING
Removes limescale from the water and protects the osmosis unit from limescale build-up.
All our softeners **p. 60**

BI-OSMOSIS
Protects equipment used to sterilise medical devices thanks to < 5 µS/cm (EN 285) conductivity.
All our reverse osmosis units **p. 130**

THINK ABOUT IT!

Water treatment is only effective and long-lasting if it includes:
- prior disinfection,
- maintenance contracts,
- analytical monitoring.

4. Our water treatment solutions for buildings



Our added value: **continuous innovation**

As an expert in water treatment, BWT is constantly on the lookout for data to feed its Research and Development department. This ongoing innovation, geared towards solutions that are ever more respectful of people and the environment, fuels a comprehensive range of products and equipment that provide an effective answer to all water-related issues.

Choosing BWT also means being able to turn to a single partner for all your water treatment solutions and entrusting us with your water analyses, carried out in our laboratory in Saint-Denis (93).

Discover our selection of products and equipment to cover the main needs of tenement and service sector buildings:

- **for filtration** with a selection of anti-sediment filters, filtration units and clarifier units;
- **for the softening and anti-scale protection of hydraulic circuits** with solutions that use less salt and water;
- **for network analysis and disinfection** based on different techniques, chlorine or UV;
- **for the protection and curative treatment** of closed circuits using formulated products;
- **for the production of high quality osmosis water**.

Ask your expert technician about our other solutions. **We are also available to carry out an audit and set up a customised water treatment protocol**.

Filtration

Depending on the region and the type of building, it may be necessary to install a filtration system to obtain high-quality water for sanitary and HVAC systems, protect the networks and improve the comfort of occupants.

ADVICE FROM OUR EXPERTS

» How do I choose the right filter?
It is important to respect the indicative flow rate for each filter as this directly affects the quality of filtration.

» Don't forget to change your cartridges!
As soon as the pressure drop exceeds the recommended value or at regular intervals.

» Check the media filters regularly!
It is advisable to top up or change the filter loads periodically.






	BWT INFINITY	BWT AVANTI WF	BWT 1000/1010 BWT 1500	BWT ECOMIX	BWT PURITY PRO XL	BWT OASIS 300
APPLICATIONS	Protection of sanitary equipment and appliances against network sediments	Protection of sanitary equipment and appliances against network sediments	Protects against sediments, bad tastes and odours, aggressive water, presence of iron and manganese	Protects against the presence of iron, manganese and ammonium	Protects against sediments, bad tastes and odours, aggressive water, presence of iron and manganese	Designed to purify water from surface sources or wells, eliminating microbiological contaminants
FLOW RATE (M³/H)	5.5 to 105	3.5 to 32	1 to 5	2.5 to 16	3 to 21	0.3 or 1.5
DESCRIPTION	Backwashing anti-sediment filter (90 or 100 µ), with manual or automatic activation	Strainer removes solid sediments from tap or mains water (rust, sand, filings or sludge)	Composed of different filter media: sand, activated carbon, neutralite	Complex multi-component filter media for problem water	Composed of different filter media: sand and gravel alone, or bi-layer load with quartz sand and anthracite, active carbon, neutralite and magnolite or iron remover	5 stages of purification: Chlorination, sediment filter two-stage activated carbon filters Secondary chlorination cartridge filter
PRODUCT BENEFITS	No consumables	Filter with washable strainer	Robust device	Single, effective filter	Robust, corrosion-resistant device	Compact device
	Continuously filtered water, even during washing periods	Threaded or flanged joints for simple assembly	Corrosion-resistant valve	Automatic cleaning	Filter washable in clean water	Suppressor pump
	Extending the lifespan of various sanitary parts	Sediment removal system	Simple, intuitive programme	Works at low pH	Automatic filter	Low power consumption
	p. 44	p. 46	p. 47/p. 48	p. 49	p. 50	p. 51






	BWT LP10/LP20	BWT BIG BLUE	BWT CMC	BWT HFX	BWT S1	FILTERS AND CLARIFIER UNITS
	Dechlorination and microfiltration in technical water treatment processes	Dechlorination and microfiltration in technical processes of water treatment	Dechlorination and microfiltration in technical processes of water treatment	Microfiltration in technical processes of water treatment	Microfiltration in water treatment techniques	Filtration/ Clarification of closed HVAC networks (heating or chilled water)
	0.2 to 2	1.2 to 6	1.4 to 48	12 to 60	0.8 to 1.6	4 to 320
	Single-cartridge housing with DOE connections - pretreatment of process water or point-of-use treatment	Large capacity single-cartridge housing with DOE connections - pretreatment of process water or point-of-use treatment	Multi-cartridge housings with Code 8 or DOE connections - pretreatment of process water or point-of-use treatment	High-flow single-cartridge housing - process water pre-treatment or point-of-use treatment	Single-cartridge microfiltration housing for bacteriological or particulate filtration in process on water distribution loop or as close as possible to the point of use	Continuous removal: magnetisable oxides and particles using a magnetic stirring bar, solid sediments, mud and suspended matter using a felt filter bag
	Easy handling	Easy handling	Significant treatment capacity	Simple maintenance	Optimum filtration quality	Stainless steel filter body
	Quick installation	Quick installation	Optimum filtration quality	Excellent flow rate	Easy to install and maintain	Easy, secure opening with swing bolts
						Complete and ready to install for the Group version
	p. 52	p. 53	p. 54	p. 56	p. 57	p. 58

BWT Infinity

Improve

Anti-sediment filter with strainer

Flow rate: 5.5 to 105 m³
DN: 32 (1"¼) to 150 (6")

Automatic 1" to 2"
BWT Infinity

Manual DN 65 to DN
150 BWT Infinity

TECHNICAL BENEFITS

- **No consumables.**
- **Continuously filtered water** , even during washing periods.
- **Extending the lifespan** of the various sanitary parts.

Operation

The BWT Infinity filter is a backwashing anti-sediment filter, with manual or automatic activation depending on the model. This filter is made up of a strainer with a filtration rating of 90 or 100 µ, retaining particles such as sand, iron oxide, shavings, etc. By eliminating particles, it prevents certain types of corrosion.

Applications

Ideal for collective use to protect your networks and devices (taps, water softeners, atomisers, industrial processes, etc.).

Standard equipment

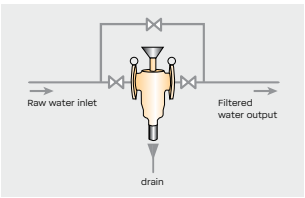
- Permanent strainer
- Filterelement 90 (BWT Infinity 1"¼ to 2") or 100 µ (BWT Infinity DN 65 to DN 150).
- Brass connections with threaded gasket (BWT Infinity 1"¼ to 2") or flanges (BWT Infinity DN 65 to DN 150).
- Offset adjustable connection head and at a short distance from the wall.
- Integrated backwash filter washing system:
  - manual mode: backwashing by simply turning the flywheel.
  - automatic mode: programmable cleaning frequency (from 1 hour to 56 days).
- Control pressure gauges at the filter input and output (2"½ to 6" version) to monitor clogging.
- Wash cycles can be programmed with the automatic version.
- A 230 V/50 Hz socket is required for the automatic version.

	BWT INFINITY 1"¼	BWT INFINITY 1"½	BWT INFINITY 2"	BWT INFINITY 2"½	BWT INFINITY 3"	BWT INFINITY 4"	BWT INFINITY 5"	BWT INFINITY 6"
Connection diameter	DN 32/ 1"¼	DN 40/1"½	DN 50/2"	DN 65/2"½	DN 80/3"	DN 100/4"	DN 125/5"	DN 150/6"
Nominal flow rate at ΔP = 0.2 bar/0.5 bar	5./9 m³/h	10/16 m³/h	10/16 m³/h	35/58 m³/h	35/58 m³/h	56/82 m³/h	57/91 m³/h	61/105 m³/h
Threshold/Filtration fineness	90 µm	90 µm	90 µm	100 µm	100 µm	100 µm	100 µm	100 µm
Max static pressure	10 bar	10 bar	10 bar	10 bar	10 bar	10 bar	10 bar	10 bar
Min/max water temperature	5/30 °C	5/30 °C	5/30 °C	5/30 °C	5/30 °C	5/30 °C	5/30 °C	5/30 °C
Dimensions (L × H)	218 × 550 mm	240 × 550 mm	260 × 550 mm	220 × 600 /630 mm	220 × 600 /630 mm	220 × 660 /680 mm	220 × 740 /770 mm	220 × 740 /770 mm
ITEM CODE manual version	**P0010072**	**P0010073**	**P0010074**	**PK0033932A**	**PK0033933A**	**PK0033940A**	**PK0033941A**	**PK0033942A**
ITEM CODE automatic version	**P0010077**	**P0010078**	**P0010079**	**PK0033936A**	**PK0033937A**	**PK0033943A**	**PK0033944A**	**PK0033945A**

Accessories & consumables

Designation	ITEM CODE
DIFFERENTIAL PRESSURE GAUGE	**P0097913**
200 µm STAINLESS STEEL STRAINER FOR 2"½ AND 3" FILTERS	**P0039072**
500 µm STAINLESS STEEL STRAINER FOR 2"½ AND 3" FILTERS	**P0003511**
200 µm STAINLESS STEEL STRAINER FOR DN 100 FILTER	**P0039239**
50 µm STAINLESS STEEL STRAINER FOR DN 100 FILTER	**P0039240**
200 µm STAINLESS STEEL STRAINER FOR DN 125 AND 150 FILTERS	**P0039241**
50 µm STAINLESS STEEL STRAINER FOR DN 125 AND 150 FILTERS	**P0039242**

Installation recommendation



NB: Automatic models must be connected to a mains socket.

Prices on request. See general terms and conditions of sale.

BWT Avanti WF

Anti-sediment filter

Flow rate: 3.5 to 32 m³/h

TECHNICAL BENEFITS
- » Filter **with washable strainer**.
- » Threaded or flanged joints for **easy assembly**.
- » **Sediment** removal system.

Operation

The BWT Avanti WF filter is a sieve that retains solid impurities present in tap or mains water (rust, sand, filings or mud). The nylon filter element is washable, and any significant sediments are quickly removed by the purge system.

Applications

The BWT Avanti WF filter is installed in the mains or borehole water supply to protect equipment, sanitary devices and domestic appliances from malfunction, wear and corrosion caused by foreign particles.

Standard equipment

Strainer ready to connect.
- Cleanable strainer, 90 microns (25 microns for 2"½ and 3" models), easy maintenance.
- Threaded brass connections (for 1" to 2" models) or flanged connections (for 2"½ to 3" models).
- Bronze filter body (synthetic material for 2"½ and 3" filters).
- Purge system.
- Pressure gauge included for 2"½ and 3" models.

	BWT AVANTI WF 1"	BWT AVANTI WF 1"¼	BWT AVANTI WF 1"½	BWT AVANTI WF 2"	BWT AVANTI WF 2"½	BWT AVANTI WF 3"
Connection diameter	DN 25/1"	DN 32/1"¼	DN 40/1"½	DN 50/2"	DN 65/2"½	DN 80/3"
Nominal flow rate at ΔP = 0.2 bar	3.5 m³/h	4 m³/h	9 m³/h	12 m³/h	25 m³/h	32 m³/h
Threshold/filtration rating	90 µm	90 µm	90 µm	90 µm	25 µm	25 µm
Max static pressure	16 bar	16 bar	16 bar	16 bar	16 bar	16 bar
Min/max water temperature	0/35 °C	0/35 °C	0/35 °C	0/35 °C	0/35 °C	0/35 °C
Width with connection × Height	184 × 239 mm	203 × 239 mm	254 × 290 mm	274 × 290 mm	304 × 770 mm	313 × 770 mm
Width without connection × Height	100 × 239 mm	105 × 239 mm	140 × 290 mm	140 × 290 mm	-	-
ITEM CODE	**P0003197A**	**P0003198A**	**P0003199A**	**P0003200A**	**P0003539**	**P0003540**

Accessories & Consumables

Designation	ITEM CODE
PACK OF 6 REPLACEMENT FILTER ELEMENTS FOR BWT FILTER AVANTI WF 1" 1"¼ (90 µm)	**P0003332**
PACK OF 6 REPLACEMENT FILTER ELEMENTS FOR BWT FILTER AVANTI WF 1"½ 2" (90 µm)	**P0003341**
PACK OF 5 REPLACEMENT FILTER ELEMENTS FOR BWT FILTER AVANTI WF 2"½ 3" (25 µm)	**P0003622**

NB: Other finishes on request.

Prices on request. See general terms and conditions of sale.

BWT 1000/1010

Anti-sediment filter

Flow rate: 1 to 2.5 m³

TECHNICAL BENEFITS
- » **Robust device**.
- » **Corrosion-resistant** valve.
- » Simple, intuitive **programming**.

Operation & Applications

BWT 1000 filters can be used to treat water for different needs, depending on the chosen filter medium:
- **sand or multimedia filtration:** containment of undesirable particles (depending on their size) on the surface of the filter media,
- **active carbon:** containment of organic compounds responsible for water tastes and odours,
- **neutrality:** neutralises undesirable acidity in water,
- **iron/manganese removal:** remove iron and manganese from water to meet regulatory thresholds (iron: 0.2 mg/l; Manganese: 0.05 mg/l).

BWT 1000 filters can be used to treat water in a wide range of applications: industry, processes, etc.

Standard equipment

BWT 1000 filters:
- robust device and corrosion-resistant valve,
- hydraulically controlled ABS valve,
- control panel with simple, intuitive programming,
- time programming: configurable settings,
- power reserve for added security in the event of a power cut,
- include a 230V/50 Hz socket.

	BWT 1013 S	BWT 1013 N	BWT 1013 CA	BWT 1010 IRON REMOVER
Connection diameter	DN 25/1"	DN 25/1"	DN 25/1"	DN 25/1"
Type of medium	Sand	Neutralite	Active carbon	Iron remover
Max. flow	2.5 m³/h	1 m³/h	1.2 m³/h	2.4 m³/h
Washing flow rate	1.6 m³/h	1.6 m³/h	1.2 m³/h	1.5 to 2 m³/h
Min/max dynamic pressure	2/6 bar	2/6 bar	2/6 bar	2 to 6 bar
Min/max water temperature	0/35 °C	0/35 °C	0/35 °C	0/35 °C
Body diameter	335 mm	335 mm	335 mm	260 mm
Total height	1,540 mm	1,540 mm	1,540 mm	1,540 mm
Floor height I/O axis	1,450 mm	1,450 mm	1,450 mm	1,450 mm
Service weight	200 mm	200 mm	200 mm	200 mm
ITEM CODE	**P0003953**	**P0003969**	**P0003959**	**P0003978**

Prices on request. See general terms and conditions of sale.

BWT 1500

Anti-sediment filter

Flow rate: 2.5 to 5 m³/h

TECHNICAL BENEFITS

» Simple, effective **filter**.
» **Automatic cleaning**.
» **Several loads** possible.

Operation & Applications

BWT 1500 filters can be used to treat water for different needs, depending on the chosen filter medium:

- **sand or multimedia filtration:** retention of unwanted particles according to their size on the surface of the filter media,
- **active carbon:** containment of organic compounds responsible for water tastes and odours,
- **neutrality:** neutralises undesirable acidity in water.

BWT 1500 filters can be used to treat water in a wide range of applications: industry, processes, drinking water treatment, etc.

Standard equipment

BWT 1500 filters:

- robust device and corrosion-resistant valve,
- hydraulically controlled ABS valve,
- control panel with simple, intuitive programming,
- time programming: configurable settings,
- power reserve for added security in the event of a power cut,
- include a 230V/50 Hz socket.

	BWT 1500 S	BWT 1500 CA	BWT 1500 NEUTRALITE
Connection diameter	DN 40/1"½	DN 40/1"½	DN 40/1"½
Type of medium	Sand	Active carbon	Neutralite
Max. flow	5 m³/h	2.5 m³/h	2.5 m³/h
Washing flow rate	3 m³/h	3 m³/h	3 m³/h
Min/max dynamic pressure	2/6 bar	2/6 bar	2/6 bar
Min/max water temperature	0/35 °C	0/35 °C	0/35 °C
Dimensions(Ø × H)	400 × 1,907 mm	400 × 1,907 mm	400 × 1,907 mm
ITEM CODE	**PK0001715**	**PK0001790**	**PK0001791**

Prices on request. See general terms and conditions of sale.

BWT Ecomix

Iron-removal filter

Flow rate: 2 TO 16 m³/h

TECHNICAL BENEFITS

» **Complex multi-component** filter media for problem waters.
» Management of **seasonal variations** in **water composition**.

Operation

- Iron level: 0 - 15 ppm.
- Manganese level: < 3 ppm.
- Ammonium level: < 4 ppm
- Hardness: < 750 ppm CaCO3
- Operating temperature: 0 - 40 °C.
- pH range: 5 - 9.
- Total water consumption per regeneration: 10 L/L of resin.
- Salt consumption: 100 - 150 g/L resin.
- Concentration of brine solution: 8 - 10 % NaCl.

Applications

- For well water or tap water rich in organic matter, iron and manganese.
- Soft water without iron or manganese.
- Eliminates the metallic taste of water.
- Reduces the colour and odour of water.
- 5-year lifespan.
- Effective solution to the 5 most common water quality problems in just 1 filter. (Limescale, iron, ammonium manganese, organic matter).
- Manages seasonal variations in water composition, even in the event of major changes in raw water quality.

