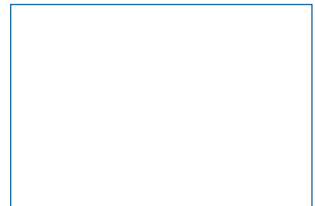




## Bewamat 10A

Simplex water softener

Subject to change without notice.



Thank you very much for the confidence that you have shown in us by purchasing a BWT device.



This manual applies only to the product(s) specified on the title page.

## Publication details

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This manual was created, reviewed and approved in German. If there are any discrepancies between the German edition of the manual and editions in other languages, the information in the German document should be given preference.

In the event of inconsistencies, contact our customer service; see chapter “11.2 Your contact at BWT”, page 25.

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## 1 Safety instructions

### 1.1 General safety instructions

The product was manufactured in accordance with generally accepted rules and standards of technology and complies with the legal regulations at the time it was placed on the market.

Nevertheless, there is still a risk of damage to persons or property if you do not follow this chapter and the safety instructions in this documentation.

- Read this documentation carefully and in its entirety before working with the product.
- This documentation must be kept accessible to all users at all times.
- Always hand over the product to third parties together with the full documentation.
- Follow all of the instructions in relation to the proper handling of the product.
- If you detect damage to the product or the mains supply, stop its operation and notify a service technician immediately.
- Use only accessories, spare parts and consumable materials that have been approved by BWT.
- Adhere to the environmental and operating conditions specified in the chapter "Technical data".
- Use your personal protective equipment. It ensures your safety and protects you from injury.
- Perform only tasks that are described in these operating instructions or that you have been trained to do by BWT.
- Perform all tasks in compliance with all applicable standards and provisions.
- Instruct the operator in the function and operation of the product.
- Inform the operator about the necessity of product maintenance.
- Inform the operator about potential dangers that may arise while operating the product.

### 1.2 Validity of this documentation

**This documentation applies exclusively to the specified product. See the label on the title page.**

This documentation is intended for operators, installers without training from the manufacturer, installers with training from the manufacturer (e.g. drinking water specialists), and service technicians.

This documentation contains important information for fitting the product safely and properly, starting up, operating, using, maintaining, and disassembling the product, and for correcting simple faults independently.

Read this documentation in full before working with the product. Pay particular attention to the chapter "Safety Instructions".

### 1.3 Personnel qualifications

The installation activities described in this manual require basic knowledge of mechanics, hydraulics and electricity, as well as knowledge of the associated technical terms.

To ensure safe installation, these activities may only be carried out by a specialist or a trained person under the guidance of a specialist.

A **qualified specialist** is someone who can assess the work assigned to him or her, identify potential risks, and take suitable safety measures thanks to his or her specialist training, knowledge, and experience as well as his or her knowledge of the applicable regulations. Specialists must comply with applicable, industry-specific regulations.

A **trained person** is someone who has been instructed by a qualified specialist in the tasks entrusted to them and the potential dangers of improper conduct and, if necessary, trained and instructed on the necessary protective equipment and protective measures.

### 1.4 Transport and installation

To avoid damage during transport to the installation location, do not remove the product from the packaging until you have reached the relevant location. Then dispose of the packaging in the correct manner. Check that the scope of delivery is complete. If there is a risk of frost, empty all water-carrying components.

Lift or transport the product or its components only from the designated suspension eyes or attachment points.

Install or mount the product on a sufficiently strong and level horizontal surface and adequately secure it against falling or tipping.

## 1.5 Symbols used

The following symbols in this documentation indicate specific sources of danger or important information:

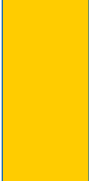
|                                                                                     |                                                                         |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
|    | General danger to persons, systems or the environment.                  |
|    | Danger caused by the mains voltage.<br>Risk of death by electric shock! |
|    | Instructions must be observed for safe operation.                       |
|    | Remove the mains plug.                                                  |
|    | Information that must be observed.                                      |
|    | The product must not be disposed of in household waste.                 |
|  | Recycle the product after decommissioning.                              |

## 1.6 Display of warnings

In this document, warnings precede any sequence of actions that could cause harm to persons or damage to property. All hazard prevention measures must be followed.

Warnings are displayed as follows:

|  <b>SIGNAL WORD!</b> |                                                                                                                                        |
|-------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
|                      | <b>Source of hazard</b><br>(e.g. electric shock)<br><i>Type of hazard (e.g. risk of fatal injury)!</i><br>► Ways to prevent the hazard |

| Signal word    | Colour                                                                              | Severity of the hazard                                                                                                                           |
|----------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>DANGER</b>  |    | <b>Hazard with a high degree of risk.</b><br>Indicates a hazardous situation which, if not avoided, will result in death or serious injury.      |
| <b>WARNING</b> |    | <b>Hazard with a moderate degree of risk.</b><br>Indicates a hazardous situation which, if not avoided, could result in death or serious injury. |
| <b>CAUTION</b> |   | <b>Hazard with a low degree of risk.</b><br>Indicates a hazardous situation which, if not avoided, may result in minor or moderate injury.       |
| <b>NOTE</b>    |  | <b>Warns of material damage</b> to the product and/or the environment.                                                                           |

## 1.7 Product-specific warning notes

|                                                                                                  |                                                                                                                                                                                                                                                                                                                                                     |
|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <b>DANGER!</b> |                                                                                                                                                                                                                                                                                                                                                     |
|                 | <b>Mains voltage!</b><br><i>Risk of death by electric shock!</i>                                                                                                                                                                                                                                                                                    |
|                                                                                                  | <ul style="list-style-type: none"> <li>▶ Do not connect the product to the mains before start-up.</li> <li>▶ Before carrying out any maintenance or repair work, disconnect the power plug.</li> <li>▶ If the product's power connection cable is damaged, it must be replaced with the original connection cable from the manufacturer.</li> </ul> |
|                 |                                                                                                                                                                                                                                                                                                                                                     |

Product-specific warnings can be found in the following chapters wherever a safety-related task must be carried out on the device.

## 1.8 Important notes on the product

|                                                                                   |                                                                                                                                                                                                                                                                                              |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>The product must be installed as described in the installation guide in compliance with the general requirements for the supply of water in Germany ("AVB Wasser") V, section 12.2 by a water supply company or by a party registered in the water supply company's index of fitters.</p> |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

In accordance with the German Drinking Water Ordinance, inform fellow occupants about the installation and functionality of the water softener as well as about the regenerative used.

### Using treated drinking water with plants and aquatic animals

Each species of plant and aquatic animal requires water that contains a special combination of substances. Users of the unit should therefore consult the subject literature and check that they can use retreated drinking water for watering plants or for filling ornamental lakes, aquaria or fishponds.

## Handing over the product to the operator

|                                                                                   |                                                                                                                                                            |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>If there are differences in time between installation/commissioning and handover to the operator, the softener column must be regenerated manually.</p> |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|

Inform the operator about the function, operation and maintenance of the product.

Hand over all instructions and further information relating to the product to the operator.

## 1.9 Definitions

**Inflow water:** Drinking water quality of the local water supplier. Depends on the region and is described using the degrees of hardness soft, medium or hard.

