



## BWT WS Range Water Softener

WS Range: WS355  
WS455  
WS555  
WS655  
WS755

BWT WS Range /09-2012 © BWT UK Limited  
Changes of technical details are reserved

**Important notice:** Always keep the fitting and operating instructions close at hand to avoid any mistakes and before carrying out any work on the device, you should read the fitting and operating instructions carefully and follow them. While our data sheets and brochures should provide advice to the best of our knowledge, the content thereof is not legally binding.

For You and Planet Blue.

 **BWT**  
BEST WATER TECHNOLOGY

## Warning and Safety instructions

This water softener complies with all relevant local and national safety requirements. Improper use will invalidate your manufacturers warranty and could lead to injury and material damage.

To help avoid the risk of accidents and unnecessary damage to this unit, please read these instructions carefully before installation and use. Please keep these instructions in a safe place and ensure they are passed on to any future user of the unit.

### Electrical safety

Only use the transformer /plug supplied. Before use, ensure that the connection data on the data plate (voltage and frequency) match that of the mains electricity supply. If in any doubt, consult a qualified electrician.

### Maintenance

The unit must be isolated from the electricity supply during installation, maintenance and repair work. Your water softener will benefit from regular service - please see welcome pack or call BWT on 01494 838 100 for details.

### Cleaning

Please wipe clean with a damp cloth. Do not use solvent based or abrasive cleaning agents as they may cause damage to the high gloss finish.

### Correct application

This appliance is intended for domestic use only, and any other use is not supported by the manufacturer and could be dangerous. BWT UK Limited cannot be held liable for damage resulting from the incorrect or improper use of this water softener.

### Operation

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.

### Safety with children

Children must not play with the appliance and any contents therein at anytime.

### Extended periods of non-use

If the property is to be left unattended for any length of time e.g. holidays, the water softener should be bypassed/ isolated from the mains water supply by reversing the 3 valve positions as shown in the installation diagram in this manual.

After prolonged periods of non-use, ensure inlet and outlet valves are open and bypass valve is closed, and start a manual regeneration as described in Part Two of this manual.

### Protect from high & low temperatures

Important - do not install the water softener where it, or its connections (including the drain overflow lines), will be subject to temperatures under 5°C or above 40°C.

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# INTRODUCTION

**Thank you for choosing a BWT WS Range Water Softener.**

On the following pages we provide full installation and operating instructions. You may find this booklet easier to follow if you first take a few minutes to familiarise yourself with the basic principles of the water softening process and benefits of the "Millennium" valve.

## FEATURES AND BENEFITS

At the heart of your BWT WS Range Water Softener is the Millennium valve controlled by the BWT "Advanced Memory Electronic Control System" (AMECS). AMECS is manufactured and tested to meet the latest EU standard for performance, safety and testing of water softeners. The protocol used in the system design is based on the extensive experience of BWT in the UK.

- Rotary valve means less moving parts for greater reliability.
- Flow rates suitable for use on conventional and modern plumbing systems.
- Custom backlit easy read display.
- At a glance, "capacity remaining indicator" helping to provide a continuous supply of softened water.
- Memory back-up facility allows the AMECS to restore all key settings held in its memory after a temporary power supply failure (for up to 72 hours).
- Low salt alarm.
- Low voltage control system.
- High capacity resin for generous amounts of softened water between regenerations.
- Proportional brining technology reduces water and salt usage for maximum efficiency.

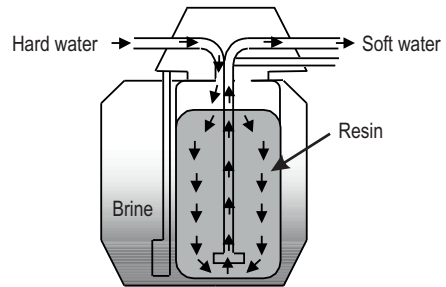
# PART ONE

## OVERVIEW OF THE WATER SOFTENING PROCESS

### WHAT IS A WATER SOFTENER?

A water softener works by passing hard water through a cylinder containing ion exchange resin.