	BWT ECOMIX 2 FILTER	BWT ECOMIX 5 FILTER	BWT ECOMIX 11 FILTER	BWT ECOMIX 16 FILTER
Max. flow	2.5 m³/h	5.6 m³/h	11.5 m³/h	16.4 m³/h
Ecomix C	75 L	150 L	450 L	650 L
Number of 25 L bags	3	6	18	26
ITEM CODE	**125682343**	**125682344**	**125682345**	**125682346**

Accessories

Designation	ITEM CODE
1"/1.25" DUPLEX CONTROL VALVE	**125682351**
DUPLEX 1.5" CONTROL VALVE	**125682352**
DUPLEX 2" CONTROL VALVE	**125682343**

Prices on request. See general terms and conditions of sale.

BWT Purity Pro XL

Anti-sediment filter

Flow rate: 3 to 21 m³/h

non-contractual photo

TECHNICAL BENEFITS

- Robust **unit** and **corrosion-resistant body/ valves.**
- **Backwashable filter.**
- **Automatic filter.**

Operation

BWT Purity Pro XL filters can be used to treat water for different needs depending on the chosen filter medium:

- cloudy water clarification with sand load, or bi-layer load (quartz sand and anthracite),
- activate carbon: retains the organic compounds responsible for water tastes and odours,
- neutralite and magnolite: to neutralise the aggressivity of low mineral content waters rich in CO_2,
- iron remover: to remove iron and manganese from water up to a total content of 5 mg/l max.

Standard equipment

The BWT PURITY PRO XL media filter comes complete and ready to install with:

- polyester body, corrosion-resistant,
- top valve,
- the electronic control panel,
- media of your choice, depending on the application,
- provide a 230 V/50 Hz socket.

	XL 55	XL 61	XL 77	XL 93
Connection diameter	DN 50/2"	DN 50/2"	DN 50/2"	DN 50/2"
Min/max dynamic pressure	1.5 - 8 bar	1.5 - 8 bar	1.5 - 8 bar	1.5 - 8 bar
Max water temperature	35 °C	35 °C	35 °C	35 °C
Max floor load	525 kg	715 kg	1,125 kg	1,680 kg
Body diameter • Filter height	555 • 1,85 mm	610 • 2,225 mm	770 • 2,385 mm	930 • 2,485 mm
FILTER CODE ONLY	**125503063**	**125503064**	**125503065**	**125503066**
Max. flow	3 m³/h	4 m³/h	6 m³/h	10 m³/h
SINGLE-LAYER LOAD CODE	**125503086**	**125503087**	**125503088**	**125503089**
Max. flow	5 m³/h	6 m³/h	10 m³/h	15 m³/h
ACTIVE CARBON (CL2 < 0.4 PPM)* CHARGE CODE	**125503090**	**125503091**	**125503092**	**125503093**
Max. flow	6 m³/h	7m³/h	11 m³/h	16 m³/h
BI-LAYER LOAD CODE	**125503101**	**125503102**	**125503103**	**125503104**
Max. flow	8 m³/h	10 m³/h	15 m³/h	21 m³/h
IRON REMOVER LOAD CODE	**125503106**	**125503107**	**125503108**	**125503109**
Max. flow	3 m³/h	4 m³/h	5 m³/h	8 m³/h
NEUTRAL LOAD CODE	**125504490**	**125504491**	**125504492**	**125504493**
MAGNO LOAD CODE	**125504494**	**125504495**	**125504496**	**125504497**

Accessories

Designation	ITEM CODE
CLEAR FILTER WASHING KIT	**125610268**
BYPASS SUPPRESSION	**125595483**
TAPPING POINTS	**125299220**
WALL BRACKET P/TABLET	**125502963**

BWT Oasis 300

Purification station

Flow rate: 300 L/h

Capacity	250 - 300 L/h (~ 5,000 L/day)
Dimensions (L • W • H)	1,000 • 700 • 1,700 mm
Maximum weight	Empty: 100 kg During operation: 150 kg
Power supply	230 V, 50 Hz (a converter for connection to a 12 V car is included)
Power consumption	During operation: 220 W Maximum: 650 W
ITEM CODE	**125682355**

Other models available:
Oasis 1500: 1.5 m/h with 10 treatment steps available on request.

TECHNICAL BENEFITS

- **Installation capacity:** 250 to 300 litres per hour (~ 5 m³/day), covering the daily drinking water needs of up to 1,000 people.

Operation

- **Step 1:** Water chlorination - oxidation of impurities and water disinfection. The dose of chlorine is adapted to the quality of the feed water and is controlled by the test system included in the supply kit.
- **Step 2:** Sediment filter - filters out particles, sand and other mechanical impurities. The filter uses the Filter AG (USA) highly efficient filter material.
- **Step 3:** Two-stage filtration on carbon filters - elimination of organic compounds, dechlorination during hyperchlorination and other toxic substances.
- **Step 4:** Secondary chlorination - if long-term disinfection of the purified water is required.
- **Step 5:** Final filtration on a filter cartridge (5 µm).

Applications

The Oasis system is designed to purify water from surface sources or poorly mineralised wells, removing microbiological, mechanical and organic contaminants. BWT Oasis 300 has an installation capacity of 250 to 300 litres per hour (~5 m³/day), enough to cover the daily drinking water needs of up to 1,000 people.

BWT LP 10/LP 20

Single-layer filter

Flow rate: 230 L/h to 2,000 L/h

TECHNICAL BENEFITS
- » **Easy to handle.**
- » **Quick to install.**

Operation
BWT has developed a set of single-cartridge housings that can be integrated into pretreatment process and point-of-use treatment.

Applications
The main applications for these housings are filtration (from 100 to 0.2 µm) and dechlorination.

Standard equipment
The reinforced polypropylene housing is available in 10" and 20" heights.

Associated cartridges
- Type DOE (double opening) 10" or 20" units.
- The Propyl and Propyl P families of cartridges correspond respectively to the business sectors specified in the table below.
- Particle filtration from 0.2 to 50 µ or dechlorination by active carbon.

	BWT LP10	BWT LP10PP + PURGE	BWT LP20	BWT LP20PP + PURGE
Connection diameter	DN 20/¾"	DN 20/¾"	DN 20/¾"	DN 20/¾"
Type of connection	DOE	DOE	DOE	DOE
Cartridge height	9 ¾"	9 ¾"	20"	20"
Max service pressure	8 bar	8 bar	8 bar	8 bar
Water temperature	50 °C	50 °C	50 °C	50 °C
Dimensions (W × H)	122 × 317 mm	122 × 317 mm	122 × 577 mm	122 × 577 mm
ITEM CODE	**P0048324**	**P0048320**	**P0048319**	**P0048321**

Applications

Designation	Nominal flow rate	10" ITEM CODE	20" ITEM CODE	Application
Associated microfiltration cartridges per box of 6			(Single code)	
BWT PROPYL 1 MICRON		**P0098180N**	**P0098220N**	Collective
BWT PROPYL 5 MICRONS		**P0098181N**	**P0098221N**	Collective
BWT PROPYL 10 MICRONS		**P0098182N**	**P0098222N**	Collective
BWT PROPYL 20 MICRONS	Flow rate associated with cartridges 1 M3/h/10"³/h/10" length	**P0098183N**	**P0098223N**	Collective
BWT PROPYL 50 MICRONS		**P0098184N**	**P0098224N**	Collective
BWT PROPYL P 0.2 MICRON		**P0094824N**	**P0094825N**	Process
BWT PROPYL P 1 MICRON		**P0094827N**	**P0094828N**	Process
BWT PROPYL P 5 MICRONS		**P0094830N**	**P0094831N**	Collective
BWT PROPYL P 10 MICRONS		**P0094835N**	**P0094836N**	Process
Active carbon cartridges per box of 6			(Single code)	
BWT CARBON	Flow rate associated with cartridges 0.23 m³/h/10" length	**P0093146**	**P0093147**	Dechlorinate
BWT CARBON HE		**P0093154**	**P0093155**	Dechlorinate
CLAMPING ANGLE		**P0095126**	**P0095126**	

Prices on request. See general terms and conditions of sale.

BWT Big Blue

Single-layer filter

Flow rate: 1.2 to 6 m³/h

TECHNICAL BENEFITS
- » **Easy to handle.**
- » **Quick to install.**

Operation
High-capacity filters capable of replacing multi-cartridge or single-cartridge filters as standard, for a wide range of applications.

Applications
These housings are mainly used for: dechlorination and microfiltration.

Standard equipment
- Opaque housing.
- Tapped female inlet/outlet connections: 1" (DN 25) and 1"½ (DN 40).
- Event.

Associated cartridges
- Active carbon filtration. Coal block.
- Temperature 37.8 °C max.

	BWT BB 20	BWT BB 20
Flow rate at 0.2 bar pressure loss	1.2 m³/h	4 m³/h
Connection diameter	DN 25	DN 40
Type of connection	DOE	DOE
Cartridge height	20"	20"
ITEM CODE	**P0955258**	**P0955229**

Associated cartridges

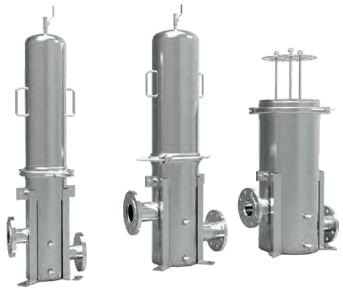
Designation	ITEM CODE
BWT BB 20" ACTIVE CARBON PER BOX OF 6 1,200 L/H	**P0955266**
BWT BB 20" 20 µ - 6,000 L/H CARTRIDGE	**P0985680**
BRACKET FOR BB FILTER	**P0955260**

Prices on request. See general terms and conditions of sale.

BWT CMC

Multi-cartridge filter

Flow rate: 1.4 to 48 m³/h



TECHNICAL BENEFITS
- » **High** treatment capacity.
- » Optimum **filtration quality**.

Operation

BWT has developed a range of stainless steel multi-cartridge housings for use in pretreatment process and point-of-use treatment.

Applications

Main applications for these housings: microfiltration and dechlorination.

Standard equipment

- Electropolished and screen-printed 316 L stainless steel housing.
- 2-point collar clamp, lip seal.

Associated cartridges

- Cartridge ends in DOE (20") or Code 8 (20"/30"/40").
- Microfiltration with an absolute filtration threshold of 0.2 to 10 µ or dechlorination on active carbon blocks.
- Max water temperature: 80°C (50°C for active carbons).

	BWT CMC 803 D	BWT CMC 803	BWT CMC 803	BWT CMC 806	BWT CMC 806	BWT CMC 812	BWT CMC 812
Connection diameter	DN 50	DN 50	DN 50	DN 80	DN 80	DN 80	DN 80
Type of cartridge ends	DOE	Code 8	Code 8	Code 8	Code 8	Code 8	Code 8
Number • cartridge height	3 • 20"	3 • 30"	3 • 40"	6 • 30"	6 • 40"	12 • 30"	12 • 40"
Max service pressure	10 bar	10 bar	10 bar	10 bar	10 bar	10 bar	10 bar
Max water temperature (excluding cartridge)	150 °C	150 °C	150 °C	150 °C	150 °C	150 °C	150 °C
ITEM CODE	**P0048802N**	**P0048803N**	**P0048804N**	**P0048808N**	**P0048809N**	**P0048813N**	**P0048814N**

Prices on request. See general terms and conditions of sale.

Accessories & Consumables

Adaptor kits are available for each housing, enabling the DOE cartridge model to be converted to Code 8 and vice versa.

Adaptor	3X20" DOE > CODE 8	3 MM30" CODE 8 > DOE	3 MM40" CODE 8 > DOE	6 MM30" CODE 8 > DOE	6 MM40" CODE 8 > DOE	12 MM30" CODE 8 > DOE	12 MM40" CODE 8 > DOE
ITEM CODE	**P0060229**	**P0060233**	**P0060234**	**P0060236**	**P0060237**	**P0060239**	**P0060240**

BWT CMC	Nominal flow rate*	ITEM CODE
Associated microfiltration cartridges per box of 6		
BWT PROPYL P 0.2 MICRON 20" DOE	Nominal flow rate associated with cartridges: 1 m³/h per 10" length	P0094825N
BWT PROPYL P 1 MICRON 20" DOE		P0094828N
BWT PROPYL P 5 MICRONS 20" DOE		P0094831N
BWT PROPYL P 10 MICRONS 20" DOE		P0094836N
BWT PROPYL P 0.2 MICRON 20" CODE 8		P0094839N
BWT PROPYL P 1 MICRON 20" CODE 8		P0094852N
BWT PROPYL P 5 MICRONS 20" CODE 8		P0094901N
BWT PROPYL P 10 MICRONS 20" CODE 8		P0094915N
BWT PROPYL P 0.2 MICRON 30" CODE 8		P0094840N
BWT PROPYL P 1 MICRON 30" CODE 8		P0094853N
BWT PROPYL P 5 MICRONS 30" CODE 8		P0094902N
BWT PROPYL P 10 MICRONS 30" CODE 8		P0094916N
BWT PROPYL P 0.2 MICRON 40" CODE 8		P0094841N
BWT PROPYL P 1 MICRON 40" CODE 8		P0093618N
BWT PROPYL P 5 MICRONS 40" CODE 8		P0093594N
BWT PROPYL P 10 MICRONS 40" CODE 8		P0093303N
Active carbon cartridges per box of 6		
BWT CARBON 20" DOE	Nominal flow rate associated with cartridges: 230 L/h per 10" length	P0093147
BWT CARBON 20" HE DOE		P0093155
BWT CARBON 30" CODE 8		P0093152
BWT CARBON 30" HE CODE 8		P0093156
BWT CARBON 40" CODE 8		P0093153
BWT CARBON 40" HE CODE 8		P0093157

*Depending on water quality.

Assembly accessories

(Can be used with all filters in the BWT range)

Designation	ITEM CODE
DRY DIAL PRESSURE GAUGE, 0-10 BAR, ⅛" REAR CONNECTION, BRASS BODY	P0031503
DRY DIAL PRESSURE GAUGE, 0-10 BAR, ⅛" VERTICAL CONNECTION, BRASS BODY	P0031501
GLYCERINE PRESSURE GAUGE, 0-10 BAR, ½" REAR CONNECTION, 316 L STAINLESS STEEL BODY	P0048106
GLYCERINE PRESSURE GAUGE, 0-10 BAR, ½" VERTICAL CONNECTION, 316 L STAINLESS STEEL BODY	P0048099
TAPPING POINT IN 316 L STAINLESS STEEL, SILICONE MEMBRANE, DN 6 SMOOTH OUTLET, ¼" CONNECTION	P0094252
TAPPING POINT IN 316 L STAINLESS STEEL, SILICONE MEMBRANE, DN 6 SMOOTH OUTLET, ½" CONNECTION	P0097416
PVC TAPPING POINT, ¼" CONNECTION	P0031590

Prices on request. See general terms and conditions of sale.

BWT HFX

High-flow filter

Flow rate: 12 to 60 m³/h

TECHNICAL BENEFITS
» **Simple maintenance.**
» **High flow rate.**

Operation

BWT has developed a range of high-flow stainless steel housings for use in pretreatment and point-of-use treatment.

Applications

Main applications for these housings: microfiltration.

Standard equipment

- Electropolished and screen-printed 316 L stainless steel housing.
- 2-point collar clamp, lip seal.
- 2 models: vertical (40") and horizontal (60").

Associated cartridges

- Specific BWT cartridge connection (40"/60").
- Particle microfiltration from 1 to 50 µ on polypropylene cartridges.
- Max water temperature: 80 °C.

Accessories

2 cartridge models to cover the entire pre-filtration system:
- **HFXP:** polypropylene cartridges with pleated membrane and absolute filtration threshold.
- **HFXS:** extruded polypropylene cartridges with a nominal filtration threshold.

	BWT HFX 20	BWT HFX 40	BWT HFX 60
Connection diameter	DN 50	DN 80	DN 100
Type of cartridge ends	SOE	SOE	SOE
Cartridge height	20"	40"	60"
Max service pressure	10 bar	10 bar	10 bar
Max water temperature	150 °C	150 °C	150 °C
ITEM CODE	**P0048850N**	**P0048848N**	**P0048849N**

Associated cartridges

Designation	ITEM CODE	Application
Associated microfiltration cartridges per box of 3		
BWT PROPYL HFXP 1 MICRON 20" SOE	**P0050805N**	Process
BWT PROPYL HFXP 1 MICRON 40" SOE	**P0050780N**	Process
BWT PROPYL HFXP 1 MICRON 60" SOE	**P0050781N**	Process
BWT PROPYL HFXP 5 MICRONS 20" SOE	**P0050806N**	Process
BWT PROPYL HFXP 5 MICRONS 40" SOE	**P0050788N**	Process
BWT PROPYL HFXP 5 MICRONS 60" SOE	**P0050789N**	Process
BWT PROPYL HFXP 10 MICRONS 20" SOE	**P0050807N**	Process
BWT PROPYL HFXP 10 MICRONS 40" SOE	**P0050782N**	Process
BWT PROPYL HFXP 10 MICRONS 60" SOE	**P0050783N**	Process
BWT PROPYL HFXS 10 MICRONS 40" SOE	**P0050784N**	Process
BWT PROPYL HFXS 10 MICRONS 60" SOE	**P0050785N**	Process
BWT PROPYL HFXS 20 MICRONS 40" SOE	**P0050791N**	Process
BWT PROPYL HFXS 20 MICRONS 60" SOE	**P0050792N**	Process
BWT PROPYL HFXS 50 MICRONS 40" SOE	**P0050786N**	Process
BWT PROPYL HFXS 50 MICRONS 60" SOE	**P0050787N**	Process

Prices on request. See general terms and conditions of sale.

BWT 51

Single-layer filter

Flow rate: 800 to 1,600 L/h

TECHNICAL BENEFITS
» **Optimum filtration quality.**
» **Easy to install and maintain.**

Operation

Single-cartridge filter housing for bacteriological (pharma grade) or particulate (electronic grade) filtration, to be integrated into the process on the water distribution loop or as close as possible to the point of use. Available cartridge filtration rating: 0.2 µm only.