**Softened water:** Softened water, usually with water hardness of 0 – 9 °dH.

**Outlet water:** The water leaving the water softener.

**Blended water:** The product mixes (blends) fully softened soft water with inflow water to attain the desired outlet water.

**Flushing water:** The water fed into the drain channel via the flushing water hose.

**Ion exchange material:** Replaces Ca and Mg ions in water with Na ions.

**Regenerative:** Salt (NaCl) according to DIN EN 973 Type A, which is used to regenerate the water softener.

## Microbiological and sensory quality of the (partially) softened water

The quality of the treated water depends greatly on the conditions under which the product is installed and operated. The most important factors are listed in the following table.

|                                       | Unfavourable conditions                                                                                               | BWT recommendations                                      |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| Inflow water quality                  | Borderline inflow water quality, which can deteriorate further in the product                                         | Contact your installer.<br>Shorter maintenance intervals |
| Operating conditions                  | Long stagnation periods and infrequent regeneration                                                                   | Observe the notes in the operating instructions.         |
| Salt quality                          | Cheap regenerative with high proportions of insoluble components                                                      | Use regenerative in accordance with DIN EN 973 Type A.   |
| Installation situation and conditions | High ambient temperatures, e.g. near a heating unit<br>Drainage system for regeneration water incorrectly implemented | Observe the notes in the operating instructions.         |

When determining whether there is a problem with the sensory or microbiological quality of the treated water, it is important where in the system the quality is measured. For example, if the quality is measured at the tap, the water quality may be affected by the pipe material or by the presence of a water heater or hot water storage tank.

## 2 Scope of delivery



The scope of delivery and illustrations may differ from the total scope specified here depending on the country.

### 2.1 Product overview

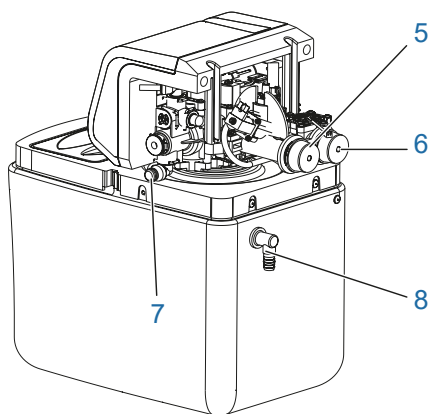
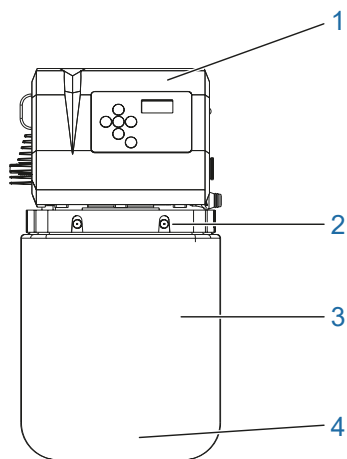
**Bewamat 10A water softener with:**

|   |                                                            |
|---|------------------------------------------------------------|
| 1 | Multiple-way control valve with micro-processor controller |
|   | Precision brine meter                                      |
|   | Softener column with ion exchange material                 |
| 2 | Cover                                                      |
| 3 | Storage area for regenerative                              |
| 4 | Brine cavity                                               |
| 5 | Water inlet                                                |
| 6 | Water outlet                                               |
| 7 | Flushing water connection                                  |
| 8 | Overflow                                                   |
|   | Cable and mains plug                                       |
|   | 2 m flushing water hose                                    |
|   | 2 m overflow hose, 18 x 24                                 |

### Optional accessories

(not included in delivery)

|                                     | Order number    |
|-------------------------------------|-----------------|
| Corrugated hose G1¼                 | 1-123233        |
| Siphon connection set               | 1-608651        |
| AQA test hardness monitoring device | 1-308543        |
| Multiblock X                        | 125596636       |
| AQA stop 3/4"                       | 11825           |
|                                     | Austria: 082021 |
| AQA stop 1"                         | 11826           |
|                                     | Austria: 082022 |



## 3 Intended use

### 3.1 Proper use

The product is intended for softening or partially softening drinking and service water.

The product minimises malfunctions and damage caused by limescale in water pipes and the fittings, devices, boilers, etc. connected to them.

If the product is intended for a commercial application, a BWT consultant must conduct a test and issue an approval.

### 3.2 Foreseeable misuse

A product not used for a longer period of time (7 days in accordance with DIN EN 806-5) is not operated as intended.

Non-compliance with the ambient and operating conditions in the chapter "13 Technical data", page 26.

Failure to comply with the maintenance and service intervals specified in this manual.

The use of unauthorised consumables and spare parts.

### 3.3 Disclaimer

The manufacturer is released from any liability if the customer intentionally or forcibly removes guards or safety devices, if the customer wilfully modifies or circumvents the same, or if the customer does not follow the instructions in this operating manual or on the product.

### 3.4 Other applicable documentation

Observe all documents from suppliers that were included with delivery. These are considered part of this documentation and must not be changed or removed.

## 4 Function

### 4.1 General

The product is a simplex water softener that functions using ion exchange. The product is filled with organic ion exchange material.

Regeneration is triggered volumetrically (depending on the quantity of water). This means that no remaining supply of softened water is discarded during regeneration.

Spring-loaded non-return valves protect all water connections on the inlet side of the unit (in compliance with DVGW). This eliminates the need for a system or pipe separator.

### 4.2 Operation

The mode of operation is consumption-dependent.

### 4.3 Regeneration

A precision brine meter measures out the brine required.

The product is equipped with a device that disinfects the ion exchange material during regeneration.

A special salt dissolution and brine cavity within the regenerative container is used to achieve the shortest salt dissolution times, and therefore extremely short regeneration intervals.

When the regenerative is depleted, a message appears on the screen.

Water may be removed during regeneration, but such water is untreated.

### 4.4 Operation

The screen and keyboard are used for display and control purposes.

When the unit is started, the available supply of softened water is programmed (depending on the hardness of the drinking water).

The product is preset. The default setting covers the most common usage scenarios. For special applications, however, adjustments are necessary.

During operation, the screen shows the time of day and the remaining capacity in litres.

## 4.5 Stagnation management

If the capacity is not used up within 72 hours, the control unit triggers a regeneration.

## 4.6 Power failure

If a power failure occurs during operation, softened water can still be drawn from the unit, but the water meter will not register the withdrawal. If water is drawn during this time, the water hardness may increase.

If there is a power failure during regeneration, the product remains in its position. The flushing water is routed to the sewer outlet until the power is restored.

In the event of a power failure lasting more than 8 hours, an automatic regeneration is triggered when the power returns.

The programmed parameters are permanently stored and remain unaffected by power failures.

# 5 Conditions for installation

## 5.1 General

The product must be installed as described in the installation guide in compliance with the general requirements for the supply of water in Germany ("AVB Wasser") V, section 12.2 by a water supply company or by a party registered in the water supply company's index of fitters.

Observe all applicable local installation regulations, general guidelines, sanitary requirements and technical specifications.