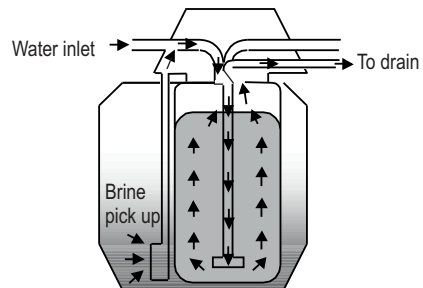
The resin consists of tiny beads that attract and retain the hardness minerals, allowing the now softened water into your household water supply.



SOFTENING CYCLE

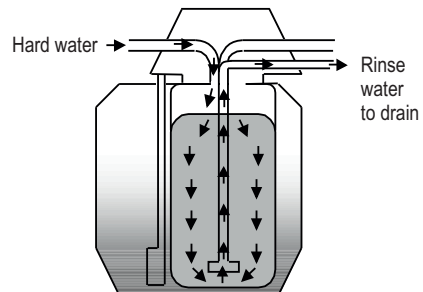
Periodically, these resin beads are automatically cleaned and regenerated by rinsing with a small amount of brine, (a salt solution).

The brine, with the accumulated hardness is then flushed away to the drain.



REGENERATION CYLCE

All this takes place automatically. All that remains for you to do is occasionally top up the water softener with salt.



RINSING CYCLE

# INSTALLATION AND OPERATING CONSIDERATIONS

## 1. Before you begin

The installation of your new water softener is relatively straightforward. However, we would recommend that either a qualified plumber or a person with relevant plumbing experience carries out the installation.

Before embarking on the installation, please ensure you have familiarised yourself with both these instructions and the components required to complete the installation.

## 2. Positioning the water softener

Please measure your water softener to ensure that it will fit into the area in which you are placing the unit. PLEASE remember to include additional space for connecting pipe work in your calculations along with the regular access that is needed for topping the unit up with salt and future service.

Where possible, the distance of both the incoming water supply and nearest drain should be kept to a minimum. Two metres is an ideal distance, however, longer distances are permissible, dependant on the incoming water pressure.

Please remember the weight of your new water softener will considerably increase once installed and filled with salt. Therefore, please ensure your chosen location is strong enough to support an approximate total weight of 50 Kg.

Your new water softener has been designed to operate efficiently and effectively with an incoming water pressure of between 1.7 to 5 BAR. **If your water supply is likely to fall outside these limits, then we would recommend that a booster pump or pressure-limiting valve should be fitted respectively.**

**PLEASE NOTE:** UK Water Regulation guidelines on the installation of water softeners indicate that a minimum of one tap is left as a source of untreated water / drinking water within the home. It is also recommended that any garden taps should also be left untreated.

If the property is to be left unattended for any length of time e.g. holidays, the water softener should be bypassed / isolated from the mains water supply by reversing the 3 valve positions as shown in the installation diagram on page 8. After prolonged periods of non-use, ensure inlet and outlet valves are open and bypass valve is closed and start a manual regeneration as described on page 14.

**Important** - do not install the water softener where it, or its connections (including the drain overflow lines) will be subject to temperatures under 5°C or above 40°C.

If you are planning to install the water softener above ground level e.g. In the loft, the following instructions should be strictly adhered to.

### 3. Loft installation

The water softener should be installed within a container with no less than 100 litre capacity, to which there should be connected an overflow pipe of no less than 20mm diameter. The overflow should be connected at the bottom of the container and not less than 150mm below the height of any electrical components mounted on the water softener. It is recommended that an anti-vacuum valve be fitted to the inlet pipework supplying the water softener.

### 4. Plumbing systems

There are several types of plumbing systems in common use:

#### a) Static Head

These systems are fitted with storage tanks. The water softener can be installed using the standard 15mm or 22mm installation kit supplied with your water softener.

