CLIMATIC SYSTEMS

• HEATING
• COOLING SYSTEMS
• CLOSED CIRCUITS
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

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.
BWT, THE EUROPEAN LEADER IN WATER TREATMENT

BWT, ALL THE WATER TREATMENT SOLUTIONS

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

▶ A wide range of solutions

THE STRENGTH OF A MANUFACTURER

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 ATEx issued by CSTBat for all metal heating services including aluminium.

HEADQUARTERS
SAINT-DENIS (93)

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

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A LOCAL NETWORK

BWT BY YOUR SIDE EVERY DAY

• 580 employees
• 7 Regional departments

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

• A sales department:
  - design and commercial proposals, field assistance and sales assistance.

• A client department:
  - order entry and tracking, product availability, lead times, delivery tracking.

• A technical department:
  - technical assistance, repairs, commissioning, servicing and maintenance.

BWT SERVICES AND TRAINING

➜ PROFESSIONAL TRAINING

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

• water treatment training: water chemistry and analysis, issues and disorders encountered, changes in standards, sizing notions, etc.

• equipment related technical training: understanding how installations work and how to choose the right equipment, optimise operations and maintenance, avoid stoppages, etc.

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

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

➜ THE BWT INSTALLERS CLUB

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

• Sales assistance tools and goodies
• Special offers
• Gifts

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

➜ 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

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   Tel.: 02 47 74 74 30
   bwtc-centre@bwt.fr

2b. BWT CENTRE OUEST
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   ZA des 3 Prés
   35890 Laillé
   Tel.: 02 23 61 48 30
   bwtc-centre@bwt.fr

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   Tel.: 03 88 62 54 90
   bwtnord@bwt.fr

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   Tel.: 03 83 67 61 89
   bwtnord-est@bwt.fr

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   bwtnord-normandie@bwt.fr

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   57700 Meudonville
   Tel.: 02 31 44 32 78
   bwtnord-normandie@bwt.fr

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   Tel.: 04 42 66 75 80
   bwtmmediterranee@bwt.fr

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93206 Saint-Denis Cedex
Tel.: +33 (0) 1 49 22 46 55/86
bwteexport@bwt.fr

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

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SoluTECH TREATMENTS

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.

→ 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.

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 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

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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 multifunction 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 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, circulators 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

<table>
<thead>
<tr>
<th>NAME</th>
<th>SOFTENER AND PRE-FILTER</th>
<th>TREATMENTS</th>
<th>CLARIFIER FILTER</th>
<th>ITEM CODE</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>See pages 24 - 25</td>
<td>See pages 20 - 21</td>
<td>See pages 28 to 31</td>
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<table>
<thead>
<tr>
<th>CIRCUITS FROM 0 TO 450 KW</th>
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</thead>
<tbody>
<tr>
<td>SoluTECH PACK 0 - 450 kW</td>
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<tr>
<td>SoluTECH PACK 0 - 450 kW</td>
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<table>
<thead>
<tr>
<th>CIRCUITS FROM 450 TO 900 KW</th>
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<tr>
<td>SoluTECH PACK 450 - 900 kW</td>
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<td>SoluTECH PACK 450 - 900 kW</td>
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<table>
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<tr>
<th>CIRCUITS FROM 900 TO 1350 KW</th>
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<tr>
<td>SoluTECH PACK 900 - 1350 kW</td>
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<td>SoluTECH PACK 900 - 1350 kW</td>
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</tbody>
</table>

<table>
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<tr>
<th>CIRCUITS FROM 1350 TO 1800 KW</th>
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<tbody>
<tr>
<td>SoluTECH PACK 1350 - 1800 kW</td>
</tr>
<tr>
<td>SoluTECH PACK 1350 - 1800 kW</td>
</tr>
</tbody>
</table>

**INSTALLATION RECOMMENDATIONS**

**THE CERTIFIED SoluTECH FOR COMMERCIAL MARKET PROCESS**

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

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

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**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

**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.

**ACTION**

Single and complete preventive product for:

- Scale
- Corrosion
- Sludge

**CARE**

The product remains effective over time: if there are no top ups to the circuit (or for topups < 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.

**COMPLEMENTS AND ACCESSORIES**

- **SoluTECH INJECTION**
  - Connector for clean and practical poung of the product into the installation
  
- **SoluTECH CONTROL**
  - SoluTECH content checking kit (preventive product)
  
- **SoluTECH ANALYSIS**
  - Complete water analyses:
    - 3 steps: sludge, degasser with quick air exchange
    - 14 control parameters
    - Response time: 3 weeks

- **SoluTECH AIR AND SLUDGE EXTRACTION**
  - 4-in-1 filter: sludge filter, magnetic trap for magnetisable sludge, degasser with quick air exchange, compartment for treatment products

**CONDITIONING**

<table>
<thead>
<tr>
<th>Item code</th>
<th>Description</th>
<th>Retail price ex. VAT**</th>
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</thead>
<tbody>
<tr>
<td>C0007473A</td>
<td>500 ml jerrican (sold per dozen)</td>
<td>45.00 € / jerrican</td>
</tr>
<tr>
<td>C0007468</td>
<td>10 l jerrican</td>
<td>48.00 € / l</td>
</tr>
</tbody>
</table>

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**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

**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.

**ACTION**

Single and complete product for:

- Scale
- Corrosion
- Sludge
- Organic deposits (algae and bacteria)

**CARE**

The product remains effective over time: if there are no top ups to the circuit (or for topups < 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.