## 5.2 Installation locations and environment

Water softeners may not be installed in systems that provide water for fire extinguishing purposes.

The installation location must be frost-proof, ensure protection of the product from chemicals, dyes, solvents, vapours and allow easy connection to the water network. In addition, the installation room must have a surface that is moisture-resistant. Building sealing measures must be used, such as special joint materials and sealing tapes.

A sewer connection, a floor drain and a separate power connection (230 V/50 Hz) must be available in the immediate vicinity.

If there is no floor drain, the aquastop safety function integrated in the water softener (available with some models) or the internal aquastop function may suffice.

However, this is at the property insurer's discretion. It is the unit operator's responsibility to clarify this.

If there is no floor drain and the water softener does not have an integrated aquastop function, an on-site safety device must be installed in the direction of flow upstream of the water softener.

This safety device (e.g. external BWT AQA stop) has to shut off the water supply when there is no current in order to prevent unintended water leakage from the water softener if the unit is damaged.

The rated mains power (230 V/50 Hz) and the required operating pressure must be present at all times. A separate means of protection against a shortage of water is not provided and must be installed on site if desired.

## 5.3 Inflow water

The inflow water must always comply with the requirements of the German Drinking Water Ordinance and Directive (EU) 2020/2184 on the quality of water intended for human consumption. The total dissolved iron and manganese must not exceed 0.1 mg/l. The inflow water must always be free of air bubbles. Install a bleed device if necessary.

If the treated water is intended for human consumption as defined in the Trinkwasserverordnung [German Drinking Water Ordinance], the ambient temperature must not exceed 25 °C.

If the treated water is intended for industrial purposes only, the ambient temperature must not exceed 40 °C.

The formation of a vacuum in the product, for example through a downstream pressure boosting system, must be ruled out.

The product's maximum operating pressure must never be exceeded (see chapter "13 Technical data", page 26). If the network pressure is higher, a pressure reducer must be installed upstream of the product.

The product requires a minimum operating pressure to function correctly (see chapter "13 Technical data", page 26).

During pressure fluctuations and surges, the sum of the pressure surge and the standing pressure must not exceed the nominal pressure. The positive pressure surge must not exceed 2 bar and the negative pressure surge must not be less than 50% of the self-adjusting flow pressure (see DIN 1988-200/3.4.3).

Continuous operation of the water softener with water containing chlorine or chlorine dioxide is possible if the concentration of free chlorine/chlorine dioxide does not exceed 0.5 mg/l.

Continuous operation with water containing chlorine/chlorine dioxide will cause premature ageing of the ion exchange material. A water softener reduces the concentration of free chlorine and chlorine dioxide. In other words, the concentration in the outflow of a water softener is generally considerably lower than in the inflow.

## 5.4 Installation

The pipeline network must be rinsed before the product can be installed.

You must check whether a mineral metering device needs to be installed downstream from the product for the purpose of preventing corrosion.

Use corrosion-resistant pipe materials for installation. Pay attention to corrosion-causing chemical properties when different pipe materials are combined (mixed installation), even in the inflow direction upstream of the water softener.

A protective filter must be installed in the direction of flow 1 m upstream from the product. The filter must be functional before the softener is installed. This is the only way to ensure that dirt and corrosive products do not enter the water softener.

Suitable test sample extraction points must be installed upstream and downstream of the product in accordance with the specifications of VDI 6023.

The hose attached to the overflow point of the regenerative container and the flushing water hose must be routed at an incline to the sewage system or connected to a pump.

According to EN 1717, the flushing water hose and the overflow hose must be connected to the sewage system at a specified distance above the highest possible waste water level. (Distance is greater than the diameter of the drain pipe).

If the flushing water is fed into a pump, it must be designed for a water volume of at least 2 m<sup>3</sup>/h or 35 l/min for units for building services and at least 3 m<sup>3</sup>/h or 50 l/min for Rndomat and AQA perla professional units.

If the pump is also used for other plants simultaneously, it must be sized larger by a factor of their water output quantities.

The pump must be resistant to salt water.

## 5.5 Operation

The performance specifications of the product must match the expected usage conditions. Related information can be found in DIN 1988-200 and in the technical specifications.

After periods of little or no water extraction, during holiday periods for example, a tap should be fully opened for at least 5 minutes before the water can be used again (see chapter "8.8 Service interruptions and restarts", page 20).

The microbiological quality of the softened water is also determined by the quality of the regenerative used.

## 6 Installation

**DANGER!**

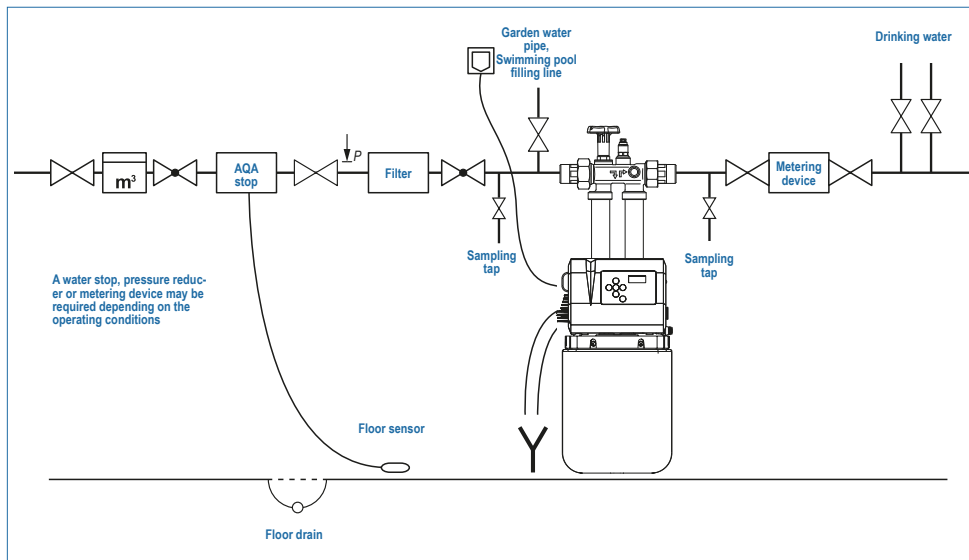
**Electrical voltage!**

*Risk of death by electric shock!*

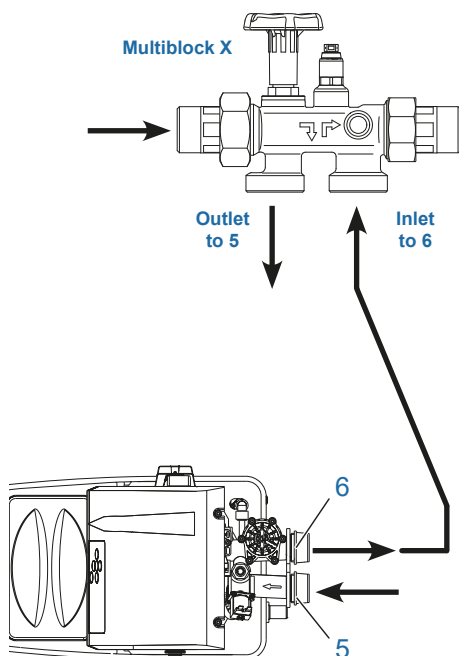
- ▶ Do not connect the product to the mains before start-up.
- ▶ Before carrying out any maintenance or repair work, disconnect the power plug.
- ▶ If the product's power connection cable is damaged, it must be replaced with the original connection cable from the manufacturer.