#### b) Systems using combination boilers (15mm)

For these systems, we recommend that your water softener be “hard plumbed” using copper tubes or flexible high flow braided hoses.

#### c) Unvented fully pressurised systems (22mm)

As for combination boilers above.

### 5. Backflow prevention device

When fitted to the supply feeding a single dwelling, a check valve complying with BS6282 Part 1 must be fitted on the cold water feed prior to the installation. All other types of installation require the fitting of a double check valve.

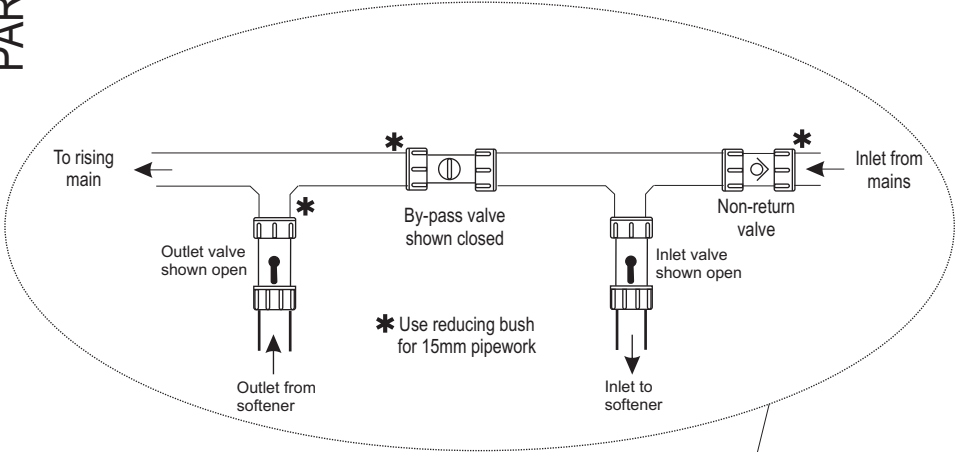
### 6. Drinking water

Your water softener installation must include at least one drinking water tap that is not fed by the water softener.

It is recommended that individuals on a low sodium diet should follow the Department of Health's advice that water from a domestic water softener should not be used for drinking or cooking. Softened water contains a small amount of sodium. It has been calculated that 1 pint of softened water contains a similar amount of sodium as two slices of white bread or  $\frac{1}{4}$  pint of milk.

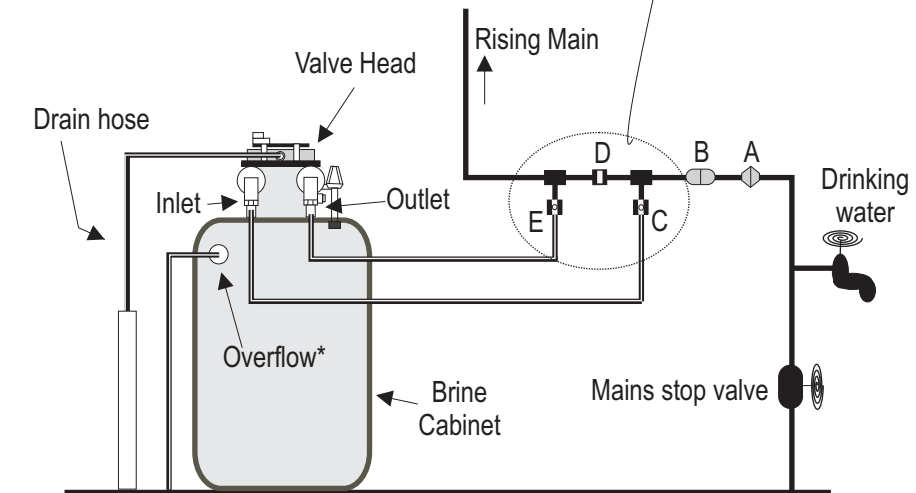
Water that is used for mixing powdered milk for babies must only be taken from an unsoftened mains tap as some powdered milks and softened water both contain sodium for which young babies have a limited tolerance.