Standard equipment

The 316 L stainless steel housing is available in 10" and 20" heights.

Associated cartridges

Microfiltration according to two grades:
- grade E = electronic application,
- grade P = pharma application.

	BWT 51 - 10"	BWT 51 - 20"
Connection diameter	DN 25/1"	DN 25/1"
Type of connection	Code 7	Code 7
Cartridge height	10"	20"
Max service pressure (20 °C)	10 bar	10 bar
Max water temperature	150 °C	150 °C
Dimensions (W × H)	120 × 429 mm	120 × 683 mm
ITEM CODE	**125557792**	**125557795**

Designation	ITEM CODE	Height	Grade
BWT-PURELIFE E 0.2 µm 10" - CODE 7	**P0096393N**	10"	electronic
BWT-PURELIFE E 0.2 µm 20" - CODE 7	**P0096395N**	20"	electronic
BWT-PURELIFE P 0.2 µm 10" - CODE 7	**P0096535N**	10"	Pharma
BWT-PURELIFE P 0.2 µm 20" - CODE 7	**P0096536N**	20"	Pharma
MOUNTING BRACKET	**125593452**		

Prices on request. See general terms and conditions of sale.

Softening

Softening involves using resins to retain the scaling elements in the water (calcium and magnesium).

ADVICE FROM OUR EXPERTS

simplyconnect

Simply Connect is the ideal range for connecting a water softener quickly, simply and economically, with all the essential components for installation and operation.

- Ready to connect
- Easy to install
- Reliable and safe assembly
- Economical

Simply Connect water softeners are equipped with:

- By-pass
- Blending valve
- Meter
- Tapping point





	SOFTENING				
			simplyconnect		
	BWT MY PERLA OPTIMUM	BWT NEW ACCESS	BWT PERLA PRO XS	BWT PERLA PRO S	BWT PERLA PRO L
APPLICATIONS	Individual housing	Individual housing	Multi-family housing/Service sector/Hotels - Catering/Medical - Healthcare/Industry		
FLOW RATE (M^3/H)	2.4*	3*	2 to 2.3*	2.4 to 3*	7 to 9.5*
RESIN VOLUME (L)	15	16	10 to 28	25 to 75	50 to 150
DESCRIPTION	Water softener essential for homes up to 6 people, stylish and compact	Water softener with essential functions and large capacity	Compact monobloc water softener ready to connect using the Simply Connect module. Simplified programming	Bi-block water softener ready to connect using the Simply Connect module. Multifunctional control panel for duplex or triplex assembly	Bi-block water softener ready to connect using the Simply Connect module. Multifunctional control panel for duplex or triplex assembly
PRODUCT BENEFITS	Ergonomic colour screen	Digital display	Digital display	Digital display	Digital display
	WiFi connectivity for real-time consultation of household water consumption, appliance remote monitoring and remote control	Early volumetric regeneration	Corrosion-resistant composite body	Corrosion-resistant composite body	Corrosion-resistant composite body
	Flow rate detection and warning abnormal, low salt warning	Large-capacity salt container	Robust, softener-integrated salt container	Robust, self-contained salt container	Robust, self-contained salt container
	Automatic resin disinfection for guaranteed hygiene	Overflow prevention system		Operation fault general alarm	Operation fault general alarm
	Complete connection kit supplied	"Origine France Garantie" (Guaranteed French Origin)			
	"Origine France Garantie" (Guaranteed French Origin)				
*at WH 0 °F	p. 64	p. 66	p. 68	p. 70	p. 72





	SOFTENING				SOFTENING/ DEMINERALISATION
	simplyconnect		simplyconnect		
	BWT PERLA PRO XL	BWT PERLA PRO XXL	BWT RONDOMAT ECOBIO SC	BWT EC	BWT AQA THERM
APPLICATIONS	Multi-family housing/Service sector Hotels - Catering/ Medical - Healthcare/Industry		Multi-family housing/ Service sector Hotels - Catering/Medical - Healthcare	Hotels - Catering on direct Hot water	Filling closed water circuits with softened or demineralised water
FLOW RATE (M^3/H)	7 to 12*	20 to 26	2 to 10*	2.7*	180 or 300 L/h
RESIN VOLUME (L)	50 to 250	150 to 1250	2 × 18 to 2 × 150	17	NC
DESCRIPTION	Bi-block water softener ready to connect using the Simply Connect module. Multifunctional control panel for duplex or triplex assembly	Bi-block water softener for technical facilities and multifunctional control panel for duplex or triplex assembly	High-tech duplex softener for continuous water treatment.	Special hot water bi-block softener with simplified programming	Closed water circuit filling manifold. Choice of softened or demineralised water
PRODUCT BENEFITS	Digital display	Digital display	Low water and salt consumption	Withstands temperatures up to 65 °C	Softening or demineralisation manifold, ready to connect, ready to use
	Corrosion-resistant composite body	Corrosion-resistant composite body	Digital display High-tech duplex	Display of "service" and "regeneration" functions	Helps protect heating systems against limescale
	Robust, self-contained salt container	Robust, self-contained salt container	Robust, self-contained salt container	Robust, self-contained salt container	Replaceable softening or demineralisation cartridges with service life indicator
	Operation fault general alarm	Operation fault general alarm			No consumption of water, salt or electricity
	Low water and salt consumption				
	Conductivity probe on discharge and resin chlorination probe				
	p. 74	p. 76	p. 78	p. 80	p. 62

BWT Aqa Therm

Reduce · Improve · Protect

System for filling circuits with softened water

Flow rate: 180 or 300 L/h
Two types of cartridges available:
softening or demineralisation
(in compliance with VDI 2035)

Operation

BWT Aqa Therm is a pre-equipped, ready-to-install system for metering and softening filling water and subsequent top-ups. The electronic display allows you to set the input hardness (WH) and indicates the service life of the treatment cartridge. The BWT HFB Aqa Therm separation system (optional) is connected upstream of the softening manifold, to the top-up line of the HVAC network. It separates the drinking water network from the closed circuit in accordance with European standard DIN EN 1717) and protects the facilities from pressure variations. Pre-equipped, it saves installation time.

TECHNICAL BENEFITS

- Ready-to-connect, ready-to-use **softening manifold.**
- **Protects heating systems** against limescale.
- **Replaceable softening cartridges** with service life indicator.
- No consumption of water, salt or electricity.

Applications

BWT Aqa Therm is a practical, environmentally-friendly system for filling heating circuits with softened water, even if there is no softener. Limescale, which is highly insulating, settles in the hottest spots and slows down heat exchange. Filled with softened water, the installations are protected from scaling, for greater efficiency and energy savings.
Ideal for small and medium heating and chilled water circuits, the BWT Aqa Therm HES filling system meets the recommendations of heating equipment manufacturers.

Standard equipment

The BWT Aqa Therm HES softening manifold is delivered ready for connection and includes:
- a water meter to check water top-ups,
- a connector for S or L softening cartridges,
- 2 stop valves so you can work on the system at any time,
- air release valve integrated into the insulation.

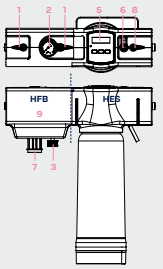
The battery life settings and monitoring screen operate using batteries (supplied) and all the equipment is insulated.

The BWT HFB Aqa Therm is a pre-assembled separating system in accordance with European standard DIN EN 1717 that includes:
- a backflow preventer separating the circuit from the drinking water network
- a pressure reducing valve to protect network equipment
- a pressure gauge (HVAC system pressure)
- of a discharge relief valve

BWT HES AQA THERM SOFTENING MANIFOLD	
Connection diameter	½" (DN 15)
Max fill flow rate	180 L/h with S cartridge · 300 L/h with L cartridge
Nominal pressure	4 bar
Operating temperature (top-up water)	30 °C
Cartridge weight (in water)	1.5 (S) – 6 (L) kg
Service life (for top-up up to 35 °F)	150 (S) – 700 (L) litres
Dimensions (L × H) HFB + HES + size L cartridge	450 × 520 mm
Dimensions (H × H) HES + size L cartridge	310 × 520 mm

BWT AQA THERM HFB SEPARATING SYSTEM	
Max temperature (top-up water)	65 °C
Pressure reducing valve	Pre-set to 1.5 bar (adjustable from 1.5 to 4 bar)
Connection diameter	½" external thread (DN 15)
Nominal pressure	PN10 bar
Discharge pipe connection (discharge relief valve)	DN 50

INSTALLATION RECOMMENDATIONS



1. Ball valve
2. Pressure gauge
3. Pressure reducing valve
4. Softening cartridge
5. Water meter
6. Air release valve
7. Drain valve with connection
8. Shut-off ball valve
9. 25 µm pre-filter

Accessories & Consumables

Designation	ITEM CODE
BWT HES AQA THERM SOFTENING MANIFOLD	
AQA THERM HEAD BWT HES AQA THERM (WITHOUT CARTRIDGE)	P0039300
SIZE S SOFTENING CARTRIDGE BWT HRC S AQA THERM	1 25639418
SIZE L SOFTENING CARTRIDGE BWT HRC L AQA THERM	1 25639419
SIZE L DEMINERALISATION CARTRIDGE BWT SRC L AQA THERM	125639421
XL SIZE DEMINERALISATION CARTRIDGE BWT SRC XL AQA THERM	125639422
BWT OPTIONAL HFB AQA THERM	
DIN EN 1717 SEPARATING SYSTEM AND PRESSURE REDUCING VALVE (1-2-3-7-9) BWT HFB AQA THERM	P0039305

Softening and Anti-scaling

Prices on request. See general terms and conditions of sale.

BWT my PERLA Optimum

Essential for all households of up to 6 people

User benefits

- **Design:** compact (less than 1 m high), colour interface and clean lines.
- **Controlled hygiene:** automatic resin disinfection and filtration with anti-bacterial proliferation treatment.
- **WiFi connectivity:** real-time reading of household water consumption, appliance remote monitoring and control.
- **Performance and safety:** consumption control, abnormal flow detection and warning, salt shortage warning.

Technical benefits

- **Easy to install:** complete connection kit included, bottle separate from salt container makes handling effortless.
- **Compatible with ¾" and 1" connections.**
- **Universal:** meets the needs of over 95% of households (ideal for 1 to 6 people).

ACS

10 YEARS WARRANTY — CONTAINER, BOTTLE AND RESINS

3 YEARS WARRANTY — CIRCUIT BOARD*

2 YEARS WARRANTY — SPARE PARTS AND WEAR & TEAR PARTS

WiFi — REGISTER HERE: BWT-MONSERVICE.COM TO SIMPLIFY MAINTENANCE

Flow rate	2.4 m³/h (WH=10 °F)
Resin volume	15 L
Dynamic pressure	2 bar
Static pressure	5 bar
Connection	DN 25 and DN 20 (1" and ¾")
Max salt capacity	42 kg
Dimensions (L × H × D)	340 × 1,000 × 460 mm
Treatment capacity	1 to 6 people
ITEM CODE	**12559180S**

Applications

Protection against impurities and water softening for all households of 1 to 6 people (regardless of water hardness).

Included in the box:
- BWT my PERLA Optimum water softener
- B.Secure filter: 25 µm filtration and anti-bacterial proliferation treatment
- Siphon drain
- 1" and ¾" bypass compatible
- Connection hoses
- Fittings and tubing.

Specific softener features:
- Advanced volumetric regeneration: (guarantees fresh water at all times) and proportional (saves water and salt).
- WiFi connectivity: monitors water and salt consumption, checks appliance status remotely.
- Abnormal flow alarm and low salt alarm.
- Holiday mode: automatic regeneration when you return after a long vacation.
- Chlorination probe: automatic disinfection of resins during each regeneration.
- Bi-block architecture: separate bottle and salt container.
- Dry salt container: no brine stagnation.

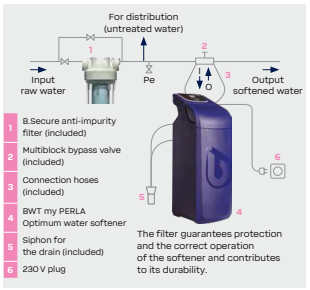
Maintenance

- B.Secure filter cartridge replacement: **approximately every 6 months**.
- Cleaning the softener resins with Ioclean tablets: **2 tablets approximately every 6 months**.
- Salt refill: by regular checking or following the reminder instructions issued by the appliance and the bwt-monservice.complatform.

(1) In mainland France during the first year of purchase.
*Subject to regular maintenance by a professional.

Prices on request. See general terms and conditions of sale.

Installation recommendation



The filter guarantees protection and the correct operation of the softener and contributes to its durability.

Device can be registered on platform bwt-monservice.com to make maintenance simpler:
- WiFi communication with my PERLA Optimum water softener.
- Real-time monitoring of household water and softener salt consumption.
- Receive salt shortage warnings and abnormal flow detection.
- Access to device documentation.
- Maintenance reminders, appointment scheduling and contract management.
- Access to the e-shop.

GOOD TO KNOW

The BWT my PERLA Optimum has the "Origine France Garantie" (Guaranteed French Origin) label. What exactly does this mean?
Watch our video by scanning the QR code:

BWT New Access

Essential functions and large capacity

ACS

10 YEARS WARRANTY — CONTAINERS, BOTTLES AND RESINS

3 YEARS WARRANTY — CIRCUIT BOARD*

2 YEARS WARRANTY — SPARE PARTS AND WEAR AND TEAR PARTS

Flow rate	3 m³/h (WH=10 °F)
Resin volume	16 L
Dynamic pressure	2 bar
Static pressure	5 bar
Max water temperature	35 °C
Max salt capacity	125 kg
Dimensions (L × H × D)	410 × 1,110 × 535 mm
Treatment capacity	For up to 6 people
ITEM CODE	**125300402**

USER BENEFITS

- » **Extensive salt service life.**
- » **Robust salt container.**
- » **Essential functions.**

TECHNICAL BENEFITS

- » **Complete connection kit** available as an option (pre-filter, hoses and bypass).

Applications

Water softening for households of 1 to 6 people on average.

Included in the box:

- 16-litre water softener,
- siphon drain.

Optional connection kit available

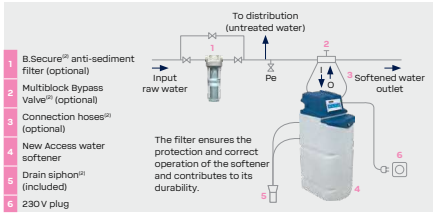
Specific softener features:

- advanced volumetric regeneration: for permanently softened water,
- large-capacity salt container,
- overflow prevention system.

Maintenance

- Cleaning the softener resins with Ioclean tablets: **approximately every 6 months**.
- Refill the softener with salt by visually checking the salt level in the container.

Installation recommendation



1 B.Secure(2) anti-sediment filter (optional)
2 Multiblock Bypass Valve(2) (optional)
3 Connection hoses(2) (optional)
4 New Access water softener
5 Drain siphon(2) (included)
6 230 V plug

(1) In mainland France during the first year of purchase.
(2) Optional connection kit.
*Subject to regular maintenance by a professional.

Prices on request. See general terms and conditions of sale.

BWT connection kit

For fast, simple and compliant installation for BWT water softeners or other brands

The connection kit contains:

- **1 B.Secure filter** fitted with a 25 µm anti-sediment cartridge with bacteriostatic treatment,
- **1 Bypass Valve** 1" or ¾" compatible,
- **1 Siphon drain**,
- **1 pair of connection hoses**.

ITEM CODE	**B0044851**

B.Secure filter

The **B.Secure filter** protects the softener from particles and sediments in the mains water.

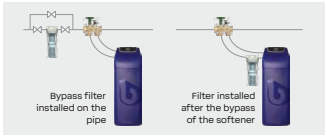
TECHNICAL BENEFITS

- » **2-in-1 filtration:** anti-sediment and anti-bacterial proliferation.
- » **Ready-to-install filter:** supplied with mounting bracket and release key.

Installation recommendation

The filter is installed upstream of the softener, preferably in a bypass configuration. This makes it possible to work on the filter while maintaining water circulation in the home.

It can be installed in two ways:



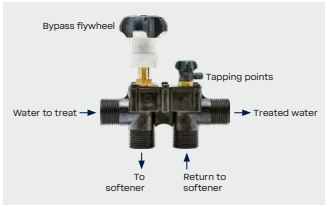
Multiblock Bypass

The **Multiblock Bypass** is essential to isolate the softener for maintenance tasks, to carry out hardness tests and to be able to supply the home with water in the event of work being carried out on the appliance.

TECHNICAL BENEFITS

- » **Compatible** with 1" and ¾" installations.
- » Supplied with suitable reducers.
- » **Easy to operate:** open and close by simply turning the flywheel.

Installation recommendation



Siphon drain

A siphon must be fitted to drain off the waste water from the softener (rinse and overflow water). The BWT Siphon's disconnection system prevents waste water from being accidentally sucked into the softening system and back up, thereby avoiding the risk of polluting the mains water.

TECHNICAL BENEFITS

- » **Easy to install.**
- » **Double inlet siphon** (rinse water and salt container overflow water).
- » **Disconnection system** to prevent accidental pollution.
- » **Guarantees compliance of the installation** (Standard EN 274-1 – Article R1321-57 of the French Public Health Code).

Annealed tubes

The hoses connect the softener valve to the brass bypass. The softener must be connected to these hoses to ensure proper circulation of raw and softened water through the device.

TECHNICAL BENEFITS

- » **2 hoses included** with BWT connection kits.
- » **Quick and easy to install.**

Prices on request. See general terms and conditions of sale.