## 6.1 Installation diagram

The illustration serves as an example. The symbols are shown in accordance with DIN EN 806-1. The individual installation must be adapted to local conditions.



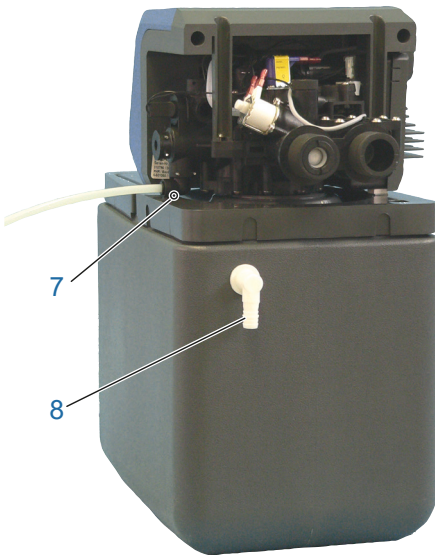
Optionally, the product can be installed with **Multiblock X** (connection fitting with integrated bypass):



- Connect the product according to the installation diagram.
- A bypass is integrated into Multiblock X.
- The unit can be installed in horizontal or vertical pipelines.
- Follow the separate installation and operating instructions for the Multiblock X and connection set DN 32/32, as warranty claims are otherwise void should the unit be damaged.
- Flush out any dirt particles by opening the handwheel on the Multiblock module.
- Connect according to the arrows indicating the direction of flow.
- Connect a corrugated hose to the Multiblock outlet and then connect this to the hard water inlet (5).
- Connect a corrugated hose to the Multiblock inlet and form a watertight seal with the softened water outlet (6).



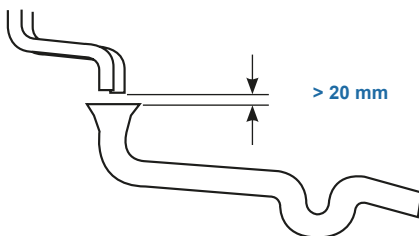
Attach the grey cover to the left side of the control valve.



Firmly insert the flushing water hose into the flushing water connection elbow (7).

Route the flushing water hose at an incline to the sewage system connection (drain) and secure the end with the fixing material supplied to prevent it "flapping about" when under pressure.

Attach the overflow hose (18 x 24) to the overflow (8). Secure it with cable ties and route it with an incline of at least 10 cm to the sewage system connection (drain).



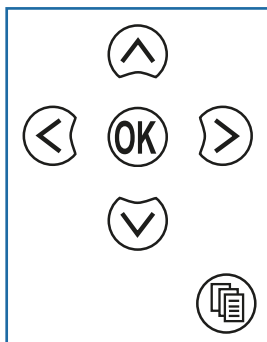
The flushing water and overflow hoses must not be connected or constricted at any point.

**Note:** According to EN 1717, the flushing water hose and the overflow hose must be connected to the sewage system at a specified distance above the highest possible waste water level. (Distance is greater than the diameter of the drain pipe).

## 7 Start-up

### 7.1 Operating the controller

Keypad



Function of keys

|  |                                                |
|--|------------------------------------------------|
|  | Confirms entries                               |
|  | Moves the cursor, modifies input values        |
|  | Moves the cursor                               |
|  | Switch between Operation and Programming modes |

Operating display

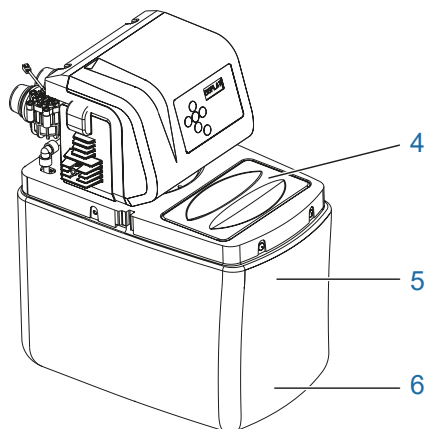
|  |                                                                                                                                                                                                                                         |
|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Display alternates between showing the <b>day of the week and the time of day</b> and <b>the remaining capacity in litres</b> .<br>In Programming mode, the following items flash:<br>1 = Monday<br>2 = Tuesday<br>3 = Wednesday<br>... |
|  |                                                                                                                                                                                                                                         |

### 7.2 Factory settings

Capacity specifications (in litres) correspond to a blended water hardness of 4 °dH

Capacity: 20 m<sup>3</sup> x ° dH (3,6 mol)

Drinking water hardness / capacity: 22 ° dH / 1111 liters



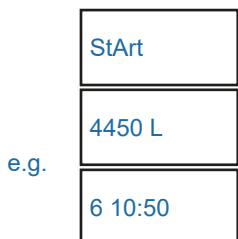
### 7.3 Preparing the brine

Check product for proper installation.

Measure and note the hardness of the drinking water upstream of the softener using AQUATEST.

- Remove cover (4).
- Pour regenerative (salt tablets in accordance with DIN EN 973 Type A, e.g. Clarosal or Sanisal/ Sanitabs) into the storage area (5).
- Fill the brine cavity (6) with 5 litres of drinking water.

**Note:** Observe the following if consumption of a large quantity of softened water is expected after start-up: The product requires approx. 3 hours for the brine to form.



- Insert mains plug. The water supply must remain closed. The display shows **StArt** and then alternates between the capacity and day of the week (1 – 7) / time.
- Allow basic fixing to finish (approx. 40 sec.). The running noise stops.
- You can cancel regenerations that have begun automatically by pressing the OK button.
- Open the water supply line.
- Initiating a start-up flush
- Hold down the Change mode button until **lbn** appears on the display. Flushing occurs for 1 minute (flush time t1). The valve then moves into the operating position.
- The product is ready for use.

The capacity and the blending valve are preset. Adjustment must be made particularly when the water is hard (hardness exceeding 22 °dH) or when the water is of medium hardness (hardness less than 14 °dH).

## 8 Operation

### 8.1 Setting the supply of softened water

SEt



Press the Change mode button

Time



The display shows SEt

0350 L



Press the OK key

350 L



Press the cursor down key

Display flashes

Setting the supply of softened water

(applies only to blended water hardness of 4 °dH)

Consult the table for the litre value that corresponds to your inflow water hardness.

e.g.