# TYPICAL INSTALLATION LAYOUT



Key to the diagram

- A. Non return valve
- B. Pressure reducing valve (where required)
- C. Inlet valve
- D. By-pass valve
- E. Outlet valve



\* The overflow must discharge to a place that is visible outside the building.



# PART TWO

## INSTALLING YOUR WATER SOFTENER

### 1. Positioning the water softener

It is very important to establish the water pressure before installing the water softener. If the water pressure is low, then the water softener may not operate effectively. If it is too high, then components inside the unit may be damaged.

Water pressure should be tested with a gauge at the kitchen tap or outside tap. It should be noted that water pressure can increase at periods of low water usage e.g. overnight. **If, therefore, the daytime pressure exceeds 5 BAR or if you are unsure about pressure, then a pressure-limiting valve should be fitted.**

Where the pressure is less than 1.7 BAR, a booster pump may be required.

### 2. Inlet and outlet connections

With the bypass valve open and the inlet / outlet valves closed, the unit can be connected to the plumbing system. Arrows on the inlet and outlet piping from the valve will confirm the direction of flow.

Connections can be made with either conventional copper tube and fittings or the flexible hoses supplied. Ensure hoses are not kinked as this may restrict flow.

### 3. Drain connection

Push the flexible drain hose onto the barbed connector (drain) as shown on page 8 and secure with the clip provided. Run the drain hose to a stand pipe or to a drain. The air gap needs to be at least 20mm. Softened water will have no adverse effect on a septic tank. You can extend the drain up to 9m if you have sufficient pressure (greater than 3 BAR). The drain hose must not be kinked or restricted in any way as this will cause an overflow from the brine cabinet.

#### Frost protection

If the drain hose or connecting pipework is likely to be subject to temperatures below 0°C, it must be protected to prevent freezing. Failure to observe this precaution could lead to the water softener overflowing.

#### Raising the drain hose

If you have a water pressure of 3 BAR or more, you can raise the drain to a maximum of 3 metres above the valve head.

#### 4. Overflow connections

Rigid plastic 3/4" overflow pipe (not supplied with the softener) should be connected to the push fit elbow at the rear of the cabinet (see page 8). Run the pipe downhill to the outside of the building. Take care that the overflow does not discharge where damage could occur.

If the water softener is fitted in a cellar or basement, the overflow can be run to a storage tank. Do not elevate the overflow hose. Do not use jointing cement on the fitting.

#### 5. Electrical connections

For added safety, peace of mind and ease of installation, your water softener is powered by low voltage via a plug in transformer. This transformer must be connected to a switched socket. Plug the transformer into the socket with the switch in the OFF position.

#### 6. Filling the brine cabinet, salt usage and the salt alarm

Now place the water softener salt in the brine cabinet. Use care cubes (tablet salt) only, this is available from your local BWT stockist.


**Note:** Tablet salt or block salt can be used for the WS455 and WS555 models, depending on preference.

##### Notes on salt usage

Your water softener will only perform effectively if there is salt in the brine cabinet during the regeneration process. It is therefore essential that the salt level does not fall lower than 150mm in depth when measured from the base of the brine cabinet.

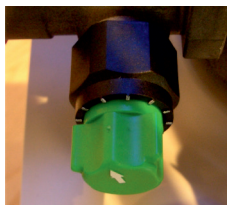
**Note: The softener requires no priming. Do not add water to the brine tank.**

During regeneration, salt will not enter your water system as the salt used in the regeneration process is rinsed safely away to drain.

Your water softener is equipped with a low salt reminder, this monitors your water usage and sounds an audible alarm whilst displaying the word "SALT", as a reminder to check the salt level. To reset the salt alarm, fill the brine tank with salt and press the  key twice.