BWT Perla Pro XS

Reduce Improve

Water softener

Flow rate: 2 to 2,3 m³/h at WH 0 °F
Resin volume: 10 to 28 L

TECHNICAL BENEFITS

» Compact design **monobloc water softener**.
» **Simply Connect:** quick, easy and cost-effective connection.

Operation

BWT softener technology consists of removing limescale by ion exchange using high-tech resins. Scaling salts (calcium and magnesium) are retained, softening the water. The BWT XS Perla Pro is a high-techappliance that uses very little water and salt. The appliance automatically calculates the quantity of softened water produced and the remaining service life to trigger regeneration as required (volumetric programming). Programming is simplified, using a control panel.

Applications

BWT water softeners in the SIMPLY CONNECT range are designed for use in the residential, commercial, hotel, catering and healthcare sectors, for applications in:

- filling HVAC systems,
- protecting washing machines and steam ovens,
- producing domestic hot water.

BWT Perla Pro XS softeners are monobloc units ideal for small spaces in boiler rooms or kitchens. Softened water protects installations and equipment from premature deterioration or excessive energy consumption because of limescale.

Standard equipment

Softener supplied complete with:

- a polymer valve (Noryl) with built-in meter and mixer valve,
- a DN 25/1" connection,
- fibreglass-reinforced polyester body: no risk of corrosion,
- an electronic control panel,
- resins approved for use in water for human consumption,
- Simply Connect connection system: meter, bypass, mixer valve, built-in hoses,
- provide a 230V/50 Hz power socket.

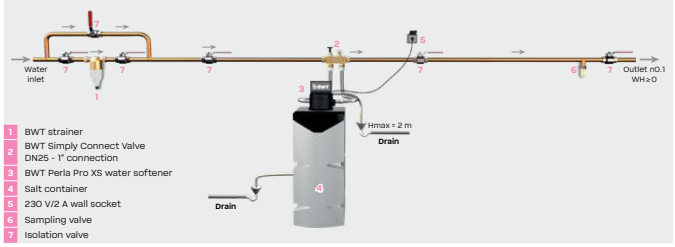
	BWT PERLA PRO XS 10	BWT PERLA PRO XS 16	BWT PERLA PRO XS 28
Resin volume	10 L	16 L	28 L
Connection diameter	DN 25/1"	DN 25/1"	DN 25/1"
Instantaneous operating flow at WH < 0.2 °F*	2 m³/h	2.2 m³/h	2.3 m³/h
Min dynamic pressure (dynamic)/max (static)	2.0/7 bar	2.0/7 bar	2.0/7 bar
Maximum water temperature	35 °C	35 °C	35 °C
First salt fill	25 kg	125 kg	125 kg
Salt container service life	27 reg.	48 reg.	24 reg.
Floor load	120 kg	150 kg	160 kg
Dimensions (L × H × D)	330 × 690 × 610 mm	570 × 1140 × 460 mm	570 × 1140 × 460 mm
ITEM CODE	**125548901**	**125548902**	**125548903**

*1 bar load loss.

Accessories & Consumables

Designation	ITEM CODE
BWT AVANTI WF DN 25/1" FILTER	**P0003197A**
RESIN CHLORINATION KIT	**P0012006**
PACK AQA CLEAN CT1 NEW-50-150L	**125666100**
DN 25/1" MIXING VALVE	**P0001920**
SALT TABLETS - 25 KG	**P0009249**
FLOW INTERRUPTION CONNECTION (UP TO 150 L OF RESIN)	**125665885**

INSTALLATION RECOMMENDATIONS



1 BWT strainer
2 BWT Simply Connect Valve DN25 - 1" connection
3 BWT Perla Pro XS water softener
4 Salt container
5 230 V/2 A wall socket
6 Sampling valve
7 Isolation valve

Prices on request. See general terms and conditions of sale.

BWT Perla Pro S

Reduce Improve

Water softener

Flow rate: **2.4 to 3 m³/h at WH 0 °F**
Resin volume: **25 to 75 L**

TECHNICAL BENEFITS

- Compact design **bi-bloc water softener**.
- **Simply Connect:** quick, easy and cost-effective connection.

Operation

BWT softener technology consists of removing limescale by ion exchange using high-tech resins. Scaling salts (calcium and magnesium) are retained, softening the water. BWT Perla Pro S devices feature advanced technology that enables them to handle high flow rates. Can be operated in duplex or triplex, in parallel or alternating assembly with alternating kit.

Applications

BWT water softeners in the Simply Connect range are designed for use in the residential, commercial, hotel, restaurant and healthcare sectors, for applications in:

- filling HVAC systems,
- protection for washing machines and steam ovens,
- domestic hot water production,
- supplying industrial processes (e.g. cooling towers, boilers, technical circuits, cooling water, etc.).

Standard equipment

Softener supplied complete with:

- a polymer valve (Noryl) with built-in meter and mixer valve,
- a DN 32/1"¼ connection,
- fibreglass-reinforced polyester body: no risk of corrosion,
- an electronic control panel,
- a resin approved for use in water for human consumption,
- Simply Connect connection system: meter, bypass, mixer valve, built-in hoses,
- provide a 230V/50 Hz power socket.

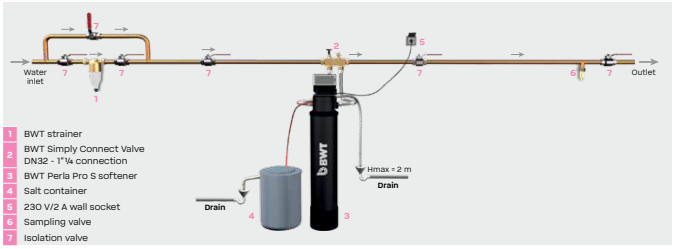
	BWT PERLA PRO S 25	BWT PERLA PRO S 50	BWT PERLA PRO S 75
Resin volume	25 L	50 L	75 L
Connection diameter	DN 32/1"¼	DN 32/1"¼	DN 32/1"¼
Instantaneous operating flow at WH < 0.2 °F*	2.4 m³/h	2.6 m³/h	3 m³/h
Min dynamic pressure (dynamic)/max (static)	2/7 bar	2/7 bar	2/7 bar
Maximum water temperature	35 °C	35 °C	35 °C
First salt fill	75 kg	100 kg	100 kg
Salt container service life	20 reg.	17 reg.	13 reg.
Floor load	240 kg	300 kg	500 kg
Diameter of softener body × Height of the softener	210 × 1,580 mm	260 × 1,830 mm	335 × 1,830 mm
Salt container dimensions(Ø × H)	530 × 630 mm	530 × 750 mm	530 × 750 mm
ITEM CODE	**125548912**	**125548914**	**125548916**

*1 bar load loss.

Accessories & Consumables

Designation	ITEM CODE
BWT INFINITY MANUAL FILTER DN 32/1"¼	**P0010072**
BWT INFINITY AUTOMATIC FILTER DN 32/1"¼	**P0010077**
BWT AVANTI WF FILTER DN 32/1"¼	**P0003198A**
RESIN CHLORINATION KIT (UP TO 125 L)	**P0011506**
PACK AQA CLEAN CT1 NEW-50-150L	**125666100**
DN 25/1" MIXING VALVE	**P0001920**
LOW SALT SENSOR	**C0261545**
BY-PASS ELIMINATION KIT FOR BWT PERLA PRO S	**P0001286**
ALTERNATING KIT	**P0005716**
SALT TABLETS - 25 KG	**P0009249**
FLOW INTERRUPTION CONNECTION (UP TO 150 L OF RESIN)	**125665885**

INSTALLATION RECOMMENDATIONS



1. BWT strainer
2. BWT Simply Connect Valve DN32 - 1"¼ connection
3. BWT Perla Pro S softener
4. Salt container
5. 230 V/2 A wall socket
6. Sampling valve
7. Isolation valve

Softening and Anti-scaling

Prices on request. See general terms and conditions of sale.

BWT Perla Pro L

Reduce Improve

Water softener

Flow rate: 7 to 9,5 m³/h at WH 0 °F
Resin volume: 50 to 150 L

TECHNICAL BENEFITS

» Compact design **bi-bloc water softener**.
» **Simply Connect:** quick, easy and cost-effective connection.

Operation

BWT softener technology consists of removing limescale by ion exchange using high-tech resins. Scaling salts (calcium and magnesium) are retained, softening the water. BWT Perla Pro L devices are equipped with advanced technology to handle high flow rates. Can be operated in duplex or triplex, in parallel or alternating assembly with alternating kit.

Applications

BWT softeners in the Simply Connect range are designed for use in the residential, commercial, hotel, restaurant and healthcare sectors, for these applications:

- filling HVAC systems,
- protection for washing machines and steam ovens,
- domestic hot water production,
- supplying industrial processes (e.g. cooling towers, boilers, technical circuits, cooling water, etc.).

Standard equipment

Softener supplied complete with:

- a polymer valve (Noryl),
- Simply Connect system: meter, bypass, mixer valve, built-in hoses,
- an electronic control panel,
- provide a 230V/50 Hz power socket.

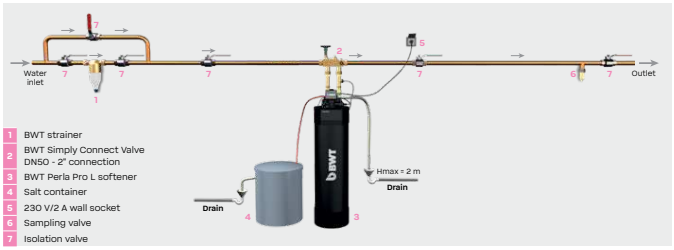
	BWT PERLA PRO L 50	BWT PERLA PRO L 75	BWT PERLA PRO L 125	BWT PERLA PRO L 150
Resin volume	50 L	75 L	125 L	150 L
Connection diameter	DN 50/2"	DN 50/2"	DN 50/2"	DN 50/2"
Instantaneous operating flow at WH < 0.2 °F*	7 m³/h	7 m³/h	7 m³/h	9.5 m³/h
Min dynamic pressure (dynamic) /max (static)	2/7 bar	2/7 bar	2/7 bar	2/7 bar
Maximum water temperature	35 °C	35 °C	35 °C	35 °C
First salt fill	125 kg	125 kg	200 kg	200 kg
Salt container service life	21 reg.	10 reg.	15 reg.	12 reg.
Floor load	450 kg	500 kg	550 kg	850 kg
Softener body diameter ×Softener height	375 × 1,350 mm	375 × 1,830 mm	425 × 1,830 mm	460 × 1,920 mm
Salt container dimensions(Ø × H)	530 × 750 mm	565 × 1,125 mm	720 × 800 mm	720 × 800 mm
ITEM CODE	**125548928**	**125548929**	**125548930**	**125548931**

*1 bar load loss.

Accessories & Consumables

Designation	ITEM CODE
BWT INFINITY MANUAL FILTER DN 40/1"½	**P0010073**
BWT INFINITY AUTOMATIC FILTER DN 40/1"½	**P0010078**
BWT AVANTI WF FILTER DN 40/1"½	**P0003199A**
RESIN CHLORINATION KIT (UP TO 125 L)	**P0011507**
PACK AQA CLEAN CT1 NEW-50-150L	**125666100**
T-FITTING FOR WH 0 °F SIMPLY CONNECT	**P0073422**
MIXING VALVE DN 32/1"¼	**125639923**
LOW SALT SENSOR	**C0261545**
BY-PASS ELIMINATION KIT	**P0001791**
ALTERNATING KIT	**P0005702**
RINSE KIT	**125549765**
SALT TABLETS - 25 KG	**P0009249**
FLOW INTERRUPTION CONNECTION (UP TO 150 L OF RESIN)	**125665885**

INSTALLATION RECOMMENDATIONS



1 BWT strainer
2 BWT Simply Connect Valve DN50 - 2" connection
3 BWT Perla Pro L softener
4 Salt container
5 230 V/2 A wall socket
6 Sampling valve
7 Isolation valve

Softening and Anti-scaling

Prices on request. See general terms and conditions of sale.

BWT Perla Pro XL

Reduce Improve Protect

Water softener

Flow rate: 12 m³/h
Resin volume: 125 and 250 L

TECHNICAL BENEFITS

- **Reduced water and salt consumption** with the Top-Out design.
- **Innovative Top-Out design:** water flows through the resin from bottom to top.

Operation

BWT softener technology consists of removing limescale by ion exchange using high-tech resins. Scaling salts (calcium and magnesium) are retained, softening the water. BWT Perla Pro XL units feature innovative reverse flow technology inside the unit (water circulates from the bottom to the top through the softening resin), as well as a sensor to monitor the quality of the discharge during regeneration phases. These innovations enable BWT Perla Pro XL appliances to generate significant operating savings (water and salt, compared with standard appliances) and also to optimise the volume of resin needed to run your facilities. Can be operated in duplex or triplex, in parallel or alternating assembly with alternating kit.

Applications

BWT water softeners in the Perla PROrange are designed for collective housing, the service sector, hotels, catering and the health sector, for applications in:

- filling HVAC systems,
- protecting washing machines and steam ovens,
- process supply (e.g. cooling water towers, technical circuits, cooling water, etc.).

Standard equipment

Softener supplied complete with:

- a synthetic material valve with regeneration bypass and integrated meter,
- a DN 50/2"(SC) connection,
- fibreglass-reinforced polyester body: no risk of corrosion,
- an electronic control panel,
- a resin approved for use in water for human consumption,
- a Simply Connect connection system: by-pass, mixer valve, built-in hoses,
- an electrolysis cell for resin disinfection during each regeneration,
- provide a 230V/50 Hz power socket.

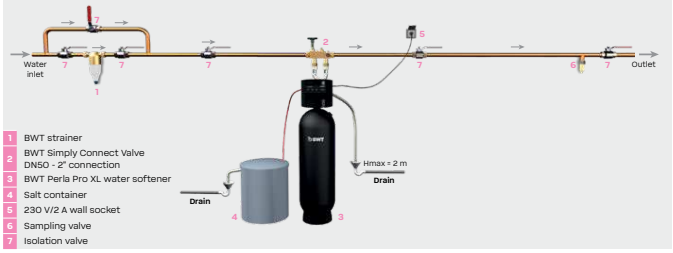
	BWT PERLA PRO XL 125	BWT PERLA PRO XL 250
Resin volume	125 L	250 L
Connection diameter	DN 50/2"	DN 50/2"
Instantaneous operating flow at WH < 0.2 °F*	12 m³/h	12 m³/h
Min dynamic pressure (dynamic)/max (static)	2/7 bar	2/7 bar
Maximum water temperature	35 °C	35 °C
First salt fill	200 kg	200 kg
Salt container service life	23 reg.	9 reg.
Floor load	250 kg	350 kg
Diameter of the softener body × Height of the softener	560 × 1,375 mm	560 × 2095 mm
Salt container dimensions(Ø × H)	720 × 800 mm	720 × 1,435 mm
ITEM CODE	**125300243**	**125300246**

Other models on request.
*1 bar load loss.

Accessories & Consumables

Designation	ITEM CODE
MANUAL BWT INFINITY DN 50/2" FILTER	P0010074
AUTOMATIC BWT INFINITY DN 50/2" FILTER	P0010079
BWT AVANTI WF DN 50/2" FILTER	P0003200A
PACK AQA CLEAN CT2 NEW-150-300L	125666101
T-FITTING FOR WH 0 °F SIMPLY CONNECT	P0073422
MIXING VALVE DN 32/1"¼	125639923
DN 50/2" MIXING VALVE	P0001924
LOW SALT SENSOR	C0261545
BY-PASS ELIMINATION KIT	125301884
ALTERNATION KIT	125301892
SALT TABLETS - 25 KG	P0009249
TAPPING POINT	125299220
RINSE KIT	125576278

INSTALLATION RECOMMENDATIONS



Softening and Anti-scaling

Prices on request. See general terms and conditions of sale.

BWT Perla Pro XXL

Reduce Improve

Water softener

Flow rate: 20 to 26 m³/h at WH 0 °F
Resin volume: 150 to 1,250 L

TECHNICAL BENEFITS
» **Industrial configuration.**
» Handling **large flow rates.**

Operation

BWT softener technology consists of removing limescale by ion exchange using high-tech resins. Scaling salts (calcium and magnesium) are retained, softening the water. BWT Perla Pro Perla Pro XXL feature advanced technology that enables them to handle high flow rates. Can be operated in duplex or triplex, in parallel or alternating assembly with alternating kit.

Applications

The BWT range of Perla Pro XXL softeners are designed for collective housing, the service sector, hotels, catering and the healthcare sector, for applications in:
- domestic hot water production,
- filling HVAC systems,
- protecting washing machines and steam ovens,
- supplying industrial processes (e.g. cooling towers, boilers, technical circuits, cooling water, etc.).

Softened water protects installations and equipment from premature deterioration or excessive energy consumption because of limescale.

Standard equipment

Softener supplied complete with:
- a steel valve with or without by-pass depending on the setting,
- a DN 2"⅟₂ connection,
- fibreglass-reinforced polyester body: no risk of corrosion,
- an electronic control panel,
- resins approved for use in water for human consumption,
- a pair of 2"⅟₂ hoses,
- provide a 230V/50 Hz power socket.

