



CATALOGUE 2016



CLIMATIC SYSTEMS

- HEATING
- COOLING SYSTEMS
- CLOSED CIRCUITS

For You and Planet Blue.





3 catalogues, all the water treatment solutions

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

1. WATER FOR HUMAN CONSUMPTION

General cold water, domestic hot water, drinking water

2. HEATING AND CLIMATIC SYSTEMS

Heating water, Cooling systems and closed circuits

3. PROCESS WATER

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

EDITORIAL



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

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

We have **3,600 employees, of which 570 are in France, working to take our clients to the highest level of safety and hygiene in their daily relationships with water**. Whether at the service of people, institutions or industry, we use **innovating, economic and ecological solutions**. One of the essential aspects is the reduction of raw materials and energy, leading to the reduction of CO₂ emissions.

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

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

D. Boucly

Dominique Boucly
Managing Director

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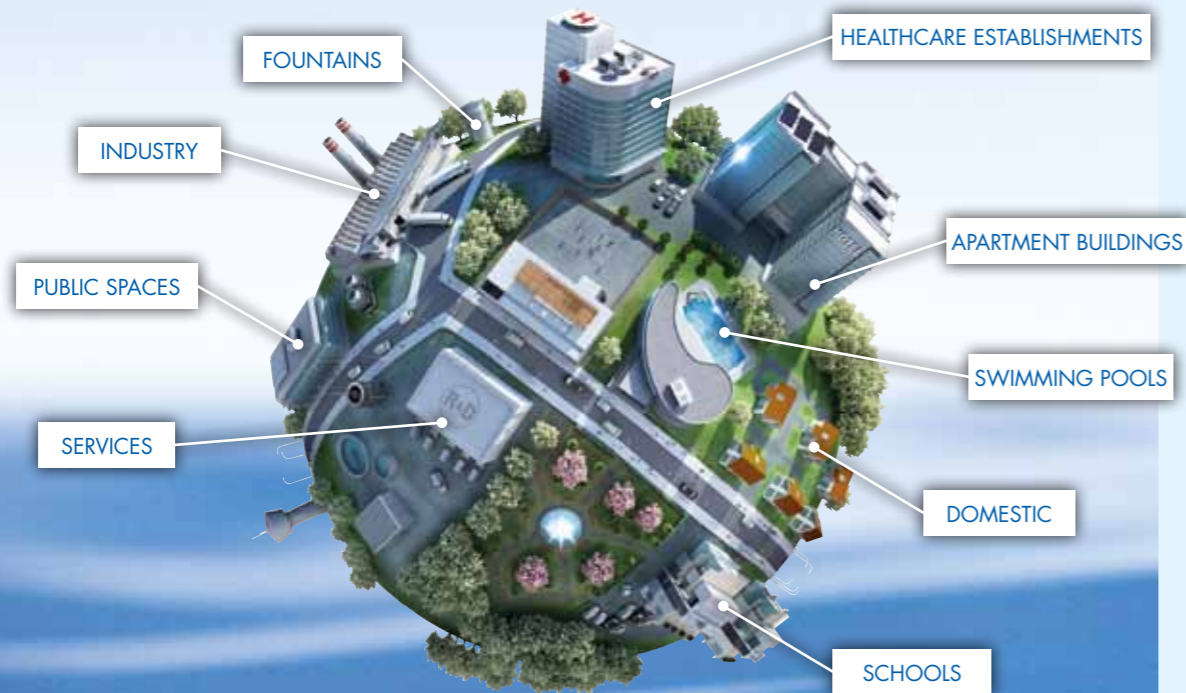
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SERVICES

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BWT, ALL THE WATER TREATMENT SOLUTIONS



THE STRENGTH OF A MANUFACTURER



HEADQUARTERS SAINT-DENIS (93)

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

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

→ A wide range of solutions



THE BWT GROUP

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

- 7 production sites
- 2,800 employees
- 500 M€ turnover
- 4% of turnover invested in R&D

BWT, CERTIFIED TRUST



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



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



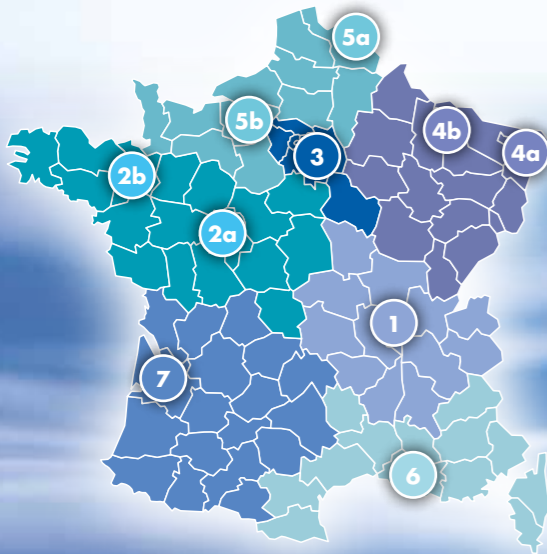
Our BWT residential softeners, manufactured on our Saint-Denis BWT production site are certified "Guaranteed French Origin". The guarantee that the products bearing the logo were made in France.



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

A LOCAL NETWORK

- 580 employees
- 7 Regional departments



YOUR REGIONAL CONTACTS

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BWT SERVICES AND TRAINING



→ PROFESSIONAL TRAINING

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

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

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

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

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

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

→ THE BWT INSTALLERS CLUB

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



- Sales assistance tools and goodies
- Special offers
- Gifts

Have a chat with your sales contact or check out the web site www.installateurs-bwtpermo.fr



→ THE BWT DECISION-MAKERS WEB SITE

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

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

Have a chat with your sales contact or check out the web site www.bwtprescription.fr



1

WHY RECOMMEND SoluTECH TREATMENTS?

To achieve ever lower energy consumption and optimise yields, technology has become more complex (exchanger reactivity, innovating materials, small diameters, etc.).

In this context, water quality has a major role in the operation of the installations.

Even if they are not visible, scale, sludge and corrosion cause damage in closed circuits.

SoluTECH is a complete line of products for the treatment of heating circuits, designed to maintain or re-establish performances and protect the circuits.



SoluTECH TREATMENTS

→ Treating the heating circuit water

guarantees the output of private or community heating installations. It also makes it possible to extend their service life.

For these reasons it is important to prevent the risk of damage to the circuit or to remedy it when already damaged.

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



ideal for individual housing



Ideal for community facilities

SoluTECH

Simply Pro.

For a long time...

Solutech & Forever

SoluTECH for commercial market is the only treatment process compatible with all metals including aluminium that has an ATEC issued by the CSTB.

- Formal proof: tested and approved effectiveness
- An official sign: the safety of your technical choices
- Real safety: insurance companies routinely impose the use of products for which an ATEC has been issued.



FOCUS ON

SoluTECH
COLLECTIF

A CERTIFIED PROCESS



The ATEC issued for the SoluTECH for commercial market process proves the effectiveness of its protection as a preventive measure or a curative measure for community heating circuits in all materials, and specifically those containing aluminium.

A marker for each step in the SoluTECH for commercial market process.



THE EQUIPMENT

Filter and clarifier unit

Either preventively or as a remedy, the physical action completes the chemical action of the injected products. They continuously purify the circuits by trapping solid particles and magnetisable oxides borne by the water.

PREVENTIVE AND CURATIVE TREATMENT

To simplify your operations, a single multi-function product per application.

SoluTECH WASHING AND SLUDGE REMOVAL

To wash new circuits before commissioning them, or to remove sludge from circuits to be refurbished or that have problems.

SoluTECH TOTAL PROTECTION

To protect heating circuits, change-over circuits or cooling systems circuits.

ANALYSIS MONITORING

The analysis department and BWT contracts define

- The frequency of the checks
- The operating technique
- The analysis parameters, to guarantee and prove the effectiveness of your operations over time

FOCUS ON

SoluTECH PACKS

THE TURNKEY ANSWER FOR HVAC WATER TREATMENT CONTRACTORS

→ The **respect** of best practices and the achievement of **installation performances** engage your responsibility.

To simplify sizing and protect hot, cold or change-over circuits in full compliance, the SoluTECH packs combine equipment:

- described by the rules of the trade and best practices
- required to prevent the build up of sludge, scale and corrosion
- compliant with the recommendations of thermal equipment manufacturers



* The equipment presented and used together is included in an ATEC issued by CSTBat for all metal heating services including aluminium

THE SOLUTECH PACK WAS SET UP AS AN ANSWER TO THE RULES OF THE TRADE

1 A SOFTENER

to fill the closed circuit with softened water and then top it up over time.

In compliance with water quality requirements (see CSTB Practical Guide on water quality inside buildings) and the recommendations made by the majority of manufacturers and design offices.

2 THE CURATIVE TREATMENT CHARGE

needed for washing before commissioning (for new installations) or for prior sludge removal (for refurbishments) defined by the rules of the trade.

3 THE PREVENTIVE TREATMENT CHARGE

multi-purpose corrosion protection compatible with all materials to stabilise and maintain the heat transporting fluid's quality over time and favour output.

4 A MAGNETIC CLARIFYING FILTER

that provides continuous by-passed circuit filtering.

Useful both as a prevention and a cure, this is long term safety for the generator, circulator and emitters, described by the rules of the trade and often imposed by manufacturer recommendations or equipment warranty terms and conditions.

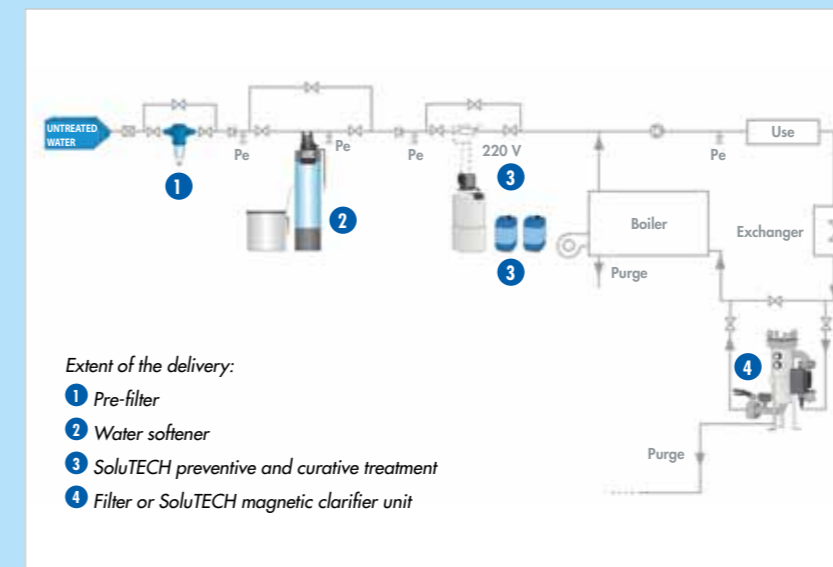
THE SoluTECH PACK, FOR EASY SIZING DEPENDING ON THE BOILER POWER

The power of the HVAC circuit to protect defines the suitable pack for your installation:

- The equipment (pre-filtering, softener and magnetic clarifier) is specifically sized
- The suitable treatment dose is included

NAME	SOFTENER AND PRE-FILTER See pages 24 - 25	TREATMENTS See pages 20 - 21	CLARIFIER FILTER See pages 28 to 31	ITEM CODE
CIRCUITS FROM 0 TO 450 KW				
SoluTECH PACK 0 - 450 kW	1 BWT 5010 SC softener and 1 Cristal WF 1" filter	1 jerrican of SoluTECH Washing and Sludge removal product and 1 jerrican of SoluTECH Total protection product	1 SoluTECH 5/9 Clarifier filter	BK0002520A
SoluTECH PACK 0 - 450 kW +	1 BWT 5010 SC softener and 1 Cristal WF 1" filter	1 jerrican of SoluTECH Washing and Sludge removal product and 1 jerrican of SoluTECH Total protection product	1 SoluTECH XS Clarifier unit	BK0002520B
CIRCUITS FROM 450 TO 900 KW				
SoluTECH PACK 450 - 900 kW	1 BWT 5016 SC softener and 1 Cristal WF 1" filter	2 jerricans of SoluTECH Washing and Sludge removal product and 2 jerricans of SoluTECH Total protection product	1 SoluTECH 5/9 Clarifier filter	BK0002521A
SoluTECH PACK 450 - 900 kW +	1 BWT 5016 SC softener and 1 Cristal WF 1" filter	2 jerricans of SoluTECH Washing and Sludge removal product and 2 jerricans of SoluTECH Total protection product	1 SoluTECH XS Clarifier unit	BK0002521B
CIRCUITS FROM 900 TO 1350 KW				
SoluTECH PACK 900 - 1350 kW	1 BWT 5028 SC softener and 1 Cristal WF 1" filter	3 jerricans of SoluTECH Washing and Sludge removal product and 3 jerricans of SoluTECH Total protection product	1 SoluTECH 5/9 Clarifier filter	BK0002522A1
SoluTECH PACK 900 - 1350 kW +	1 BWT 5028 SC softener and 1 Cristal WF 1" filter	3 jerricans of SoluTECH Washing and Sludge removal product and 3 jerricans of SoluTECH Total protection product	1 SoluTECH 5/9 Clarifier unit	BK0002522B1
CIRCUITS FROM 1350 TO 1800 KW				
SoluTECH PACK 1350 - 1800 kW	1 BWT 5028 SC softener and 1 Cristal WF 1" filter	4 jerricans of SoluTECH Washing and Sludge removal product and 4 jerricans of SoluTECH Total protection product	1 SoluTECH 10/20 Clarifier filter	BK0002522A2
SoluTECH PACK 1350 - 1800 kW +	1 BWT 5028 SC softener and 1 Cristal WF 1" filter	4 jerricans of SoluTECH Washing and Sludge removal product and 4 jerricans of SoluTECH Total protection product	1 SoluTECH 10/20 Clarifier unit	BK0002522B2

INSTALLATION RECOMMENDATIONS



THE CERTIFIED SoluTECH FOR COMMERCIAL MARKET PROCESS



Technical Approval 19/13-128

SoluTECH for commercial market is the only treatment process compatible with all metals including aluminium that has an ATEC issued by the CSTB.

