

BWT FS24M10A00

BWT Bestmin Premium M Water Filter Instruction Manual

Model: FS24M10A00

1. INTRODUCTION

The BWT Bestmin Premium M is a high-performance water filter system designed to optimize low-mineral raw water for various applications, particularly for coffee and tea preparation. This modular multi-stage filter effectively reduces undesirable substances such as particles, flavorings, and odors, including chlorine. It enriches the water with valuable magnesium, enhancing the sensory profile of beverages.

This system is suitable for use in areas with soft water and in conjunction with reverse osmosis systems. It ensures a consistent water quality, making it ideal for coffee machines, espresso machines, and vending machines worldwide.



Water for hot drinks

All-round protection for professional and fully-automatic coffee machines

Water: the basis of good coffee

At 98%, water is the main ingredient in all coffee preparations. With the right water it is possible to extract the valuable taste and aromas from the roughly 1,000 substances contained in roasted coffee beans that coffee lovers appreciate so much. So for everyone who enjoys Germany's most popular hot drink it's worth taking a closer look at their coffee water and understanding its composition.



Image 1.1: Overview of the BWT Bestmin Premium M filter system, highlighting its mineralization capabilities for catering applications.

2. SETUP AND INSTALLATION

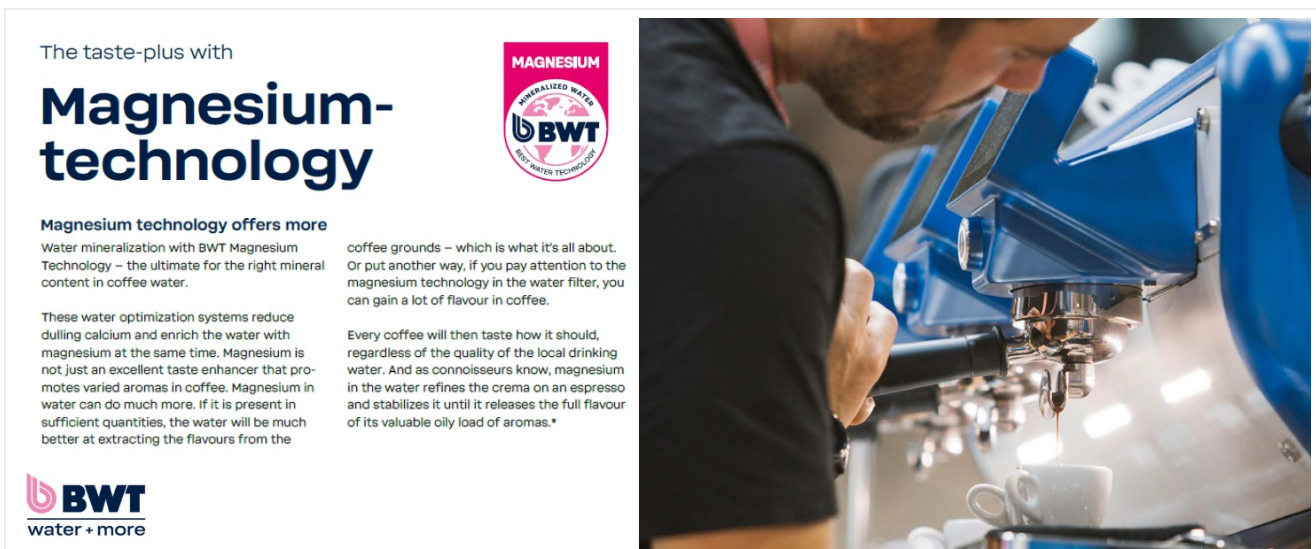
Proper installation is crucial for the optimal performance of your BWT Bestmin Premium M filter system. The system consists of a filter cartridge and a BWT besthead filter head (sold separately or as part of a set).

2.1. Components Required

- BWT Bestmin Premium M filter cartridge (Model: FS24M10A00)
- BWT besthead filter head (e.g., FS00Z20A00 or FS00Z39A00)
- Appropriate connection hoses and fittings (3/8" x 3/8" connection recommended)

2.2. Installation Guidelines

1. **Positioning:** The filter system requires **vertical installation only**. Ensure sufficient space for maintenance and filter changes.
2. **Water Inlet:** Connect the water inlet to the designated port on the BWT besthead filter head.
3. **Outlet to Appliance:** Connect the outlet from the filter head to your coffee machine, espresso machine, or vending machine.
4. **Check Valves:** The filter head includes integrated check valves to prevent backflow and uncontrolled water discharge.
5. **Operating Conditions:** Ensure your water supply meets the following conditions:
 - Input pressure: 2-8 bar
 - Water temperature: 4-30 °C
 - Ambient temperature: 4-40 °C



The taste-plus with

Magnesium-technology

Magnesium technology offers more
Water mineralization with BWT Magnesium Technology – the ultimate for the right mineral content in coffee water.