#### 7. Blending control

All machines are factory set to produce water that is soft. If you prefer water which is less soft, turn the blending knob on the left side of the valve anti-clockwise until the water meets your requirements.



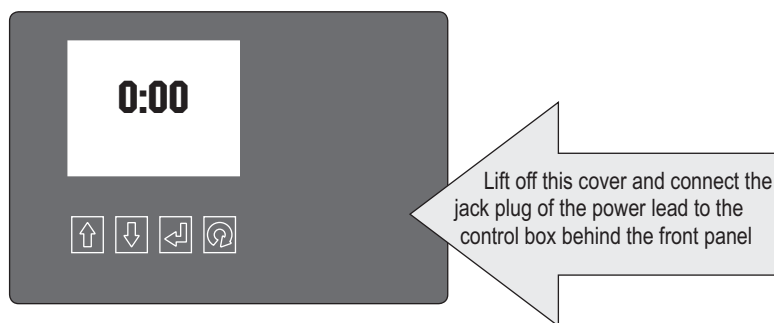
## 8. Testing for the water hardness in your area

Water hardness can vary from one location to another. To determine the hardness of the water feeding your water softener (un-softened supply), use the hardness test kit supplied.

- Fill the test bottle supplied to the fill line with water from a hard water tap.
- Add the tablets to the solution one tablet at a time.
- Shake the bottle in between and keep adding tablets to the water until the solution turns from wine red to blue, record the number of tablets as you go.
- Using the data table supplied with your kit, match up the number of tablets with the hardness. You will need this figure when programming your water softener in the next section of this manual.

## 9. Switching on for the first time

- Check that the inlet / outlet hoses or couplings are properly connected i.e. inlet-to-inlet, outlet-to-outlet.
- The by-pass arrangement should be in the open position i.e. the inlet and outlet valves closed, by-pass valve open. Mains stop valve open.
- Check that the brine cabinet contains salt.
- Check that the water softener is connected to the drain and the overflow pipe is connected. The drain and overflow **must not** be linked to each other.



- Gently open the inlet valve so that water flows into the resin vessel.
- Switch on the power, you will hear the valve move quietly into the start position. When the positioning process has been completed (which can take up to 10 minutes), you will hear the movement stop. The valve has now reached its start position in preparation for the programming procedure.
- Close the by-pass valve.
- Gently open the outlet valve.
- Check for leaks, take corrective action to stop leaks if required.
- Your water softener is now on line and you may start the valve programming procedure set out in the next section of this manual.

# PROGRAMMING PROCEDURE

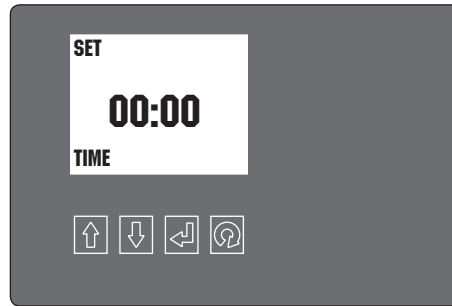


Fig1

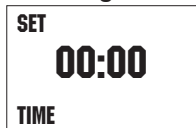


Fig2



Fig3



## 1. SETTING THE TIME OF DAY (see Fig1)

The first two digits (00) of the display will flash, prompting the installer to set the time.

The time is adjusted by using the keys. Pressing the key enters the hours.

The minutes are set by using the keys.

Pressing the key once enters the minutes and moves the display into the Set Hardness mode.

## 2. SETTING THE WATER HARDNESS (see Fig2)

The display default is 300 (typical hardness level) which indicates a setting suitable for hard water with a value of 300 parts per million of hardness minerals. Use the keys to adjust the setting to match that of the one you obtained / identified earlier. See page 11 for details.



Pressing the set key once enters the hardness and moves the display to Set Recharge Time Mode.