- Formal proof: tested and proven effectiveness
- An official mark: the safety of your technical choices
- Real safety: SoluTECH products have been authorised by the FRENCH Health Authorities for use as single exchange

SoluTECH PROTECTION

MULTI-ACTION PREVENTIVE TREATMENT FOR HIGH TEMPERATURE HEATING CIRCUITS



PRODUCT PLUSES

- **All-in-one preventive**
- **Product authorised** by French Health Authorities on heating installations used to produce domestic hot water using a single exchange

ACTION

Single and complete preventive product for:

- scale
- corrosion
- sludge

APPLICATIONS

Ideal for traditional central heating (80-60°C) to:

- protect new circuits (less than 6 months old)
- protect a circuit after it has been cleaned of sludge
- avoid the repetition of problems
- maintain energy performances

Suitable for circuits from 50 to 110°C.

CARE

The product remains effective over time: if there are no top ups to the circuit (or for top-ups < 10% of the total volume), no additional product is needed. If top ups are carried out, check the dose once per year using the SoluTECH CONTROL kit and add if the protection is no longer sufficient.



EFFECTIVENESS GUARANTEED 5 YEARS**

COMPATIBLE WITH ALL MATERIALS INCLUDING ALUMINIUM

→ All purpose preventive **treatment**

COMPLEMENTS AND ACCESSORIES

NAME	DESCRIPTION	Item code	Retail price ex. VAT***
SoluTECH INJECTION	Connector for clean and practical pouring of the product into the installation	C0011717	18.30 €
SoluTECH CONTROL	SoluTECH content checking kit (preventive products)	C0011722	46.00 €
SoluTECH ANALYSIS	Complete water analyses: <ul style="list-style-type: none"> • postage paid kit • 14 control parameters • response time: 3 weeks 	C0007410	65.00 €
SoluTECH AIR AND SLUDGE EXTRACTION	4-in-1 Filter: sludge filter, magnetic trap for magnetisable sludge, degasser with quick air venting system, compartment for treatment products.	C0020911A	256.50 €

CONDITIONING	Item code	Retail price ex. VAT***
500 mL jerrican (sold per dozen)	C0007473A	45.00 € / Jerrican
10 L jerrican	C0007475	50.70 € / L



SoluTECH INJECTION



SoluTECH CONTROL



SoluTECH EXTRACTION

***Prices valid in Metropolitan France unless changed. See general sales terms and conditions
 * Or 1 500 mL jerrican for 100 L of circuit (or a dwelling of about 100 m²)
 ** When topping up less than 10% of the total circuit volume

SoluTECH UNDERFLOOR HEATING

MULTI-ACTION PREVENTIVE TREATMENT FOR LOW TEMPERATURE HEATING CIRCUITS



PRODUCT PLUSES

- **All-in-one preventive**
- Agent against **bacterial growth** included
- **Product authorised** by French Health Authorities on heating installations used to produce domestic hot water using a single exchange

ACTION

Single and complete product for:

- scale
- corrosion
- sludge
- organic deposits (algae and bacteria)

APPLICATIONS

Ideal for new energy and low temperature circuits (condensing boiler or heat pump) to:

- protect new circuits (less than 6 months old)
- protect a circuit after it has been cleaned of sludge
- avoid the repetition of problems
- maintain energy performances

Suitable for all temperatures up to 110°C.

CARE

The product remains effective over time: if there are no top ups to the circuit (or for top-ups < 10% of the total volume), no additional product is needed. If top ups are carried out, check the dose once per year using the SoluTECH CONTROL kit and add if the protection is no longer sufficient.



EFFECTIVENESS GUARANTEED 5 YEARS**

COMPATIBLE WITH ALL MATERIALS INCLUDING ALUMINIUM

→ All purpose preventive **treatment**

COMPLEMENTS AND ACCESSORIES

NAME	DESCRIPTION	Item code	Retail price ex. VAT***
SoluTECH INJECTION	Connector for clean and practical pouring of the product into the installation	C0011717	18.30 €
SoluTECH CONTROL	SoluTECH content checking kit (preventive products)	C0011722	46.00 €
SoluTECH ANALYSIS	Complete water analyses: <ul style="list-style-type: none"> • postage paid kit • 14 control parameters • response time: 3 weeks 	C0007410	65.00 €
SoluTECH AIR AND SLUDGE EXTRACTION	4-in-1 Filter: sludge filter, magnetic trap for magnetisable sludge, degasser with quick air venting system, compartment for treatment products.	C0020911A	256.50 €

CONDITIONING	Item code	Retail price ex. VAT***
500 mL jerrican sold per dozen	C0007470A	48.00 € / Jerrican
10 L jerrican	C0007468	54.80 € / L



SoluTECH INJECTION



SoluTECH CONTROL



SoluTECH EXTRACTION

***Prices valid in Metropolitan France unless changed. See general sales terms and conditions
 * Or 1 500 mL jerrican for 100 L of circuit (or a dwelling of about 100 m²)
 ** When topping up less than 10% of the total circuit volume

SoluTECH DESLUDGING

MULTI-ACTION CURATIVE TREATMENT FOR HEATING CIRCUITS



NEW
ACTIVE ON DETERIORATED GLYCOLS



PRODUCT PLUSES

- **One step operation:** does not require the installation to be passivated**
- Blue tracer
- Without effluent neutralisation**
- **Product authorised** by French Health Authorities on heating installations used to produce domestic hot water using a single exchange

ACTION

Single and complete curative product to:

- wash and remove sludge (sludge, scale, oxides)
- disperse algae and bacterial deposits
- clean deteriorated glycols

APPLICATIONS

Ideal for all heating circuits for operations such as:

- rinsing before commissioning (new or refurbishment)
- boiler renovation or replacement: prevents sludge in the new equipment and maintains its yield and your energy savings
- sludge removal in cases of loss of exchange, circulation difficulties, noise...
- cleaning of glycol installations (solar panels, heat pump, heating containing anti-freeze, etc.)

Used with or without a sludge removal pump.

USE

A choice of 2 methods for 2 actions:

- slow sludge removal over 2 weeks with circulation: dosage 1 jerrican (500mL) for 1 dwelling (100 l)
- fast sludge removal using a sludge removal pump in 1 day: dosage 2 jerricans (1 l) for 1 dwelling (100L)

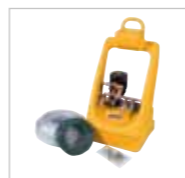
CONDITIONING	Item code	Retail price ex. VAT***
500 mL jerrican (sold per dozen)	C0007472A	41.00 € / Jerrican
10 L jerrican	C0007474	46.60 € / L



SoluTECH INJECTION



SoluTECH ANALYSIS



SoluTECH EASYFLOW

→ Curative treatment

COMPLEMENTS AND ACCESSORIES

NAME	DESCRIPTION	Item code	Retail price ex. VAT***
SoluTECH INJECTION	Connector for clean and practical pouring of the product into the installation	C0011717	18.30 €
SoluTECH ANALYSIS	Complete water analyses: • postage paid kit • 14 control parameters • response time: 3 weeks	C0007410	65.00 €
Total Prevention Pack	1 SoluTECH AIR AND SLUDGE EXTRACTION degassing sludge removal filter with a heat insulated magnetic trap + 1 jerrican of SoluTECH UNDERFLOOR HEATING	C0020923A	267.00 €
SoluTECH EASYFLOW by Grundfos	Mobile sludge removal and washing pump	C9000075A	1520.00 €

* Or 1 500 mL jerrican for 100 L of circuit (or a dwelling of about 100 m²)

** At the used dosages

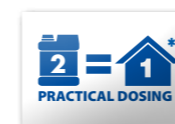
SoluTECH LEAK PREVENTER

CURATIVE LEAK TREATMENT FOR HEATING CIRCUITS



PRODUCT PLUSES

- Suitable for **circuits containing glycol** (anti-freeze treatments)
- **Compatible** with all SoluTECH treatments
- **Product authorised** by French Health Authorities on heating installations used to produce domestic hot water using a single exchange



ACTION

Emergency product that effectively and permanently seals:

- micro-leaks and seepage
- watertightness defects, including under screeds

APPLICATIONS

Ideal for repairing problem circuits (porous radiator, seepage, under-screed leak, pressure drops, etc.).

Suitable for all circuit temperatures up to 110°C.

CARE

The product remains effective over time: if there are no top ups to the circuit (or for top-ups < 10% of the total volume), no additional product is needed.

→ Curative treatment

COMPLEMENTS AND ACCESSORIES

NAME	DESCRIPTION	Item code	Retail price ex. VAT***
SoluTECH INJECTION	Connector for clean and practical pouring of the product into the installation	C0011717	18.30 €
SoluTECH ANALYSIS	Complete water analyses: • postage paid kit • 14 control parameters • response time: 3 weeks	C0007410	65.00 €
SoluTECH DESLUDGING 500 mL jerrican, sold per dozen	Multi-action curative treatment for problem heating circuits	C0007472A	41.00 € / Jerrican
10 L jerrican		C0007474	46.60 € / L

* Or 2 500 mL jerricans for 100 L of circuit (or a dwelling of about 100 m²)

** When topping up less than 10% of the total circuit volume

CONDITIONING	Item code	Retail price ex. VAT***
500 mL jerrican sold per dozen	C0007471A	47.00 € / Jerrican



SoluTECH INJECTION



SoluTECH ANALYSIS



SoluTECH DESLUDGING

SoluTECH ANALYSIS

SAMPLING AND ASSESSMENT KIT FOR DOMESTIC HEATING INSTALLATION WATER



→ 14 points to check

APPLICATIONS

Suitable for domestic installations, this kit is ideal for checking the quality of the heating water and the health of your equipment.

It is used as a diagnostic aid on problem installations, to validate curative operations, or to make sure protection is effective after preventive action.

USE THIS MULTI PURPOSE KIT:

- when commissioning or refurbishing (End of works report, checks on manufacturer recommendations)
- for the yearly boiler maintenance (circuit check)
- before works (state of the installation)
- to diagnose problem services (identify scale deposits, corrosion or sludge, aggressive water, absence of protective treatment, etc.).

PRODUCT PLUSES

- **14 checked items:** check-up of the parameters essential to the health of heating systems
- Commented results **within 3 weeks by email**, with **equipment recommendations and treatment advice** if necessary

OPERATION

Easy-to-use complete kit:

- 1 • take a sample of the top up water and the water in the heating circuit to be checked
- 2 • post the 2 bottles using the prepaid envelopes
- 3 • receive the results in 3 weeks with the commented values

COMPOSITION

- 2 labelled sampling bottles (1 tap water, 1 heating water)
- 1 sealed bag
- 1 form (your installation, your contact details)
- The instructions
- 1 prepaid envelope to send everything back to our laboratory
- Analysis results and report returned within 3 weeks

THE ANALYSES AND THE REPORT

The analyses are carried out by our central ISO 9001 approved laboratory in the Paris region:

- result values for 14 checked points which are essential parameters for your heating circuit health check
- report containing detailed explanatory comments
- proposed solutions (corrective action, equipment and/or treatment) if any problems are found

CONDITIONING	Item code	Retail price ex. VAT*
Sampling and assessment kit for domestic heating installation water	C0007410	65.00 €

SOLUTECH ACCESSORIES



SoluTECH INJECTION

CONNECTOR FOR TREATMENT INJECTION



Flexible connector used to inject SoluTECH treatments into heating installations (for example through the radiator purge).

- Easy and clean product injection
- Reusable
- Screws onto all SoluTECH line 500 mL jerricans

CONDITIONING	Item code	Retail price ex. VAT*
SoluTECH INJECTION	C0011717	18.30 €

SoluTECH CONTROL

KIT TO CHECK LEVELS OF PREVENTIVE TREATMENT



The test is used to check the level of preventive treatments in a treated installation. Suitable for products SoluTECH PROTECTION, SoluTECH UNDERFLOOR HEATING and SoluTECH TOTAL PROTECTION.

- Quick and easy test
- Immediate result: there is enough product or product needs to be added
- 1 kit = 10 tests

CONDITIONING	Item code	Retail price ex. VAT*
SoluTECH CONTROL (kit containing 10 tests)	C0011722	46.00 €

SoluTECH COMPATIBILITÉ³

NEW

COMPATIBILITY TEST USING 3 MANUFACTURER RECOMMENDATION PARAMETERS



Quick and easy test of 3 essential parameters covered in most manufacturer recommendations: stainless steel compatibility, aluminium compatibility and hardness.

Ideal test to check:

- when installing a boiler
- during an annual inspection
- if there are problems on installations that are under guarantee

The result of the 3 checks in only 2 minutes.

