

## **Thank you very much for buying your new water filtering system by BWT!**

You have made a good choice, as your new water filtering system is a real quality product produced by BWT, the Europe-wide leading water technology specialist from Austria.

Conventional water filters reduce carbonate hardness for prevention of lime scale deposits, remove concentrations of heavy metals, e.g. lead and copper, (if contained in the water) and eliminate taste-distorting elements, e.g. chlorine, from the tap water. An ion exchanger takes on the main function by taking up nearly all of the previously mentioned substances, except chlorine, primarily in exchange with hydrogen ions. The result is a sour taste due to the low pH-value of the water, which is in particular noticed at the beginning of the utilization phase.

**BWT takes an entirely different approach and thanks to the innovative  $Mg^{2+}$  formula offers a significant advantage.** In addition to the above mentioned functions of a water filter, BWT in exchange with total hardness, uses magnesium ions so that the water tastes less sour.




**The pleasant effect:** The valuable mineral magnesium serves as flavour carrier and thus provides for improved taste and more intense aroma of tea, coffee and drinking water. A real benefit for all who like to indulge their taste buds! The new BWT water filtering system at the same time combines indulgence with a healthy way of life and therefore totally complies with the spirit of the time.



## **We hope you enjoy using our water filtering system produced by BWT!**

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## 1. PRODUCT TYPE AND PRODUCT DESIGNATION

BWT water filtering systems		
2,7 L longlife Mg <sup>2+</sup>	3,3 L longlife Mg <sup>2+</sup>	3,6 L longlife Mg <sup>2+</sup>
		

BWT filter cartridges	
universal Mg <sup>2+</sup>	longlife Mg <sup>2+</sup>
	

## 2. FUNCTION OF THE BWT FILTER CARTRIDGE

In the BWT water filtering system the potable water is treated in 4 filtration stages:

- Stage 1:** Particle filtration
- Stage 2:** Reduction of lime scale and heavy metal concentrations, **exchange of calcium through magnesium ions**
- Stage 3:** Reduction of undesirable odours and taste-distorting substances (chlorine) and certain organic impurities
- Stage 4:** Fine filtration



### CLEAR WATER - CLEAR RESULTS

The water filter is ideal for preparation of hot and cold drinks as well as for cooking. The lime content of the water is reduced. Particles contained in the water are filtered out of the water by using fine filters. Tea, coffee as well as ice cubes are clear without any clouds.



### TASTY WATER

Undesirable odours and taste-distorting substances, e.g. chlorine, are eliminated from the water. Tea, coffee and potable water prepared with filtered water, thanks to the  $Mg^{2+}$ -formula, reach their full aroma and are of better taste. Sensor tests carried out by independent institutes confirm this.



### SAVINGS

Scale deposits in coffee machines, espresso machines, pots and water kettles are reduced, by which their service life is extended. Apart from that you not only save good money, but also the cumbersome carrying of heavy water bottles, when you use BWT as potable water.



### BETTER WATER

Concentrations of heavy metal, as for example lead and copper and organic impurities, e.g. certain herbicides and pesticides are reduced.

### 3. INTENDED USE

- !** The BWT water filtering system may only be operated with cold water fulfilling the legal requirements made on potable water quality.
- !** The water filter is unsuitable for the production of potable water; i. e. the filter may not be used for treatment of contaminated water.
- !** The BWT filtered water is intended for short-term use. It may not be exposed to direct radiation of the sun, is to be stored in a cool place and not longer than 24 hours. If the filtered water is kept longer than 24 hours in the water filtering system, white marks may occur in the jug through the evaporation of water, which can easily be removed through cleaning.
- !** After filtering more than 3 litres subsequently, a pause of at least 15 minutes should be made.
- !** Permanent water contact of the filter cartridge is not particularly necessary, in order to guaranty long-term operation of the filter cartridge. The filter cartridge continues to function, also if it was taken out of the water for some time.
- !** If from the official side you are requested, to boil the tap water due to contamination with germs, this also applies to BWT filtered water. When the authorities classify the tap water again as harmless and release it for consumption, the filter cartridge must in any case be changed. The water filtering system is to be cleaned (see chapter 6.1 and 8).
- !** For certain groups of people, e.g. persons with limited immune defence and for the preparation of baby food, the BWT filtered water is to be boiled.
- !** For hygienic reasons the filter cartridge contains small quantities of silver, in order to suppress the growth of germs. A small quantity of silver may be given off to the water. It is harmless and in compliance with the corresponding recommendations of the World Health Organization (WHO) for potable water.
- !** The filter cartridge shall be replaced at least 4 weeks after its first use.

## 4. EFFICIENCY OF THE FILTER CARTRIDGE

The service life of the filter cartridge varies according to the place of application, as the quality of water is not everywhere the same. The total hardness of the filter cartridge compared to the retained hardness depends on the hardness of the water. The harder the water, the earlier the filter cartridge will be exhausted.

### Filter capacities

**longlife Mg<sup>2+</sup>** 120 l at TW\* = 15 – 17,8°d

**universal Mg<sup>2+</sup>** 100 l at TW\* = 15 – 17,8°d

\*TW = total water hardness

The mentioned substances, e.g. lead and copper, which are reduced by the filter, are not always contained in potable water.