## 3. SETTING THE RECHARGE TIME (see Fig3)

To operate effectively, your water softener needs to regenerate periodically (dependent on the hardness of the supply and amount of water used). The default time of day when this is to occur is 2.00am. To alter this setting, use the keys.


Pressing the key once enters the recharge time and returns the display to Normal Operation Mode and no further adjustment of the water softener is required.

#### 4. Setting the Type of Salt. (See Fig4) \*For WS455 and WS555 models only

To operate effectively, your water softener must be set to the type of salt that you intend to use in the system. Block salt (BS) and care cubes (CC) are suitable. Use the   keys to select the type of salt used.

**Fig4**






Pressing the  button will return the display to the Normal Operation mode. Programming is now complete and now further adjustments of the water softener is required.

Remember to check the salt and water level in the brine cabinet weekly.

#### 5. Charge Bar

Having set the display on the control panel, you will notice that during normal operation, there is a charge bar running along the bottom of the display. This charge bar shows the percentage of water softener capacity remaining since the last regeneration. Immediately following a regeneration, the charge bar returns to 100%.

#### 6. Resetting the display during normal operation.

If the time is to be adjusted during normal operation, press any key to illuminate the display, press the  key once. The display will flash and indicate present time. Using the   keys will alter the time as described on page 12.

#### 7. Power loss

The AMECS system will maintain the individual programming parameters of the water softener for up to 72 hours.

If the power cut lasts longer than 72 hours, the control will flash "0:00" when power is returned to the control. The unit will continue to keep time from the moment power is restored. In this situation, the time of day will need to be reset.

#### 8. Flow indicator




During normal operation, a flow indicator will flash on the display at a rate of one litre per pulse when water is passing through the softener.

#### 9. Cleaning

Your water softener may be cleaned using a damp cloth and a mild detergent. Do not use bleaches, solvents or spirits as they may damage the surfaces.

## 10. Manual regeneration

Under normal operating conditions, your water softener will regenerate automatically and you should not normally have to regenerate the unit manually. If, however, a manual regeneration is required, then follow the procedure set out below.

1. Press any key to illuminate the display.
2. Momentarily pressing the  button (symbol underneath the display and furthest to the right) will illuminate Recharge Tonight on the display and perform a regeneration at 2.00a.m. regardless of the remaining water softener capacity.
3. If the  button is subsequently pressed, this will clear the Recharge Tonight indicator from the display and cancel the Recharge Tonight feature.
4. If the  is pressed down for approximately six seconds, the controller will flash the Recharge display and immediately commence the regeneration cycle which cannot be cancelled once started.

## 11. Salt usage

Your water softener is controlled by a microprocessor which constantly monitors water usage. The system will build up a history of your water requirements and calculate the most economical regeneration pattern. This will ensure a constant supply of softened water whilst maintaining high levels of water and salt efficiency. As your water softener uses a proportional brining system, more frequent regenerations do not necessarily mean high water / salt usage.

## 12. Increase in number of residents

Sudden changes in your water usage should not affect your water softeners performance. If, however, the number of guests staying with you increases, you will notice that the water usage patterns will alter. This may cause your water softener to regenerate more often than normal. As the water usage returns to its normal level, the number of regenerations will also return to normal.

## 13. Cabinet Water Level

During normal operation, the water level inside the water softener cabinet will rise and fall as required by the regeneration process. If the water softener is used within the specified operational parameters, the water level should not reach the overflow connection. If, however an overflow situation occurs, please refer to the troubleshooting section on page 15 to diagnose the problem.

Following any overflow situation, reduce the water level by half and initiate a manual regeneration as described above.