**COMPLEMENTS AND ACCESSORIES**

- **SoluTECH INJECTION**
  - Connector for clean and practical poung of the product into the installation

- **SoluTECH CONTROL**
  - SoluTECH content checking kit (preventive product)

- **SoluTECH ANALYSIS**
  - Complete water analyses:
    - 3 steps: sludge, degasser with quick air exchange
    - 14 control parameters
    - Response time: 3 weeks

- **SoluTECH AIR AND SLUDGE EXTRACTION**
  - 4-in-1 filter: sludge filter, magnetic trap for magnetisable sludge, degasser with quick air exchange, compartment for treatment products

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<tr>
<td>C0007470A</td>
<td>500 ml jerrican sold per dozen</td>
<td>48.00 € / jerrican</td>
</tr>
<tr>
<td>C0007470A</td>
<td>10 l jerrican</td>
<td>54.80 € / l</td>
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**SoluTECH TREATMENTS**

**SoluTECH DESLUDGING**

**MULTI-ACTION CURATIVE TREATMENT FOR HEATING 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 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 equipment and maintains its yield and your energy savings)
- 1 soluTECH Air And

**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 (100 l)

**COMPLEMENTS AND ACCESSORIES**

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<td>Connector for clean and practical pouring of the product into the installation</td>
<td>C0007410</td>
<td>65.00 €</td>
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<tr>
<td>SoluTECH ANALYSIS</td>
<td>Complete water analyses: postage paid kit</td>
<td>C0007473A</td>
<td>41.00 € / Jerrican</td>
</tr>
<tr>
<td>1 soluTECH Air AND</td>
<td>**</td>
<td>**</td>
<td></td>
</tr>
<tr>
<td>Total Prevention Pack</td>
<td>SLUDGE EXTRACTION degassing sludge removal with a heat insulated magnetic trap + 1 tron of soluTECH UNDERFOOT HEATING</td>
<td>C0020923A</td>
<td>267.00 €</td>
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<tr>
<td>SoluTECH EASYFLOW by Crowflex</td>
<td>Mobile sludge removal and washing pump</td>
<td>C0000753A</td>
<td>1520.00 €</td>
</tr>
</tbody>
</table>

* New, with all SoluTECH treatments.

**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
- microleaks and seepages
- 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.

**COMPLEMENTS AND ACCESSORIES**

<table>
<thead>
<tr>
<th>NAME</th>
<th>DESCRIPTION</th>
<th>Item code</th>
<th>Retail price ex. VAT***</th>
</tr>
</thead>
<tbody>
<tr>
<td>SoluTECH INJECTION</td>
<td>Connector for clean and practical pouring of the product into the installation</td>
<td>C0011717</td>
<td>18.30 €</td>
</tr>
<tr>
<td>SoluTECH ANALYSIS</td>
<td>Complete water analyses: postage paid kit</td>
<td>C0007473A</td>
<td>41.00 € / Jerrican</td>
</tr>
<tr>
<td>1 soluTECH Air AND</td>
<td>**</td>
<td>**</td>
<td></td>
</tr>
<tr>
<td>SoluTECH DESLUDGING</td>
<td>Mobile sludge removal and washing pump</td>
<td>C0000753A</td>
<td>1520.00 €</td>
</tr>
</tbody>
</table>

* Or 2 500 ml jerricans for 100 l of circuit (or a dwelling of about 100 m²)
** C 2 300 ml jerricans for 100 l of circuit (or a dwelling of about 100 m²)
***Prices valid in Metropolitan France unless changed: See general sales terms and conditions

---

**NEW ACTIVE OR DETERIORATED GLYCOLS**

**COMPATIBLE WITH ALL MATERIALS INCLUDING ALUMINIUM**

---

**SoluTECH INJECTION SoluTECH**

**SoluTECH leak Preventer**

**Curative treatment**

---

**SoluTECH ANALYSIS**

**SoluTECH inJeCtion**

---

**SoluTECH deSLudgINg**

---
SoluTECH ANALYSIS
SAMPLING AND ASSESSMENT KIT FOR DOMESTIC HEATING INSTALLATION WATER

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

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 installation)
- To diagnose problem services (identify scale deposits, corrosion or sludge, aggressive water, absence of protective treatment, etc.)