1250 L



Example:

Inflow water hardness  
Operating range

20 °dH  
tP1

| Inflow water hardness<br>°dH | Supply of softened water<br>litres |
|------------------------------|------------------------------------|
| 10                           | 3333                               |
| 11                           | 2857                               |
| 12                           | 2500                               |
| 13                           | 2222                               |
| 14                           | 2000                               |
| 15                           | 1818                               |
| 16                           | 1667                               |
| 17                           | 1538                               |
| 18                           | 1429                               |
| 19                           | 1333                               |
| 20                           | 1250                               |
| 21                           | 1176                               |
| 22                           | 1111                               |
| 23                           | 1053                               |
| 24                           | 1000                               |
| 25                           | 952                                |
| 26                           | 909                                |
| 27                           | 870                                |
| 28                           | 833                                |
| 29                           | 800                                |
| 30                           | 769                                |
| 31                           | 741                                |
| 32                           | 714                                |
| 33                           | 690                                |
| 34                           | 667                                |
| 35                           | 645                                |



1250 L

Exit programming mode.

The new supply of softened water is not displayed until after the next regeneration.



Calculate the setting at a different blended water hardness as follows:

$$\text{Softened water supply} = \frac{K}{E - V} \text{ in litres}$$

$K = 20,000 \text{ l} \times ^\circ\text{dH}$

$E = \text{inflow water hardness in } ^\circ\text{dH}$

$V = \text{desired blended water hardness in } ^\circ\text{dH}$

## 8.2 Setting the hardness of blended water

The product is preset to 4 °dH.

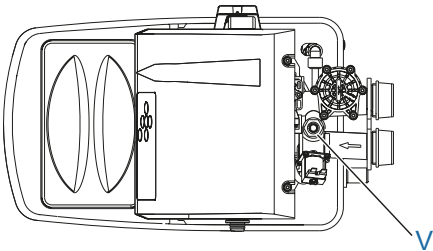
To test the water hardness, allow the nearest downstream tap to run for a while (approx. 400 – 500 l/h) and check the hardness of the blended water using the AQUATEST hardness tester. Adjust with the blending valve V until the desired value (BWT recommendation 4 – 8 °dH) is reached.

The Trinkwasserverordnung [German Drinking Water Ordinance] stipulates a sodium limit of 200 mg/l. The limit has been set this low so that people on a low sodium diet can still consume drinking water and use it for cooking.

Sodium content of partially softened water

Reducing the hardness of drinking water by 1 °dH increases the sodium content by 8.2 mg/l.

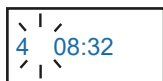
Hardness of drinking water – hardness of blended water x 8.2 mg/l = increase in the sodium content.



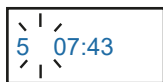
### 8.3 Setting the time and day of week

Press the Change mode button

The display shows **SEt**



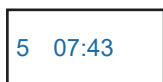
Blinking digits can be changed.



Changes the digit

Moves the cursor

e.g.



Current day of the week and time



Exit programming mode

### 8.4 Starting regeneration manually

Hold down the OK button for approx. 4 sec. until regeneration begins

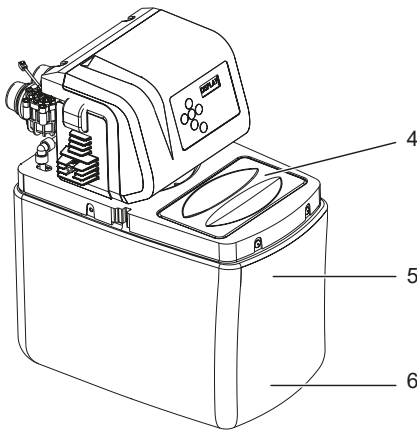
The screen alternately shows the remaining regeneration time in minutes (with flashing symbol) and **rEG On**.



e.g.



SALt



## 8.5 Adding regenerative

You must add regenerative no later than when the sieve base becomes visible. If the message **SALt** appears on the display, then the regenerative is completely depleted.

Only commonly available regeneration salts in accordance with DIN EN 973 Type A (salt tablets e.g. Clarosal or Sanisal/Sanitabs) may be used.

Operation cannot be guaranteed with the use of any other salt.

- Open the cover (4). Pour regenerative into the storage area (5).
- Press the OK key. The **SALt** indicator disappears.

Refill the unit in such a way that no dirt can get into the storage area (5) (if necessary, clean the packages containing the regenerative before use). Clean the storage area or brine cavity (6) with drinking water if dirt gets into it.

## 8.6 Service message

A flashing litre display indicates that it is time for servicing. The service reminder appears after 150 regenerations.

Contact after-sales service.

Motor position error

Contact after-sales service.

Error with the current monitoring of the solenoid valves

Contact after-sales service.

Memory error

Contact after-sales service.

433 L

PO5

TBD

Para

## 8.7 Decommissioning

If present, close Multiblock. The drinking water system is supplied with inflow water through the bypass in the Multiblock.

Triggering a start-up flush:

- Press Change mode key  
A flushing procedure is performed, which flushes out the water to relieve pressure.
- Wait approx. 5 minutes until the operating display appears.
- Remove the mains plug.

## 8.8 Service interruptions and restarts

| In case of expected stagnation phases, take the following preventive measures:                                                                                                                                       | BWT recommendations for restarting a unit after stagnation phases:                                                                                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fewer than 3 days<br>None                                                                                                                                                                                            | Open all taps to flush the system.                                                                                                                                                                                                  |
| 3 to 30 days<br>Close the main shut-off valve.<br>Disconnect the water softener from the water supply system (if present, close Multiblock).                                                                         | Open the main shut-off valve and, if present, open the Multiblock.<br>Regenerate the softener column. Then open all taps to flush the installation.                                                                                 |
| 3 to 30 days<br>Close the main shut-off valve.<br>Disconnect the water softener from the water supply system (if present, close Multiblock).                                                                         | Open the main shut-off valve and, if present, open the Multiblock.<br>Have BWT after-sales service carry out a regeneration of the softening column by adding Dioxal disinfectant.<br>Then open all taps to flush the installation. |
| 1 to 6 months<br>Close the main shut-off valve.<br>If present, close Multiblock.<br>Disconnect the water softener from the water supply system and shut the unit down.                                               | Open the main shut-off valve and, if present, open the Multiblock.<br>Have BWT after-sales service carry out a regeneration of the softening column by adding Dioxal disinfectant.<br>Then open all taps to flush the installation. |
| Longer than 6 months<br>Disconnect the building's water system from the municipal water system.<br>Disconnect the water softener from the water supply system (if present, close Multiblock) and shut the unit down. | Reconnect the unit to the municipal drinking water system.<br><br>Have BWT after-sales service carry out a regeneration of the softening column by adding Dioxal disinfectant.                                                      |

## 9 Operator responsibilities

You have purchased a product that is durable and easy to service. However, certain duties must be carried out. Flawless function requires:

- Operation as intended
- Regular checks and servicing

Check the quality and pressure conditions of the inflow water regularly with your water supplier. If the water quality changes, the settings may need to be changed. Consult a specialist in this case.

The function and safety of the product requires checks, regular inspections (every 2 months) by the operator and semi-annual (every 6 months) routine maintenance (EN 806-5) by BWT after-sales service or an installer authorised by BWT to carry out maintenance.

The replacement of wearing parts within the prescribed intervals is also required for the warranty and proper functioning of the unit.