1 Kit = 30 analyses

CONDITIONING	Item code	Retail price ex. VAT*
SoluTECH COMPATIBILITÉ ³ (kit containing 30 tests)	C0011724	99.00 €

SoluTECH TOTAL PROTECTION

PREVENTIVE MULTI-ACTION TREATMENT FOR HVAC CIRCUITS



PRODUCT PLUSES

- **A single product** for all applications (hot and cold)
- **Antifouling agent** included
- **Product authorised** by French Health Authorities on heating installations used to produce domestic hot water using a single exchange

ACTION

Single and complete preventive product for:

- scale
- corrosion
- sludge
- organic deposits (algae and bacteria)

APPLICATIONS

Ideal for all HVAC circuits (heating and cooling systems) up to 110°C to:

- protect new circuits and equipment (less than 6 months old)
- protect a circuit after it has been cleaned of sludge
- avoid the repetition of problems
- maintain energy performances

CARE

The product remains effective over time: if there are no top ups to the circuit (or for top-ups < 10% of the total volume), no additional product is needed. If top ups are carried out, check the dose once per year using the SoluTECH CONTROL kit and add if the protection is no longer sufficient.

CONDITIONING	Item code	Retail price ex. VAT***
20 L jerrican	C0007461	30.00 € / L
200 L drum	C0007464	25.00 € / L



SoluTECH clarifier unit



SoluTECH CLEANING AND DESLUDGING

SoluTECH CLEANING AND DESLUDGING

CURATIVE MULTI-ACTION TREATMENT FOR HVAC CIRCUITS



PRODUCT PLUSES

- **One step operation:** does not require the installation to be passivated**
- **Blue tracer**
- **Without effluent neutralisation****
- **Product authorised** by French Health Authorities on heating installations used to produce domestic hot water using a single exchange

ACTION

Single and complete curative product to:

- wash and remove sludge (sludge, scale, oxides)
- disperse organic deposits (algae and bacteria)
- clean deteriorated glycols

APPLICATIONS

Ideal for all HVAC circuits (heating and cooling systems) up to 110°C for:

- washing operations before building delivery: end of work without any reserves on water quality
- boiler renovation or replacement: prevents sludge in the new equipment and maintains its yield and your energy savings
- sludge removal in cases of loss of exchange, sludge, circulation difficulties, noise...
- cleaning of glycol installations (solar panels, heat pump, heating containing anti-freeze, etc.)

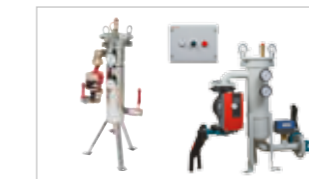
USE

A choice of 2 methods for 2 actions:

- slow sludge removal (over a maximum of 2 weeks): dosage 5 L/m³
- quick sludge removal or deteriorated glycols in 48h using a double dose: dosage 10 L/m³

Please contact us for more details: a suitable protocol can be defined depending on the specificities of your site.

CONDITIONING	Item code	Retail price ex. VAT***
20 L jerrican	C0007462	30.00 € / L
200 L drum	C0007465	25.00 € / L



SoluTECH clarifier unit



SoluTECH TOTAL PROTECTION



→ Curative treatment

COMPLEMENTS AND ACCESSORIES

NAME	DESCRIPTION	Item code	Retail price ex. VAT***
SoluTECH TOTAL PROTECTION	Preventive multi-action corrosion treatment for all HVAC circuits	C0007461 20 L jerrican C0007464 200 L drum	30.00 € / L 25.00 € / L
SOLUTECH 5/9 CLARIFIER UNIT		PK0003878	On request
SoluTECH 10/20 CLARIFIER UNIT	Complete, ready-to-connect magnetic sludge removal unit with built-in circulator. Available for other flow rates, models without circulators and for high pressure circuits: please contact us.	PK0003879	On request
SoluTECH COMPATIBILITÉ ³	Compatibility test for 3 manufacturer recommendation parameters	C0011724	99.00 €

* Our complete SoluTECH for commercial market treatment solution has an ATEC issued by CSTBat for all metal heating services including aluminium.

** At the used dosages

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

→ All purpose preventive treatment

COMPLEMENTS AND ACCESSORIES

NAME	DESCRIPTION	Item code	Retail price ex. VAT***
SoluTECH CLEANING AND DESLUDGING	Multi-action curative treatment for community heating and Cooling systems services	C0007462 20 L jerrican C0007465 200 L drum	30.00 € / L 25.00 € / L
SOLUTECH 5/9 CLARIFIER UNIT		PK0003878	On request
SoluTECH 10/20 CLARIFIER UNIT	Complete, ready-to-connect magnetic sludge removal unit with built-in circulator. Available for other flow rates, models without circulators and for high pressure circuits: please contact us.	PK0003879	On request
SoluTECH COMPATIBILITÉ ³	Compatibility test using 3 manufacturer recommendation parameters	C0011724	99.00 €

* Our complete SoluTECH for commercial market treatment solution has an ATEC issued by CSTBat for all metal heating services including aluminium.

** When topping up less than 10% of the total circuit volume

2

WHY RECOMMEND SoluTECH EQUIPMENT?

To achieve ever lower energy consumption and optimise yields, technology has become more complex (exchanger reactivity, innovating materials, small diameters, etc.).

In this context, water quality has a major role in the operation of the installations. Even if they are not visible, scale, sludge and corrosion cause damage in closed circuits.

SoluTECH has a complete range of equipment and accessories to simplify the use of treatments and extend action taken on services.



SoluTECH EQUIPMENT

→ Treating the HVAC circuit water

guarantees the output of private or community installations.

It also makes it possible to extend their service life. For these reasons it is important to prevent the risk of damage to the circuit or to remedy it when already damaged.

- BWT 5000 SC **24**
- SoluTECH AIR AND SLUDGE EXTRACTION **26**
- CLARIFIER FILTERS SoluTECH **28**
- CLARIFIER UNITS SoluTECH **30**
- SoluTECH CONDENSATE **32**
- SoluTECH EASYFLOW by Grundfos **34**
- SoluTECH DOMESTIC HOT WATER EXCHANGER **36**

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



ideal for individual housing



Ideal for community facilities

BWT 5000 SC

WATER SOFTENER



PRODUCT PLUSES

- **One piece softener** with a compact size
- **SIMPLY CONNECT:** fast, easy and economic connection

OPERATION

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

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

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

APPLICATIONS

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

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

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

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

STANDARD EQUIPMENT

Softener delivered complete fitted with:

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

→ **Flow rate:** 2 to 2.4 m³/h at TH 0 °f

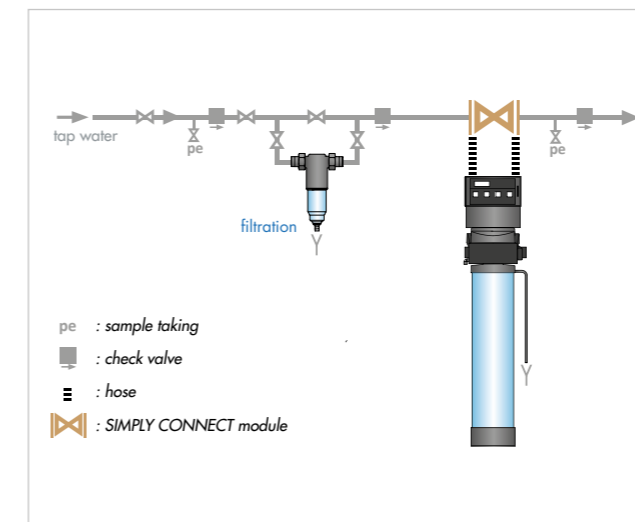
→ **Resin volume:** 10 to 28 L

TECHNICAL SPECIFICATIONS

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

*for raw water TH of 30 °f

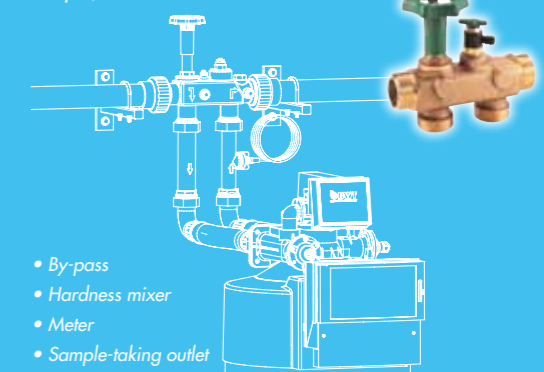
INSTALLATION RECOMMENDATIONS



FOCUS ON

SIMPLY CONNECT SOFTENERS

Simple, reliable and economic



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

ACCESSORIES AND CONSUMABLES

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

SoluTECH AIR AND SLUDGE EXTRACTION

DOMESTIC HEATING FILTERING



PRODUCT PLUSES

- **Solid:** bronze body
- **Directional connector:** mounting on horizontal or vertical pipes
- **Eases the injection** of SoluTECH treatment products

OPERATION

SoluTECH AIR AND SLUDGE EXTRACTION is a 4-in-1 filter:

- sludge filtering
- magnetic trap for magnetisable sludge
- degasser with quick air vent
- product compartment

APPLICATIONS

Installed on the heating circuit SoluTECH AIR AND SLUDGE EXTRACTION makes it possible to extend equipment and installation service life and to maintain yields over time.

Preventive treatment is recommended to avoid scale deposits, corrosion and bacterial growth.

STANDARD EQUIPMENT

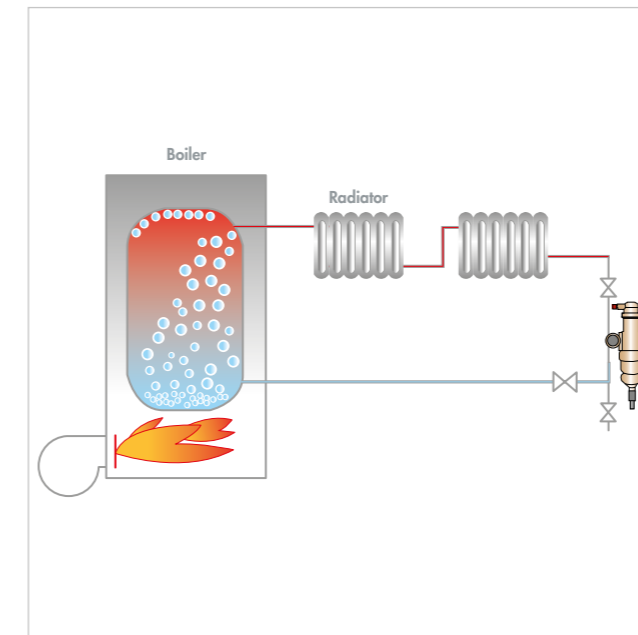
- Delivered with a directional connector
- Delivered with heat insulation to avoid heat loss
- Built-in quick purge

→ **Flow rate:** 3.6 m³/h

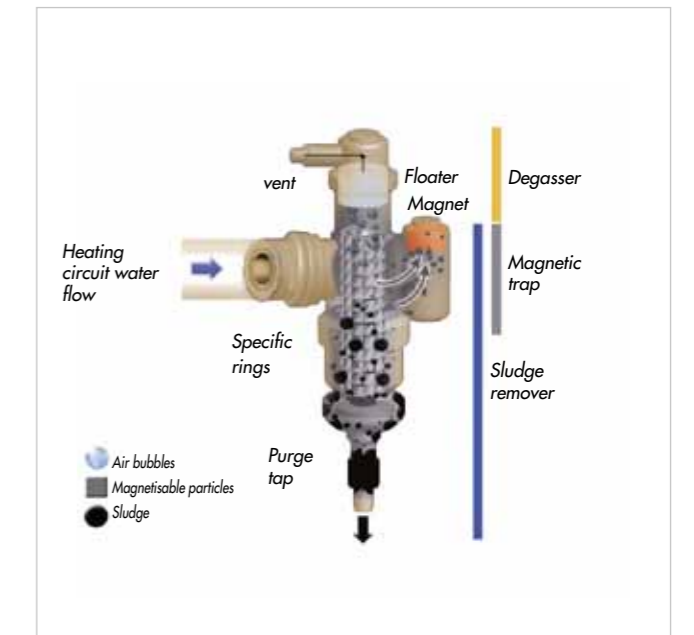
TECHNICAL SPECIFICATIONS

TYPE	SoluTECH AIR AND SLUDGE EXTRACTION		TOTAL PREVENTION PACK SoluTECH AIR AND SLUDGE EXTRACTION + SoluTECH UNDERFLOOR HEATING	
TECHNICAL SPECIFICATIONS				
Coupling diameter	DN		DN 25	
Rated flow	m ³ /h		3.6	
Max service pressure	bars		10	
Max water temperature	°C		90	
Head loss	bars		0.2	
Item code		C0020911A		C0020923A
Retail price ex. VAT*		256.50 €		267.00 €
SIZE SPECIFICATIONS				
Length with connector	mm		184	
Total height with heat insulation	mm		333	
Depth with heat insulation	mm		157	

INSTALLATION RECOMMENDATIONS



OPERATING PRINCIPLE



To allow treatment products to be injected, it is preferable to fit SoluTECH AIR AND SLUDGE EXTRACTION on vertical piping that can be drained.

Mounting at the start of the loop is also possible to favour the degassing effect or if there is no purge device on the circuit

Once mounted, fix the supplied heat insulation to avoid heat loss.

SoluTECH CLARIFIER FILTERS

HVAC SERVICE FILTERING



PRODUCT PLUSES

- **Stainless steel** or **painted steel** strong filter body
- **Simple and safe opening** using swing bolts

OPERATION

SoluTECH CLARIFIER FILTERS are designed to continuously eliminate the following from circuits:

- oxides and magnetisable particles using a powerful magnetic bar
- solid impurities, sludge and suspended matter using a felt filtering bag that traps particles bigger than 50 µm depending on the model (other filtering grades to order)

The wide range of SoluTECH CLARIFIER FILTERS can be used to treat any power of heating or cooling systems installation.