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

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

SoluTECH COMPATIBILITÉ³
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
**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

**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

**ACTION**

Single and complete preventive product for:

- Scale
- Corrosion
- Sludge
- Organic deposits (algae and bacteria)

**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.

**COMPONENTS AND ACCESSORIES**

<table>
<thead>
<tr>
<th>NAME</th>
<th>DESCRIPTION</th>
<th>ITEM CODE</th>
<th>RETAIL PRICE ex. VAT***</th>
</tr>
</thead>
<tbody>
<tr>
<td>SoluTECH CLEANING AND DESLUDGING</td>
<td>Multi-action treatment for community heating and cooling systems services</td>
<td>C0007462</td>
<td>30.00 € / L</td>
</tr>
<tr>
<td>SoluTECH TO/20 CLARIFIER UNIT</td>
<td>Complete, ready-to-connect magnetic sludge removal unit with float and microfilter</td>
<td>PK0003876</td>
<td>On request</td>
</tr>
<tr>
<td>SoluTECH CLEANING AND DESLUDGING</td>
<td>Compatibility test using 3 manufacturer recommendation parameters</td>
<td>C0011724</td>
<td>99.00 €</td>
</tr>
</tbody>
</table>

**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

**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.)

**ACTION**

Single and complete curative product to:

- Wash and remove sludge (sludge, scale, oxides)
- Disperse organic deposits (algae and bacteria)
- Clean deteriorated glycols

**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 10l / l m³

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

**COMPONENTS AND ACCESSORIES**

<table>
<thead>
<tr>
<th>NAME</th>
<th>DESCRIPTION</th>
<th>ITEM CODE</th>
<th>RETAIL PRICE ex. VAT***</th>
</tr>
</thead>
<tbody>
<tr>
<td>SoluTECH CLEANING AND DESLUDGING</td>
<td>Multi-action treatment for all HVAC circuits</td>
<td>C0007461</td>
<td>30.00 € / L</td>
</tr>
<tr>
<td>SoluTECH TO/20 CLARIFIER UNIT</td>
<td>Complete, ready-to-connect magnetic sludge removal unit with float and microfilter</td>
<td>PK0003879</td>
<td>On request</td>
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<tr>
<td>SoluTECH CLEANING AND DESLUDGING</td>
<td>Compatibility test using 3 manufacturer recommendation parameters</td>
<td>C0011725</td>
<td>99.00 €</td>
</tr>
</tbody>
</table>
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.

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.

SoluTECH EQUIPMENT

→ Treating the HVAC circuit water guarantees the output of private or community installations.

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

- ideal for individual housing
- ideal for community facilities

<table>
<thead>
<tr>
<th>Equipment</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>BWT 5000 SC</td>
<td>24</td>
</tr>
<tr>
<td>SoluTECH AIR AND SLUDGE EXTRACTION</td>
<td>26</td>
</tr>
<tr>
<td>CLARIFIER FILTERS SoluTECH</td>
<td>28</td>
</tr>
<tr>
<td>CLARIFIER UNITS SoluTECH</td>
<td>30</td>
</tr>
<tr>
<td>SoluTECH CONDENSATE</td>
<td>32</td>
</tr>
<tr>
<td>SoluTECH EASYFLOW by Grundfos</td>
<td>34</td>
</tr>
<tr>
<td>SoluTECH DOMESTIC HOT WATER EXCHANGER</td>
<td>36</td>
</tr>
</tbody>
</table>
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, 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

<table>
<thead>
<tr>
<th>TYPE</th>
<th>5010 SC</th>
<th>5016 SC</th>
<th>5028 SC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resin volume</td>
<td>L</td>
<td>10</td>
<td>16</td>
</tr>
<tr>
<td>Exchange capacity</td>
<td>°F/m³</td>
<td>31</td>
<td>88</td>
</tr>
<tr>
<td>Coupling diameter</td>
<td>DN / inch</td>
<td>DN 25/1”</td>
<td>DN 25/1”</td>
</tr>
<tr>
<td>Flow rate at TH 0 °F</td>
<td>m³/h</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Flow rate at TH 10 °F</td>
<td>m³/h</td>
<td>2.3</td>
<td>3</td>
</tr>
<tr>
<td>Min/max. dynamic pressure</td>
<td>bars</td>
<td>1.5/7</td>
<td>1.5/7</td>
</tr>
<tr>
<td>Maximum water temperature</td>
<td>°C</td>
<td>35</td>
<td>35</td>
</tr>
<tr>
<td>First salt charge</td>
<td>kg</td>
<td>25</td>
<td>125</td>
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<tr>
<td>Salt tank autonomy</td>
<td>number of regens.</td>
<td>27</td>
<td>48</td>
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<tr>
<td>Load on the ground</td>
<td>kg</td>
<td>120</td>
<td>150</td>
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<tr>
<td>Item code</td>
<td></td>
<td>B005010SC25</td>
<td>B005016SC25</td>
</tr>
</tbody>
</table>

SIZE SPECIFICATIONS

| Softener length | mm | 330 | 570 | 570 |
| Softener height | mm | 650 | 1160 | 1160 |
| Depth | mm | 610 | 460 | 460 |

For raw water TH of 30 °F

Price list on request - See general sales terms and conditions

INSTALLATION RECOMMENDATIONS

SIMPLY CONNECT SOFTENERS
Simple, reliable and economic
• By-pass
• Hardness mixer
• Meter
• Sample-taking outlet