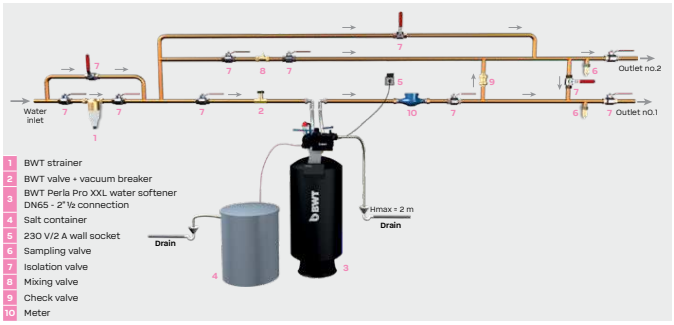
	BWT PERLA PRO XXL 150	BWT PERLA PRO XXL 300	BWT PERLA PRO XXL 400	BWT PERLA PRO XXL 600	BWT PERLA PRO XXL 800	BWT PERLA PRO XXL 1250
Resin volume	150 L	300 L	400 L	600 L	800 L	1250 L
Connection diameter	DN 65/2"½	DN 65/2"½	DN 65/2"½	DN 65/2"½	DN 65/2"½	DN 65/2"½
Instantaneous operating flow at WH < 0.2 °F*	20 m³/h	22 m³/h	26 m³/h	20 m³/h	20 m³/h	20 m³/h
Min dynamic pressure (dynamic) /max (static)	2/7 bar	2/7 bar	2/7 bar	2/7 bar	2/7 bar	2/7 bar
Maximum water temperature	35 °C	35 °C	35 °C	35 °C	35 °C	35 °C
First salt fill	400 kg	400 kg	600 kg	1000 kg	1000 kg	2000 kg
Salt container service life	13 reg.	9 reg.	7 reg.	12 reg.	8 reg.	10 reg.
Floor load	Refer to the technical manual.					
Softener body diameter						
Softener height						
Salt container dimensions(Ø × H)	720 × 1,435 mm	820 × 1,435 mm	1,300 × 1,570 mm	1,300 × 1,570 mm	1,300 × 1,570 mm	(2 × 1,300) × 1,570 mm
ITEM CODE	**BKPROXXL150**	**BKPROXXL300**	**BKPROXXL400**	**BKPROXXL600**	**BKPROXXL800**	**BKPROXXL1250**

*1 bar load loss.

Accessories & Consumables

Designation	ITEM CODE
BWT INFINITY MANUAL FILTER DN 65/2"½	**PK0033932A**
BWT INFINITY AUTOMATIC FILTER DN 65/2"½	**PK0033936A**
BWT AVANTI WF FILTER DN 65/2"½	**P0003539**
PACK AQA CLEAN CT2 NEW-150-300L	**125666101**
AQA CLEAN CT3 (SOFTENER MAINTENANCE KIT) 300 TO 1,000 L)	**P0004897**
DN 50/2" MIXING VALVE	**P0001924**
LOW SALT SENSOR	**C0261545**
DN 50 TRANSMITTING METER WITH FLANGES	**125557688**
HYDRO 2 COUNTER ALTERNATING KIT (NOT INCLUDED)	**P0001921**
HYDRO 1 METER ALTERNATING KIT (NOT INCLUDED)	**P0001922**
SALT TABLETS - 25 KG	**P0009249**

INSTALLATION RECOMMENDATIONS



1 BWT strainer
2 BWT valve + vacuum breaker
3 BWT Perla Pro XXL water softener DN65 - 2" ½ connection
4 Salt container
5 230 V/2 A wall socket
6 Sampling valve
7 Isolation valve
8 Mixing valve
9 Check valve
10 Meter

Prices on request. See general terms and conditions of sale.

BWT Rondomat Ecobio SC

Water softener

Flow rate: 2 to 10 m³/h at WH 0 °F

Reduce Improve Protect

TECHNICAL BENEFITS

- **Continuous production of softened water.**
- **Exclusive anti-bacterial process.**
- **Simply Connect:** quick, easy and cost-effective connection.

Operation

BWT softener technology consists of removing limescale by ion exchange using high-tech resins. Scaling salts (calcium and magnesium) are retained, softening the water. BWT Rondomat Ecobio SC softening stations feature advanced technology that can handle high flow rates. The appliance is equipped with two resin columns that enable it to deliver continuously softened water. Its technology means it uses less water (-50%) and salt (-40%). It is equipped with an exclusive anti-bacterial proliferation process. This compact station with a single salt container takes up minimal space.

Applications

The BWT Rondomat Ecobio SC softening station is designed for all softened water applications in sensitive environments, for continuous water production:

- communal Public Buildings,
- hospitals,
- retirement homes,
- industries.

Standard equipment

Softener supplied complete with:

- an automatic valve with two cylinders,
- a DN 32/1"¼ or DN 50/2" connection,
- fibreglass-reinforced polyester body: no risk of corrosion,
- an IP54 digital control panel: shows historical data, production cycle faults and the flow rate of the softened water provided; GTC reports included,
- a single, fast-dissolving salt container,
- a resin approved for use in water for human consumption,
- Simply Connect connection system: meter, bypass, mixer valve, built-in hoses,
- a salt shortage detection system,
- provide a 230V/50 Hz power socket.

	BWT RONDOMAT ECOBIO 2	BWT RONDOMAT ECOBIO 3	BWT RONDOMAT ECOBIO 6	BWT RONDOMAT ECOBIO 10
Connection diameter	DN 32/1"¼	DN 32/1"¼	DN 50/2"	DN 50/2"
Instantaneous operating flow at WH < 0.2 °F	2 m³/h	3 m³/h	6 m³/h	10 m³/h
Resin volume	2 × 18 L	2 × 43 L	2 × 100 L	2 × 150 L
Min dynamic pressure (dynamic)/max (static)	2.5/8.0 bar	2.5/8.0 bar	2.5/8.0 bar	2.5/8.0 bar
Maximum water temperature	35 °C	35 °C	35 °C	35 °C
First salt fill	75 kg	75 kg	150 kg	150 kg
Salt container service life	50 reg.	22 reg.	18 reg.	12 reg.
Floor load	200 kg	280 kg	650 kg	780 kg
Softener height	951 mm	1472 mm	1747 mm	1631 mm
Salt container dimensions(Ø × H)	470 × 630 mm	470 × 630 mm	650 × 880 mm	650 × 880 mm
ITEM CODE	**BKORONDO2SC**	**BKORONDO3SC**	**BKORONDO6SC**	**BKRONDO10SC**

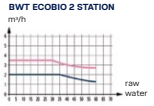
*1 bar load loss.

Selecting the softening station BWT Rondomat Ecobio SC

The BWT Rondomat Ecobio softening station is determined by:

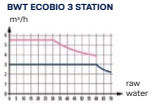
- raw water hardness in °F,
- the desired residual hardness of the treated water,
- the continuous (or nominal) water flow rate to be provided by the installation.

BWT ECOBIO 2 STATION



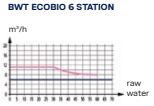
For water supplied at WH 0 °F

BWT ECOBIO 3 STATION

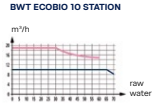


For water supplied at WH 14 °F

BWT ECOBIO 6 STATION



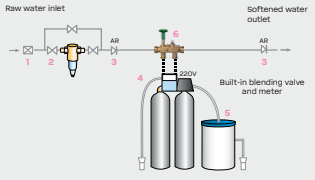
BWT ECOBIO 10 STATION



Accessories & Consumables

Designation	ITEM CODE
BWT INFINITY MANUAL FILTER DN 32/1"¼	**P0010072**
BWT INFINITY AUTOMATIC FILTER DN 32/1"¼	**P0010077**
BWT AVANTI WF FILTER DN 32/1"¼	**P0003198A**
MANUAL BWT INFINITY DN 50/2" FILTER	**P0010074**
AUTOMATIC BWT INFINITY DN 50/2" FILTER	**P0010079**
BWT AVANTI WF DN 50/2" FILTER	**P0003200A**
CT1 AQA CLEAN (SOFTENER MAINTENANCE KIT COLLECTIVE) **FOR R. ECOBIO 2/3/6**	**P0004895**
CT2 AQA CLEAN (SOFTENER MAINTENANCE KIT COLLECTIVE) **FOR R. ECOBIO 10**	**P0004896**
T-FITTING FOR WH 0 °F SIMPLY CONNECT	**P0073402**
MIXING VALVE DN 32/1"¼	**125639923**
SALT TABLETS - 25 KG	**P0009249**

INSTALLATION RECOMMENDATIONS



1. Pressure regulation if required
2. By-pass filter
3. Check valve
4. Ecobio softener
5. Quick-dissolving salt container
6. Simply Connect Module
   + By-pass
   + Mixer (2" only)
   + Tapping point
   + Pressure gauge (2" only)

Prices on request. See general terms and conditions of sale.

BWT EC

Hot water softener

Flow rate: 2.5 m³/h at WH 0 °F
Resin volume: 17 L

TECHNICAL BENEFITS

» **Treatment of** pre-heated water.
» **Simplified** chronometric programming.

Operation

BWT softener technology consists of removing limescale by ion exchange using high-tech resins. Scaling salts (calcium and magnesium) are retained, softening the water. The BWT EC is an automatic bi-block softener. It uses advanced technology to treat water that has already been heated, as close as possible to its point of use. It can withstand temperatures of up to 65°C. Regeneration is timed. Programming is simplified, using a control panel.

Applications

The BWT EC water softener is designed for use in the hotel and catering industries, for applications in:
- hot water production for kitchens,
- softening of hot water for DHW supplying kitchens,
- protection for washing machines and steam ovens,
- supplying specific industrial processes with hot water.

Softened water protects facilities and equipment from premature deterioration or excessive energy consumption because of limescale.

Standard equipment

Softener supplied complete with:
- a bronze and Teflon-coated metal valve,
- a DN 25/1" connection,
- fibreglass-reinforced polyester body: no risk of corrosion,
- a manual programming valve,
- a by-pass and built-in re-hardening,
- provide a 230V/50 Hz power socket.

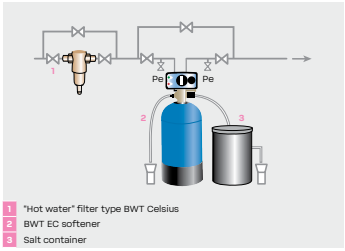
	BWT EC 17
Resin volume	17 L
Connection diameter	DN 25/1"
Flow rate at WH < 0.2 °F	2.5 m³/h
Min dynamic pressure (dynamic) /max (static	2/7 bar
Maximum water temperature	65 °C
First salt fill	100 kg
Salt container service life	30 reg.
Floor load	150 kg
Softener body diameter	268 mm
Softener height	678 mm
Salt container dimensions(Ø × H)	480 × 670 mm
ITEM CODE	**PK0001571**

*for WH 30 °F raw water.

Accessories & Consumables

Designation	ITEM CODE
BWT PROTECTOR MINI 1" FILTER	**125502935**
SET OF STAINLESS STEEL ANNEALED TUBES 1" F/F 110 °C	**C0011802**
AQA CLEAN CT 1 (SOFTENER MAINTENANCE KIT) FROM 50 TO 150 L)	**P0004895**
DN 25/1" MIXING VALVE	**P0001920**

INSTALLATION RECOMMENDATIONS



1 "Hot water" filter type BWT Celsius
2 BWT EC softener
3 Salt container

Prices on request. See general terms and conditions of sale.

Disinfection

Network disinfection is a key factor in ensuring the safety of your facilities. It uses physical processes (UV radiation, ultrasound), chemical processes (chlorine and its derivatives) or ultrafiltration. Disinfection is essential when undesirable micro-organisms are present in the water.

ADVICE FROM OUR EXPERTS

The pH of water, an essential parameter

- The pH of water can have an impact on the effectiveness of the disinfectants used.
- An accurate measurement will help you choose the right disinfection process.
- Chlorine, for example, is not recommended for a pH below 5 or above 8.

What doses of disinfectant should I use?

- Control analysis devices constantly monitor water quality to ensure that chemicals are dosed accurately and appropriately.




	BWT BEWADES UV N/EU/HI	BWT BIOX	BWT ECOBOX ECS	BWT ECO-MX
APPLICATIONS	Water disinfection using low-pressure UV-C radiation	Production of a stable chlorine dioxide solution for disinfecting water for human consumption	Analysis and control of chlorine levels in DHW loops	Water disinfection by salt electrolysis
DESCRIPTION	Low-pressure UV generator with stainless steel irradiation chamber and monitoring electronic cabinet	In-situ production of a stable chlorine dioxide solution from a mixture of precursor products.	Complete board incorporating an analyser-regulator, a measurement chamber with hot water chlorine sensor and a feed pump for the measurement circuit	In-situ production of a fresh disinfectant solution using water, salt and electricity.
PRODUCT BENEFITS	Easy to install and robust	Safe mixing of products using a peristaltic pump	Ready-to-install wall panel	High disinfectant power
	Effective water disinfection: destroys germs, bacteria, viruses, fungi and spores without adding chemicals or altering the taste of the water	Batch control of low ClO_2 concentrations	Resistance at 70 °C	Not classified for health and the environment
	Easy maintenance	Can be installed on the general cold water supply or on the DHW cold water supply	Amperometric regulation of active chlorine content	Immediate production on request
		Effective on biofilm	Measurement of active chlorine content without discharging water into the drain	No more handling or storing chemicals
		Simplified maintenance		Complies with section 2921
		Compact generator and production system casing		
		Active over a wide pH range		
		Safe mixing of products via a peristatic pump		
	p.84	p.86	p.88	p.90

*at WH 0 °F





	BWT ECO-UV	BWT ECOREDOX	BWT PROBOX 2	BWT MULTICONTROL	BWT PROBOX ANALYSIS
	Water disinfection using UV-C radiation and hydrogen peroxide	Analysis and control of redox potential (oxidant such as chlorine) in DHW loops	Multi-parameter analysis and control	Multi-parameter analysis and control	On-line colorimetric analysis of hardness and/or chlorine levels
	UV-C lamp and hydrogen peroxide injection	Redox potential measurement and regulation unit with in-line stainless steel probe	Multi-parameter analyser-regulator unit (Choice of: pH/chlorine/chlorine dioxide/temperature)	Multi-parameter analyser-regulator unit (choice of pH/temperature/conductivity)	Colorimetric analysis box. Your choice includes: WH/WH + chlorine/chlorine only
	High disinfectant power	Easy to assemble	Modular device (choice of settings to be analysed)	Modular device (several settings can be analysed)	Stand-alone device
	No impact on emissions	Resistance at 130 °C	Precise amperometric measurements	Easy to install	Reliable results
	Simple, modular installation, directly in the sink to be treated				
	Low maintenance				
	Complies with section 2921				
	p.92	p.94	p.95	p.96	p.97

BWT Bewades UV N/EU/HI /UV Ecosoft

Protect

UV treatment of cold or hot water

Flow rate: 4.3 to 182 m³/h

TECHNICAL BENEFITS

- **Easy** to install and robust.
- **Effective water disinfection:** destroys germs, bacteria, viruses, fungi and spores without adding chemicals or altering the taste of the water.
- **Easy maintenance**.

Operation

BWT Bewades UV is a water disinfection system using UV radiation. The process is effective and simple, with no chemicals and low maintenance costs. It is highly effective on perfectly clear water and does not alter the flavour or chemical composition of the treated water. The water flowing through BWT Bewades UV is subjected to the lamp's powerful ultra-violet radiation (UV-C, wavelength 254 nanometres), which destroys the DNA of micro-organisms present in the water in a matter of seconds.

Applications

BWT Bewades UV is recommended for:

- treating borehole water or rainwater for collective applications,
- drinking water production,
- supplying air conditioning circuits and humidifiers,
- supplying the general cold water and domestic hot water circuits,
- process water in the food and cosmetics industries, etc.

Standard equipment

BWT Bewades UV includes:

- a stainless steel irradiation chamber,
- a low-pressure UV-C system, 37 W or 39 W lamp depending on the model, providing approximately 9,000 hours of service (1 year),
- a control panel with ballast, starter, alarm, LED indicator and hour meter,
- an audible alarm system for UV lamp replacement or malfunction.

	BWT BEWADES 200W200 /17N	BWT BEWADES 390W130 /27N	BWT BEWADES 600W200 /22N	BWT BEWADES 810W270 /40N	BWT BEWADES 80W80 /11EU	BWT BEWADES 100W100 /11EU	BWT BEWADES 240W80 /22EU	BWT BEWADES 320W80 /35EU	BWT BEWADES 400W200 /17HI
Maximum flow rate	16.7 m³/h	47.8 m³/h	60 m³/h	182 m³/h	4.3 m³/h	6.8 m³/h	22 m³/h	46 m³/h	38 m³/h
Input/output connection	DN 2"	DN 80	DN 80	DN 150	DN 1"¼	DN 2"	DN 80	DN 100	DN 80
Max pressure	10 bar	10 bar	10 bar	10 bar	10 bar	10 bar	10 bar	10 bar	10 bar
Number of lamps	1	3	3	3	1	1	3	4	2
Lamp wattage	200 W	130 W	200 W	270 W	80 W	100 W	80 W	80 W	200 W
Min/max water temperature	5 to 65 °C	5 to 65 °C	5 to 65 °C	5 to 65 °C	5 to 30 °C	5 to 30 °C	5 to 30 °C	5 to 30 °C	5 to 65 °C
UV for drinking water Biodosimetry test	yes	yes	yes	yes	no	no	no	no	no
UV with sanitary compliance certification	yes	yes	yes	yes	yes	yes	yes	yes	yes
Dimensions (L × H × D)	310 × 1,130 × 280 mm	320 × 1,105 × 320 mm	359 × 1,354 × 359 mm	560 × 1,280 × 470 mm	128 × 1,013 × 114 mm	128 × 1,310 × 114 mm	420 × 1,165 × 219 mm	560 × 1,280 × 470 mm	825 × 1,280 × 470 mm
ITEM CODE	**P0002225**	**P0002226**	**P0002224**	**P0002227**	**P0002205**	**P0002208**	**P0002206**	**P0002207**	**P0002209**

UV ECOSOFT FOR THE FRANCE RANGE	UV E-480	UV E-720	UV ET-24	UV EB-45
Maximum flow rate	1.8 m³/h	2.7 m³/h	5.5 m³/h	10 m³/h
Input/output connection	DN 25	DN 25	DN40	DN 50
ITEM CODE	**P0002225**	**P0002226**	**P0002224**	**P0002227**

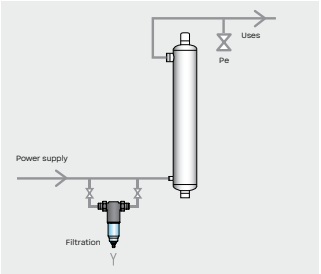
Operating limits

for the water to be treated must comply with the following criteria:

- watertransmission: 75% or more,
- 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 (WH 12 °F), pre-treat the raw waterof the raw water by filtration and softening to prevent scale deposits or impurities.