APPLICATIONS

Installed as a bypass on the circuit discharge (plan on between 15 and 30% of the circulating flow), preferably at the installation low point, the SoluTECH CLARIFIER FILTER is used:

- preventively: on new circuits with the injection of an all purpose corrosion product such as SoluTECH TOTAL PROTECTION
- curatively: for a sludge removal operation on an existing circuit, using a treatment such as SoluTECH CLEANING AND DESLUDGING

STANDARD EQUIPMENT

The SoluTECH CLARIFIER FILTER has the essential functions:

- 50 µm filter bag
- magnetic candle
- a cover with swing bolts for easy cleaning
- adjustable stand: adjustable height for easier connection

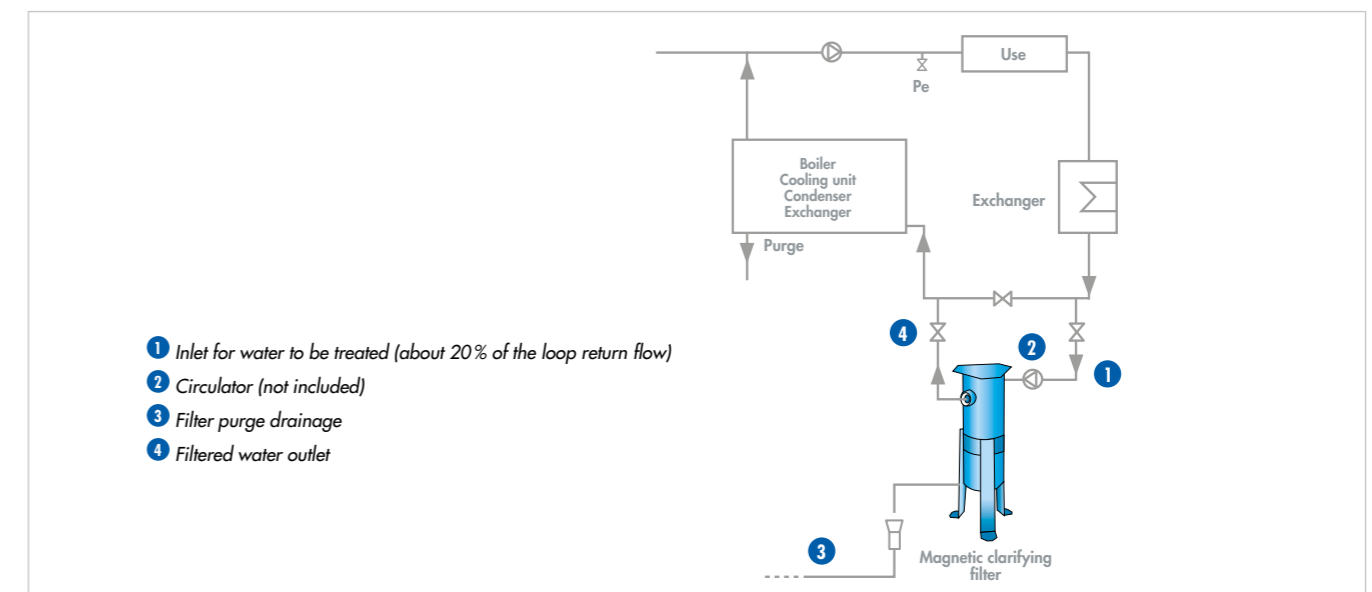
→ **Flow rate:** 0 to 320 m³/h

TECHNICAL SPECIFICATIONS

TYPE		5/9	10/20	21/50	80	120	160	220	320
TECHNICAL SPECIFICATIONS									
Coupling diameter	DN	DN 32	DN 50	DN 80	DN 100	DN 150	DN 150	DN 200	DN 250
Rated flow	m ³ /h	9	20	50	80	120	160	220	320
Filtering grade	microns	25	50	50	50	50	50	50	50
Max service pressure	bars	10	10	10	10	10	10	10	10
Min/max water temperature	°C	85	85	85	85	85	85	85	85
Number of bags		1	1	1	2	3	4	5	7
Steel version item code		-	P0003857	P0003859	P0003652	P0003653	P0003654	P0003655	P0003656
Stainless steel version item code		P0069201	P0968647	P0920377	P0003657	P0003658	P0003659	P0003660	P0003661
SIZE SPECIFICATIONS									
Width	mm	200	290	290	700	800	900	1000	1100
Min height	mm	590	785	1225	1410	1630	1700	1780	2020

On request, the filters can be sized to adapt to non standard pressures and temperatures.

INSTALLATION RECOMMENDATIONS



ACCESSORIES AND CONSUMABLES

	Item code
25 micron bag for 5/9 and XS filter	P0069203
O-ring for STAINLESS STEEL 5/9 and XS filter	P0069202
50 micron polypropylene bag for 10/20 filter	P0003850
O-ring for STEEL 10/20 - 21/50 filter	P0078957
50 micron polypropylene bag for 21/50 filter and 80 to 320 filter	P0003890

* This product is part of our complete SoluTECH for commercial market treatment solution which has an ATEC issued by CSTBat for all metal heating services including aluminium.

SoluTECH CLARIFIER UNITS

HVAC SERVICE FILTERING



PRODUCT PLUSES

- Complete, **ready-to-install on site**
- **Stainless steel** or **painted steel** strong filter body
- **Simple and safe** opening using swing bolts
- **Remote filter monitoring** using the BMS models

OPERATION

SoluTECH CLARIFIER UNITS are designed to continuously eliminate the following from circuits:

- oxides and magnetisable particles using a powerful magnetic bar
- solid impurities, sludge and suspended matter using a felt filtering bag that traps particles bigger than 25 or 50 µm depending on the model (other filtering grades to order)

The wide range of SoluTECH CLARIFIER UNITS can be used to treat any power of heating or cooling systems installation.

APPLICATIONS

Installed as a bypass on the circuit discharge (plan on between 15 and 30% of the circulating flow), preferably at the installation low point, the SoluTECH CLARIFIER UNIT is used:

- preventively: on new circuits with the injection of an all purpose corrosion product such as SoluTECH TOTAL PROTECTION
- curatively: for a sludge removal operation on an existing circuit, using a treatment such as SoluTECH CLEANING AND DESLUDGING

STANDARD EQUIPMENT

SoluTECH CLARIFIER UNITS are complete and ready-to-connect:

- circulator included
- 2 control pressure gauges included
- inlet/outlet valve and purge valve included
- automatic purger
- adjustable stand height (easy connection)

On BMS models:

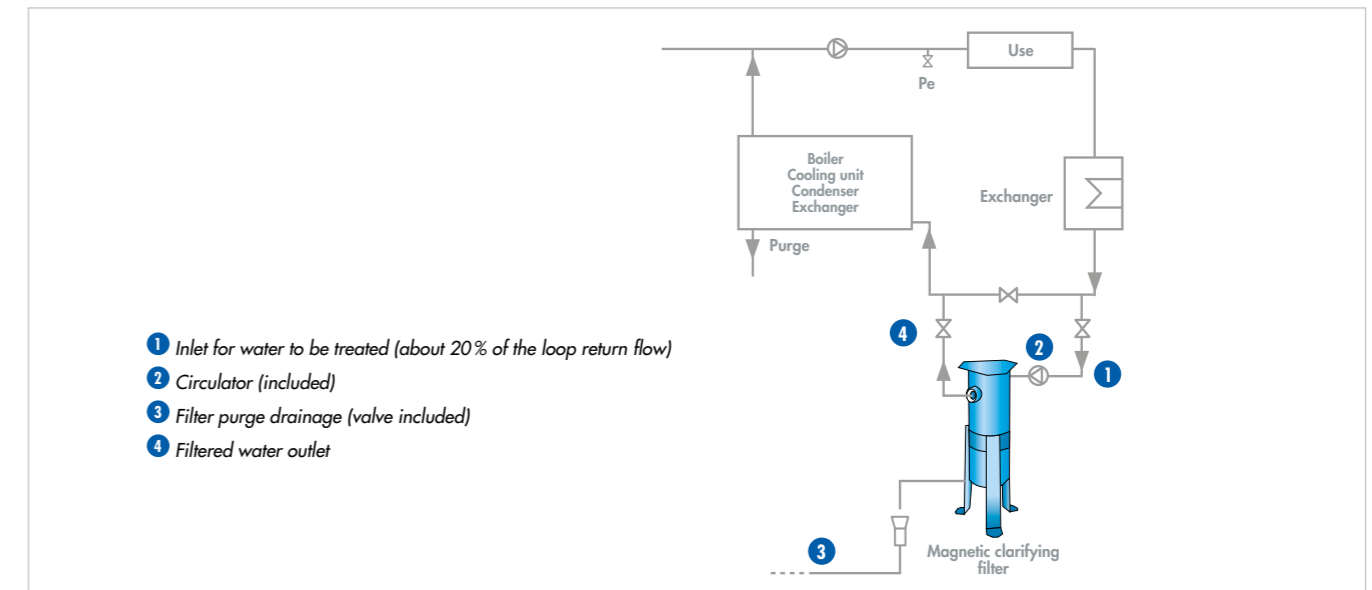
- control cabinet to control and protect the pump
- light indicator to show the filter condition: clean or clogged
- dry contact output for clogged filter fault
- flow controller on the filter output

TECHNICAL SPECIFICATIONS

TYPE		XS	5/9	10/20	21/50		
TECHNICAL SPECIFICATIONS							
Coupling diameter	DN	32	32	50	80		
Rated flow	m ³ /h	4	9	20	50		
Filtering grade	microns	25	50	50	50		
Max service pressure	bars	10	10	10	10		
Min/max water temperature	°C	85	85	85	85		
Number of bags		1	1	1	1		
Filter material		Stainless steel	Steel	Steel	Steel		
Item code		P0003884	PK0003878	PK0003879	PK0003870		
BMS version item code		-	PK0003881	PK0003882	-		
SIZE SPECIFICATIONS							
Width	mm	380	324	363	441	466	480
Length	mm	423	562	668	668	785	1650
Min height	mm	883	685	686	875	875	1530

On request, the filters can be sized to adapt to non standard pressures and temperatures.

INSTALLATION RECOMMENDATIONS



ACCESSORIES AND CONSUMABLES

	Item code
25 micron bag for 5/9 and XS unit	P0069203
50 micron polypropylene bag for 5/9 unit	P0003846
50 micron polypropylene bag for 10/20 unit	P0003850
50 micron polypropylene bag for 21/50 unit and 80 to 320 unit	P0003890
O-ring for STAINLESS STEEL 5/9 and XS unit	P0069202
O-ring for STEEL 5/9 unit	P0078956
O-ring for STEEL 10/20 - 21/50 unit	P0078957

→ Flow rate: 0 to 50 m³/h

* This product is part of our complete SoluTECH for commercial market treatment solution which has an ATEC issued by CSTBat for all metal heating services including aluminium.

SoluTECH CONDENSATE

CONDENSATE NEUTRALISATION



→ 3 models depending on the power
→ Flow: 10 to 60 L/h

PRODUCT PLUSES

- **High autonomy**
- The neutralising pellets are **easy to reload** (except Mini, the equipment must be replaced)

OPERATION

The principle of condensation is based on the recovery of the heat contained in the smokes. By returning this heat to the heating water, the combustion gases are cooled and condense in liquid form: the "condensates". Their composition is markedly acid (pH between 2.5 and 5 depending on the combustion source used).

SoluTECH CONDENSATE equipment contains a neutraliser that removes the acidity from the condensates (fuel or gas burners) before they are sent to the drains.

APPLICATIONS

- SoluTECH CONDENSATE models are installed on floor or wall mounted condensing boilers.
- SoluTECH CONDENSATE MINI for wall mounted gas condensing boilers:
 - from 0 to 25 kW
 - wall mounting
 - SoluTECH CONDENSATE + wall mounted condensing boilers, including cascaded:
 - from 0 to 200 kW
 - floor or wall mounted
 - SoluTECH CONDENSATE SOL for floor mounted or high powered condensing boilers:
 - suitable for up to 350 kW
 - floor mounted

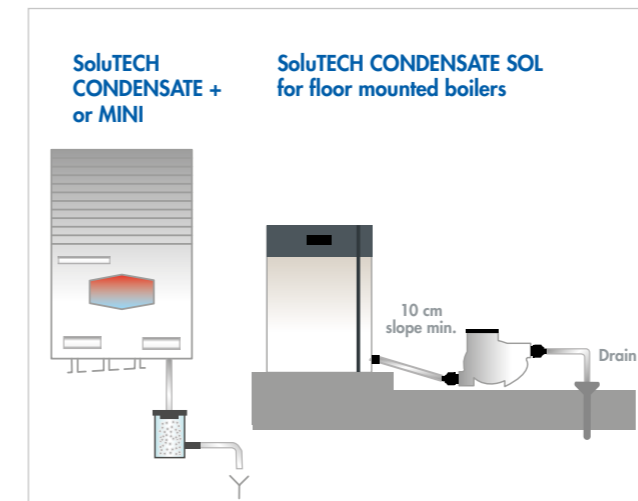
STANDARD EQUIPMENT

- Equipment delivered complete:
- neutralising load
 - connectors and/or connection pipes

TECHNICAL SPECIFICATIONS

TYPE		SoluTECH CONDENSATE MINI	SoluTECH CONDENSATE +	SoluTECH CONDENSATE SOL Up to 350 kW
TECHNICAL SPECIFICATIONS				
Coupling diameter	inches	3/4"	8 to 30 mm	3/4"
Rated flow	L/h	10	60	56
Max boiler power	kW	25	200	350
Service pressure	bars	Atmos. p	Atmos. p	Atmos. p
Min/max water temperature	°C	5/40	5/40	5/40
Item code		C0011721	C0011716A	C0011718
Retail price ex. VAT*		36.00 € (sold per dozen)	86.00 €	254.00 €
SIZE SPECIFICATIONS				
Length	mm	-	-	480
Total height	mm	141	195	260
Width	mm	60	140	170

INSTALLATION RECOMMENDATIONS



CARE

The neutralising charge must be changed every year. Except SoluTECH CONDENSATE MINI: which must be fully replaced when empty or every 6 months. To check that your neutraliser is running correctly, check the presence of neutraliser (white pellets) inside, or check the water coming out using a pH tester strip (the pH must be higher than 6.5. If it is less, change the neutralising charge). Rinsing the pellets can favour the service life and effectiveness of the neutralising charge. Clean the appliance each time the neutraliser product is changed.