ACCESSORIES AND CONSUMABLES

<table>
<thead>
<tr>
<th>NAME</th>
<th>Item code</th>
</tr>
</thead>
<tbody>
<tr>
<td>BWT INFINITY automatic DN 25/1” filter</td>
<td>P0010076</td>
</tr>
<tr>
<td>BWT CRYSTAL DN 25/1” filter</td>
<td>P0003197</td>
</tr>
<tr>
<td>Resin chlorination kit (up to 125 L)</td>
<td>P0031587</td>
</tr>
<tr>
<td>AGA CLEAN 1</td>
<td>P0004895</td>
</tr>
<tr>
<td>(community softener maintenance kit from 50 to 150 L)</td>
<td>P0001920</td>
</tr>
<tr>
<td>DN 25/1” mixing valve</td>
<td>Q0815849</td>
</tr>
<tr>
<td>Low salt level sensor</td>
<td>Q0815849</td>
</tr>
</tbody>
</table>
**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**

<table>
<thead>
<tr>
<th>TYPE</th>
<th>SoluTECH AIR AND SLUDGE EXTRACTION</th>
<th>TOTAL PREVENTION PACK</th>
</tr>
</thead>
<tbody>
<tr>
<td>TECHNICAL SPECIFICATIONS</td>
<td>DN</td>
<td>DN 25</td>
</tr>
<tr>
<td>Coupling diameter</td>
<td>DN</td>
<td>DN 25</td>
</tr>
<tr>
<td>Rated flow</td>
<td>m³/h</td>
<td>3.6</td>
</tr>
<tr>
<td>Max service pressure</td>
<td>bars</td>
<td>10</td>
</tr>
<tr>
<td>Max water temperature</td>
<td>°C</td>
<td>90</td>
</tr>
<tr>
<td>Head loss</td>
<td>bars</td>
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<td>C0020923A</td>
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<td>Retail price ex. VAT</td>
<td>€</td>
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</tr>
</tbody>
</table>

**SIZE SPECIFICATIONS**

| 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.

---

*Prices valid in Metropolitan France unless changed: See general sales terms and conditions*
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 1.5 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

<table>
<thead>
<tr>
<th>TYPE</th>
<th>5/9</th>
<th>10/20</th>
<th>21/50</th>
<th>80</th>
<th>120</th>
<th>160</th>
<th>220</th>
<th>320</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coupling diameter</td>
<td>DN9</td>
<td>DN32</td>
<td>DN50</td>
<td>DN80</td>
<td>DN100</td>
<td>DN150</td>
<td>DN200</td>
<td>DN250</td>
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<tr>
<td>Rated flow</td>
<td>m³/h</td>
<td>9</td>
<td>20</td>
<td>50</td>
<td>80</td>
<td>120</td>
<td>160</td>
<td>220</td>
</tr>
<tr>
<td>Filtration grade</td>
<td>microns</td>
<td>25</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td>Max service pressure</td>
<td>bars</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
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<tr>
<td>Max/min water temperature</td>
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<td>85</td>
<td>85</td>
<td>85</td>
<td>85</td>
<td>85</td>
<td>85</td>
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</tr>
<tr>
<td>Number of bags</td>
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<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
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</tr>
<tr>
<td>Steel version item code</td>
<td>P0003657</td>
<td>P0003859</td>
<td>P0003652</td>
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<td>P0003654</td>
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<tr>
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<td>P0069201</td>
<td>P0069207</td>
<td>P0069203</td>
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<td>P0003658</td>
<td>P0003659</td>
<td>P0003660</td>
<td>P0003661</td>
</tr>
</tbody>
</table>

SIZE SPECIFICATIONS

| Width (mm) | 200 | 290 | 290 | 700 | 800 | 900 | 1000 | 1100 |
| Min height (mm) | 590 | 730 | 1225 | 1410 | 1630 | 1700 | 1780 | 2020 |

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

INSTALLATION RECOMMENDATIONS

- inlet for water to be treated (about 20% of the loop return flow)
- Circulator (not included)
- Filter purge drainage
- Filtered water outlet

ACCESSORIES AND CONSUMABLES

<table>
<thead>
<tr>
<th>Item code</th>
<th>25 micron bag for 5/9 and XS filter</th>
<th>P0069203</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>O-ring for STAINLESS STEEL 5/9 and XS filter</td>
<td>P0069202</td>
</tr>
<tr>
<td></td>
<td>50 micron polypropylene bag for 10/20 filter</td>
<td>P0003650</td>
</tr>
<tr>
<td></td>
<td>O-ring for STEEL 10/20 - 21/50 filter</td>
<td>P0078957</td>
</tr>
<tr>
<td></td>
<td>50 micron polypropylene bag for 21/50 filter and up to 320 filter</td>
<td>P0003890</td>
</tr>
</tbody>
</table>

* This product is part of our complete SoluTECH for commercial market treatment solution which has an AEC 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 20% 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