The water filter fulfils the microbiological requirements made on water filters according to DIN 10521. The requirements according to DIN 10521 made on chlorine, lead and copper retention are fulfilled.

## 5. BWT QUALITY

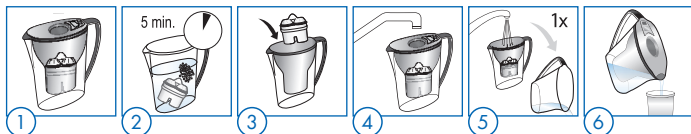
BWT products are manufactured according to the strictest quality requirements. The food quality of the products is monitored by the independent TÜV Rhineland/State Public Health Authority.

BWT gives you a manufacturer's warranty of two years on the water filtering system you have bought.



## 6. HANDLING INSTRUCTIONS

### 6.1 Initial operation and filter cartridge change



- ① Prior to the first use or change of the exhausted filter cartridge clean jug, funnel and lid of the BWT water filtering system with mild soapy water and rinse thoroughly with warm water. Do not use any abrasive cleaning agents or scrubbing sponges, as scratch marks could be left on the BWT water filtering system. Jug and funnel can be washed in the dishwasher. The lid may not be washed in the dishwasher.
- ② In order to achieve best possible filtration performance, we recommend you to put the new filter cartridge in tap water for 5 minutes. After that please discard the water.
- ③ Subsequently insert the new filter cartridge into the funnel of the water filtering system by pressing it in lightly.
- ④ If the BWT water filtering system is equipped with the automatic filling system „Easy-Fill“ in the lid, it is not necessary to take off the lid when filling the jug. The „Easy-Fill“ system opens automatically, when the water jet meets the opening and closes automatically after filling. If the BWT water filtering system does not have an opening in the lid, the lid must be removed. BWT recommends you to close the lid after filling.
- ⑤ Discard the first filtered water filling and refill the BWT water filtering system. Fine black particles of activated carbon could be flushed out, which are, however, completely harmless. In this case we recommend to refill the jug and discard the water again until it is clear and free from particles.
- ⑥ The BWT water filtering system is now ready for use.

## 6.2 Electronic exchange indicator „Easy-Control“

The „Easy-Control“ counts the number of fillings and the service life and reminds you of the filter cartridge change by flashing in the display. If the filter cartridge is not changed, the „Easy-Control“ counts the following fillings. At interruptions of use the time can be stopped and restarted when use is continued. By filling or by pressing the „Easy-Control“ button once, the current number of fillings is shown.

In the electronic exchange indicator an average filter capacity is programmed depending on the BWT water filtering system used:

- BWT water filtering system with universal (round) filter cartridge: 100 litres
- BWT water filtering system with longlife (oval) filter cartridge: 120 litres

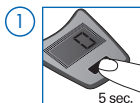


Filter capacities	Fillings	Days
2,7 L longlife Mg <sup>2+</sup>	100	28
3,3 L longlife Mg <sup>2+</sup>	85	28
3,6 L longlife Mg <sup>2+</sup>	85	28

Please observe that the „Easy-Control“ indicates the number of fillings (the volume of the funnel varies depending on the BWT water filtering system) and not the filtered number of litres. See the above table.

A change of the filter cartridge should be carried out at the latest after 4 weeks, also if the capacity (number of fillings) of the filter cartridge has not yet been reached. This is indicated by flashing of the „Easy-Control“ display.

The „Easy-Control“ is designed for a service life of 3.5 years. In the event of your „Easy-Control“ being defective, please contact our service team. We will be happy to replace the cover for you



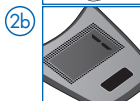
### 1 Putting into operation:

Press the push button for 5 seconds. The indication then automatically adjusts to „0“ and the „Easy-Control“ is now ready for operation.



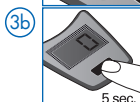
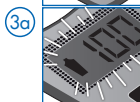
### 2 Counting function:

Each filling of the BWT water filtering system is counted by means of the „Easy-Control“.



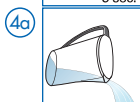
### 3 Filter cartridge change:

The display starts flashing if either the maximum number of fillings or the maximum period of use is exceeded (depending on what happens first). Now a change of the filter cartridge becomes necessary. After inserting the cartridge, please keep the push button pressed for 5 seconds. The counter then automatically adjusts to „0“.



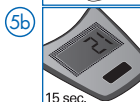
### 4 Pause function:

If you want to interrupt the use of the filter (e.g. at weekends), you can use the pause function. Empty the jug and leave the cartridge in the system. Press the push button for 3 times. The display then automatically adjusts to „P“ (pause). The time as well as the filling quantity is stopped. Please keep the water filtering system together with cartridge in the fridge. After your return activate your „Easy-Control“ by refilling or by pressing the push button for three times. The stored counter reading is shown in the display. Please discard the first filling after the pause. At active pause function the display continues indication until the pause is finished.