**Note: Check the water level weekly and following any unplanned event, e.g. power failure.**

# PART THREE

## TROUBLESHOOTING GUIDE

IF YOUR WATER SOFTENER IS NOT PERFORMING AS IT SHOULD, PLEASE RUN THROUGH THE CHECK LIST BELOW

CHECKLIST	SOLUTION	Page	Section
<b>PROBLEM: WATER STILL REMAINS HARD</b>			
Is there a minimum of 150mm of salt in the brine cabinet?	Fill the brine cabinet with salt.	10	6
Is the power on?	Switch the power on and check connections.	10-11	-
Is the softener online?	Close the by-pass valve and open the inlet and outlet valves.	11	9
Is the hardness setting correct?	Reset the hardness if required.	12	2
<b>PROBLEM: WATER LEVEL IN BRINE CABINET REACHES OVERFLOW</b>			
Is the line pressure within the specification of the water softener?	Connect a pressure gauge to a water outlet and check the pressure is between 1.7 - 5.0 bar.	9	1
Pressure falls outside of the water softener specification.	Fit a pressure reducing valve or booster pump as required.	9	1
Is there flow through the drain line?	Check the drain line is not kinked, blocked or frozen.	9	3
Has there been a power interruption?	Check that the power is on and the connections are secure.	10	5

**Note:** If any overflow situation occurs or if any of the above requires action reduce the water level by half, initiate a regeneration by pressing and holding the manual regeneration key  for more than six seconds.

CHECKLIST	SOLUTION	Page	Section
<b>PROBLEM: NO WATER</b>			
Is the mains stop valve open?	Open the mains stop valve.	11	9
Are the inlet and outlet valves of the water softener open?	Open the inlet and outlet valves to the water softener.	11	9
<b>PROBLEM: WATER RUNS FROM THE DRAIN CONSTANTLY</b>			
Is the unit in recharge mode?	If yes, this is normal, wait until the recharge is complete.	5	-
	There should be no flow to drain in the service position. Isolate the softener and call for service.	11	9
<b>PROBLEM: EXCESSIVE SALT USAGE</b>			
Check the hardness setting.	Reduce the hardness if incorrect.	11-12	8
<b>PROBLEM: ELECTRONIC DISPLAY</b>			
The display shows error code "Err 1", audible alarm sounds, (see note below).	Check all the connections are secure. Turn the power off for 10 seconds then turn back on, allow the system to reset.	10	5
The display shows error code "SALt", and an audible alarm sound.	The low salt alarm is active. Fill the brine cabinet with salt. Pressing the SET key will reset the salt alarm to full capacity of salt.	10	6
Is the digital display blank?	Check the power is turned on and all the connections are secure.	10	5
<b>PROBLEM: UNIT REGENERATES AT THE WRONG TIME</b>			
Is the present time correct?	Reset the present time.	12	1
Is the regeneration time correct?	Reset the regeneration time.	12	3

**Note.** If the home position is not detected within 10 minutes, the main display will show an Err 1 message to indicate a controller error and an audible alarm will sound. The error condition can only be cleared by removing and re-applying the power.

**IF PROBLEM PERSISTS, PLEASE CALL YOUR BWT STOCKIST OR CONTACT OUR TECHNICAL HELP DESK ON 01494 838 100.**



# SPECIFICATION TABLE

Model	WS355	WS455	WS555	WS655	WS755
Size	14 Litre	10 Litre	14 Litre	20 Litre	25 Litre
Height (mm)	602	532	602	804	804
Width (mm)	270	270	270	270	270
Depth (mm)	480	480	480	480	480
Unit weight Kg (empty)	22	18	22	27	32
Unit weight Kg (in service)	50	40	50	61	66
Maximum peak flow rate L/min* (hi-flo)	30 (50)	50	50	30 (50)	30 (50)
Maximum continuous flow rate L/min (hi-flo)	25 (30)	30	30	25 (30)	25 (30)
Basic flow rate (flow @ 1 bar pressure loss)	26	24	26	28	28
Minimum flow rate L/min* (hi-flo)	10 (10)	10 (10)	10 (10)	10 (10)	10 (10)
Min/Max salt usage per regeneration Kg**	1.2-2.4	0.3-1.2	0.6-2.0	0.9-2.5	1.2-3.0
Water used per regeneration litres**	<80	<75	<80	<125	<145
Maximum pressure (bar)	5.0	5.0	5.0	5.0	5.0
Minimum pressure (bar)	1.7	1.7	1.7	1.7	1.7
Maximum water temperature °C	49	49	49	49	49
Minimum water temperature °C	5	5	5	5	5
Primary voltage a.c. (transformer)	220	220	220	220	220
Secondary voltage d.c. (controller)	12	12	12	12	12
Inlet / outlet connections (BSP)	¾"	¾"	¾"	¾"	¾"
Drain connection (tube)	½"	½"	½"	½"	½"
Salt storage Capacity – Block/ Tablet (Kg)	n/a /20	8 /15	8 / 19	n/a /24	n/a /24
Maximum Softened Water Capacity (Litres)	2500	1667	2500	3333	4167