INSTALLATION RECOMMENDATIONS



Prices on request. See general terms and conditions of sale.

BWT Ecobox ECS

Protect

Chlorine regulator analyser

Measuring range: 0 to 10 ppm

TECHNICAL BENEFITS

- Ready-to-attach **wall panel**.
- **Resistance** at 70°C.
- **Extensive measuring range:** 0 to 10 mg/L.
- **Amperometric regulation** of active chlorine content.
- **Measure the active chlorine content** without discharging water into the drain.

Operation

The BWT Ecobox DHW allows chlorine to be injected into the DHW loop in a controlled and precise manner, and the loop return value to be analysed. A timer is used to enter setpoints for programming periodic injections. The innovation of the Ecobox ECS lies in its analysis chamber and probe, which can withstand temperatures of up to 70°C. The amperometric probe provides a measurement range of between 0 and 10 ppm chlorine. This innovation prevents water from being discharged down the drain. The BWT Ecobox ECS can manage information from a second chlorine sensor installed in another ECS network.

Applications

BWT Ecobox ECS is a simple and effective solution for combating micro-organisms, including legionella. It is therefore ideal for use in health, leisure and hotel establishments, as well as in all service sector housing.

Standard equipment

Pre-assembled wall panel, ready to install on site, this includes:

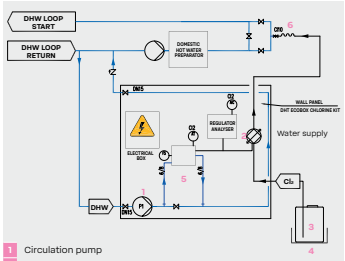
- an inspection chamber with a chlorine measurement electrode,
- a dedicated analyser/controller,
- a control panel for the entire installation,
- a water circulation sub-loop combined with a circulator pump to ensure a constant flow rate to the inspection chamber.

	BWT ECOBOX ECS
I/O connection	DN 20
Min/max pressure	1 to 6 bar
Measurement range	0 to 10 ppm
Consumed power	30 W
Min/max water temperature	1 to 70 °C
Dimensions (W × H)	610 × 370 mm
ITEM CODE	**PK0012270**

Accessories & Consumables

Designation	ITEM CODE
JERRYCAN SPILL CONTAINMENT TRAY	**R0028075**
60 L/140 L REAGENT SPILL CONTAINMENT TRAY	**R0028011**
HOT WATER INJECTION ROD	**P0028241**
SPECIAL CHLORINE DDA PUMP	**P0906243**
SPECIAL CHLORINE DDA DOSING UNIT	**PK0027108C**
WALL PANEL WITHOUT CONTROLLER	**P0012272**

INSTALLATION RECOMMENDATIONS



1. Circulation pump
2. Chlorine dosing pump
3. Dosing tank
4. Containment
5. Measurement chamber
6. Injection point at loop output

Prices on request. See general terms and conditions of sale.

BWT ECO-UV

Improve Protect

Water disinfection using UV-C radiation and hydrogen peroxide for cooling systems and closed circuits

The number of lamps to be installed depends on the volume of the installation and the quality of the water.

The model of electrical cabinet will depend on the number of lamps selected.

TECHNICAL BENEFITS

- **Excellent disinfectant power**.
- **Does not chemically alter** water quality.
- **Meets the requirements** for waste and biocides.
- **Simple, modular installation**, directly in the sink to be treated.
- **Easy maintenance**.
- Easy lamp replacement with an **intuitive system**.
- **Low running costs**.
- **Low-dose continuous injection of** hydrogen peroxide.

Operation

Designed to replace the use of non-oxidising or halogenated oxidising biocides (chlorine, bromine), BWT ECO-UV combines the properties of UV-C lamps, which destroy the DNA of living cells, and activated hydrogen peroxide, which helps to control biofilm. The synergy between these two technologies ensures that the treatment remains effective throughout the circuit, thereby complying with regulations (BPR and Section 2921).
BWT ECO-UV water disinfection limits chemical risks and considerably reduces environmental impact by improving the quality of purge water discharged into the natural environment, since it does not generate any by-products.

Applications

Suitable for conventional applications, BWT ECO-UV is also used for more specific applications: reclaimed waste-water supply (process water in the food industry, rainwater, etc.), complex networks, intermittent operation.

Installation

The submerged lamp is attached and sealed to a stainless steel frame. The electronic box is installed on the outside of the installation so that the operation of the lamps can be monitored and controlled without any constraints.

Let's take a look at the lamp assembly

BWT ECO-UV+

In-situ generation of hydrogen peroxide!

Water. Electricity. Oxygen.
The generator only needs these 3 elements to generate the solution on site and continuously.

BWT ECO-UV+ is the safe, healthy and effective alternative to conventional disinfection, eliminating the additional costs of transport and the risks to employees during handling.

Prices on request. See general terms and conditions of sale.

BWT Multicontrol

Controller analyser

Multi-setting analysis

TECHNICAL BENEFITS
- » **Modular device** (several settings can be analysed).
- » **Easy to install**.

Operation

The BWT Multicontrol is a simple, intuitive controller with up to 6 inputs for analysing a wide range of physico-chemical settings with a wide range of probes: temperature, pH, potential redox, conductivity, etc. The outputs can be used to retrieve measured information or guide a dosing pump, for example. Additional probes, cables and fittings required.

Applications

Measuring water for a wide range of parameters means you can monitor and ensure water quality in public buildings, healthcare establishments, leisure facilities, hotels and all industrial processes. Also suitable for HVAC systems.

Standard equipment

The BWT Multicontrol is a wall-mounted analyser/controller supplied ready for use with:
- monitoring and transmission of multiple data on the physico-chemical and hydraulic settings of water,
- pH, conductivity, flow rate, redox potential,
- the possibility of adding 6 control functions,
- retrieving information from an SD card,
- a PID control,
- a 230 V AC power supply,
- a protective box,
- a display and control panel (L 181 mm × H 185 mm × D 172 mm),
- a base unit with power supply, 2 digital inputs, 2 analogue outputs, 2 digital outputs.

Enclosure only (additional mounting probes, cables and fittings required in the list below)	ITEM CODE
BWT PH MULTICONTROL	**P0077030**
BWT MULTICONTROL 1 × CONDUCTIVITY1 × CONDUCTIVITY	**P0077031**
BWT MULTICONTROL 2 × CONDUCTIVITY	**P0077032**
BWT 1 PH MULTICONTROL + 1 CONDUCTIVITY	**P0077033**

pH redox Conductivity accessories

Designation	ITEM CODE
SCREW-IN STAINLESS STEEL HOLDER FOR PH/ORP SENSOR	**P0079266**
PH SENSOR	**P0005071**
REDOX SENSOR	**P0005072**
PT 1,000 SENSOR	**P0005070**
SINGLE PH SENSOR HOUSING	**P0079265**
SENSOR HOUSING FOR PH + T° (IF REQUIRED)	**P0005073**
CONNECTION CABLE FOR REDOX OR PH SENSOR	**P0079358**
CONNECTION CABLE FOR PT 1000 SENSOR	**P0079359**
SENSOR + SENSOR HOUSING CONDUCTIVITY K = 0.01 (T° INCLUDED)	**P0060300**
SENSOR + SENSOR HOUSING CONDUCTIVITY K = 1 (T° INCLUDED)	**P0060301**

Connection accessories

Designation	ITEM CODE
PVC DN 20 UNION FOR PH OR ORP SENSOR	**P0079250**
PVC UNION DN 20 FOR COND. SENSOR	**P0079251**
PVC DN 25 UNION FOR PH OR ORP SENSOR	**P0079252**
PVC UNION DN 25 FOR COND. SENSOR	**P0079253**
PVC UNION DN 32 FOR PH/REDOX/COND. SENSOR	**P0079254**
PVC UNION DN 40 FOR PH/REDOX/COND. SENSOR	**P0079255**
PVC UNION DN 50 FOR PH/REDOX/COND. SENSOR	**P0079256**
DN 65 PVC PIPE SADDLE FOR SENSOR PH/REDOX/COND.	**P0048178**
DN 80 PVC PIPE SADDLE FOR SENSOR PH/REDOX/COND.	**P0048179**

Prices on request. See general terms and conditions of sale.

BWT Probox analysis

WH/Cl analyser

Water hardness titrator and photometer for chlorine

TECHNICAL BENEFITS
- » **Stand-alone device**.
- » **Reliability of results**.

Operation

The BWT Probox Analysis is a simple, accurate analyser with on-line titration for water hardness and colorimetry for chlorine. It displays the measured value and triggers an alarm if it is exceeded (recorded value). The system can be programmed to shut down by sending a signal via a 4-20 mA output (optional card).

Applications

Measuring water for a wide range of parameters makes it possible to monitor and ensure water quality in public buildings, healthcare establishments, leisure facilities, hotels and all industrial processes.

Standard equipment

The BWT Probox Analysis is wall-mounted and comes with:
- power supply: 230 V AC,
- power consumption: 30 VA max,
- potential-free relay output for thresholds, alarms and maintenance,
- 0/4-20 mA analogue output on WH model,
- LCD screen and touch-sensitive keypad for displaying measurements, alarms and programming,
- drop-down menus to access test parameters and device configuration,
- dimensions: H 480 mm × L 380 mm × D 280 mm.

	BWT PROBOX ANALYSIS WH EVO	BWT PROBOX ANALYSIS WH/Cl	BWT PROBOX ANALYSIS FREE Cl
Completed analysis	Hardness	Hardness/Free chlorine/Active chlorine	Free chlorine
4-20 mA output	Included	Optional	Optional
ITEM CODE	**125626733**	**P0960187**	**P0960204**

Accessories & Consumables

Designation	ITEM CODE
PROXBOX ANALYSIS WH CONNECTION KIT	**P0080506**
4-20 MA CARD OPTION	**P0920161**
HARDNESS REAGENT 0.09 TO 0.89 °F 500 ML	**P0959132**
HARDNESS REAGENT 0.45 TO 4.48 °F 500 ML	**P0959133**
HARDNESS REAGENT 1.79 TO 17.79 °F 500 ML	**P0959134**
HARDNESS REAGENT 4.48 TO 44.80 °F 500 ML	**P0959759**
FREE CHLORINE REAGENT	**P0952044**
TOTAL CHLORINE REAGENT	**P0952042**
CALIBRATION KIT	**P0970868**

Prices on request. See general terms and conditions of sale.

Formulated Products

Water conditioning extends the life and reliability of equipment. It is based on the use of scaling or corrosion inhibitors, biocides or algaecides.

NEW!

Discover our products formulated using "Alternative Chemicals by BWT"!

This scientific approach aims to **revolutionise chemistry by integrating sustainably responsible practice** to transform water treatment into a virtuous process.

Its aim? To limit your impact on the environment!

Go to page 104

	BWT FILM105	BWT DW-3002	BWT SOLUTECH WASHING & SLUDGE REMOVAL	BWT SOLUTECH INTEGRAL PROTECTION	BWT ECO-42 090	BWT CP-4001	BWT CS-6210
TYPE OF CIRCUIT	Domestic hot water and continuous circulation looped distribution networks in galvanised steel	Domestic hot and cold water networks	Multi-metal heating and chilled water circuit			Heating and chilled water circuit (excluding aluminium)	Cooling circuit
TYPE OF TREATMENT							
Preventive	✓	✓		✓			
Curative		✓	✓		✓	✓	✓
Degradation corrector							
ACTIONS							
Biocide		✓					
Scale inhibitor	✓			✓			
Anti-corrosion	✓			✓			✓
Antifreeze							
Nettoyage et Désembouage (Cleaning and Sludge Removal)			✓		✓	✓	✓
	p. 108	p. 109	p. 110	p. 111	p. 112	p. 113	p. 128

	BWT CC-6302	BWT CC-1005	BWT CC-6301	BWT CC-1002 DA	BWT CC-1008 T	BWT CS-3010	BWT GLYCOL SANIT+	BWT GLYCOL N+	BWT GLYCOL BOOST	BWT GLYCOL BOOST AGRO	BWT SUPER HELIOS
TYPE OF CIRCUIT	Multi-metal heating and chilled water circuit	Heating and chilled water circuit				Cooling circuit	Closed anti-freeze water circuits				Solar arrays
TYPE OF TREATMENT											
Preventive	✓	✓	✓	✓	✓	✓	✓	✓			✓
Curative						✓					
Degradation corrector							✓	✓	✓	✓	
ACTIONS											
Biocide						✓					
Scale inhibitor		✓		✓	✓						
Anti-corrosion	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓
Antifreeze							✓	✓	✓	✓	✓
	p. 115	p. 119	p. 114	p. 117	p. 118	p. 120	p. 126	p. 124	p. 125	p. 127	p. 129

Imagine virtuous water treatment... with "Alternative chemicals by BWT"!

A genuine scientific approach, "alternative chemicals by BWT" aims to revolutionise chemistry by integrating sustainably responsible practice to transform water treatment into a more virtuous process.

The aim of this strong, ambitious and committed new approach is to reduce the impact of waste and your environmental impact with chemical products formulated according to a formulation chart using biodegradable, renewable, recycled or biosourced, non-toxic active ingredients.

Among our first innovations* dedicated to the treatment of industrial and collective cooling circuits, take a look at:

- **BWT ECO-80 010**
  Limescale, deposit and corrosion inhibitor. Phosphorus-free and with reduced nitrogen content!
- **BWT ECO-80 011**
  Limescale, deposit and corrosion inhibitor with integrated dispersing effect, bio-dispersant and tracer effect. Phosphorus-free and with reduced nitrogen content!
- **BWT ECO-81 040**
  Bio-dispersant biofilm development inhibitor. Phosphorus-free!
- **BWT ECO-84 020**
  Copper and alloy corrosion inhibitor. Phosphorus- and azole-free!

THESE PREVENTIVE TREATMENTS:

- **limit** limescale deposits,
- **reduce** the risk of corrosion,
- **prevent** biofilm deposits,
- **maintain** plant efficiency.

Focus on... BWT ECO-42 090

The new 99% biodegradable rapid cleaner and sludge remover for air HVAC systems!

99% BIODEGRADABLE

Product benefits

Fast,
it uses a concentrated formulation for speedy action:
- 10 L/m³ = flash 2 h
- 2.5 to 5 L/m³ = 24 h

Non-toxic:
- "readily biodegradable" formulation (OECD 301F),
- phosphorus-free,
- with biodegradable active ingredients,
- pH neutral.

Preserves
water resources by reducing post-circulation rinsing of the product and draining of the circuit (on new networks).

Effective
cold and hot, with or without pump for sludge removal.

Compatible
with all metals and other synthetic materials.

*The ECO file certifying the biodegradability of this product is available on request.

Dosing unit and film former

Product injection

Flow rate: 7 to 60 L/h

TECHNICAL BENEFITS

- **Dosing unit supplied complete and ready to connect.**
- **Precise, reliable electronic pump.**

Operation

The dosing unit allows you to treat your networks simply and reliably. It is delivered complete and ready to use. The spill containment tray, which is compulsory for all chemical storage, is sized for your dosing unit. The electronic dosing pump ensures precise dosing even at low flow rates. The PM60 model is available for high flow and high back pressure networks. Graduated dosing tank, dosing pump with digital display and intuitive programming: simplified monitoring and operation.

Applications

The dosing unit is designed to simplify the treatment of your collective networks. It is delivered complete and ready to connect. The choice depends on the size of the dosing pump.

Standard equipment

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

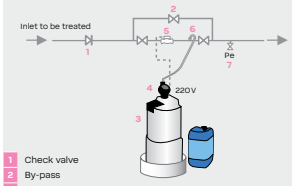
- the 120 L reagent tank (200 L for the METRIC 60 unit),
- the dosing pump,
- the injection accessories (suction strainer, suction and backflow tubing, injection rod, etc.),
- the cable for slaving to the transmitter meter,
- the spill containment tray.

	MEDO XG6	DDA 7 C (ACID/CHLORINE)	DDA 7 S (SODA)	METRIC 60
Dosing flow rate	0.7 to 7.1 L/h	7.5 L/h	7.5 L/h	0.075 to 60 L/h
Return back pressure	7 bar	16 bar	16 bar	10 bar
Injection rate	180 strokes/minute	190 strokes/minute	190 strokes/minute	120 strokes/minute
Volume per pulse	0.66 ml/cp	0.74 ml/cp	0.74 ml/cp	3.8 ml/cp
4-20 mA input	yes	yes	yes	yes
GTC information	yes	yes	yes	yes
ITEM CODE	**PK0027131**	**PK0027108C**	**PK0027108S**	**PK0002804A**

Accessories & Consumables

Designation	ITEM CODE
JERRYCAN SPILL CONTAINMENT TRAY	**R0028075**
60 L/120 L REAGENT SPILL CONTAINMENT TRAY	**R0028011**
CONTAINMENT PALLET, 2 DRUMS, 1,300 MM700 MM445 MM W: 22 KG - LOAD 800 KG	**P0973265**
IBC XL 1050 L CONTAINMENT	**ON REQUEST**
HOT WATER INJECTION ROD	**P0028032**
PE 4/6 TUBING	**C0690661**
PTFE 4/6 TUBING	**P0028212**
CLEANABLE INJECTION ROD	**C8023051**
PRESSURE LOADING VALVE	**P0959560**
DN 25 STATIC MIXER	**P0095796**
DN 32 STATIC MIXER	**P0095797**
DN 40 STATIC MIXER	**P0095798**
DN 50 STATIC MIXER	**P0095799**
DN 65 STATIC MIXER	**P0095800**
DN 80 STATIC MIXER	**P0095801**

INSTALLATION RECOMMENDATIONS



1. Check valve
2. By-pass
3. 120 L dosing tank
4. Dosing unit (here Medo)
5. Meter
6. Cold water injection pipe
7. Tapping point

Additional range: cold water meters

With dry contact pulse output for proportional dosing.