ACCESSORIES AND CONSUMABLES	Item code	Retail price ex. VAT*
SoluTECH CONDENSATE + recharge (2 kg bag)	P0048380	33.76 €
SoluTECH CONDENSATE SOL recharge (5 kg bag)	C0003900	111.00 €

FOCUS

SoluTECH CONDENSATE + for wall mounted boilers

SoluTECH CONDENSATE + simply connects to the boiler evacuation.

It is delivered complete with all the accessories:

- 1 neutralising recharge (2 kg)
- 120 cm of tube for connection to the drains
- 1 wall mounting kit



SoluTECH EASYFLOW by Grundfos

MOBILE SLUDGE REMOVAL PUMP



PRODUCT PLUSES

- Delivered complete, **ready-to-use**
- **Strong pump suitable for works:** easy to transport, complete rinsing and hoses supplied

OPERATION

SoluTECH EASYFLOW is a compact, mobile pump designed to wash or remove sludge from heating circuits.

It makes the injection of the cleaning product, its circulation, and the clean drainage of the circuit easier, as well as rinsing with clean water and simple and clean evacuation to the drains.

APPLICATIONS

SoluTECH EASYFLOW is ideal to clean central heating systems or heat exchangers.

It makes it possible to carry out sludge removal or washes:

- during renovation
- when installing new equipment
- in the framework of performance improvements mentioned in the report issued under the boiler maintenance contract (mandatory: decree published in the French Journal Officiel of 15 September 2009 on 4 to 400 kW boiler maintenance)

STANDARD EQUIPMENT

Mobile pump delivered complete and ready-to-use:

- fitted with a flow reverser for better effectiveness on highly charged circuits with low flow rates
- delivered with the connection pipes

→ **Flow rate:** 1 to 4 m³/h



TECHNICAL SPECIFICATIONS

TYPE		SoluTECH EASYFLOW by Grundfos
TECHNICAL SPECIFICATIONS		
Rated flow	m ³ /h	4 m ³ /h at 0.8 bar - 1 m ³ /h at 1.5 bar
Max TDH at nil flow	mCE	16
Protection index		IP54
Min/max water temperature	°C	-10 to 90
Connection pipes		15 m for tap water Ø 12.5 mm 25 m for the drains Ø 19 mm
Item code		C9000075A
Retail price ex. VAT*		1,520.00 €
SIZE SPECIFICATIONS		
Length	mm	500
Total height	mm	950
Width	mm	450

QUICK SLUDGE REMOVAL OPERATION WITH FLOW REVERSAL

Step n°1

Fit the installation with a degasser and/or sludge trap if the installation does not have one.

Step n°2

Drain the installation if the water is highly charged
Re-fill the circuit with water, start circulation and heating.

Step n°3

Add SoluTECH DESLUDGING product

- connect the SoluTECH EASYFLOW sludge pump to the heating circuit or the underfloor heating collector
- dilute the SoluTECH DESLUDGING product in the pump tank

Step n°4

Remove sludge from the circuits

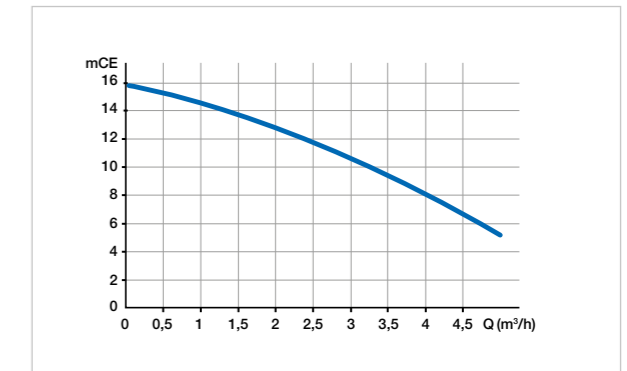
- start up the pump to clean the circuit
- reverse the pump flow direction to favour the removal of the sludge from the installation

Step n°5

Rinse

Once the operation is complete, fully drain and rinse loop by loop in clean water to evacuate the particles in suspension

PERFORMANCE CURVE



Step n°6

Preventive treatment of the installation

Refill with clean water, purge, then add the preventive product using the SoluTECH INJECTION kit or directly using the pump.

Step n°7

Validate the dosage using the SoluTECH CONTROL kit

ACCESSORIES AND CONSUMABLES	Item code	Retail price ex. VAT*
SoluTECH DESLUDGING 500 mL jerrican, sold per 12	C0007472A	41.00 € / Jerrican
SoluTECH DESLUDGING 10 L jerrican	C0007474	46.60 € / L
SoluTECH PROTECTION 500 mL jerrican, sold per 12	C0007473A	45.00 € / Jerrican
SoluTECH PROTECTION 10 L jerrican	C0007475	50.70 € / L
SoluTECH UNDERFLOOR HEATING 500 mL jerrican, sold per 12	C0007470A	48.00 € / Jerrican
SoluTECH UNDERFLOOR HEATING 10 L jerrican	C0007468	54.80 € / L
SoluTECH CONTROL	C0011722	46.00 €
SoluTECH AIR AND SLUDGE EXTRACTION	C0020911A	256.50 €



SoluTECH DESLUDGING



SoluTECH PROTECTION



SoluTECH UNDERFLOOR HEATING



SoluTECH CONTROL



SoluTECH EXTRACTION AIR ET BOUE

SoluTECH HOT SANITARY EXCHANGER

PHYSICAL ANTI-SCALE FOR WALL MOUNTED BOILERS



PRODUCT PLUSES

- No servicing and no maintenance
- Replacement every 5 years
- Compact
- **Strong and durable:**
stainless steel body, chrome connectors



OPERATION

SoluTECH HOT SANITARY EXCHANGER is a physical anti-scale device. The water passes through the tubular body in which the formation of scale is triggered by turbulence in a non adhering crystal form (aragonite). The scale is therefore formed upstream, in a form that is harmless for installations and is borne away by the flow of water.

APPLICATIONS

SoluTECH HOT SANITARY EXCHANGER is to be installed upstream of the heating equipment to be protected (boiler). Ideal for apartments with wall mounted boilers for private domestic hot water production. It is a simple solution with no specific maintenance. Effective, it maintains output and extends the service life of the downstream equipment.

STANDARD EQUIPMENT

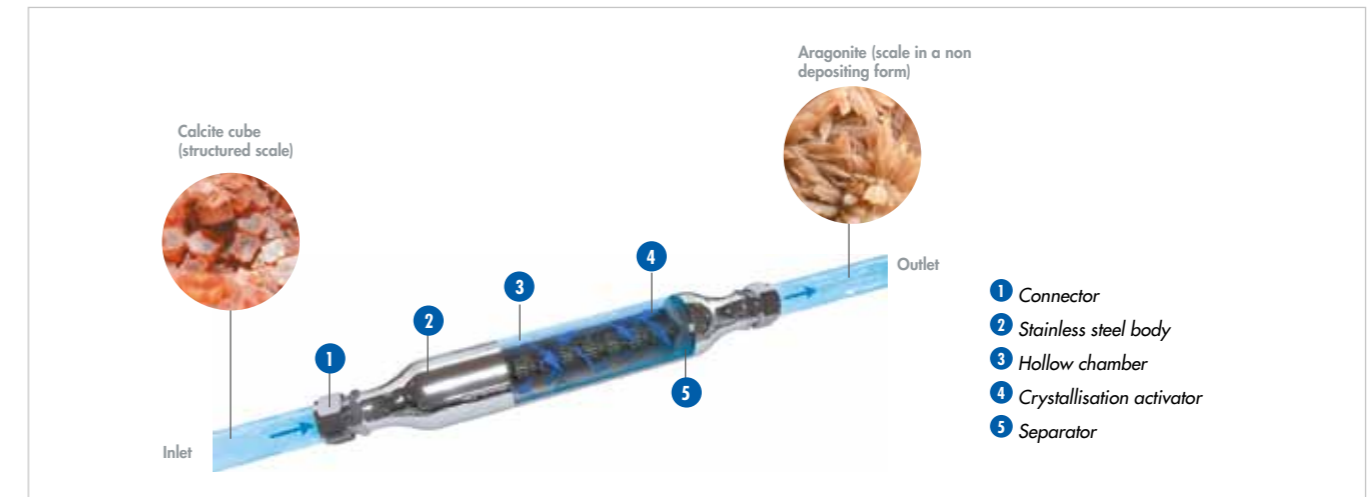
Olive connectors supplied: 2 x Ø15 mm and 2 x Ø16 mm.

→ Flow rate: 1.6 m³/h

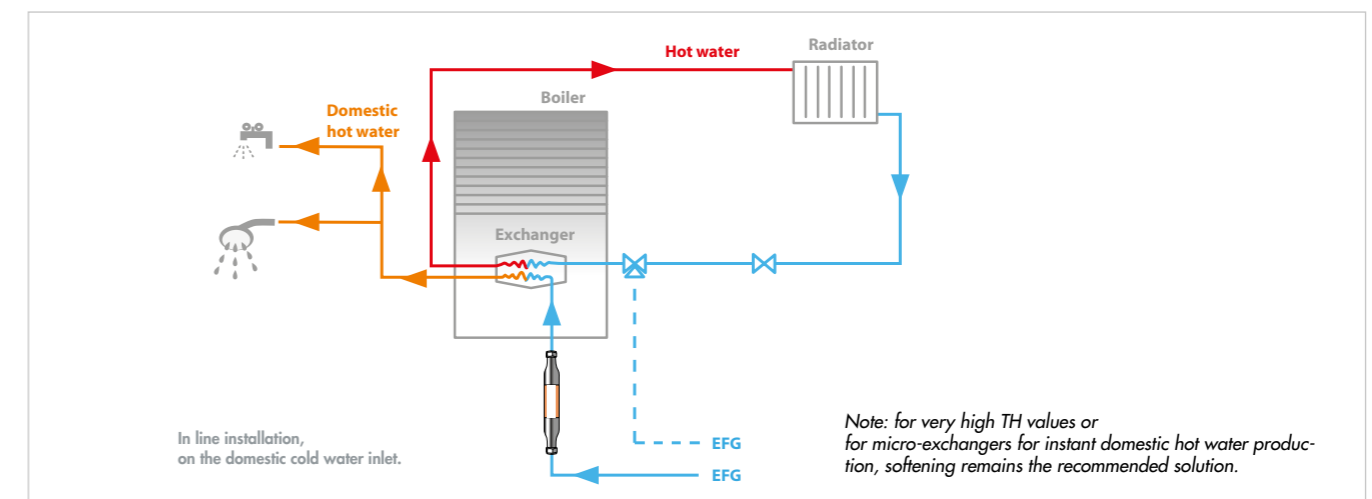
TECHNICAL SPECIFICATIONS

SoluTECH HOT SANITARY EXCHANGER		
TECHNICAL SPECIFICATIONS		
Max flow	m ³ /h	1.6
Maximum pressure	bars	10
Max water temperature	°C	70
Item code		C0502030
Retail price ex. VAT*		122.50 €
SIZE SPECIFICATIONS		
Diameter	mm	22
Length excluding connectors	mm	219
Total length	mm	335

OPERATING PRINCIPLE



INSTALLATION RECOMMENDATIONS



3

THE WATER FROM THE PUBLIC SERVICES DOES NOT ALWAYS HAVE THE QUALITY YOUR APPLICATIONS REQUIRE

In buildings, water transmits calories (HVAC circuits) or is distributed to users as potable water (Domestic hot water, general cold water)

To give your applications full performances and to provide users with comfort and safety, and to protect your equipment, the BWT water conditioning line provides solutions to make the water distributed at the inlets to buildings compliant and suitable for the uses defined in regulations.



CONDITIONING

→ The BWT conditioning line

is designed to cover all applications simply and fully: disinfection, anti-scale, corrosion or anti-freeze treatments, line of curative treatments for scale, corrosion or sludge removal in deteriorated circuits. They allow you to ensure that your installations run correctly, or to carry out curative operations safely, and in compliance with applicable regulations.

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• BWT NET SANIT+	55
• BWT NET SANIT INOX	56

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



ideal for individual housing



Ideal for community facilities

FOCUS ON

BAG IN BOX

AN INNOVATION IN THE MANAGEMENT OF YOUR WATER CONDITIONING PACKAGING



→ BWT has created innovating packaging: the BAG IN BOX (BiB)



This packaging from BWT R&D is unique on the water treatment market. It is composed of:

- a flexible and strong inner bag containing the treatment product, which flattens automatically as it empties
- a strong and recyclable outer box

Compatible with all existing dosing accessories for jerricans, this packaging considerably reduces empty packaging constraints.