### 9.1 Intended operation

The intended operation of the product includes commissioning, operation, decommissioning and, if necessary, recommissioning. Intended operation of the product and drinking water installation requires regular checks, servicing and operation (water flows through the product) in accordance with the operating conditions for design and construction, including simulated sampling (manual or automated flushing), where appropriate. If simulated sampling is not possible, the product must be taken out of service.

### 9.2 Checks

#### (Carried out by the operator)

BWT recommends that the operator regularly carries out the following checks and record the results:

- **Water quality.** Depending on the product, inflow water values and set outlet water values may need to be corrected.
- **Water pressure.** If the pressure conditions change, the product settings may also have to be changed.
- Operating condition of the product.
- Check whether messages have been issued.
- Watertightness.

### 9.3 Inspection

(Carried out by the operator in accordance with EN 806-5)

| Inspection activities                                                                 | Interval         | Note for products <b>WITHOUT</b> active BWT DES registration | Note for products <b>WITH</b> active BWT DES registration |
|---------------------------------------------------------------------------------------|------------------|--------------------------------------------------------------|-----------------------------------------------------------|
| Check/refill regenerative                                                             | According to use | Required                                                     | Required                                                  |
| Check brine containers for soiling                                                    | Every 2 months   | Required                                                     | Required                                                  |
| Check for leaks, visual inspection                                                    | Every 2 months   | Required                                                     | Required                                                  |
| Functional test/control unit display                                                  | Every 2 months   | Required                                                     | Not required                                              |
| Test regenerative consumption depending on the treated water                          | Every 2 months   | Required                                                     | Not required                                              |
| Check the regenerative waste water system for proper attachment                       | Every 2 months   | Required                                                     | Required                                                  |
| Check the metering function of the water meter                                        | Every 2 months   | Required                                                     | Not required                                              |
| Test the regeneration process                                                         | Every 2 months   | Required                                                     | Not required                                              |
| Clean the brine container and the internal surfaces that come into contact with water | Every 6 months   | Required                                                     | Required                                                  |

## 9.4 Maintenance in accordance with EN 806-5

(carried out by BWT after-sales service or an authorised technician in accordance with EN 806-5)

In addition to all inspection activities, maintenance work on the assemblies listed below is required every 6 months by BWT after-sales service or a specialist trained by BWT. A detailed maintenance manual can be requested from the qualified fitter at BWT. We recommend that you enter into a maintenance agreement with the BWT after-sales service department or your fitter.

|                                                                                                                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Depending on the type and design of the BWT product, the following assemblies are provided and must be checked, cleaned and sanitised as required: |
| Entire hydraulic unit                                                                                                                              |
| End shield                                                                                                                                         |
| Gears                                                                                                                                              |
| Drive motor                                                                                                                                        |
| Control piston                                                                                                                                     |
| Red/green injector                                                                                                                                 |
| Electrolysis cell                                                                                                                                  |
| Locking pin                                                                                                                                        |
| Waste water elbow                                                                                                                                  |
| JG hoses                                                                                                                                           |
| Internal hoses                                                                                                                                     |
| Blending                                                                                                                                           |
| Water meter cover                                                                                                                                  |
| Paddle-wheel                                                                                                                                       |
| Guide baffle                                                                                                                                       |
| Check valve                                                                                                                                        |
| Bypass valve                                                                                                                                       |
| Filler plug                                                                                                                                        |
| Brine meter                                                                                                                                        |
| Brine meter solenoid valve                                                                                                                         |
| Sieve base                                                                                                                                         |
| Low salt gauge                                                                                                                                     |
| Brine level switch                                                                                                                                 |
| AQA stop floor sensor                                                                                                                              |
| AQA test                                                                                                                                           |

## 9.5 Replacement of parts

The operator must ensure that parts that are subject to wear and ageing during the life of the product are replaced by a qualified fitter.

Details of the replacement cycles can be found in the maintenance manual from BWT.

## 10 Troubleshooting

| Fault                                                                | Cause                                                                   | Remedy                                                                                                                                         |
|----------------------------------------------------------------------|-------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| SALt is indicated on the display.                                    | Insufficient regenerative in the regenerative container (3).            | Refill regenerative and press the OK button until the SALt display goes out.                                                                   |
|                                                                      | Insufficient pipeline pressure resulting in insufficient suction speed. | Press the OK button to acknowledge the fault.<br>If the fault occurs again, contact after-sales service.                                       |
| Product not supplying softened or blended water.                     | No regenerative in the regenerative container (5).                      | Refill regenerative and press the OK button until the SALt display goes out. Wait 3 hours for the brine to form and start manual regeneration. |
|                                                                      | Power supply interrupted.                                               | Establish electrical connection.                                                                                                               |
|                                                                      | Blending adjusting spindle (V) not set correctly.                       | Adjust according to the "Setting the water hardness" section on start-up.                                                                      |
| Product is not supplying softened water or the flow is insufficient. | Inlet pressure is too low.                                              | Increase inlet pressure (set pressure reducer if necessary) and start manual regeneration.                                                     |
| Coloured flushing water during start-up.                             | Abrasion particles from ion exchange material.                          | Repeat start-up rinse.                                                                                                                         |

If the fault cannot be remedied by following these steps, please contact our after-sales service department and quote the series and production number (see type plate on rear of product).

## 11 Warranty

If the product malfunctions during the warranty period, please contact your contract partner, the installation company, and indicate the model type and production number (see specifications or the type plate on the unit).

Non-compliance with the installation conditions and the responsibilities of the operator, as well as improper use leads to the loss of warranty and exclusion of liability.

### 11.1 Product returns

Product returns will not be processed without a return number (RMA no.). In Germany, call our after-sales service in Schriesheim to receive a return number.

Unauthorised returns of goods will not be accepted by BWT. Please always contact your contractual partner first.

### 11.2 Your contact at BWT

You can reach us at the following number:

|                           |                      |
|---------------------------|----------------------|
| <b>Service acceptance</b> | <b>+49 6203 7379</b> |
| Monday to Thursday:       | 06:30 to 18:00       |
| Friday:                   | 06:30 to 16:00       |

## 12 Decommissioning and disposal

### 12.1 Decommissioning

The product may only be shut down and dismantled by qualified specialists.

Observe all applicable safety regulations when dismantling the system.

### 12.2 Disposal

#### NOTE



► This product may not be disposed of in household waste.

► At the end of the product's life cycle, ensure that it is properly disposed of or recycled.



► Observe the legal disposal guidelines for the country in which the product is used.

► The following materials are used in the product: metal, plastic, electronic components.

#### 12.2.1 Disposal of the transport packaging

Recycling the packaging materials saves resources and reduces waste. Return the packaging to your specialised dealer.

#### 12.2.2 Disposal of old devices

Do not dispose of the old device in household waste. Use the official municipal collection and returns facilities for electrical and electronic waste or return the device to your dealer. By law, you are responsible for deleting any personal data on the old device before disposal.

