



### 1. Purpose:

The BWT WS155 is designed to remove the hardness minerals that cause limescale from potable water. With appropriate pre-treatment, it can also be used with other water sources.

### 2. Function:

Potable hard water enters the WS155 through a rotary valve mounted on top of the resin vessel. The water flows through high-quality resin, where the hardness minerals are removed via ion exchange, replacing them with sodium ions. The process effectively softens the water giving it many of the characteristics of naturally occurring soft water. Once the resin is exhausted, it is regenerated with a small amount of brine, releasing the hardness of minerals from the resin and washing them away. The process can now be repeated. Note: The WS155 is designed to be installed on a separate circuit from the drinking water supply, ensuring the drinking water remains unaffected.

### 3. Operation:

The predictive control function allows the WS155 to achieve high efficiency through proportional brining, minimizing water and salt consumption. The resulting softened water (0 °fH or 0 ppm) can be blended with hard water using the manual

blending valve on the side of the valve assembly to meet individual requirements. Once set up, it requires minimal user intervention, except for occasionally topping up with BWT water softener salt.

### 4. Key Benefits at a Glance

Compact design - features minimal footprint and low height

Fully-automatic operation

Predictive regeneration maximises softened water capacity

Proportional brining for reduced water and salt consumption

Delivered fully assembled for easy set-up and commissioning

Digital control system for maximum performance and efficiency

Rotary valve for greater reliability

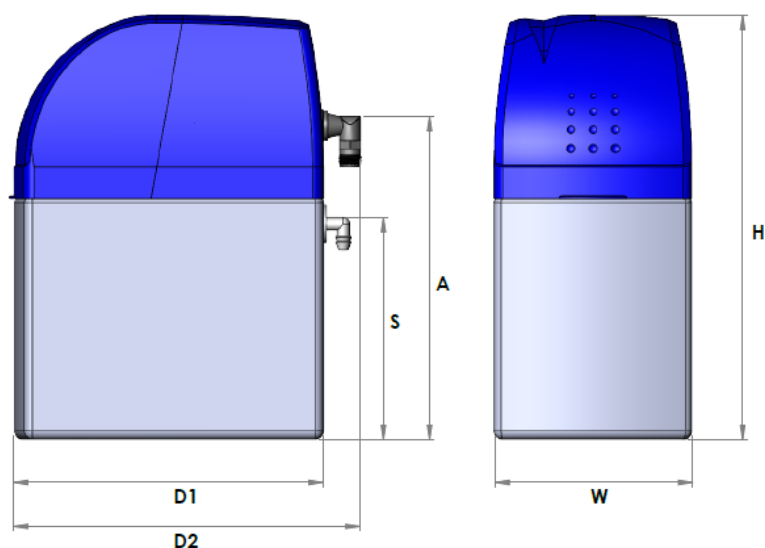
Removable hood for the easy addition of salt

Tested and fully compliant with the European quality Norm EN4743

**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.

## 5. Technical Data

| BWT WS  | Type                          | 155             |
|---|-------------------------------|-----------------|
| Connecting diameter (external thread)                         | BSP                           | ¾" (DN 20)      |
| Nominal flow as per EN 14743                                  | l/h                           | 732             |
| Operating pressure EU (min./max.)                             | bar                           | 1.0/8.0         |
| Operating pressure UK (min./max.)                             | bar                           | 1.7/5.0         |
| Pressure drop down at nominal flow in accordance with EN14743 | bar                           | 1.0             |
| Ion exchanger resin   | I                             | 4               |
| Nominal capacity EN 14743/ (CaCO <sub>3</sub> mmol/l)         | m <sup>3</sup> x °dH/ mol/ppm | 9/1.6/160       |
| Capacity salt reservoir                                       | kg                            | 8               |
| Salt consumption per regeneration                             | kg                            | 1.0             |
| Water consumption per regeneration                            | l                             | 55              |
| Protection class  | IP                            | 51              |
| Feed water temperature (min./max.)                            | °C                            | 5/30            |
| Ambient temperature (min./max.)                               | °C                            | 5/40            |
| Power connection internal/external/frequency                  | V/V/Hz                        | 220-240/12/50   |
| Width, depth, height (W x D2 x H)                             | mm                            | 230 x 404 x 493 |
| Connection height (A)/Overflow height (S)                     | mm                            | 376/250         |
| Operating weight, approx.                                     | kg                            | 30              |



## BWT Austria GmbH

Walter-Simmer-Straße 4 • A-5310 Mondsee  
Tel.: +43 6232 5011-0 • office@bwt.at

www.bwt.com

## BWT UK Limited

The Gateway Centre, Coronation Road,  
High Wycombe, Buckinghamshire, HP12  
3SU

Tel.: +44 (0) 1494 838100 ·  
enquiries@bwt-uk.co.uk www.bwt.com