ECOLOGICAL

- Removable and 100% recyclable box
- 75% less plastic compared to a jerrican of the same capacity
- Reduced waste weight and volume: carbon footprint 60% smaller

PRACTICAL

- Built-in product level gauge
- Extra-flat empty bag to gain storage space for empty packaging
- Empty bag collection system with the **BWT - BiB CONCEPT option**

STRONG

- Packaging stackable up to 3 levels
- Higher frost resistance than jerricans
- Built-in carrying handle

A COLOUR CODE TO SIMPLIFY WATER CONDITIONING



RED

Cleaning products

GREEN

Cooling circuit protection products

ORANGE

Heating and steam production circuit protection products

YELLOW

Disinfectant products

BLUE

Anti-freeze products and closed circuit protection formulas

EASY → identifies the product's application.

SAFE → simplifies compliance with storage instructions.

CLEAR → labels are more legible and have multi-language instructions.

THE BiB CONCEPT OPTION

A complete service from delivery to the recycling of packaging

- 1 When you order your BiB format water treatments, **subscribe to the BiB Concept option**
- 2 **BWT will deliver your order + a jerrican** for used bags
- 3 Once full, **just return** the jerrican to BWT

→ **The benefits:** BWT retains the property and responsibility for the waste and completely relieves you of the procedures to have them destroyed using a specialised contractor and the associated formalities (Industrial waste tracking, etc.)

DOSING GROUP

PRODUCT INJECTION



PRODUCT PLUSES

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

OPERATION

The dosing unit is the easy and reliable way to treat your circuits. It is delivered complete and ready to commission.

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

The electronic dosing pump provides accurate doses from the very smallest flows. Available in a PM60 model for high flow and high counter-pressure circuits.

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

APPLICATIONS

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

It is delivered complete and ready to connect. The choice is made depending on the dosing pump sizing.

STANDARD EQUIPMENT

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

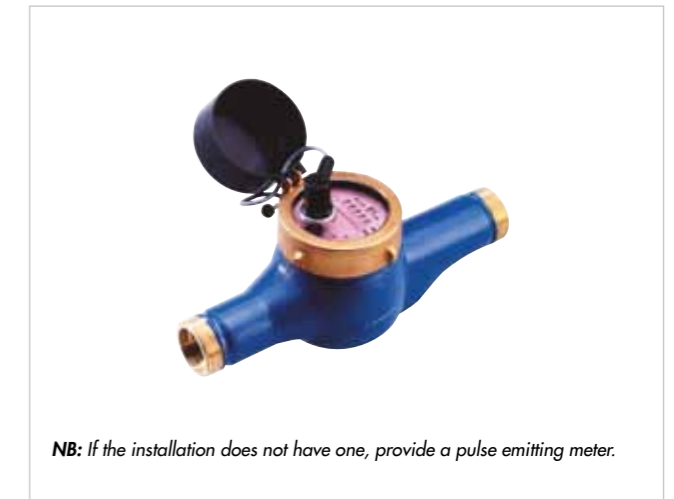
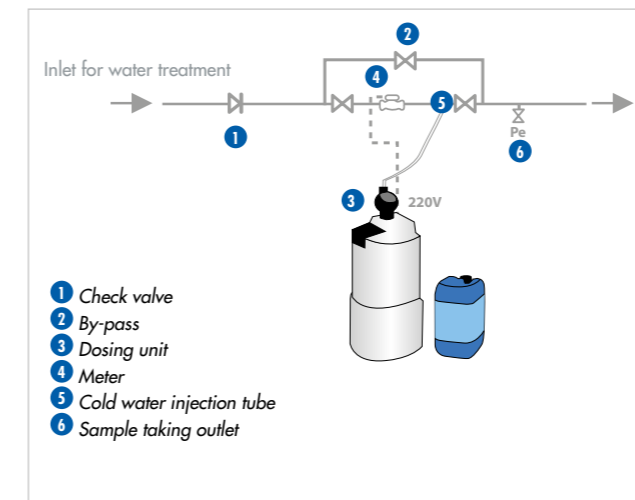
- the 140 L treatment tank
- the dosing pump
- injection accessories (suction screen, tubing and discharge piping, injection tube, etc.)
- the cable to couple to the transmitter meter
- the containment tank

→ Flow rate: 7 to 60 L/h

TECHNICAL SPECIFICATIONS

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

INSTALLATION RECOMMENDATIONS



SUPPLEMENTS TO THE LINE: COLD WATER METERS

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

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

ACCESSORIES AND CONSUMABLES

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

WATER CONDITIONING

LINE

SANITARY WATER (p. 45)

PRODUCTS	Hardness	Antiscale	Corrosion	Disinfection
	°f			
AQUASIL	10 - 45	●●●	●●	
BWT FILM105	0 - 20	●	●●●	
BWT DW-3002	N.A.			●●●

HEATING AND COOLING SYSTEMS (p. 48)

PREVENTIVE	Application		Dispersant	Anti-scale	Corrosion
	Steel / copper	Aluminium			
BWT SH-1005	●●●	x	●●●	●●	●●●
BWT CC-1002	●●●	x	●●●	●●	●●●

ANTIFREEZE	Application		Protection - 25 °C	Corrosion
	Technical services	Approved for single exchange		
BWT GLYCOL N+	●●●		●●●	●●
BWT GLYCOL SANIT+	●●●	●●●	●●●	●●

HEATING AND COOLING SYSTEMS (p. 52)

SCALE REMOVAL / CORROSION	Compatibility				Dispersant	Scale removal	Corrosion protection	Neutraliser	Cleaning food grade surfaces	Disinfectant
	Steel	Copper	Stainless steel	Aluminium						
BWT CP-4001	●●●	●●●	●●●	x	●●●		●●●	●●		
BWT NET CAL+	●●●	●	●●●	●●●		●●●	●		●●●	
BWT NET NEUTRA+	●●●	●●●	●●●	x	●			●●●	●●●	
BWT NET SANIT+	●●●	●●●	●●●	●●●						●●●
BWT NET SANIT INOX			●●●						●●●	●●●

● Basic performance ●● Good performance ●●● Very good performance x Incompatible

SPECIFIC TREATMENT INDUSTRIAL LINE FOR:

- **steam boilers:** industrial line on request
- **cooling towers:** industrial line on request
- **specific applications** on request

The instructions for use on our manuals and labels are drawn up using the official and private results that have proven to be the most effective in practice. They are not rules set in stone, but general recommendations that must be adapted to the specificities of all treatments due to the many factors that are beyond our control, such as the type of materials and the geometry of installations, water quality, dosing conditions, etc. Consequently we decline any liability as to the results and consequences of this adaptation: it is an initiative that is outside our control leaving the user to bear any risks inherent to the storage, use and handling of our products. Our liability is explicitly limited to the supply of controlled specialities that are legally authorised to be sold and compliant with their specifications.

AQUASIL

FILM GENERATING ANTI-SCALE AND CORROSION TREATMENT



APPLICATION

Anti-scale and corrosion protection for domestic hot water.

The purpose of **BWT AQUASIL** is to fight scale and corrosion in domestic hot water production appliances and galvanised steel, looped, continuous flow distribution circuits in compliance with French DTU 60.1 and its addenda.

BWT AQUASIL is used to treat water with a total alkalinity (ALK) of between 10 and 45 °f.

SPECIFICATIONS

- **Appearance:** colourless liquid
- **Packaging:** 20 kg BiB, 1,000 kg jerrican
- **Density at 20 °C:** 1.14 +/- 0.02
- **pure product pH :** > 12

USE

Dosage

BWT AQUASIL can be injected pure or diluted in softened water. It should be injected using a dosing unit proportionally to top up amounts.

Control

Measurement of treated water phosphates and silica content. Inspection of indicator sleeves. Monitoring of total iron content. In order for the treated water to be compliant with the applicable regulations, we recommend subscribing to a contract with our customer service to monitor treatment and carry out the required water analyses.

ADVANTAGES

- Full protection by a unique compound
- Simplified use thanks to its liquid formula
- A high concentration of active matter reducing treatment costs
- Compliant with regulations authorising the treatment of water for human consumption
- The AQUASANIT technique (use of the AQUASIL product) has obtained an ATEC technical approval from specialist group n°19 that can be viewed on the www.cstb.fr web site
- BWT is the holder of the AQUASANIT process technical approval

HANDLING - STORAGE - SAFETY

AQUASIL is a base product

In the event of contact between the pure product and the skin or eyes, rinse with plenty of water and get medical advice.

Store away from heat sources and acids.

For any information about precautions for use, product related hazards, protection equipment required to handle the product and product toxicology, please refer to the Safety Data Sheet (SDS) available on www.msds-sys.net

CONDITIONING	Item code
Bag in box (20 kg)	P0007091
Jerrican (1,000 kg)	P0007093

BWT FILM105

ANTISCALE AND CORROSION PROTECTION FILM GENERATING TREATMENT



APPLICATION

The purpose of **BWT FILM105** is to fight scale and corrosion in domestic hot water production appliances and galvanised steel, looped, continuous flow distribution circuits in compliance with French DTU 60.1 and its addenda.

SPECIFICATIONS

- **Appearance:** colourless liquid
- **Packaging:** 20 kg BiB, 200 L drum, 1,000 kg jerrican
- **Density at 20°C:** 1.16 +/- 0.02
- **pure product pH:** > 11

USE

Dosage

BWT FILM105 can be injected pure or diluted in softened water (TH ≤ 20°f). It should be injected continuously using a dosing unit proportionally to top up amounts.

The maintenance dosage should not be in excess of 100 ml/m³.

These doses will only be effective if the water circuit is compliant with the terms of French DTU 60.1 addendum n°4 of February 1977.

Controls

Measurement of treated water phosphates and silica content. Inspection of indicator sleeves. Monitoring of total iron content. In order for the treated water to be compliant with the applicable regulations, we recommend subscribing to a contract with our customer service to monitor treatment and carry out the required water analyses.

ADVANTAGES

- Full protection by a unique compound
- Simplified use thanks to its liquid formula
- A high concentration of active matter reducing treatment costs
- Compliant with regulations authorising the treatment of water for human consumption
- The FILM105 technique (use of the FILM105 product) has obtained an ATEC technical approval from specialist group n°19 that can be viewed on the www.cstb.fr web site
- BWT is the holder of the FILM105 process technical approval

HANDLING - STORAGE - SAFETY

BWT FILM105 is a base product.

In the event of contact between the pure product and the skin or eyes, rinse with plenty of water and get medical advice.

Store away from heat sources and acids.

For any information about precautions for use, product related hazards, protection equipment required to handle the product and product toxicology, please refer to the Safety Data Sheet (SDS) available on www.msds-sys.net

CONDITIONING	Item code
Bag in Box (20 kg)	P0007375
Drum (200 L)	P0009503
Jerrican (1,000 kg)	P0009505

BWT DW-3002

CONTINUOUS DISINFECTION OF SANITARY WATER

APPLICATION

BWT DW-3002 is a stabilised chlorine based liquid formula that has a wide spectrum of action on bacteria.

Its main use is in the framework of preventive or curative disinfection treatments of sanitary hot or cold water circuits (fight against legionella for example). It is a quick acting oxidiser.

SPECIFICATIONS

- **Appearance:** colourless to yellow, chlorinated smell
- **Solubility in water:** total
- **Packaging:** 200 kg drum, 20 kg jerrican, 1,000 kg jerrican
- **Density at 20°C:** 1.05 +/- 0.02
- **pH when pure:** > 13

USE

Dosage

BWT DW-3002 must be injected pure using a dosage pump. The treatment consists in adding a sufficient dose of residual oxidant to the circuit to be treated.

The analysis of this residual is used to adjust the dosage depending on the circuit (time inside the circuit) and the contamination level.

Controls

Residual oxidant measurement: the required level generally varies between 0.2 and 1 ppm of free chlorine. However, stronger doses can be used in the framework of the shock disinfection of a highly contaminated circuit (contact us).

For optimum effectiveness and a control of the required and sufficient doses it is recommended to couple the injection of BWT DW-3002 to the continuous measurement of free chlorine in the treated installation using a BWT Servo 3 type PLC.

ADVANTAGES

- Algaeicide, bactericide and fungicide function using a unique compound
- Proven effectiveness against legionella
- Simplified use thanks to its liquid formula
- Biocide active material recommended by French circular DGS n°2002/243 of 22 April 2002 covering the fight against and prevention of legionella risks in sanitary water circuits

HANDLING - STORAGE - SAFETY

Basic and oxidising product.

Consequently, the customary precautions must be taken when handling (gloves, protective eye wear, clothing, etc.).

If in eyes, wash with plenty of water.

Store in its original, hermetically sealed packaging in a dry, ventilated area, sheltered from frost (temperature > 4°C) and acids.

For any information about precautions for use, product related hazards, protection equipment required to handle the product and product toxicology, please refer to the Safety Data Sheet (SDS) available on www.msds-sys.net

CONDITIONING	Item code
20 kg Jerrican	P0008143BWT
200 Kg drum	P0008144BWT
1,000 kg jerrican	P0008145BWT

BWT SH-1005

PREVENTIVE CORROSION TREATMENT FOR HEATING CIRCUITS

APPLICATION

BWT SH-1005 is based on sludge dispersal tannins, oxygen reducer and CO₂ neutraliser.

It protects against corrosion in steel heating circuits that may also have some copper parts. It is not compatible with aluminium.

Its fields of application are generally high volume heating circuits, superheated water and low pressure steam boilers.

SPECIFICATIONS

- **Appearance:** brown black liquid
- **Solubility in water:** total
- **Packaging:** 20 kg BiB, 200 L drum, 1,000 kg jerrican
- **Density at 20°C:** 1.07 +/- 0.02
- **pH of the pure product:** >13
- **Character:** highly alkaline
- **Water miscibility:** total

USE

Dosage

BWT SH-1005 can be used pure or diluted in softened or demineralised water, either manually or using a dosing pump. The dosage varies depending on the operating conditions for each installation from 2 to 4 L/m³.