### 5 Safety function:

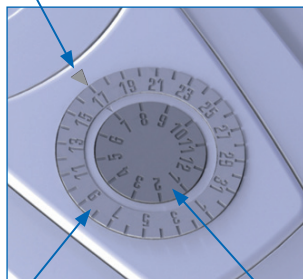
In order to guarantee correct counting, the „Easy-Control“, after each filling, makes a counting pause of 15 seconds. Even if during this time the „Easy fill“ is opened for several times, recording of the fillings is correct.



## 6.3 Manual exchange indicator

At the manual exchange indicator the date for the next filter cartridge change can be set. The exchange indicator consists of two turnable rings. The internal ring indicates the month, the external ring the day. The date for the change of the filter cartridge is set by turning the rings so that day and month for change are aligned with the arrow in the lid. The filter cartridge should be changed at least after 4 weeks, also if the capacity (number of fillings) of the filter cartridge has not yet been reached.

Arrow



Daily counter

Monthly counter



## 7. UTILISATION AND SERVICE LIFE

### 7.1 Recommendations on the frequency of filter cartridge/ filter material change

- Optimal water is only guaranteed, if the filter cartridge is changed regularly. The BWT water filtering system is equipped with a manual or electronic exchange indicator, which indicates when the filter cartridge should be changed. (Operation see chapter 6).

### 7.2 Instructions on interruption of use

- If use is interrupted, please keep the water filtering system together with the cartridge in the fridge.
- In case of interruption of use of more than two days (weekends), pour out the first filling and refill the water filter.
- After a downtime of more than 2 weeks, replace the filter cartridge (see chapter 6.1).

## 8. CARE & CLEANING OF THE BWT WATER FILTERING SYSTEM

- At each change of the filter cartridge, please clean the BWT water filtering system with mild soapy water and rinse it thoroughly with warm water. Do not use any abrasive cleaning agents or scrubbing sponges, as scratch marks could be left on the water filtering system. Jug and funnel can be washed in the dishwasher.
- During use of the BWT water filtering system lime stains may occur in particular on the lid of the BWT water filtering system through dried water drops. The lime stains can be removed with a commercially available decalcification agent.
- The lid including the „Easy-Control“ may not be cleaned in the dishwasher.

## 9. PROPER STORAGE OF THE FILTER CARTRIDGE

- Spare filter cartridges should always be kept in the original packing foil until the filter cartridge is changed.
- Spare filter cartridges are to be stored in a cool and dry place and may not be exposed to direct sunlight.

## 10. RECOMMENDATION AS REGARDS DISPOSAL

Always observe the local waste disposal regulations!

- **Filter cartridges and filter filling:** Exhausted filter cartridges are disposed of with your household waste.
- **Packing material:** Foils and cardboard packing are - if possible - disposed of according to the system of waste separation. This way you make a substantial contribution to environmental conservation.
- **Water filtering system:** The water filtering system is - if locally possible - disposed of according to the system of waste separation. This way you make a substantial contribution to environmental conservation.
- **The exchange indicator „Easy-Control“** is an electronic component, which is to be disposed of according to the locally applicable regulations and legal provisions. The exchanger indicator can be removed from the lid by means of a screwdriver, which is put under the rim of the „Easy-Control“. The „Easy-Control“ may only be removed from the lid for reasons of disposal.



## 11. MANUFACTURING AND DISTRIBUTION

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# BWT – The Company

The Best Water Technology Group was formed in 1990 and is today Europe's leading water technology company. More than 2,800 employees in over 70 subsidiaries and associates together with thousands of service employees, plumbers, planners, architects and hygiene experts constitute the BWT water partner network. Employees in Research & Development work on new processes and materials using state-of-the-art methods to target the development of ecological and at the same time economical products. Thereby the reduction of energy consumption of products and the consequent minimisation of CO<sub>2</sub> emissions is a key issue.

When it comes to water, almost everywhere, whether at the entrance of the water pipe into a building – the point of entry - or at the tapping point – the point of use, the trend-setting products by BWT are in use and have proved their quality millions of times. For the treatment of drinking water, mineral water and ultrapure water for the pharmaceutical industry as well as in swimming pools, heating and process water, boiler and cooling water as well as for water for air-conditioning. Extensive innovations guarantee our customers maximum security, hygiene and health in the daily use of water, the precious elixir of life. These innovations, among others, include SEPTRON, the worldwide first electrode deionisation module (EDI) with spiral wrap, the MDA (manganese oxide activation) – method for effective manganese removal, the bipolar technology AQA total for chemical-free lime protection, SANISAL – the worldwide first regeneration salt for softening systems, which at the same time works as a disinfectant as well as the new, revolutionary Mg<sup>2+</sup>-technology for better taste of filtered water, coffee and tea. With unique high efficiency membranes for fuel cells and batteries, BWT is bringing about a cleaner and sustainable energy supply in the 21<sup>st</sup> century.

BWT – For You and Planet Blue is our mission to take ecological, economical and social responsibility, to provide our customers and partners with the best products, systems, technologies and services in all areas of water treatment and simultaneously contribute valuably to preserve the global resources of our blue planet.

[www.bwt-filter.com](http://www.bwt-filter.com)

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