#### 12.2.3 Disposal of old batteries

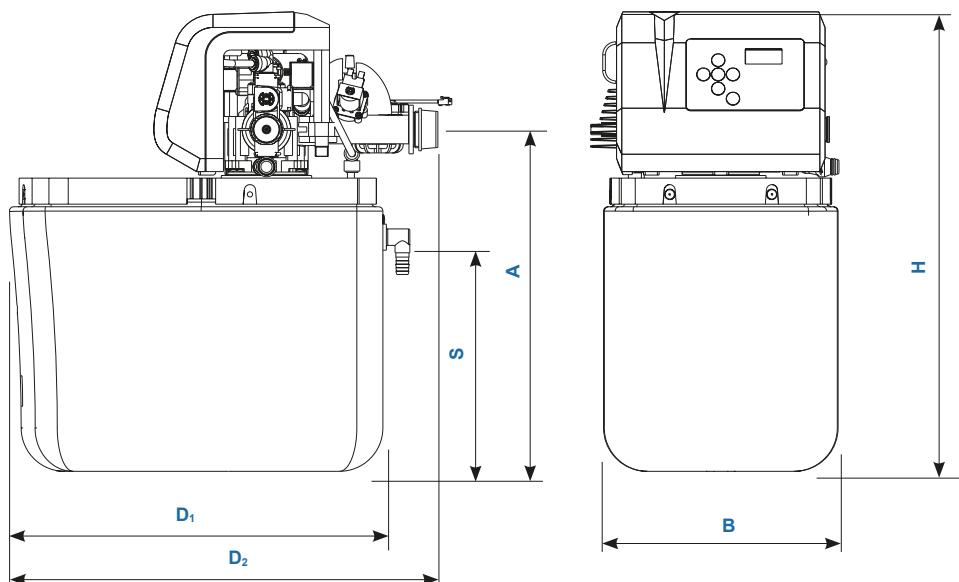
Under no circumstances should batteries be disposed of with household waste. Batteries not sealed inside the device must be removed and brought to a suitable collection point for disposal.

### 13 Technical data

| Water softener                                                                                                                                                          | Type                       | Bewamat 10A    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------|
| Nominal connection width                                                                                                                                                | DN                         | 32             |
| Connection type                                                                                                                                                         |                            | G 1 1/4"       |
| Nominal capacity in accordance with DIN EN 14743                                                                                                                        | mol (m <sup>3</sup> × °dH) | 3.6*(20)       |
| Capacity / kg of regenerative salt in accordance with DIN EN 14743                                                                                                      | mol/kg                     | 3.6            |
| Equipment requirement, water per °dH/m <sup>3</sup>                                                                                                                     | l                          | 2.14           |
| Equipment requirement, salt per °dH/m <sup>3</sup>                                                                                                                      | kg                         | 0.51           |
| Flushing water consumption per 100% regeneration at 4 bar, approx.                                                                                                      | l                          | 35             |
| Flushing water flow during regeneration, max.                                                                                                                           | l/h                        | 165            |
| Regeneration time per 100% regeneration at 4 bar, approx.                                                                                                               | min                        | 42             |
| Regenerative consumption per 100% regeneration, approx.                                                                                                                 | kg                         | 1              |
| Nominal flow in accordance with DIN EN 14743                                                                                                                            | m <sup>3</sup> /h          | 1.4            |
| Peak flow with closed blending                                                                                                                                          | m <sup>3</sup> /h          | 2.0            |
| Pressure drop at operating flow                                                                                                                                         | bar                        | 1.6            |
| Nominal pressure / pressure level PN                                                                                                                                    | bar                        | 10             |
| Min./max. operating pressure                                                                                                                                            | bar                        | 2 – 8          |
| Area of application                                                                                                                                                     | Persons                    | 6 – 8          |
| Water temperature, min./max.                                                                                                                                            | °C                         | 5 – 25         |
| Ambient temperature, min./max.                                                                                                                                          | °C                         | 5 – 40         |
| Humidity                                                                                                                                                                |                            | Non-condensing |
| Power supply                                                                                                                                                            | V / Hz                     | 230 / 50 – 60  |
| Unit operating voltage                                                                                                                                                  | DC V                       | 24             |
| Protection class                                                                                                                                                        |                            | IP53           |
| Connected load during operation, max.                                                                                                                                   | W                          | 4              |
| Connected load during regeneration, max.                                                                                                                                | W                          | 38             |
| Ion exchange material fill quantity                                                                                                                                     | l                          | 10             |
| Supply of regenerative, max.                                                                                                                                            | kg                         | 14             |
| Operating weight, approx.                                                                                                                                               | kg                         | 50             |
| Product weight (net weight), approx.                                                                                                                                    | kg                         | 23.3           |
| <b>To find the production number, see the label on the front page of these instructions and the type plate under the cover of the product's regenerative container.</b> |                            |                |

### 13.1 Dimensions

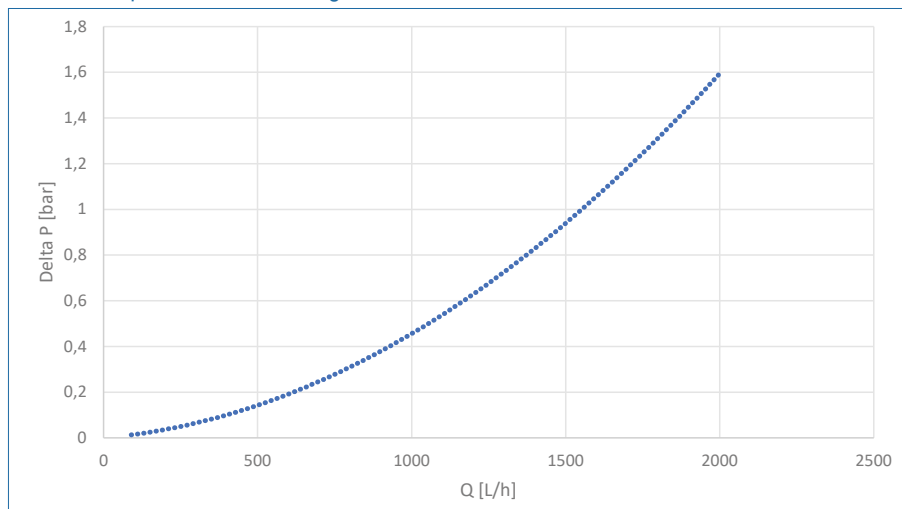
|                                |                                 |    |         |
|--------------------------------|---------------------------------|----|---------|
| Height                         | H                               | mm | 530     |
| Width                          | B                               | mm | 290     |
| Depth                          | D <sub>1</sub> / D <sub>2</sub> | mm | 430/495 |
| Water inlet connection height  | A                               | mm | 395     |
| Water outlet connection height | A                               | mm | 395     |
| Overflow connection height     | S                               | mm | 270     |
| Min. sewage system connection  |                                 | DN | 40      |