These water optimization systems reduce dulling calcium and enrich the water with magnesium at the same time. Magnesium is not just an excellent taste enhancer that promotes varied aromas in coffee. Magnesium in water can do much more. If it is present in sufficient quantities, the water will be much better at extracting the flavours from the coffee grounds – which is what it's all about. Or put another way, if you pay attention to the magnesium technology in the water filter, you can gain a lot of flavour in coffee.

Every coffee will then taste how it should, regardless of the quality of the local drinking water. And as connoisseurs know, magnesium in the water refines the crema on an espresso and stabilizes it until it releases the full flavour of its valuable oily load of aromas.*

BWT
water + more

Image 2.1: Technical data and a diagram illustrating the standalone installation of the BWT Bestmin Premium M filter with a coffee machine.

3. OPERATING PRINCIPLE

The BWT Bestmin Premium M filter utilizes a multi-stage filtration process to deliver optimized water quality:

1. **Particle Pre-filter:** Separates coarse particles such as sand and rust from the raw water.
2. **Activated Carbon:** Eliminates organic substances, chlorine, foreign odors, and tastes.
3. **Mineralization Stage:** Releases essential minerals, particularly magnesium (Mg^{2+}), into the water, acting as a flavor carrier.
4. **Particle Fine Filter:** Separates fine particles and suspended matter, ensuring clear water.

This comprehensive process ensures that the water is perfectly mineralized for brewing coffee and other hot beverages, enhancing their taste and aroma.

BWT bestmin

Perfect mineralized water for catering

BWT bestmin is a filter system for mineralizing low-mineral water in order to make sensorily perfect coffee, coffee specialities or tea. The modular multi-stage filter reduces undesirable ingredients such as particles, flavourings and odours such as chlorine. Thanks to its mineralization level, this filter refines low-mineral raw water into a gourmet water that, in addition to calcium, contains valuable magnesium as a flavour carrier. BWT bestmin is therefore eminently suitable for [re]mineralizing water in a controlled and reproducible manner that is low in minerals either naturally or following processing by means of reverse osmosis.

The filter system consists of a filter cartridge with a screwed on BWT besthead filter head. Check valves in the filter head prevent backflow and uncontrolled water discharge. Food grade BWT bestmin filter systems are pressure-resistant and safe. They can be used worldwide in all drinking water systems and with any coffee or vending machine.



The Mineralizer



Image 3.1: Detailed diagram illustrating the four-stage filtration process within the BWT Bestmin Premium filter cartridge and besthead filter head.

TECHNICAL DATA

Filter size	M
Typical capacity in liters	10,000
Total height without bracket (A) in mm	485
Connection height (B) in mm	424
Ø filter cartridge (C) in mm	130
Weight in kg, (dry/wet)	4.1/5.6
Filter change after month	after 6 or 12*

BWT BESTMIN – THE MINERALIZER

Main advantages

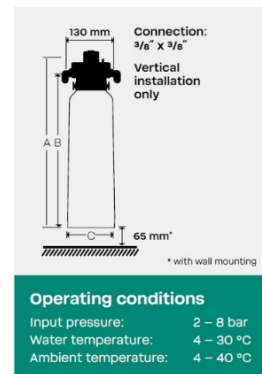
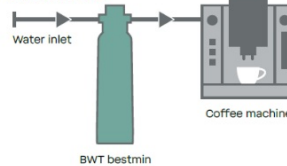
- › Special filter system for remineralizing practically salt-free water
- › Ideal in combination with the BWT bestaqua ROC MIN system for heavily salty and chlorinated raw water
- › Produces an even mineral balance in the water to the benefit of magnesium
- › Supplies perfect water for making sensorily high-quality hot beverages
- › Ideal for soft water areas as well

Technical features

- › Multistage filtration
- › Integrated active carbon filtration
- › Filtration of the complete processed water
- › Simplest handling when changing filters
- › Easy to install using universal BWT besthead FLEX connection system

USE/INSTALLATION

Standalone



Operating conditions

Input pressure:	2 – 8 bar
Water temperature:	4 – 30 °C
Ambient temperature:	4 – 40 °C



Image 3.2: The importance of water quality for hot beverages, emphasizing the role of the filter in enhancing taste.

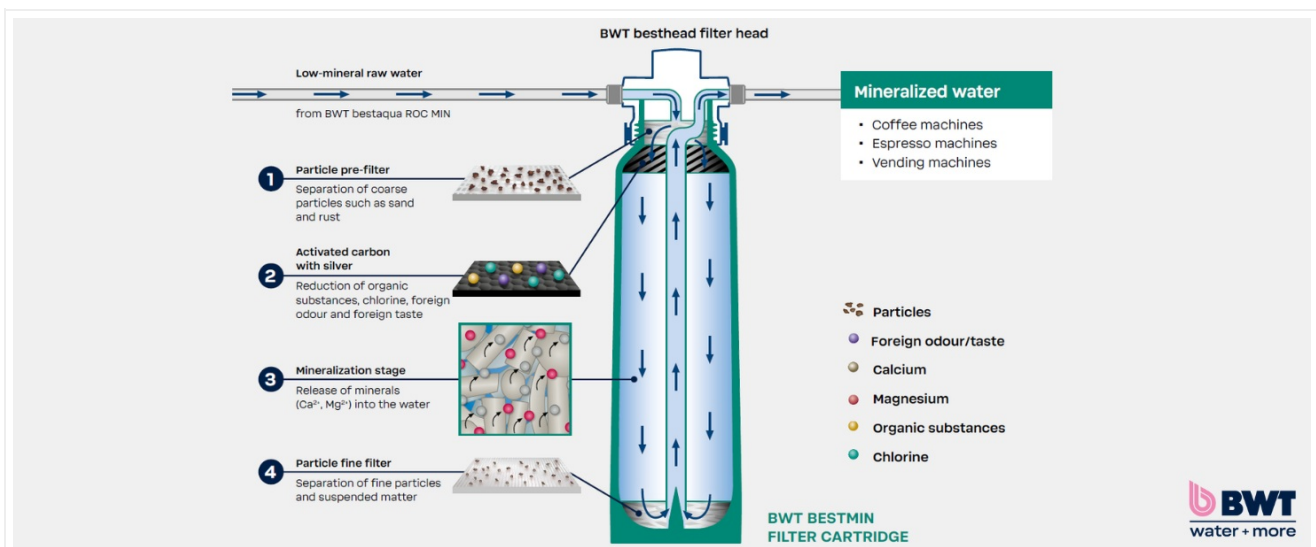


Image 3.3: Comparison of BWT remineralizing products and an integral setup diagram for the filter system.

4. MAINTENANCE

Regular maintenance, primarily filter cartridge replacement, is essential to ensure continuous high-quality water and

optimal system performance.

4.1. Filter Cartridge Replacement

The BWT Bestmin Premium M filter cartridge should be replaced after 6 or 12 months of use, depending on water quality and usage volume. Refer to the technical data for specific recommendations. Always use genuine BWT replacement cartridges.

1. Turn off the water supply to the filter system.
2. Depressurize the system if necessary.
3. Unscrew the old filter cartridge from the BWT besthead filter head.
4. Insert the new filter cartridge, ensuring it is securely screwed into place.
5. Slowly turn on the water supply and check for leaks.
6. Flush the new filter cartridge according to the instructions provided with the replacement filter.

5. TROUBLESHOOTING

If you experience issues with your BWT Bestmin Premium M filter system, consider the following:

- **Reduced Water Flow:** Check if the filter cartridge needs replacement. A clogged filter can restrict water flow.
- **Unusual Taste or Odor:** This indicates that the filter media may be exhausted. Replace the filter cartridge.
- **Leaks:** Ensure all connections are tight and that the filter cartridge is correctly seated in the filter head. Check O-rings for damage.
- **No Water Flow:** Verify that the water supply is turned on and that there are no blockages in the lines.

For persistent problems not resolved by these steps, please contact BWT customer support.

6. SPECIFICATIONS

Feature	Specification
Model Number	FS24M10A00
Filter Size	M
Typical Capacity	10,000 Liters
Total Height (with handle)	500 mm
Height (without handle)	475 mm
Connection Height	425 mm
Diameter Filter Cartridge	130 mm
Weight (dry/wet)	4.1 kg / 5.6 kg
Material	Carbon Fiber
Input Pressure	2-8 bar
Water Temperature	4-30 °C
Ambient Temperature	4-40 °C

Feature	Specification
Product Benefits	Removes impurities and improves water quality by adding minerals

7. WARRANTY AND SUPPORT

For information regarding product warranty, please refer to the documentation provided at the time of purchase or visit the official BWT website. BWT stands behind the quality of its products.

7.1. Customer Support

If you require technical assistance, have questions about installation, operation, or maintenance, please contact BWT customer support. Contact details can typically be found on the BWT website or on your product packaging.

You can also visit the [BWT Store on Amazon](#) for more product information and resources.