ACCESSORIES AND CONSUMABLES

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>P0003884</td>
<td>25 micron bag for 5/9 XS unit</td>
</tr>
<tr>
<td>P0069202</td>
<td>O-ring for stainless steel 5/9 and XS unit</td>
</tr>
<tr>
<td>P0003846</td>
<td>50 micron polypropylene bag for 5/9 unit</td>
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<tr>
<td>P0069203</td>
<td>O-ring for steel 5/9 unit</td>
</tr>
<tr>
<td>P0003850</td>
<td>50 micron polypropylene bag for 10/20 unit</td>
</tr>
<tr>
<td>P0003890</td>
<td>O-ring for stainless steel 10/20 and 21/50 unit</td>
</tr>
<tr>
<td>P0003891</td>
<td>O-ring for steel 10/20 and XS unit</td>
</tr>
<tr>
<td>P0078956</td>
<td>50 micron polypropylene bag for 21/50 unit and 80 to 320 unit</td>
</tr>
</tbody>
</table>

Flow rate: 0 to 50 m³/h

INSTALLATION RECOMMENDATIONS

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

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 condensate in liquid form: the “condensates”. Their composition is markedly acid (pH between 2.5 and 3 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

-> 3 models depending on the power

Flow: 10 to 60 L/h

TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Type</th>
<th>SoluTECH CONDENSATE MINI</th>
<th>SoluTECH CONDENSATE +</th>
<th>SoluTECH CONDENSATE SOL Up to 350 kW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coupling diameter</td>
<td>inches</td>
<td>3/4”</td>
<td>8 to 30 mm</td>
</tr>
<tr>
<td>Rated flow</td>
<td>L/h</td>
<td>10</td>
<td>60</td>
</tr>
<tr>
<td>Max boiler power</td>
<td>kW</td>
<td>25</td>
<td>200</td>
</tr>
<tr>
<td>Service pressure</td>
<td>bars</td>
<td>Atmos. p</td>
<td>Atmos. p</td>
</tr>
<tr>
<td>Min/max water temperature</td>
<td>°C</td>
<td>5/40</td>
<td>5/60</td>
</tr>
<tr>
<td>Item code</td>
<td></td>
<td>C0011721</td>
<td>C0011716A</td>
</tr>
<tr>
<td>Retail price ex. VAT*</td>
<td>€ (sold per dozen)</td>
<td>36.00</td>
<td>86.00</td>
</tr>
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</table>

SIZE SPECIFICATIONS

<table>
<thead>
<tr>
<th></th>
<th>Length</th>
<th>Total Height</th>
<th>Width</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>mm</td>
<td></td>
<td>mm</td>
</tr>
<tr>
<td>Mini</td>
<td></td>
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<td>195</td>
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<tr>
<td>+</td>
<td></td>
<td>140</td>
<td>260</td>
</tr>
<tr>
<td>SOL</td>
<td></td>
<td>140</td>
<td>170</td>
</tr>
</tbody>
</table>

INSTALLATION RECOMMENDATIONS

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 tubes for connection to the drains
  - 1 wall mounting kit

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.

FOCUS
SoluTECH CONDENSATE +
Gravitational drainage of the boiler’s acid condensates (inlet)

ACCESSORIES AND CONSUMABLES

<table>
<thead>
<tr>
<th>Item code</th>
<th>Rated price ex. VAT*</th>
</tr>
</thead>
<tbody>
<tr>
<td>P0048380</td>
<td>33.76 €</td>
</tr>
<tr>
<td>C0003900</td>
<td>111.00 €</td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>TYPE</th>
<th>SoluTECH EASYFLOW by Grundfos</th>
</tr>
</thead>
<tbody>
<tr>
<td>TECHNICAL SPECIFICATIONS</td>
<td></td>
</tr>
<tr>
<td>Rated flow: m³/h</td>
<td>4 m³/h or 0.8 bar - 1 m³/h or 1.5 bar</td>
</tr>
<tr>
<td>Max TDK or min flow</td>
<td>m³E</td>
</tr>
<tr>
<td>Protection index</td>
<td>IP54</td>
</tr>
<tr>
<td>Min/max water temperature</td>
<td>°C</td>
</tr>
<tr>
<td>Connection pipes</td>
<td>15 m for tap water @ 12.5 mm - 25 m for the drains @ 19 mm</td>
</tr>
<tr>
<td>Item code</td>
<td>CY900075A</td>
</tr>
<tr>
<td>Retail price excl. VAT*</td>
<td>1,350.00 €</td>
</tr>
</tbody>
</table>

| SPECIFICATIONS |
|---|---|
| Length | mm |
| Total height | mm |
| Width | mm |