	DN 20	DN 25	DN 32	DN 40	DN 50	DN 50	DN 80
Connection diameter	¾" threaded	1" threaded	1"¼ threaded	1"½ threaded	2" threaded	2" flanges	3" flanges
Nominal flow rate	4 m³/h	6.3 m³/h	10 m³/h	16 m³/h	25 m³/h	40 m³/h	100 m³/h
K (L for 1 pulse)	1	1	5	1	1	50	50
Start-up threshold	50 L/h	78 L/h	125 L/h	200 L/h	312 L/h	450 L/h	1200 L/h
Dimensions (L × H × D)	130 × 105 × 85 mm	260 × 120 × 104 mm	260 × 120 × 104 mm	300 × 155 × 125 mm	300 × 155 × 125 mm	200 × 187 × 165 mm	225 × 219 × 200 mm
Weight	1 kg	3 kg	3 kg	6 kg	8 kg	11 kg	14 kg
ITEM CODE	**P0005342DH**	**P0005325DH**	**P0005329DH**	**P0005355DH**	**P0005358DH**	**125557688**	**125557689**

Caution: for high WH values or for installations where DHW production is looped onto the exchanger, softening remains the preferred solution.

Prices on request. See general terms and conditions of sale.

BWT RO-2004

Anti-limescale and anti-fouling agent for reverse osmosis units

Density at 20 °C: 1.182
pure pH: 2.7
pH (1%): 3.1
Appearance: amber

Packaging	ITEM CODE
25 KG CONTAINER	125559020
20 KG BAG-IN-BOX	125559021
250 KG DRUM	125559022
1,200 KG CONTAINER	125559023

TECHNICAL BENEFITS

- **Extremely easy to use** (dosing by metering pump).
- **Can eliminate the need for acid dosing and storage**, reducing operating costs, handling problems and environmental constraints (discharge and acid vapours).
- **Reduces the operating costs** associated with having to keep more than one product on site.
- **Reduces the need for** dosing equipment and minimises tank maintenance.
- **Its formulation is designed to limit the biological development that is common** with conventional sequestrants.
- **Reduces downtime** for system cleaning.
- **Reduces the cost of** cleaning chemicals.
- **ANSI/NSF Standard 60 certified**.

Storage of pure solution

Between - 5 and + 45°C.

Lifespan

- In pure solution: 2 years.
- In dilute solution: 2 weeks.

Specific iron clogging problems

Iron can cause two kinds of clogging problems: soluble and insoluble iron. Whatever form it takes, iron can cause encrustation problems. Using BWT RO-2004 prevents this malfunction.

Characteristics

Prevents membrane clogging by the most common deposits and can accept a very high level of Fe, Mn, Al and silica. (Fe = 1 ppm). Minimises the need to clean the system. BWT RO-2004 is a liquid product.

Operation

BWT RO-2004 is a high-performance, multifunctional sequestrant, active against clogging, which has been developed specifically for membrane systems.

Clogging in reverse osmosis leads to:
- reduced membrane lifespan,
- lower quality ultrafiltrate,
- increased power consumption,
- increased cleaning requirements.

BWT RO-2004 should be used as a pre-treatment for reverse osmosis units. It has been designed to guard against clogging problems encountered when using membranes, including clogging by the formation of insoluble inorganic salts, silica and iron.

BWT RO-2004 Dosage

BWT RO-2004 is used for continuous treatment from 2 to 25 ml/m³. The BWT RO-2004 dosage depends directly on the water analysis and the operating conditions of the installation. BWT can help you determine the optimum dosage. BWT RO-2004 is used pure or in dilute solution. The storage bin must be kept closed and cleaned each time it is filled. For dosage, refer to the BWT Osmowell calculator.

Prices on request. See general terms and conditions of sale.

BWT RO-2005

Anti-limescale and anti-fouling agent for reverse osmosis units

Density at 20 °C: 1.33 ± 0.02
pure pH: 11.0 ± 0.5
1% pH: 10.8 ± 0.5
Freezing point: -15°C
Appearance: slightly yellow liquid

Packaging	ITEM CODE
25 KG CONTAINER	125559024
20 KG BAG-IN-BOX	125559025
250 KG DRUM	125559026
1,250 KG CONTAINER	125559027

TECHNICAL BENEFITS

- **Extremely easy to use** (dosing by metering pump).
- **Can eliminate the need for acid dosing and storage**, reducing operating costs, handling problems and environmental constraints (discharge and acid vapours).
- **Reduces the operating costs** associated with having to keep more than one product on site.
- **Reduces the need for** dosing equipment and minimises tank maintenance.
- **Its formulation is designed to limit the biological development that is common** with conventional sequestrants.
- **Reduces downtime** for system cleaning.
- **Reduces the cost of** cleaning chemicals.
- **ANSI/NSF Standard 60 certified**.

Storage of pure solution

Max. 35 °C.

Lifespan

- Pure product in original sealed packaging: 2 years.
- Pure product in the storage tank: 2 months.
- Diluted product (max. 10-12 times): 1 months.

Performance

BWT RO-2005 is particularly effective against scaling caused by: calcium carbonate, calcium sulphate, barium sulphate, strontium sulphate, calcium fluoride, silica and iron. It can be used on a wide variety of water qualities.

Characteristics

Prevents clogging of membranes by the most common deposits. Minimises the need to clean the system. Excellent dispersion of iron and silica. BWT RO-2005 is a liquid product.

Operation

BWT RO-2005 is a high-performance, multifunctional sequestrant, active against clogging, which has been developed specifically for membrane systems that have a cellulose or polyamide base.

Clogging in reverse osmosis leads to:
- reduced membrane lifespan,
- lower quality ultrafiltrate,
- increased power consumption,
- increased cleaning requirements.

BWT RO-2005 should be used as a pre-treatment for reverse osmosis units. It has been designed to prevent the problems of clogging encountered when using membranes.

BWT RO-2005 Dosage

BWT RO-2005 is used for continuous treatment from 2 to 5 ml/m³. The BWT RO-2005 dosage depends directly on the water analysis and the operating conditions of the installation. BWT can help you determine the optimum dosage. It is preferable to dose pure BWT RO-2005 to avoid any risk of polluting the reagent with other substances. However, BWT RO-2005 can be diluted with permeate, so the solution will have to be made up regularly. The storage tank must be kept closed and cleaned each time it is used and every time it is filled. For dosage, refer to the BWT calculator Osmowell.

Prices on request. See general terms and conditions of sale.

Osmosis

Reverse osmosis technology transforms drinking water into pure water thanks to a natural phenomenon. It meets the most stringent technical requirements and ensures antibacterial safety. Reverse osmosis is ideally suited to supplying the most sophisticated equipment (atomisers, air conditioners, sterilisers, etc.).

DID YOU KNOW?

The operation and use of steam sterilisers (autoclaves) are governed by a European standard: **NF EN 285**.

As far as water treatment is concerned, Annex B of this standard defines very clearly the quality of the water used to feed these sterilisers. One point in particular requires the use of a suitable treatment solution: the conductivity (at 20°C) of the water must be less than or equal to 5µS/cm. Our BWT PERMAQ PICO FT range (p. 134) is specially designed to achieve this water quality by using a double osmosis system (two osmosis units in series).

	BWT ROC ULTRA	BWT PERMAQ COMPACT	BWT PERMAQ PICO FT	BWT PERMAQ MO 4"	BWT PERMAQ DELTA
					
APPLICATIONS	Production of purified water to supply small machines or lab tables	Production of a stable chlorine dioxide solution for disinfecting water for human consumption	Production of osmosis water for use in: medical - health/industry/laboratories	Production of osmosis water for use in: HVAC systems/washing units/medical - healthcare/industry	Production of osmosis water for use in: medical/ healthcare/ public building and industrial applications
DESCRIPTION	Complete Plug & Play kit including a reverse osmosis unit and a demineralisation cartridge. The equipment can be combined with a Best Care S ultrafiltration cartridge (not included).	Compact osmosis plant with integrated storage tank and distribution pump	Compact osmosis unit that can operate on-line, off-line and in double osmosis for improved water quality (< 5 µS/cm)	Compact skid-mounted osmosis unit	Off-line osmosis unit. Double osmosis range available for improved water quality.
PRODUCT BENEFITS	Easy to install under a worktop	Plug & Play solution: quick start	Quick and easy to install	Quick and easy to install	Quick and easy to install
	Optimised water quality	High-quality BWT membrane: unrivalled performance (salt retention rate > 99%)	Wide range of osmosis water production systems	Integrated level float	Wide range of osmosis water production systems
	Easy maintenance with disposable cartridges		Reduced footprint	Control panel with conductivity meter	Interval rinsing to optimise hygiene
	Smartphone application for monitoring water quality at the osmosis unit outlet		Interval rinsing to optimise hygiene		The permeate yield can be optimised
			Permeate yield greater than 80% (in softened water)		Easy maintenance thanks to skid layout
			Off and on-line operation		
			Flowmeter on raw water and permeate		
	p. 146	p. 132	p. 134	p. 136	p. 138

	BWT PERMAQ MODULO SK	BWT PERMAQ MO 8	BWT PERMAQ SIGMA	BWT LMI	BWT CONTROL	STORAGE TANK
						
APPLICATIONS	Production of osmosis water for HVAC circuits, industrial processes, washing, spraying, autoclaves, printing, laboratories, etc.	Production of osmosis water for public buildings and industry	Production of osmosis water for use in: medical/ healthcare/ public building and industrial applications	Production of demineralised water with very low conductivity (< 0.1 µS/cm)	On-line conductivity/ resistivity analysis	Treated water storage
DESCRIPTION	Ultra-compact osmosis water production skid that can operate on-line/ off-line for improved water quality	Compact osmosis unit on skid	Off-line osmosis unit. Double osmosis design available for improved water quality.	Composite bottles filled with a blend of regenerable anionic and cationic resins	On-line conductivity/ resistivity analyser with or without temperature compensation	Fully equipped HDPE storage tank with flat or conical bottom for total emptying
PRODUCT BENEFITS	Compact and quick to install	Quick and easy to install	Quick and easy to install	Exchange and delivery throughout France	Easy to install	Opaque tank limits bacterial growth
	Modularity: on-line or off-line operation	Compact skid integrated sediment pre-filter	Wide range of osmosis water production systems	Quick and easy to install	Simple, accurate reading	Easy-to-clean tank
	Safety: interval rinsing optimises process hygiene	Control panel with conductivity meter	Interval rinsing to optimise hygiene	Reduced footprint		
		Plug and play CIP station	The permeate yield can be optimised	Flexibility of use		
			Easy maintenance thanks to skid layout			
			Can be connected to the Bluwell system			
	p. 140	p. 142	p. 144	p. 147	p. 148	p. 149

*at WH O °F

BWT Permaq Compact

Compact osmosis unit

Flow rate: **400 L/h**
Storage: **integrated**

TECHNICAL BENEFITS

» **Plug & play solution**: quick start-up.
» **High-quality BWT membrane**: incomparable performance (salt retention level > 99%).

Operation

The BWT Permaq Compact osmosis unit transforms drinking water into pure water that meets the most stringent technical requirements. The osmosis unit has a high-pressure pump that pushes the water through a membrane, eliminating the undesirable elements contained in the water and allowing the permeate obtained to be used for a variety of applications. Permeate yield is greater than 80% (in softened water). The BWT Permaq Compact osmosis unit is a compact osmosis water production unit.

Applications

The BWT Permaq Compact osmosis unit is designed for applications requiring demineralised water quality: air conditioning, industrial processes, washing, spraying, autoclaves, printing, laboratories, etc.

Standard equipment

The Permaq Compact comes complete with:

- an integral casing to protect the osmosis unit components from impact and dust,
- internal connections and controls,
- an integrated operating display,
- a conductivity probe: feed water/integrated permeate,
- an integrated ultrafiltrate and concentrate flowmeter,
- an integrated manual by-pass,
- a permeate tank (37 or 34 L) with a 3 m³/h distribution pump.

	BWT PERMAQ COMPACT 62 LT
Permeate flow at 15 °C	400 L/h
Salt retention level	Sup 99%
Permeate conductivity	< 20 µS/cm
Permeate yield** (%)	40 à 80 %
Permeate tank volume	34 L
Raw water input connection	¾"
Concentrate outlet connection	12 mm
Permeate outlet connection	¾"
Min/max service pressure	3 to 6 bar
Max water temperature	25 °C
Dimensions (L × H × D)	350 × 736 × 560 mm
ITEM CODE	**P0004927A**

*Depends on the quality of the raw water.
**Automatic adjustment.

Accessories & consumables

Designation	ITEM CODE
FLOW INTERRUPTION CONNECTION	**125665885**
AQUAFLEX 38 ADDITIONAL TANK	**P0957464**
COMPLETE SYSTEM TO COMBINE TANK AND OSMOSIS UNIT SOLENOID VALVE/LEVEL CONTROL PANEL	**P0045557**
35 L STEEL BLADDER BALLOON	**P0956270**
50 L STEEL BLADDER BALLOON	**P0956271**
80 L STEEL BLADDER BALLOON	**P0956272**
140 L STEEL BLADDER BALLOON	**P0956273**
300 L STEEL BLADDER BALLOON	**P0956274**
LP 10 FILTER + DRAINAGE	**P0048320**
LP 20 FILTER + DRAINAGE	**P0048321**
BWT-PROPYL 10 MICRON 10"* CARTRIDGE	**P0098182N**
BWT-PROPYL 10 MICRON 20"* CARTRIDGE	**P0098222N**
BWT-PROPYL 1 MICRON 10"* CARTRIDGE	**P0098180N**
BWT-PROPYL 1 MICRON 20"* CARTRIDGE	**P0098220N**
BWT-CARBON 10"* CARTRIDGE	**P0093146**
BWT-CARBON 20"* CARTRIDGE	**P0093147**

*Order in packs of 6.

Prices on request. See general terms and conditions of sale.

BWT Permaq Pico FT

Protect

Compact osmosis unit

Flow rate: 210 to 2,100 L/h

TECHNICAL BENEFITS

- **Quick and easy to install**.
- **Wide range of** osmosis water production.
- **Reduced footprint**.
- **Interval rinsing to optimise hygiene**.
- **Permeate yield greater than 80%** (in softened water).
- **Off and on-line operation**.
- **Flowmeter on raw water and permeate**.

Operation

BWT Permaq Pico FT osmosis units are compact units for producing osmosis water. They transform drinking water into pure water that meets the most stringent technical requirements. The BWT Permaq Pico FT is ready for use on site with or without a tank, off or on-line. Double osmosis operation possible by combining an On-line model with an Off-line model (Conductivity < 5 µS/cm).

Applications

A wide range of applications require demineralised water quality: air conditioning, industrial processes, washing, spraying, autoclaves, printing, laboratories, etc.

Standard equipment

BWT Permaq Pico FT osmosis units are available in 14 different models.

Permaq Pico FT BWTs are supplied complete with:

- integral cowling to protect the osmosis unit's components from impact and dust,
- integrated display,
- integrated conductivity meter,
- high pressure pump,
- incorporates all the internal connections and controls,
- integrated absolute 10 µ filter.

	BWT PERMAQ PICO 20 FT ON-LINE	BWT PERMAQ PICO 40 FT ON-LINE	BWT PERMAQ PICO 50 FT ON-LINE	BWT PERMAQ PICO 60 FT ON-LINE	BWT PERMAQ PICO 70 FT ON-LINE
Permeate flow rate*	210 L/h	510 L/h	1,000 L/h	1,400 L/h	1,600 L/h
Salt retention rate**	98 %	98 %	98 %	98 %	98 %
Permeate yield** (%)	75 à 80 %	75 à 80 %	75 à 80 %	75 à 80 %	75 à 80 %
Number of membranes	1	1	2	3	3
Min/max service pressure	2.5/6.0 bar	2.5/6.0 bar	2.5/6.0 bar	2.5/6.0 bar	2.5/6.0 bar
Min/max water temperature	5 to 30 °C	5 to 30 °C	5 to 30 °C	5 to 30 °C	5 to 30 °C
Voltage	400 V three-phase	400 V three-phase	400 V three-phase	400 V three-phase	400 V three-phase
Power	0.85 kW	1.6 kW	2.3 kW	2.3 kW	3.1 kW
Dimensions (L × H × D)	400 × 840 × 510 mm	400 × 1,500 × 510 mm	400 × 1,500 × 670 mm	400 × 1,500 × 670 mm	400 × 1,500 × 670 mm
ITEM CODE	**125501730**	**125301830**	**125501806**	**125501807**	**125501808**

	BWT PERMAQ PICO 20 FT OFF-LINE	BWT PERMAQ PICO 40 FT OFF-LINE	BWT PERMAQ PICO 50 FT OFF-LINE	BWT PERMAQ PICO 60 FT OFF-LINE	BWT PERMAQ PICO 70 FT OFF-LINE
Permeate flow rate	300 L/h	650 L/h	1,250 L/h	1,800 L/h	2,100 L/h
Salt retention rate**	98 %	98 %	98 %	98 %	98 %
Permeate yield** (%)	75 à 80 %	75 à 80 %	75 à 80 %	75 à 80 %	75 à 80 %
Number of membranes	1	1	2	3	3
Min/max service pressure	2.5/6.0 bar	2.5/6.0 bar	2.5/6.0 bar	2.5/6.0 bar	2.5/6.0 bar
Min/max water temperature	5 to 30 °C	5 to 30 °C	5 to 30 °C	5 to 30 °C	5 to 30 °C
Voltage	400V three-phase	400V three-phase	400V three-phase	400V three-phase	400V three-phase
Power	0.85 kW	1.6 kW	2.3 kW	2.3 kW	3.1 kW
Dimensions (L × H × D)	400 × 840 × 510 mm	400 × 1,500 × 510 mm	400 × 1,500 × 670 mm	400 × 1,500 × 670 mm	400 × 1,500 × 670 mm
ITEM CODE	**125501792**	**P0854705**	**P0927854**	**125501794**	**125501795**

*AT an inlet pressure of 4 bar
**Raw water softened to WH 0 °F.