## Notes

\* Flow rates are from 10 and up to a peak of 50 litres / min. At flow rates under 10 litres / min, the hardness may not be effectively removed from the water. If peak flow rates are sustained for longer than 10 minutes, the softener capacity may be reduced resulting in hard water breakthrough.

\*\*The proportional brining control system calculates the exact amount of water and salt required to regenerate the water softener. The amounts used will vary depending on water usage patterns.

# WATER SOFTENER WARRANTY

Your new water softener has been designed to give you many years of satisfactory service and is guaranteed against faulty materials and workmanship for a minimum period of 12 months from the date of purchase. Under the provision of this the warranty agreement, the warranty liability is limited to the repair or replacement cost of the unit only and is subject to the terms shown below.

NOTE: Some models may be supplied with an extended warranty period as standard

## Conditions and Terms of the Warranty:

This warranty provides benefits, which are additional to, and do not affect, your legal rights. BWT will replace or exchange any necessary parts to repair free of charge any domestic water softener supplied by BWT or it's agents, located within the United Kingdom\*, which is shown to the satisfaction of BWT to be defective due to faulty workmanship or materials within a minimum of 12 months from the date of installation. If any domestic water softener has, in BWT's opinion, been used for commercial purposes, the period of cover will be reduced to 6 months.

### What services and associated costs are not included?

Repairs due to breakdown caused by but not limited to:

- *Use of the unit for purposes for which it was not designed or intended.*
- *Incorrect installation e.g. the failure to follow instructions or advice given by BWT or it's representatives.*
- *Any defect caused by malicious or willful action, negligence, misuse or third party interference.*
- *Any defect or damage occasioned by fire, lightning, explosion, flood, storm, frost impact or other extraneous cause.*
- *Consequential loss arising as a result of a defect occurring in the water softener or installation.*
- *Any defect or damage arising as a result of failure in the public electricity supply.*
- *Any damage to equipment other than the water softener caused as a result of hard water.*
- *Any damage to fixtures and fittings other than the water softener caused as a result of softened water.*
- *Any salt used or wasted as a result of a defect or damage to the water softener.*

### The repair costs for: -

- *Consumer replaceable items including but not limited to filters, batteries and light bulbs.*
- *Associate items but not part of the unit, including but not limited to, pipe work and electrical connections.*
- *The expense of a service call when the service engineer finds no fault.*

### Extended Warranties

In addition to the standard warranty, BWT can offer you the option to further extend this protection with one of their unique warranty and service plans that provides the peace of mind offered by an extended warranty and the practical benefits of a service plan.

For further details please see the literature supplied with your new water softener or phone 01494 838100.

\* **UK Mainland Only**



## Contact

BWT UK Limited  
BWT House, Coronation Road,  
High Wycombe. Buckinghamshire. HP12 3SU

**Tel:** 01494 838100

**Fax:** 01494 838101

**Email:** [enquiries@bwt-uk.co.uk](mailto:enquiries@bwt-uk.co.uk)

[www.bwt-uk.co.uk](http://www.bwt-uk.co.uk)

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