For all dosage choices, please refer to our specialist recommendations and to the boiler manufacturer recommendations.

Controls

- Tannin measurement
- Alkalinity measurement
- Visual inspection

ADVANTAGES

- Effective corrosion and anti-scale protection at low doses, independently of the oxygen content
- Prevents scale and sludge deposits and disperses them
- Simplified use thanks to its concentrated liquid formula
- Stable at high temperatures
- The presence of tannin allows a simple visual check of the dosage
- Protects steel and copper heating circuits (does not protect metals such as aluminium and its alloys, for which a pH below 9 is advised)

HANDLING - STORAGE - SAFETY

Base product.

Take the customary precautions (gloves, eye-wear, etc.) when handling.

Store away from frost and acids.

For more information about precautions for use, product related hazards, protection equipment required to handle the product and product toxicology, please refer to the Safety Data Sheet (SDS) available on www.msds-sys.net

CONDITIONING	Item code
20 kg Bag in box	P0008320BIB
200 Kg drum	P0008321BWT
1,000 kg jerrican	P0008322BWT

BWT CC-1002

PREVENTIVE CORROSION TREATMENT FOR COOLING SYSTEMS CIRCUITS

APPLICATION

BWT CC-1002 is a liquid formula based on organic and mineral inhibitors for ferrous and copper metals.

It does not protect aluminium. It can be used in closed circuits (or circuits with low top-ups) filled with softened water or not.

It protects from corrosion and scale.

SPECIFICATIONS

- **Appearance:** clear to slightly yellow
- **Packaging:** 20 kg BiB, 200 L drum, 1,000 kg jerrican
- **Density at 20°C:** 1.12 +/- 0.02
- **pH when pure:** 11.5 +/- 0.5

USE

Dosage

BWT CC-1002 can be injected pure or diluted in softened or demineralised water, either manually or using a dosing pump.

The BWT CC-1002 complex can be superdosed at commissioning to provide a preparatory phase to film the surfaces to protect.

Controls

Phosphate and/or molybdate measurement.

ADVANTAGES

- Effective corrosion and anti-scale protection at low doses, independently of the oxygen content
- Simplified use thanks to its liquid formula
- Dispersal effect on deposits and corrosion present before the treatment
- Compatible with anti-freeze products such as BWT GLYCOL N+ or SANIT+

HANDLING - STORAGE - SAFETY

Alkaline product.

Take the customary precautions (gloves, eye-wear, etc.) when handling.

Store away from frost and acids.

For more information about precautions for use, product related hazards, protection equipment required to handle the product and product toxicology, please refer to the Safety Data Sheet (SDS) available on www.msds-sys.net

CONDITIONING	Item code
20 kg Jerrican	B0007297BIB
200 Kg drum	B0007298
1,000 kg jerrican	B0007299

BWT GLYCOL N+

ALL PURPOSE ANTI-FREEZE FOR CLOSED CIRCUITS

APPLICATION

BWT GLYCOL N+ protects HVAC circuits from frost and limits the corrosion of the metals that are present such as aluminium, steel, copper and its alloys, welds, by forming a protective film and by neutralising the acidity that is likely to form in this environment.

Its synthetic dispersants delay the deposit of scale and disperse it. Its field of application is generally in heat or cold transport circuits with no zinc or galvanised steel elements.

ADVANTAGES

- Easy-to-use liquid anti-freeze, anti-scale and corrosion product
- High alkaline reserve for better stability at high temperatures and over time
- Amine and nitrite free treatment
- Compatible with all SoluTECH and BWT line products

HANDLING - STORAGE - SAFETY

Product classified as toxic when swallowed.

Product not classified for transport.

For more information about precautions for use, product related hazards, protection equipment required to handle the product and product toxicology, please refer to the Safety Data Sheet (SDS) available on www.msds-sys.net

SPECIFICATIONS

- **Appearance:** red liquid
- **Packaging:** 20 kg BiB, 210 L drum, 1,000 L jerrican
- **Density at 20°C:** 1.11 +/- 0.02
- **pure product pH :** 8.0 +/- 0.5

USE

Dosage

Corrosion protection is ensured for a concentration of 30% or more in volume of BWT GLYCOL N+, independently of the required frost protection. BWT GLYCOL N+ can be used pure directly in the circuit, or diluted (preferably in softened water).

Best practices always recommend cleaning prior to installation (even new) to avoid the formation of sludge by the detachment of the oxides and scale pre-existing in the circuit.

Controls

Freezing point, inhibitor content.

CONDITIONING	Item code
20 kg Bag in box	P0009645BIB
210 L drum	P0009646A
1,000 L drum	P0009647A

BWT GLYCOL N+ (% in volume)	15%	20%	25%	30%	35%	40%	45%	50%
Anti-freeze protection (+/- 2°C)	-7°C	-9°C	-13°C	-16°C	-21°C	-27°C	-32°C	-39°C

BWT GLYCOL SANIT+

ALL PURPOSE ANTI-FREEZE FOR CLOSED CIRCUITS

APPLICATION

BWT GLYCOL SANIT+ protects HVAC circuits from frost and limits the corrosion of the metals that are present such as aluminium, steel, copper and its alloys, welds, by forming a protective film and by neutralising the acidity that is likely to form in this environment. Its synthetic dispersants delay the deposit of scale and disperse it. Its field of application is generally in heat or cold transport circuits (heating and cooling systems) with no zinc or galvanised steel and High Pressure PVC elements. Formula authorised for single exchange.

ADVANTAGES

- Easy-to-use liquid anti-freeze, anti-scale and corrosion product
- High alkaline reserve for better stability at high temperatures and over time
- Amine and nitrite free treatment
- Compatible with inhibitors contained in SoluTECH and BWT line products
- BWT GLYCOL SANIT+ is on list A of heat transporting fluids authorised on thermal treatment installations for water for human consumption operating using single exchange – Reference n°2011-SA-0182

HANDLING - STORAGE - SAFETY

Does not require hazard labelling.

Product not classified for transport health or environment.

For more information about precautions for use, product related hazards, protection equipment required to handle the product and product toxicology, please refer to the Safety Data Sheet (SDS) available on www.msds-sys.net

SPECIFICATIONS

- **Appearance:** blue liquid
- **Packaging:** 20 kg BiB, 210 L drum, 1,000 L jerrican
- **Density at 20°C:** 1.05 +/- 0.02
- **pure product pH :** 7.5 +/- 0.5

USE

Dosage

Corrosion protection for the circuit is ensured for a minimum concentration of 30% by volume of BWT GLYCOL SANIT+, independently of the required frost protection.

BWT GLYCOL SANIT+ can be used pure directly in the circuit, or diluted, preferably in softened water.

Best practices always recommend cleaning prior to installation (even new) to avoid the formation of sludge by the detachment of the oxides and scale pre-existing in the circuit.

Controls

Freezing point, inhibitor content.

CONDITIONING	Item code
20 kg Bag in box	P0009605BIB
210 L drum	P0009606A
1,000 L drum	P0009607A

BWT GLYCOL SANIT+ (% in volume)	15%	20%	25%	30%	35%	40%	45%	50%	60%
Anti-freeze protection (+/- 2°C)	-5°C	-7°C	-10°C	-13°C	-18°C	-23°C	-29°C	-34°C	-51°C

BWT CP-4001

CURATIVE SLUDGE TREATMENT FOR HEATING CIRCUITS

APPLICATION

BWT CP-4001 is a liquid formula based on phosphating and alkalinising products as well as synthetic organic polymers that are used to:

- make the circuit water alkaline to favour the detachment and dissolving of deposits and oxides
- disperse the precipitated particles to evacuate them at the purge level
- create a high strength passivation film for better future corrosion treatment effectiveness.

BWT CP-4001 is not compatible with aluminium and its alloys.

SPECIFICATIONS

- **Appearance:** clear to pale yellow liquid
- **Packaging:** 20 kg BiB, 250 kg drum
- **Density at 20°C:** 1.19 +/- 0.02
- **pure product pH :** 11.9 +/- 0.5
- **Solubility in water:** complete

USE

Dosage

BWT CP-4001 can be injected manually, either pure or diluted.

The dosage depends on the amount of sludge in the circuit and the type of materials to be treated. Generally a dosage of 3 to 4 L/m³ is recommended to clean and disperse sludge.

Purges should then be increased to favour the evacuation of the dispersed deposits. The combined use with a magnetic clarifier filter is also recommended to complement its sludge dispersal action.

The product should not be used in circuits containing elements that have low or no resistance to alkalinity (certain types of seal for example, or parts including aluminium or its alloys, for which a pH strictly lower than 9 is advised).

Controls

Visual inspection, phosphate or acrylate analysis.

ADVANTAGES

- Concentrated, ready-to-use, liquid product
- Stability over time and resistance to temperature
- Effective for the dispersal of iron oxides, hardness and silica

HANDLING - STORAGE - SAFETY

Alkaline product.

Take the customary precautions (gloves, eye-wear, etc.) when handling.

Store away from frost (temperature > 4°C) and acids.

For more information about precautions for use, product related hazards, protection equipment required to handle the product and product toxicology, please refer to the Safety Data Sheet (SDS) available on www.msds-sys.net

CONDITIONING	Item code
20 kg Bag in box	P0008570BIB
250 kg drum	P0008571BWT

BWT NET CAL+

SCALE REMOVER AND MULTI-METAL DE-OXIDISER

APPLICATION

Cleaning clogged or scaled circuits

The **BWT NET CAL+** reagent is used to eliminate scale

deposits from all installations: sterilisers, boilers, exchangers, superheaters, condensers, tanks, washing machines and dishwashers...

It can be used on cast iron, steel, Rilsan® coated steel, enamelled steel (acid resistant), aluminium, chrome, lead and stainless steel

SPECIFICATIONS

- **Appearance:** clear liquid
- **Packaging:** 20 kg BiB, 200 L drum, 1,000 kg jerrican
- **pure product pH :** 1.2 +/- 0.5
- **Density:** 1.12 +/- 0.02
- **Solubility in water:** complete

USE

Dosage

For scale, dilute BWT NET CAL+ at 10% (1 volume of reagent for 9 volumes of water). To reduce the cleaning time the product can be used at 20%.

Usable cold, the anti-scale treatment process is faster hot (40-50°C).

- 1 • Introduce and circulate the reagent in the opposite direction to the normal water flow using an anti-scale pump such as SoluTECH Easyflow by Grundfos
- 2 • Leave to operate by maintaining the flow (foam may form)
- 3 • Following the cleaning which must not last longer than 24 hours, neutralise the effluent using BWT NET NEUTRA+ and drain
- 4 • Rinse with plenty of water, then passivate the installation using a 5% solution of BWT NET NEUTRA+ and put back into service

ADVANTAGES

- Product concentrated in active matter, reducing quantities used and treatment costs
- Compliant with French order of 8th September 1999 covering the cleaning of materials and objects intended to come into contact with foodstuffs
- Dissolves scale and iron oxides
- Compatible with most usual metals and elastomers

HANDLING - STORAGE - SAFETY

Acid product

Consequently, the customary precautions must be taken when handling (gloves, protective eye wear, clothing, etc.).

If in eyes or on skin, wash with plenty of water.

Store in its original, hermetically sealed packaging in a dry, ventilated area, sheltered from frost (temperature > 4°C) and away from base products.

For closed circuits, provide a vent in the upper part of the circuit to favour degassing

The action of BWT NET CAL+ induces a risk of foam formation

For more information about precautions for use, product related hazards, protection equipment required to handle the product and product toxicology, please refer to the Safety Data Sheet (SDS) available on www.msds-sys.net

CONDITIONING	Item code
20 kg Bag in box	P0007656
200 kg drum	P0007657
1,000 kg jerrican	P0007658

BWT NET NEUTRA+

NEUTRALISING, PASSIVATING AND DEGREASING

APPLICATION

Neutralisation following scale removal or circuit passivation.

The **BWT NET NEUTRA+** reagent is an alkaline formula used to passivate metal surfaces to protect them from corrosion. It is also used to neutralise chemical scale removers used in curative operations.

The use of **BWT NET NEUTRA+** is possible on all metals (except aluminium) and in a domestic hot water context.

SPECIFICATIONS

- **Appearance:** clear liquid
- **Packaging:** 20 kg BiB, 250 kg drum, 1,000 kg jerrican
- **pure product pH :** > 14
- **Density:** 1.17 +/- 0.02
- **Solubility in water:** complete

USE

Dosage

BWT NET NEUTRA+ is injected and put into circulation using anti-scale pumps such as SoluTECH Easyflow by Grundfos. It is used diluted to 5% (1 volume BWT NET NEUTRA+ for 19 volumes of water).

BWT NET NEUTRA+ is usually used for a few minutes and, for large installations for 1 or 2 hours.

BWT NET NEUTRA+ must not be injected into the circuit if it still contains the scale removal acid product: the circuit must be drained and rinsed before injecting BWT NET NEUTRA+.

After treatment, rinse and fill the installations with water immediately.

For passivation, the circuit pH must be checked.

It must be maintained at a value higher than 9.

If necessary, add BWT NET NEUTRA+ to reach this protective value.

The product should not be used in circuits containing elements that have low or no resistance to alkalinity (certain types of seal for example, or parts including aluminium or its alloys, for which a pH strictly lower than 9 is advised).