ACCESSORIES AND CONSUMABLES

<table>
<thead>
<tr>
<th>Product</th>
<th>Item code</th>
<th>Retail price excl. VAT*</th>
</tr>
</thead>
<tbody>
<tr>
<td>SoluTECH DESLUDGING 500 ml jerrican, sold per 12</td>
<td>CD007472A</td>
<td>41.00 € / Jer- rican</td>
</tr>
<tr>
<td>SoluTECH DESLUDGING 10 L jerrican</td>
<td>CD007474</td>
<td>46.60 € / L</td>
</tr>
<tr>
<td>SoluTECH PROTECTION 500 ml jerrican, sold per 12</td>
<td>CD007473A</td>
<td>45.00 € / Jer- rican</td>
</tr>
<tr>
<td>SoluTECH PROTECTION 10 L jerrican</td>
<td>CD007475</td>
<td>50.70 € / L</td>
</tr>
<tr>
<td>SoluTECH UNDERGROUND HEATING 500 ml jerrican, sold per 12</td>
<td>CD007470A</td>
<td>48.00 € / Jer- rican</td>
</tr>
<tr>
<td>SoluTECH UNDERGROUND HEATING 10 L jerrican</td>
<td>CD007468</td>
<td>54.80 € / L</td>
</tr>
<tr>
<td>SoluTECH CONTROL</td>
<td>CD011732</td>
<td>66.00 €</td>
</tr>
<tr>
<td>SoluTECH AIR AND SLUDGE EXTRAC- TION</td>
<td>CD20911A</td>
<td>256.50 €</td>
</tr>
</tbody>
</table>

OPERATION
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. Refill 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
- add the SoluTECH DESLUDGING product to 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

Step n°6
Preventive treatment of the installation
Fill 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

PERFORMANCE CURVE

ACCESSIBILITY
This add- on information is included in this layout. Do not print this additional section.
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). 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 Ø 15 mm and 2 x Ø 16 mm.

FLOW RATE: 1.6 m³/h

TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>TYPE</th>
<th>SoluTECH HOT SANITARY EXCHANGER</th>
</tr>
</thead>
<tbody>
<tr>
<td>TECHNICAL SPECIFICATIONS</td>
<td></td>
</tr>
<tr>
<td>Max flow m³/h</td>
<td>1.6</td>
</tr>
<tr>
<td>Maximum pressure bars</td>
<td>10</td>
</tr>
<tr>
<td>Max water temperature °C</td>
<td>75</td>
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<tr>
<td>Item code</td>
<td>00902036</td>
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<tr>
<td>Retail price ex. VAT*</td>
<td>122.50 €</td>
</tr>
</tbody>
</table>

SIZE SPECIFICATIONS

| Diameter mm | 22 |
| Length excluding connectors mm | 270 |
| Total length mm | 335 |

OPERATING PRINCIPLE

INSTALLATION RECOMMENDATIONS

Note: for very high TH values or for micro-exchangers for instant domestic hot water production, softening remains the recommended solution.
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.

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.

- FOCUS ON BAG IN BOX 40
- DOSING UNIT 42
- Line 44
- AQUASIL 45
- BWT FILM105 46
- BWT DW-3002 47
- BWT SH-1005 48
- BWT CC-1002 49
- BWT GLYCOL N+ 50
- BWT GLYCOL SANIT+ 51
- BWT CP-4001 52
- BWT NET CAL+ 53
- BWT NET NEUTRA+ 54
- BWT NET SANIT+ 55
- BWT NET SANIT INOX 56
**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-fl at 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

**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.)

**A COLOUR CODE TO SIMPLIFY WATER CONDITIONING**

EASY → identifies the product’s application.
SAFE → simplifies compliance with storage instructions.
CLEAR → labels are more legible and have multi-language instructions.

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
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
- intrusion 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

<table>
<thead>
<tr>
<th>Type</th>
<th>Dosing flow l/h</th>
<th>Discharge counter-pressure bars</th>
<th>Injection cadence shots/minute</th>
<th>Volume per shot</th>
<th>4-20 mA input</th>
<th>BMS information</th>
<th>Item code</th>
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</thead>
<tbody>
<tr>
<td>Type</td>
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<td>7</td>
<td>180</td>
<td>0.66</td>
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<td>yes</td>
<td>PK0027131</td>
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<tr>
<td>Metric 60</td>
<td>0.075 to 60</td>
<td>10</td>
<td>120</td>
<td>3.80</td>
<td>yes</td>
<td>yes</td>
<td>PK0002804</td>
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</tbody>
</table>

INSTALLATION RECOMMENDATIONS

SUPPLEMENTS TO THE LINE: COLD WATER METERS

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

<table>
<thead>
<tr>
<th>Name</th>
<th>Item code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Containment tank for jerrycans</td>
<td>P0028021</td>
</tr>
<tr>
<td>60 l / 140 l containment tank</td>
<td>P0028011</td>
</tr>
<tr>
<td>2 drum containment pallet 1300 x 700 x 645 mm - W 22 kg - 800 kg load</td>
<td>P09730664</td>
</tr>
<tr>
<td>IBC XL 1050 l containment</td>
<td>P0973267</td>
</tr>
<tr>
<td>Hot water injection pipe</td>
<td>P0028033</td>
</tr>
</tbody>
</table>

ACCESSORIES AND CONSUMABLES

<table>
<thead>
<tr>
<th>Name</th>
<th>Item code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Containment tank for jerrycans</td>
<td>P0028021</td>
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<td>P0973267</td>
</tr>
<tr>
<td>Hot water injection pipe</td>
<td>P0028033</td>
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</tbody>
</table>
WATER CONDITIONING

LINE

SANITARY WATER (p. 45)