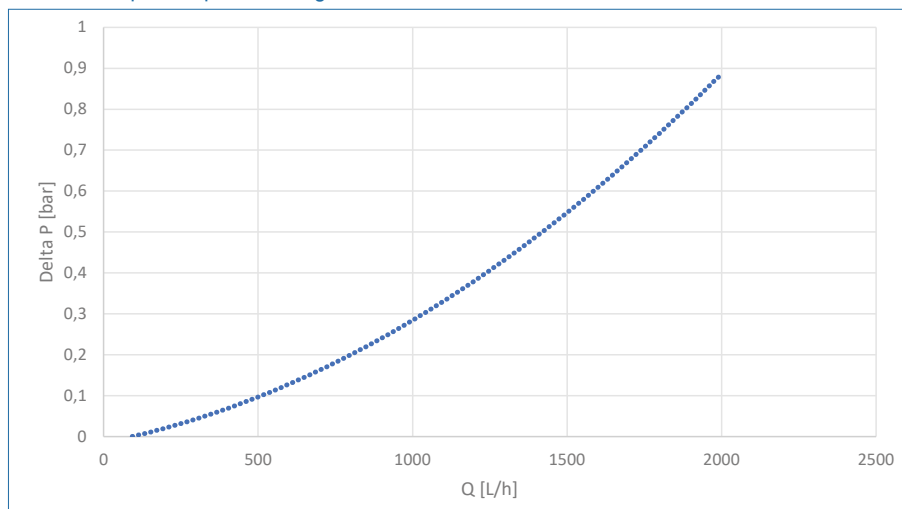
## 13.2 Dimensioning data

### 13.2.1 Pressure loss

Pressure drop with closed blending:



Pressure drop with open blending:



## 14 Standards and legal provisions

**Standards and legal provisions shall always be applied in the most recent version.**

The following standards and legal regulations must be observed depending on the intended use:

- General administrative framework regulation on minimum requirements for the discharge of waste water into bodies of water ("Rahmen-AbwasserVwV") appendix 31 – water treatment, cooling systems, steam generation
- German act for promoting closed substance cycle waste management and ensuring environmentally compatible waste disposal ("Kreislaufwirtschafts- und Abfallgesetz")
- Law on the management of water resources ("Wasserhaushaltsgesetz")
- German Drinking Water Ordinance ("Trinkwasserverordnung")
- EN 806, Specifications for drinking water installations
- DIN 1988 standards, specifications for drinking water installations
- DIN EN 1717, protection of drinking water from contaminants in the drinking water supply system

**The product meets the following standards:**

- DIN EN 14743, Water conditioning equipment inside buildings – softeners
- DIN 19636-100 Softeners (cation exchangers) for drinking water installation – Part 100: requirements for application of softeners in accordance with DIN EN 14743.

## 15 Operating report

Trinkwasserverordnung [German Drinking Water Ordinance] requires you to keep an operating report in the following form.

Product designation: \_\_\_\_\_

Installation location of the product:\_\_\_\_\_

[illegible]

Keeping an operating report is not always required, for example in a private single-family house.

## Information for inhabitants in accordance with the requirements of the German Drinking Water Ordinance

The drinking water in this building is treated as followed:

Type of treatment:

- ☐ Partial softening  
☐ Metering

Product designation: \_\_\_\_\_

Installation location of the product: \_\_\_\_\_

### ☐ Metering of silicate substances

For minimising the corrosiveness of drinking water and preventing elevated concentrations of heavy metals

**Silicate concentration of your water, approx.** \_\_\_\_\_ mg/l

Max. permissible concentration in accordance with the German Drinking Water Ordinance: 15 mg/l SiO<sub>2</sub> (calculated as SiO<sub>2</sub>)

### ☐ Metering of phosphate substances

To minimise liming, corrosiveness of drinking water and to prevent elevated concentrations of heavy metals

**Phosphate concentration of your water, approx.** \_\_\_\_\_ mg/l

Max. permissible concentration in accordance with the German Drinking Water Ordinance: 2.2 mg/l P (calculated as P)

### ☐ Metering to set the pH value

For minimising the corrosiveness of drinking water and preventing elevated concentrations of heavy metals

**pH value of your water** \_\_\_\_\_

Limits in accordance with the German Drinking Water Ordinance: greater than 6.5 and less than 9.5

### ☐ Metering of sodium hypochlorite or chlorine dioxide solution

To increase sanitary properties of drinking water

☐ Chlorine or ☐ Chlorine dioxide concentration of your water, approx. \_\_\_\_\_ mg/l

Max. permitted concentration in accordance with the German Drinking Water Ordinance: 0.3 mg/l chlorine or 0.2 mg/l chlorine dioxide

### ☐ Partial softening of drinking water by sodium ion replacement

To minimise liming

**Hardness range of your water:**

- ☐ Soft (less than 8.4 °dH)  
☐ Medium (8.4 °dH – 14.0 °dH)

**Sodium concentration of your water, approx.:** \_\_\_\_\_ mg/l

Max. permitted concentration in accordance with the German Drinking Water Ordinance: 200 mg/l Na

Company: \_\_\_\_\_

Date of last maintenance: \_\_\_\_\_

# EU-Konformitäts-Erklärung

## EU Declaration of Conformity

### UE Déclaration de conformité

|                          |                               |                                        |
|--------------------------|-------------------------------|----------------------------------------|
| im Sinne der Richtlinien | Niederspannung<br>EMV<br>RoHS | 2014/35/EU<br>2014/30/EU<br>2011/65/EU |
|--------------------------|-------------------------------|----------------------------------------|

|                             |                            |                                        |
|-----------------------------|----------------------------|----------------------------------------|
| according to the directives | Low voltage<br>EMC<br>RoHS | 2014/35/EU<br>2014/30/EU<br>2011/65/EU |
|-----------------------------|----------------------------|----------------------------------------|

|                               |                              |                                        |
|-------------------------------|------------------------------|----------------------------------------|
| en accord avec les directives | Basse tension<br>CEM<br>RoHS | 2014/35/UE<br>2014/30/UE<br>2011/65/UE |
|-------------------------------|------------------------------|----------------------------------------|

|                              |                                                                                                        |
|------------------------------|--------------------------------------------------------------------------------------------------------|
| Produkt / Product / Produit: | <b>Simplex Weichwasseranlage<br/>Simplex softening unit<br/>Simplex systèmes d'adoucissement d'eau</b> |
|------------------------------|--------------------------------------------------------------------------------------------------------|

|                                             |                    |
|---------------------------------------------|--------------------|
| Typ, Baureihe / Type, Series / Type, Série: | <b>Bewamat 10A</b> |
|---------------------------------------------|--------------------|

ist entwickelt, konstruiert und gefertigt in Übereinstimmung mit den oben genannten Richtlinien, in alleiniger Verantwortung von

is developed, designed and produced according to the above mentioned directives at the entire responsibility of

est développé, conçu et fabriqué en accord avec les directives mentionnées ci-dessus sous l'entière responsabilité de

**BWT Wassertechnik GmbH, Industriestr. 7, 69198 Schriesheim**

(WEEE-Reg.\_Nr. DE 80428986)



Schriesheim, Mai 2024

Dr. Monique Bissen

Ort, Datum / Place, date / Lieu et date

Unterschrift (Geschäftsleitung)  
Signature (Management)  
Signature (Direction)

For You and Planet Blue.

**BWT**  
BEST WATER TECHNOLOGY







## Further information:

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