Accessories & consumables

Designation	ITEM CODE
FLOW INTERRUPTION CONNECTION	**125665885**
MULTIBLOCK CONNECTION (ON-LINE VERSION)	**P0004540**
35 L STEEL BLADDER BALLOON	**P0956270**
50 L STEEL BLADDER BALLOON	**P0956271**
80 L STEEL BLADDER BALLOON	**P0956272**
140 L STEEL BLADDER BALLOON	**P0956273**
300 L STEEL BLADDER BALLOON	**P0956274**
LP 10 FILTER + DRAINAGE	**P0048320**
LP 20 FILTER + DRAINAGE	**P0048321**
BWT-PROPYL 10 MICRON 10" CARTRIDGE*	**P0098182N**
BWT-PROPYL 10 MICRON 20" CARTRIDGE*	**P0098222N**
BWT-PROPYL 1 MICRON 10" CARTRIDGE*	**P0098180N**
BWT-PROPYL 1 MICRON 20" CARTRIDGE*	**P0098220N**
BWT-CARBON 10" CARTRIDGE *	**P0093146**
BWT-CARBON 20" CARTRIDGE *	**P0093147**
PICO DUO CONNECTION CABLE (10 TO 30)	**P0925904**
CABLE + PICO DUO TEE (40 TO 60)	**P0854658**
PICO DUO SELECTION CONTROL PANEL	**125625989**
CABLES FOR PICO DUO CONTROL PANEL	**125626001**
PVC ARRAY FOR PICO DUO	**125662087**

*Order in packs of 6.

Prices on request. See general terms and conditions of sale.

BWT Permaq MO 4"

Osmosis unit

Flow rate: 280 to 1,500 L/h

TECHNICAL BENEFITS
- » **Quick and easy to install.**
- » **Integrated level float.**
- » **Control panel with conductivity meter.**

Operation

BWT Permaq MO 4" osmosis units are skid-mounted osmosis water production units. They transform drinking water into pure water that meets the most stringent technical requirements. The BWT Permaq MO 4" is delivered ready for use on site.

Applications

A wide range of applications require demineralised water quality: air conditioning, industrial processes, washing, spraying, autoclaves, printing, laboratories, etc.
BWT Permaq MO 4" osmosis units are available in 4 different models.

Standard equipment

Permaq MO BWTs are supplied with the following equipment:
- skid,
- integrated 5 µ pre-filter,
- integrated display,
- integrated conductivity meter,
- 1 integrated level float,
- high pressure pump,
- incorporates all the internal connections and controls,
- Off-line and On-Line operation possible (additional pressure switch required).

	BWT PERMAQ MO 6500	BWT PERMAQ MO 12000	BWT PERMAQ MO 24000	BWT PERMAQ MO 36000
Permeate flow rate*	280 L/h	530 L/h	1,000 L/h	1,500 L/h
Salt retention rate**	95 %	95 %	95 %	95 %
Permeate yield**	50 à 75 %	50 à 75 %	50 à 75 %	50 à 75 %
Number of membranes	1	2	4	6
Min/max inlet pressure	2-4 bar	2-4 bar	2-4 bar	2-4 bar
Min/max water temperature	5 to 30 °C	5 to 30 °C	5 to 30 °C	5 to 30 °C
Voltage	230 V	230 V	230 V	230 V
Power	1 kW	1 kW	2 kW	2 kW
Dimensions (L × H × D)	540 × 1,450 × 405 mm	540 × 1,450 × 405 mm	700 × 450 × 610 mm	870 × 1,450 × 610 mm
Hydraulic connections	½"	½"	1"	1"
Dry weight	60 kg	70 kg	100 kg	120 kg
ITEM CODE	**P0090626**	**P0090627**	**P0090628**	**P0090647**

*At temperature = 25 °C, TDS = 1000 mg/l.
**Raw water softened to WH 0 °F.

Accessories & consumables

Designation	ITEM CODE
FLOW INTERRUPTION CONNECTION	**125665885**
TABLET	**125682802**
35 L STEEL BLADDER BALLOON	**P0956270**
50 L STEEL BLADDER BALLOON	**P0956271**
80 L STEEL BLADDER BALLOON	**P0956272**
140 L STEEL BLADDER BALLOON	**P0956273**
300 L STEEL BLADDER BALLOON	**P0956274**
LP 10 FILTER + DRAINAGE	**P0048320**
LP 20 FILTER + DRAINAGE	**P0048321**
BWT-PROPYL 10 MICRON 10" CARTRIDGE*	**P0098182N**
BWT-PROPYL 10 MICRON 20" CARTRIDGE*	**P0098222N**
BWT-PROPYL 1 MICRON 10" CARTRIDGE*	**P0098180N**
BWT-PROPYL 1 MICRON 20" CARTRIDGE*	**P0098220N**
BWT-CARBON 10" CARTRIDGE *	**P0093146**
BWT-CARBON 20" CARTRIDGE *	**P0093147**
5 µ - 10" BB CARTRIDGE FOR MO 6500 AND 1200	**P0955262**
5 µ - 20" BB CARTRIDGE FOR MO 24000 AND 36000	**P0955264**
XLE-4040 MEMBRANE	**125506070**
PERMAQ2R MEMBRANE - 4040	**P0097740**
ON-LINE CONTROL PRESSURE SWITCH 0-5 BAR	**P0912321**
CONTROL PANEL	**ON REQUEST**

Prices on request. See general terms and conditions of sale.

BWT Permaq Delta

Osmosis unit

Flow rate: 70 to 3,400 L/h

Non-contractual photo

TECHNICAL BENEFITS

- **Quick and easy to install.**
- **Wide range of** osmosis water production.
- **High-quality components.**
- **Numerous operating modes.**
- **Permeate** yield **greater than 75%.**

Operation

BWT Permaq Delta osmosis units are skid-mounted osmosis water production units. They transform drinking water into pure water that meets the most stringent technical requirements. The BWT Permaq Delta is delivered ready for use on site.

Applications

A wide range of applications require demineralised water quality: air conditioning, industrial processes, washing, spraying, autoclaves, printing, laboratories, etc.

BWT Permaq Delta osmosis units are available in 10 different models.

Standard equipment

Permaq Delta BWTs are delivered complete:

- full stainless steel skid 304 L,
- integrated display,
- integrated conductivity meter,
- high pressure pump,
- the design incorporates all internal connections and controls.

	BWT PERMAQ DELTA 10	BWT PERMAQ DELTA 20	BWT PERMAQ DELTA 30	BWT PERMAQ DELTA 40	BWT PERMAQ DELTA 50
Permeate flow rate	270 L/h	500 L/h	800 L/h	1,000 L/h	1,250 L/h
Salt retention level	98 %	98 %	98 %	98 %	98 %
Permeate yield*	75 à 80 %	75 à 80 %	75 à 80 %	75 à 80 %	75 à 80 %
Number of membranes	1	2	3	4	5
Min/max service pressure	2.5/6.0 bar	2.5/6.0 bar	2.5/6.0 bar	2.5/6.0 bar	2.5/6.0 bar
Min/max water temperature	5 to 30 °C	5 to 30 °C	5 to 30 °C	5 to 30 °C	5 to 30 °C
Electrical connection	400/50 V/Hz	400/50 V/Hz	400/50 V/Hz	400/50 V/Hz	400/50 V/Hz
Installed power	1.5 kW	1.5 kW	2.2 kW	2.2 kW	2.2 kW
Protection class (pump)	IP 55	IP 55	IP 55	IP 55	IP 55
Raw water/Permeate connection	DN 25/15	DN 25/15	DN 25/15	DN 25/15	DN 25/15
Discharge connection	DN 15	DN 15	DN 15	DN 15	DN 15
Weight (approx.)	90 kg	105 kg	120 kg	135 kg	150 kg
Dimensions (L × H × D)	970 × 1,800 × 690 mm	970 × 1,800 × 690 mm	970 × 1,800 × 690 mm	970 × 1,800 × 690 mm	970 × 1,800 × 690 mm

	BWT PERMAQ DELTA 60	BWT PERMAQ DELTA 80	BWT PERMAQ DELTA 100	BWT PERMAQ DELTA 120	BWT PERMAQ DELTA 140
Permeate flow rate	1,500 L/h	2,000 L/h	2,500 L/h	3,000 L/h	3,400 L/h
Salt retention level	98 %	98 %	98 %	98 %	98 %
Permeate yield*	75 à 80 %	75 à 80 %	75 à 80 %	75 à 80 %	75 à 80 %
Number of membranes	6	8	10	12	14
Min/max service pressure	2.5/6.0 bar	2.5/6.0 bar	2.5/6.0 bar	2.5/6.0 bar	2.5/6.0 bar
Min/max water temperature	5 to 30 °C	5 to 30 °C	5 to 30 °C	5 to 30 °C	5 to 30 °C
Electrical connection	400/50 V/Hz	400/50 V/Hz	400/50 V/Hz	400/50 V/Hz	400/50 V/Hz
Installed power	2.2 kW	4 kW	4 kW	4 kW	4 kW
Protection class (pump)	IP 55	IP 55	IP 55	IP 55	IP 55
Raw water/Permeate connection	DN 32/20	DN 32/20	DN 32/20	DN 32/25	DN 32/25
Discharge connection	DN 20	DN 20	DN 20	DN 25	DN 25
Weight (approx.)	200 kg	225 kg	250 kg	280 kg	310 kg
Dimensions (L × H × D)	2,400 × 1,854 × 500 mm	2,400 × 1,854 × 500 mm	2,400 × 1,854 × 500 mm	2,400 × 1,890 × 500 m,m	2,400 × 1,890 × 500 mm

*Raw water softened to WH 0 °F.
**OR: on request.

Prices on request. See general terms and conditions of sale.

BWT Permaq Modulo SK

Osmosis unit

Flow rate: 500 to 1,200 L/h

TECHNICAL BENEFITS

- **Compact and quick to install:** Its compact skid-mounted design, incorporating all the necessary pre-treatment equipment, enables MODULO SK to be easily integrated into your hydraulic installations and minimises process installation time.
- **Modularity:** Its design allows on-line or off-line operation via a storage tank, so it can be adapted to different types of process.
- **Safety:** interval rinsing optimises process hygiene.

Operation

BWT Permaq Modulo SK osmosis units are compact osmosis water production units ready for connection.

The skid incorporates all the pre-treatment equipment needed to produce water by reverse osmosis:

- integrated pre-filters,
- duplex automatic softeners,
- dechlorination filters,
- fine safety filtration,
- complete osmosis unit (high-pressure pump, conductivity meter, control units),
- control flowmeter and safety equipment (pressure gauges, pressure switches, valves, etc.).

They transform drinking water into pure water that meets the quality requirements of a wide range of industries: air conditioning, industrial processes, washing, spraying, autoclaves, printing and laboratories.

	BWT PERMAQ MODULO SK 500	BWT PERMAQ MODULO SK 800	BWT PERMAQ MODULO SK 1000	BWT PERMAQ MODULO SK 1 200
Permeate flow rate	500 L/h	800 L/h	1,000 L/h	1,200 L/h
Salt retention level	98 %	98 %	98 %	98 %
Permeate yield*	75 à 80 %	75 à 80 %	75 à 80 %	75 à 80 %
Number of membranes	2	3	3	5
Min/max service pressure	2.5/6.0 bar	2.5/6.0 bar	2.5/6.0 bar	2.5/6.0 bar
Min/max water temperature	5 to 30 °C	5 to 30 °C	5 to 30 °C	5 to 30 °C
Electrical connection	400 V/50 Hz	400 V/50 Hz	400 V/50 Hz	400 V/50 Hz
Installed power	1.1 kW	1.5 kW	1.5 kW	1.5 kW
Protection class	IP 54	IP 54	IP 54	IP 54
Raw water/Permeate connection	DN 25/15	DN 25/15	DN 25/15	DN 25/15
Drain connection	DN 50	DN 50	DN 50	DN 50
Weight (approx.)	180 kg	240 kg	280 kg	300 kg
Dimensions (L × H × D)	1,200 × 1,940 × 700 mm	1,200 × 1,940 × 700 mm	1,200 × 1,940 × 700 mm	1,200 ×1,940 × 700 mm
ITEM CODE (salt container and cartridges included)	**125681849**	**125681850**	**125681851**	**125681852**

*Raw water softened to WH 0 °F.
**OR: on request.

Accessories & consumables

Designation	ITEM CODE
BWT-PROPYL 10 MICRON 20" CARTRIDGE*	**P0098222N**
BWT-PROPYL 1 MICRON 20" CARTRIDGE*	**P0098220N**
BWT-CARBON 20"* CARTRIDGE	**P0093147**

*Order in packs of 6.

Prices on request. See general terms and conditions of sale.

BWT Permaq Sigma

Osmosis unit

Flow rate: 4 to 20 m³/h

TECHNICAL BENEFITS

- **Quick and easy to install.**
- **Wide range of osmosis water production systems.**
- **High-quality components.**
- **Numerous operating modes.**
- **Permeate yield greater than 75%.**

Operation

BWT Permaq Sigma osmosis units are skid-mounted osmosis water production units. They transform drinking water into pure water that meets the most stringent technical requirements. The BWT Permaq Sigma is delivered ready for use on site.

Applications

Many applications require demineralised water quality in a variety of fields: utilities and industrial processes, washing, spraying, autoclaves, printing, laboratories, etc.

Standard equipment

BWT Permaq Sigma osmosis units are available in 8 different models.

Permaq Sigma BWTs are supplied complete with:

- full stainless steel skid 304 L,
- integrated display,
- integrated conductivity meter,
- high-pressure pump,
- the design incorporates all internal connections and controls.

Sigma models with higher flow rates are available on request.

	BWT PERMAQ SIGMA 4	BWT PERMAQ SIGMA 5	BWT PERMAQ SIGMA 6	BWT PERMAQ SIGMA 8	BWT PERMAQ SIGMA 10	BWT PERMAQ SIGMA 12	BWT PERMAQ SIGMA 15	BWT PERMAQ SIGMA 20
Permeate flow rate	4 m³/h	5 m³/h	6 m³/h	8 m³/h	10 m³/h	12 m³/h	15 m³/h	20 m³/h
Salt retention level	> 99%	> 99%	> 99%	> 99%	> 99%	> 99%	> 99%	> 99%
Permeate yield*	75 %	75 %	75 %	75 %	75 %	75 %	75 %	75 %
Number of membranes	4	5	6	8	10	12	15	20
Min./max. service pressure	2.5/6.0 bar							
Min./max. water temperature	5 to 30 °C							
Electrical connection	400 V/50 hZ							
Installed power	6 kW	6 kW	11 kW	11 kW	11 kW	11 kW	16 kW	16 kW
Protection class (pump)	IP 55							
Raw water/Permeate connection	DN 40/32	DN 40/32	DN 50/40	DN 50/40	DN 50/40	DN 80/50	DN 80/65	DN 80/80
Qualitative discharge connection	DN 32	DN 32	DN 40	DN 40	DN 50	DN 50	DN 65	DN 80
Discharge connection	DN 15	DN 20	DN 20	DN 25	DN 32	DN 25	DN 40	DN 40
Weight (approx.)	380 kg	430 kg	490 kg	610 kg	700 kg	800 kg	960 kg	1240 kg
Dimensions (L × H × D)	4,700 × 1,900 × 750 mm	5,740 × 1,900 × 750 mm	3,685 × 1,900 × 750 mm	4,700 × 1,900 × 750 mm	5,740 × 1,900 × 750 mm	4,700 × 1,900 × 750 mm	5,740 × 1,900 × 750 mm	5,765 × 1,900 × 750 mm

Prices on request. See general terms and conditions of sale.

ASE Consultings × BWT — West Africa

High-Purity Water • Filtration • Service

About

ASE Consultings partners with BWT to design, deliver and support high-purity and industrial water systems across West Africa. We combine global technology with local execution — from pretreatment and RO/EDI to storage & distribution, monitoring and validation.

What we provide

- Pharma & biotech water (PW/WFI pretreatment, RO/EDI, UV, S&D)
- Industrial & commercial filtration (softening, carbon, particulate, Fe/Mn)
- Automation, monitoring and audit-ready documentation
- Commissioning, training, service plans and spare parts

"Clean water shouldn't be a bottleneck for West African pharma and industry — it should be their quiet advantage."

Dipl. Ing. Anthony Ejidike MSc. CEng. — Country Lead, West Africa

Dipl. Ing. Anthony Ejidike MSc. CEng.
Country Lead, West Africa

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