<table>
<thead>
<tr>
<th>PRODUCTS</th>
<th>Hardness</th>
<th>Anti-scale</th>
<th>Corrosion</th>
<th>Disinfection</th>
</tr>
</thead>
<tbody>
<tr>
<td>AQUASIL</td>
<td>10 - 45</td>
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<tr>
<td>BWT SH-1005</td>
<td>0 - 20</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>BWT DW-3002</td>
<td>N.A.</td>
<td></td>
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HEATING AND COOLING SYSTEMS (p. 48)

<table>
<thead>
<tr>
<th>APPLICATIONS</th>
<th>Dispensant</th>
<th>Anti-scale</th>
<th>Corrosion</th>
</tr>
</thead>
<tbody>
<tr>
<td>BWT SH-1005</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BWT CC-1002</td>
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</table>

ANTIFREEZE

<table>
<thead>
<tr>
<th>APPLICATIONS</th>
<th>Protection - 25 °C</th>
<th>Corrosion</th>
</tr>
</thead>
<tbody>
<tr>
<td>BWT Glycol N+</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BWT Glycol SANIT+</td>
<td></td>
<td></td>
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</tbody>
</table>

HEATING AND COOLING SYSTEMS (p. 52)

<table>
<thead>
<tr>
<th>SCALE REMOVAL / CORROSION</th>
<th>Compatibility</th>
<th>Dispersant</th>
<th>Scale removal</th>
<th>Corrosion protection</th>
<th>Neutraliser</th>
<th>Cleaning food grade surfaces</th>
<th>Disinfectant</th>
</tr>
</thead>
<tbody>
<tr>
<td>BWT CP-4001</td>
<td>Steel, Copper</td>
<td>x</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BWT NET CAL+</td>
<td>Steel, Copper</td>
<td>x</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BWT NET NEUTRA+</td>
<td>Steel, Copper</td>
<td>x</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BWT NET SANIT+</td>
<td>Steel, Copper</td>
<td>x</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BWT NET SANIT INOX</td>
<td>Steel, Copper</td>
<td>x</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

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
- 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 - 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 (p. 44)

specific treatment

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

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.

Controls
Measurement of treated water phosphates and silica content. Monitoring of total iron content.

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.carl.fr web site
- BWT is the holder of the FILM105 process technical approval

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).

ADVANTAGES
- Algaecide, bactericide and fungicide function
- Using a unique compound
- Proven effectiveness against legionella
- Simplified use thanks to its liquid formula
- Bicidal active material recommended by French circular DG5 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

<table>
<thead>
<tr>
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<td>Jerrican (1,000 kg)</td>
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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)

HANDBLING - 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

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 GlyColen N+ or SANT+N+

HANDBLING - 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

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<td>200 Kg drum</td>
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<td>1,000 kg jerrican</td>
<td>80007299</td>
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**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.

**SPECIFICATIONS**
- Appearance: red liquid
- Packaging: 20 kg bag in box, 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.

**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.

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

**APPLICATION**

**BWt glyCol SANIT+**

**ALL PURPOSE ANTI-FREEZE FOR CLOSED CIRCUITS**

**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.

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 bag in box, 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.

**BWt glyCol SANIT+**

**CONCENTRATION VOLUME (%)**

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<thead>
<tr>
<th>BWt glyCol SANIT+</th>
<th>15%</th>
<th>20%</th>
<th>25%</th>
<th>30%</th>
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**BWt glyCol SANIT+**

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<td>-18°C</td>
<td>-23°C</td>
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<td>-34°C</td>
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BWT CP-4001
CURATIVE SLUDGE TREATMENT FOR HEATING CIRCUITS

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.

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.

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.

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

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.

bwt net neutra+

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BWT NET CAL+
SCALE REMOVER AND MULTI-METAL DE-OXIDISER

ADDITIONS
- 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

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BWT NET CAL+
SCALE REMOVER AND MULTI-METAL DE-OXIDISER

APPLICATION

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bwt net neutra+

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bwt net neutra+

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**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 Solotech Easyflow by Grundfos.

It is used diluted to 2% (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. 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

**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

**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 3).

It 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.

**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 (consult us).

**Controls**

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

On completion of the disinfection: bacteriological analysis.

**ADVANTAGES**

- Product highly concentrated in active matter, reducing quantities used and treatment costs
- Product authorised for the disinfection of potable water (TP 3) 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

<table>
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<th><strong>CONDITIONING</strong></th>
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<td>1,000 kg jerrican</td>
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</table>
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 (TP 4).

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.

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

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.

<table>
<thead>
<tr>
<th>Conditioning</th>
<th>Item Code</th>
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<tr>
<td>20 kg Jerrican</td>
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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.

By accompanying you, BWT provides you with advice, safety and the guarantees you need for your water treatment issues and installations.
By your side, our BWt engineers and technicians accompany you in all the phases of your project to bring you:

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

→ A team of professionals for adapted services

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

BWt service contracts 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

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

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

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

The prices given above may be increased depending on the working conditions (access, work site specifics, etc.)

**Applicable on 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

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

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

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

**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.

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

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

**Controls**
- D+2 control analysis
- Treatment or preventive equipment recommendation
- Contract proposal: physical-chemical or bacteriological analysis contract, equipment maintenance…
2016 GENERAL SALES TERMS AND CONDITIONS

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 deviation to the present general terms and conditions must be explicitly accepted by counterparty in writing.

1.3. Disputes, controversies, advertising material and prices not explicitly mentioned in the special terms and conditions are provided on a case-only and cost-free basis.

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. A confirmation of our offers or estimates by the customer implies their agreement with the present General Sales Terms and Conditions.

Any order or a total of less than 150 € excluding VAT will be invoiced by management administrative costs of the sum of 17 €. Excerpt where otherwise stipulated, offers and estimates remain valid for a period of one month from the date of their making.

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 case whatsoever the new terms and conditions for additional supplies to be produced are those of the main contract.

Any modifications of orders or contracts required by customers is subject to our explicit and prior agreement.

2.3. Cancellation

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

3. CHARACTERISTICS AND STATUS OF ORDERED PRODUCTS

Delivery products 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 of our design, 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. This is your supplier’s expense, the supplier of the product or part of its designation.

The customer is responsible for operating the product under the operating conditions set out in the specifications sheet and in compliance with correct safety and environment laws applicable at the site of operations and with acknowledged rules in technology in its activity. It is incumbent on the Customer to use a specification sheet appropriate to the 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 individual property rights in delivered products and in performed works, along with knowledge 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-basis. The delivery is made, either directly forwarding to the customer, by our stock of collection, for delivery in our plants or warehouses to a forwarding agent or carrier unless otherwise stated, supplies are considered to be delivered on an ex-works or ex-

5.2. Delivery deadlines

The agreed delivery deadline is an important item to be specified in the contract as well as the conditions under which it applies. In the event of a delivery delay, without recourse to a limitation, the latter shall bear the cost of and accept the lack of, the storage of the supplies in question if the deadline is not respected.

5.3. Carriage - carriage insurance

The customer is responsible for loading the cost of all carriage, insurance, customs clearance, handling and delivery expenses, and it is incumbent on them to check consignments on delivery. Any failure of the customer to undertake to do so shall constitute an unconditional waiver of any claim against the carrier.

6. CASES OF FORCE MAJEURE

Neither of the parties of the present contract can be held responsible for their employees or failure to perform any of the obligations under which they are bound with respect to the contract. It refers to events that fall outside the direct or indirect effect of any case of force majeure in the wider than that understood by French courts, such as:

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

- conflicts, war, terrorist attacks
- labour disputes, full or partial strike of the Supplier’s or Customer’s
- labour disputes, full or partial strike of suppliers, service providers, transporters, postal services, public services, etc.
- war 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 sent from our warehouse, except where special provisions are stipulated in the contract. They are invoiced according to the terms and conditions of the contract.

For exported orders our prices are quoted exworks Saint-Ouen.

Possible discounts are set in the special terms and conditions of sales specific to the market segment in question such as were not or will not be the result 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 as soon as the 50% of the following due amount of our invoice. In the case of delayed payment, only the settlement of the delayed payment at the agreed date constitutes payment, the mere handing over of a commercial paper or cheque does not do so. The payment by deliberate default of 30 % may be refused to the purchaser in the case of a major order. In the case of our invoice discount for anticipated payment, fixed to 0.5 % per month the amount of deductible VAT must be reduced by the sum of the VAT partnering to the discount.

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

8.2. Late payments

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 45 €
- when the debt collection costs incurred any greater than the indemnity amount, an additional indemnity on presentation of documentary proof.

8.3. Payment compensation

The Customer understands not to contest any legal assessments relating or deriving, not to request any amount that would not have been explicitly recognized by BWT France by way of liability.

Any ex-officio dispute will constitute an unwound account and shall give rise to the application of penalties in article 6.3 dealing with late payments. However, the parties reserve the right to have recourse to legal or contractual compensation for debt.

8.4. Rescission of title - Title transfer

We retain full ownership of all items forming the subject of the contract up to the effective payment of the full price plus any additional costs. Delays of payment or any of the scheduled payment delays may lead to a claim for those assets. Nevertheless, after 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 rescinding that clause, the advance payments that have already been paid will be returned 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 (excluding any fault that is operationally 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 on a design modified 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. The exchange of a product or part is free of charge for the Customer.

No exception will be made in the case of those assets along with the liability for damages they could result in.

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 benefit from this protection, the Customer must immediately inform us of the defect and the equipment to the extent possible, and provide all of the necessary documentary support to prove these claims. They must allow us all the data and information necessary to the analysis of the fault and to any claims that might arise from your explicit consent, from carrying out the repair themselves or having it carried out by a third party.

The warranty period ends with the date of delivery as defined in Article 5.2 above.

9.2. Limits to Supplier Liability

Our liability shall be limited to material damages 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 material or indirect damage such as operating losses, profit losses, opportunity losses, commercial harm, limb of earnings.

10. INSURANCE

Surety risk by explicit agreement is transferred to the Customer or delivery within as defined in article 10. If it is underwritten, then for 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. DISPUTES

The parties undertake to settle any differences out of court before referring to the competent courts.

Failure to settle 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 Belgorod courts, even on appeal and in the event of multiple defendants, and final award 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.