ADVANTAGES

- Product concentrated in active matter, reducing quantities used and treatment costs
- Compliant with French circulars of 28 March 2000 and 7 May 1990 on water treatment products and processes for water for human consumption: suitable for cleaning surfaces in contact with food and for sanitary circuits
- Neutralises acidity following chemical scale removal
- Passivates metal surfaces by forming a protective film
- Does not colour the water
- Perfectly stable at high temperatures

HANDLING - STORAGE - SAFETY

Base product.

Consequently, the customary precautions must be taken when handling (gloves, protective eye wear, clothing, etc.).

If in eyes, wash with plenty of water. Store in its original, hermetically sealed packaging in a dry, ventilated area, sheltered from frost (temperature > 4°C) and acids.

For more information about precautions for use, product related hazards, protection equipment required to handle the product and product toxicology, please refer to the Safety Data Sheet (SDS) available on www.msds-sys.net

CONDITIONING	Item code
20 kg Bag in box	P0007913
250 kg drum	P0007914
1,000 kg jerrican	P0007915

BWT NET SANIT+

SHOCK TREATMENT DISINFECTANT

APPLICATION

BWT NET SANIT+ is a disinfectant alkaline solution based on sodium hypochlorite (bleach), authorised as a disinfectant for potable water for human and animal consumption (TP 5). It is not recommended for stainless steel.

BWT NET SANIT+ is generally used for preventive or curative shock disinfection of circuits for human consumption (cold water and domestic hot water).

It is a powerful quick acting biocide oxidiser.

ADVANTAGES

- Product highly concentrated in active matter, reducing quantities used and treatment costs
- Product authorised for the disinfection of potable water (TP5) and surfaces in contact with food (TP 4)
- Compliant with French circulars of 28 March 2000 and 7 May 1990 covering products and processes for water for human consumption
- Biocide active material recommended by French circular DGS n°2002/243 of 22 April 2002 covering the fight against and prevention of legionella risks in sanitary water circuits
- Proven effectiveness against legionella

HANDLING - STORAGE - SAFETY

Basic and oxidising product.

Consequently, the customary precautions must be taken when handling (gloves, protective eye wear, clothing, etc.).

If in eyes, wash with plenty of water. Store in its original, hermetically sealed packaging in a dry, ventilated area, sheltered from frost (temperature > 4°C) and acids.

For more information about precautions for use, product related hazards, protection equipment required to handle the product and product toxicology, please refer to the Safety Data Sheet (SDS) available on www.msds-sys.net

SPECIFICATIONS

- **Appearance:** yellow to green liquid, stinging smell
- **Packaging:** 1 kg or 5 kg bottle, 20 kg jerrican
- **pure product pH :** > 11
- **Density:** 1.20 +/- 0.05
- **Solubility in water:** complete
- **Concentration of active chlorine:** > 12%

USE

Dosage

As preventive treatment, or in the context of disinfection before commissioning of an installation, its dosage is between 0.1 and 1 litre per m³ for minimum contact times of 1 to 2 hours.

For curative sanitary disinfection, the dose used is to be adapted to the required contact time (contact us).

Controls

During disinfection: measurement of free chlorine content and total chlorine content at outlets.

On completion of the disinfection: bacteriological analysis.

CONDITIONING	Item code
1 kg bottle	P0007650
5 kg bottle	P0007651
20 kg Jerrican	P0007652

BWT NET SANIT INOX

DISINFECTANT FOR SHOCK TREATMENTS
IN THE PRESENCE OF STAINLESS STEEL

APPLICATION

BWT NET SANIT INOX is a disinfectant alkaline solution based on hydrogen peroxide, authorised as a disinfectant for potable water for human and animal consumption (TP 5) and for surfaces in contact with food (TP4).

BWT NET SANIT INOX is generally used for preventive or curative shock disinfection of circuits for human consumption (cold water and domestic hot water) containing stainless steel, in order to replace chlorinated disinfectants that are corrosive on this metal. It is a powerful quick acting biocide oxidiser.

SPECIFICATIONS

- **Appearance:** clear liquid
- **Packaging:** 5 kg and 20 kg jerricans
- **pure product pH :** 2.5 +/- 0.5
- **Density:** 1.00 +/- 0.02
- **Solubility in water:** complete

USE

Dosage

As preventive treatment, its dosage is between 1 and 3 L per m³ for minimum contact times of 1 to 2 hours.

For curative sanitary disinfection, the dose used is to be adapted to the required contact time (contact us).

Controls

During disinfection: measurement of peroxide content at outlets.

On completion of the disinfection: bacteriological analysis.

ADVANTAGES

- Product concentrated in active matter, reducing quantities used and treatment costs
- Product authorised for the disinfection of potable water (TP5) and surfaces in contact with food (TP 4)
- Compliant with French circulars of 28 March 2000 and 7 May 1990 covering products and processes for water for human consumption
- Biocide active material recommended by French circular DGS n°2002/243 of 22 April 2002 covering the fight against and protection of legionella risks in sanitary water circuits
- Proven effectiveness against legionella
- Proven effectiveness on biofilm

HANDLING - STORAGE - SAFETY

Acid and oxidising product.

Consequently, the customary precautions must be taken when handling (gloves, protective eye wear, clothing, etc.).

If in eyes, wash with plenty of water. Store in its original, hermetically sealed packaging in a dry, ventilated area, sheltered from frost (temperature > 4°C).

For more information about precautions for use, product related hazards, protection equipment required to handle the product and product toxicology, please refer to the Safety Data Sheet (SDS) available on www.msds-sys.net

CONDITIONING	Item code
5 kg Jerrican	P0007653
20 kg jerrican	P0007654

NOTES

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WHY RECOMMEND BWT SERVICES?

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

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



SERVICES

→ By accompanying you, BWT

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

- BWT SERVICES **60**
- BWT CONTRACTS AND COMMISSIONING **61**
- ANALYSIS SERVICES **62**
- DOMESTIC HOT WATER DISINFECTION SERVICES **63**

BWT SERVICES

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

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



BWT CONTRACTS AND COMMISSIONING

BWT SERVICE CONTRACTS

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

→ Get in touch with your BWT sales contact

COMMISSIONING YOUR INSTALLATION

A BWT technician will travel to:

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

2016 FIXED PRICE COMMISSIONING

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

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

→ A team of professionals for adapted services

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

For duplex appliances (except BWT ECOBIO), apply the following formula:
(2 x Fixed price) -100
The prices given above may be increased depending on the working conditions (access - work site specifics, etc.)
Applicable on 1st January 2016
Code P00MESCT

ANALYSIS SERVICES



The BWT integrated laboratory in St Denis:

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

BWT laboratory services:

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

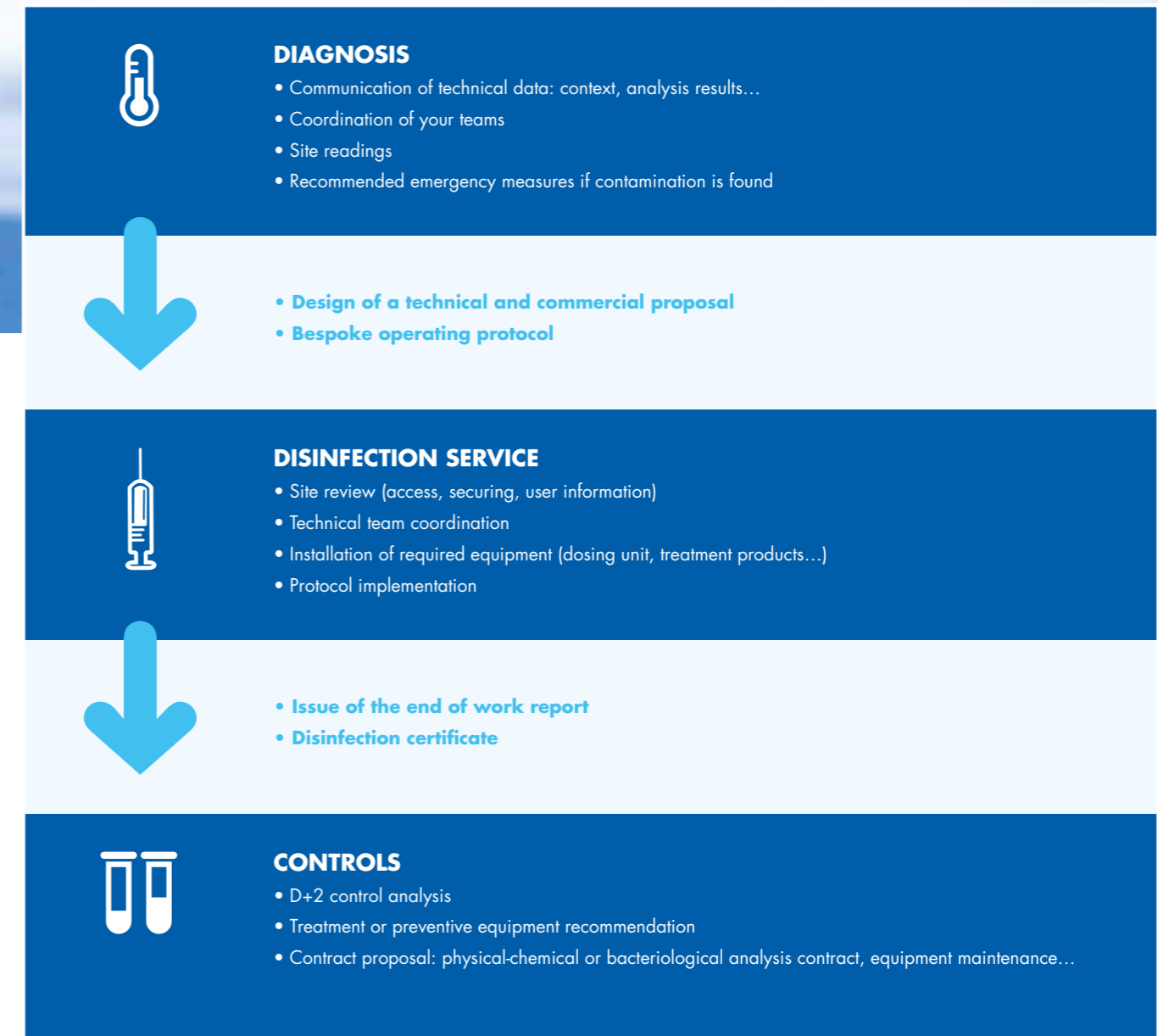
BWT ANALYSIS SERVICES

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

DOMESTIC HOT WATER DISINFECTION SERVICES

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

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



NOTES

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NOTES

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1. GENERAL

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

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

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

2. CONTRACT FORMATION

2.1 - Placing an order

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

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

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

2.2 - Modifications to contract

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

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

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

2.3 - Cancellation

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

3. CHARACTERISTICS AND STATUS OF ORDERED PRODUCTS

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

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

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

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

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

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

5. DELIVERY, CARRIAGE, VERIFICATION OF PRODUCTS

5.1 - Delivery terms and conditions

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

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

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

5.2 - Delivery deadlines

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

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

5.3 - Carriage – customs clearance - insurance

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

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

6. CASE OF FORCE MAJEURE

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

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

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

7 - PRICING

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

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

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

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

8. PAYMENT

8.1 - Methods of payment

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

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

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

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

8.2 - Late payment

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

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

8.3 - Payment compensation

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

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

8.4 - Reservation of title - Risk transfer

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

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

9. WARRANTY AND LIABILITY

9.1 - Warranty

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

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

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

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

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

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

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

9.2 - Limits to Supplier liability

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

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

10. INSURANCE

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

11. DISPUTE

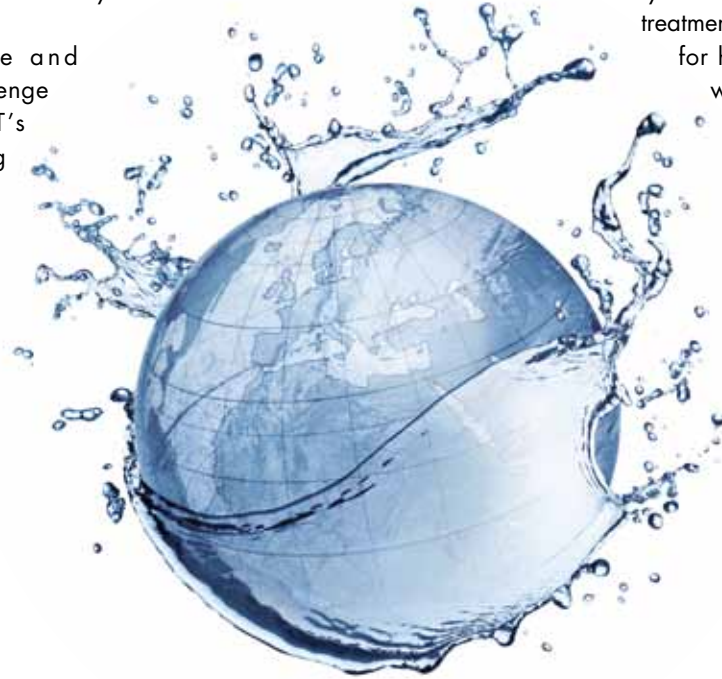
The parties undertake to attempt to settle their differences out of court before referring to the competent court.

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

BWT — The group

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

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



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

Within BWT, Research and Development teams continuously work on new concepts, with the prime objective of offering our clients solutions that are both ecological and economic. Energy consumption and CO₂ emission control is at the core of the BWT mission, and we must further guarantee maximum hygiene and safety for people's daily contacts with water. This is why BWT has multiplied innovations in the treatment of climatic systems circuits, water for human consumption and process water.

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



For You and Planet Blue.

Your sales contact: