

# BWT Multi C

Whole-house media filter

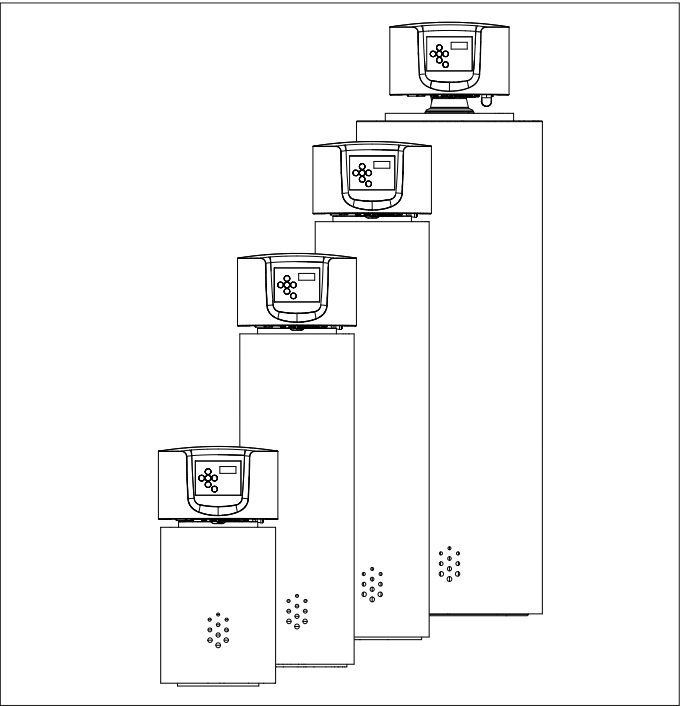
Types: 1000.2, 2000.2, 3000.2, 7000.2

EN-AUS

Product data sheet

0000042258

POE\_DT98



Current version dated: 03.2025

Replaces all previous versions

Ref. installation/operating manual no. 1-511213

## 1 Use

### 1.1 Intended use

The BWT Multi C is a granular activated carbon (GAC) filter which reduces extensively the concentration of chlorine, colour- and smellcausing contaminants in drinking water. The filter also removes turbidity so that the filtrate fulfils the requirement for the maximum permissible turbidity in drinking water.

The filters are not suitable for oils, grease, solvents, soaps and other lubricating media.

The intended use presupposes that the filter is installed, operated and maintained according to the instructions and regulations of Installation and operating manual.

### 1.2 Foreseeable misuse

Operating the system with parameters other than those specified in the Installation and operating manual and in section 1.1.

Not adhering to the prescribed maintenance and service intervals.

Using spare parts and consumables not approved by BWT.

### 1.3 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 the Installation and operating manual or on the system.

### 1.4 Other applicable documentation

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

Pay attention to the Installation and operating manual.

## 2 Function

### 2.1 General information

During operation, water flows from top to bottom through the filter bed and impurities are filtered out or absorbed. The product performs backflushing once the predefined quantity of water (capacity) has flown through. In this case, the water flows from bottom to top through the filter bed. This loosens the filter material and the impurities are flushed out. During backflushing, the device can be operated with unfiltered water through the bypass valve.

#### Product behaviour in the event of a power failure:

|            |                                                                                                                                                                                                                                                                                                                             |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Electrical | The settings are permanently saved in the event of a power failure. Once the power is restored, the product continues operating from the point where it was before the power failure. If the product is in the backflushing operating state when the power fails, the process is not completed until the power is restored. |
| Hydraulic  | Control valve hydraulically maintains its position. The AQA Safe valve closes. The outlet of backflush water stops.                                                                                                                                                                                                         |

3 Scope of delivery

BWT Multi C

3.1 Product overview

|     |                                                                               |
|-----|-------------------------------------------------------------------------------|
| 1   | Control valve                                                                 |
| 1.1 | Microprocessor control-unit wit backlit display and 6 logically arranged keys |
| 1.2 | Crossvalve                                                                    |
| 1.3 | Water meter for filtered water                                                |
| 1.4 | Integrated bypass-valve for water-bypass during backwash                      |
| 1.5 | AQA Safe Valve                                                                |
| 2   | Pressure tank, fibreglass reinforced polyester                                |
| 3   | Central tube, installed with nozzle system                                    |
| 4   | Filtermaterial (Activated carbon according to DIN EN 12915-1; NSF 61)         |
| 5   | Filter gravel, 1-2 mm or 2 - 3,5 mm                                           |
| 6   | Outlet: Filtered water                                                        |
| 7   | Inlet: Unfiltered water                                                       |
| 8   | Power supply unit                                                             |
| 9   | Insulation                                                                    |
| -   | Adapter (only with Multi 7000.2 C)                                            |

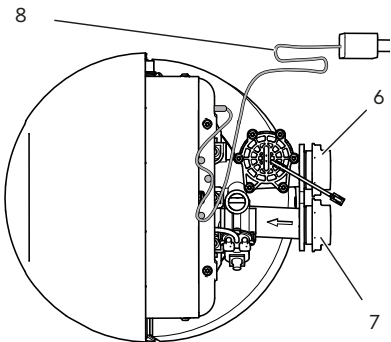
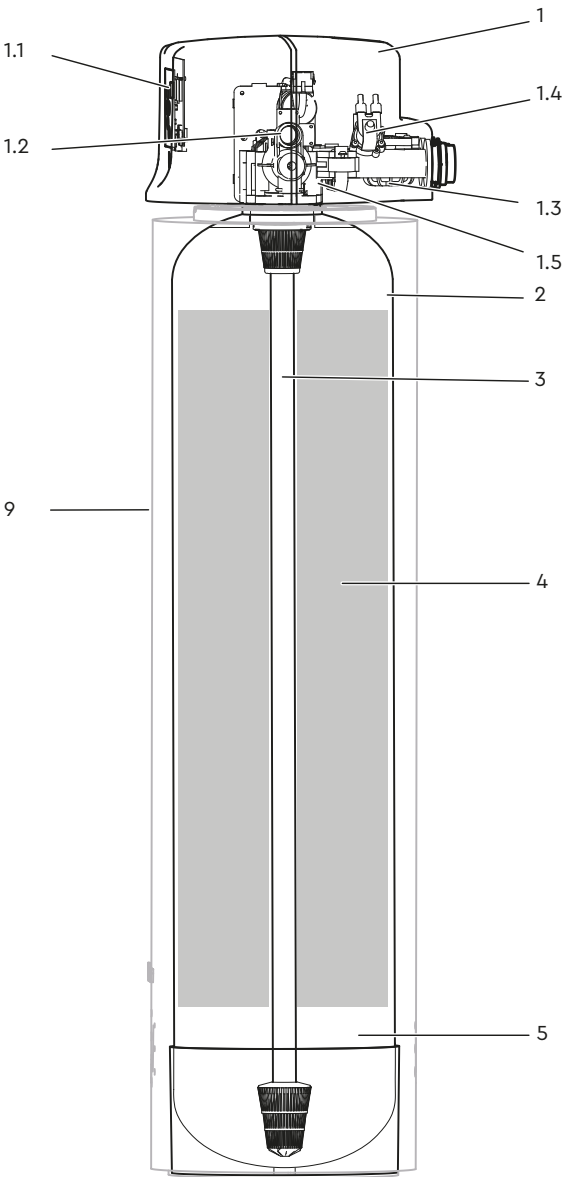
Optional accessories

(not included in delivery)

|              |               |
|--------------|---------------|
|              | Order number: |
| Multiblock X | 125596636     |

All materials used are corrosion-resistant and suitable for use in drinking water treatment.

|                                                                                                                            |                 |
|----------------------------------------------------------------------------------------------------------------------------|-----------------|
| The product complies with the requirements of WMTS-103 Water treatment systems (other than those specified in AS/NZS 3497) |                 |
| Watermark Licence:                                                                                                         | IAPMO-WM-022072 |



## 4 Installation conditions

### 4.1 General information

The product must be installed as per AS/NZS 3500.1 (Australian national plumbing code).

Observe all applicable local installation regulations, general guidelines, general sanitary requirements and technical specifications. In some countries, the installation of a system separator is required.

This installation is connected to the public drinking water system; it also requires the installation of a BA system separator in accordance with EN 1717.

The flushing water hose must be routed at an incline to the sewer system or connected to a pump.

### 4.2 Installation location and environment

The installation location must be frost-proof; it must also ensure that the product is protected from chemicals, dyes, solvents, vapours and allow easy connection to the water network. The room should also not be used for the storage of substances that could endanger the quality of the water. The ambient temperature should not exceed 40° C.

A sewer connection (at least DN50), a floor drain and a separate power connection (230 V/50 Hz) must be available in the immediate vicinity.

The rated mains power (230 V/50 Hz) and the required operating pressure must be present at all times.

**Device must be installed immediately downstream of an AS/NZS 2845.1 backflow prevention valve.**

### 4.3 Inlet water

The product is not suitable for producing drinking water from water with unknown origins. A coarse sediment collector (filtering screen) must be installed upstream of the product.

The water to be treated must be of drinking water quality and comply with the following quality criteria:

|                       |               |
|-----------------------|---------------|
| Free chlorine         | < 2 ppm       |
| Temperature           | 5° C to 30° C |
| Static pressure, max. | 800 kPa       |
| Min. flow pressure    | 250 kPa       |

The product's maximum operating pressure must never be exceeded (see chapter „6 Technical specifications“, on page 6). 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 „6 Technical specifications“, on page 6).

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 200 kPa and the negative pressure surge must not be less than 50% of the self-adjusting flow pressure (see DIN 1988-200/3.4.3).

### 4.4 Installation

According to AS/NZS 3500.2 pipes discharging over a tundish shall have an airgap. Please refer to AS/NZS 3500.2 for minimum airgap requirements.

### 4.5 Usage

The performance specifications of the product must match the expected usage conditions. For more information, see 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.

# 5 Installation

**DANGER!**

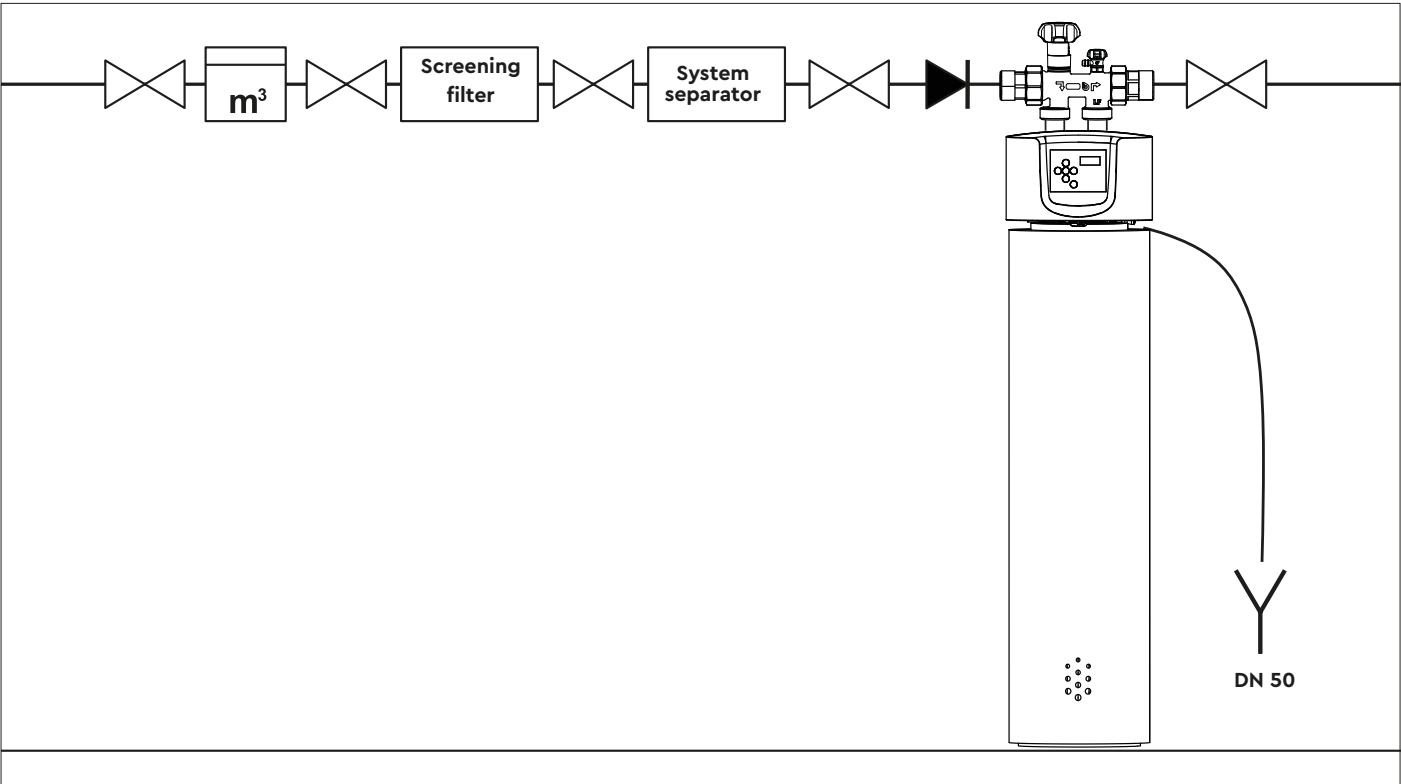


**Electrical voltage!**  
*Risk of death by electric shock!*

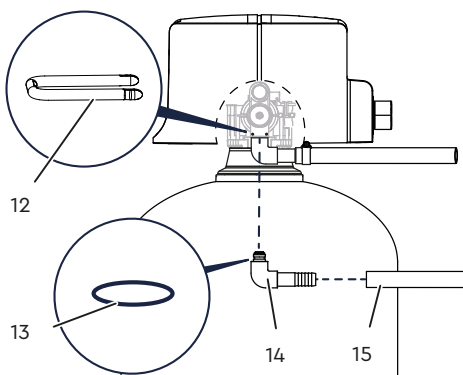
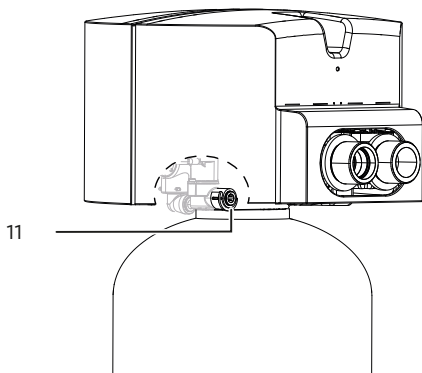
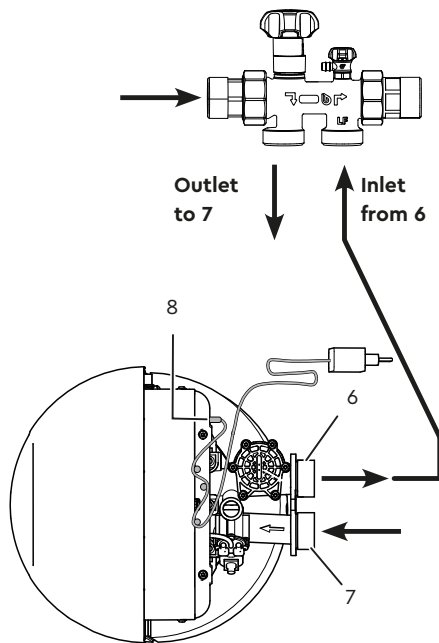
- ▶ Do not connect the product to the mains before start-up.
- ▶ Unplug the device before any service and repair work.
- ▶ If the product's power connection cable is damaged, it must be replaced with the original connection cable from the manufacturer.

## 5.1 Installation diagram

An example is shown in the figure. The symbols are displayed in accordance with EN 806-1. The individual installation must be adapted to local conditions.



### Multiblock X (optional)



## 5.2 Connecting the product

Connect the product as shown in the Installation diagram. Piping must be conducted according to AS/NZS 3500.1.

The connection with Multiblock X (connection fitting with integrated bypass) is shown here. Multiblock X is not included in delivery.

The unit can be installed in horizontal or vertical pipelines.

Follow the separate installation and operating manual for Multiblock X; otherwise, warranty claims are void if the unit becomes damaged.

- ▶ Flush out any dirt particles by opening the handwheel on the Multiblock X.
- ▶ Connect the product according to the installation diagram. Follow the arrows for the direction of flow for the connection.
- ▶ Connect the connection hose to the Multiblock outlet and establish a sealed connection with the inlet water connection (7).
- ▶ Connect the connection hose to the Multiblock inlet and establish a sealed connection with the outlet water connection (6).
- ▶ Remove the back of the control valve housing. Connect the socket [8] and route the mains cable as shown for the purpose of strain relief.
- ▶ Refit the back of the control valve housing.

- ▶ Connect the flushing water hose to the connection [11].
- ▶ Route the flushing water hose to the sewer system.

### NOTE



- ▶ According to AS/NZS 3500.2 pipes discharging over a tundish shall have an airgap. Please refer to AS/NZS 3500.2 for minimum airgap requirements.

### Only with Multi 7000.2 C:

First, mount the adapter for the flushing water hose:

- ▶ Place the O-ring [13] into the groove of the adapter [14] and connect the adapter to the flushing water connection on the control valve.
- ▶ Fasten the adapter with the clip [12].
- ▶ Slide the flushing water hose [15] onto the adapter.
- ▶ Fasten the flushing water hose to the adapter using the hose clamp.
- ▶ Route the flushing water hose to the sewer system.

6    Technical specifications

| BWT Multi                                        | Type  | 1000.2 C                  | 2000.2 C  | 3000.2 C  | 7000.2 C  |
|--------------------------------------------------|-------|---------------------------|-----------|-----------|-----------|
| Nominal connection width                         | DN    | 32 (1¼" external threads) |           |           |           |
| Peak flow rate                                   | m³/h  | 1                         | 2         | 3         | 5         |
| Nominal pressure (PN)                            | kPa   | 1000                      |           |           |           |
| Operating pressure                               | kPa   | 200 to 800                |           |           |           |
| Capacity between 2 backflushes (factory setting) | l     | 1000                      | 1800      | 2400      | 6400      |
| Maintenance interval                             | m³    | 75                        | 200       | 300       | 500       |
| Backflush water current at 400 kPa               | l/min | 13                        |           |           | 60        |
| Backflushing time                                | min   | 7                         |           |           |           |
| Chlorine reduction during peak flow*             | %     | > 98                      |           |           |           |
| Max. water/ambient temperature                   | °C    | 30 / 40                   |           |           |           |
| Humidity                                         |       | Non-condensing            |           |           |           |
| Power supply                                     | V/Hz  | 230 / 50 – 60             |           |           |           |
| Unit voltage                                     | V~    | 18                        |           |           |           |
| Energy requirement                               | W/h   | 15                        |           |           |           |
| Degree of protection                             |       | IP53                      |           |           |           |
| Filter gravel, grain size 1.0 – 2.0 mm           | kg    | –                         | ~6        | ~6        | –         |
| Filter gravel, grain size 2.0 – 3.2 mm           | kg    | –                         | –         | –         | ~25       |
| Filter material, grain size 0.6 – 2.4 mm         | kg    | ~8                        | ~16       | ~24       | ~48       |
| Operating weight, approx.                        | kg    | 13                        | 55        | 70        | 180       |
| Operating weight, approx.                        | kg    | 13                        | 55        | 70        | 180       |
| Order number                                     |       | 125686374                 | 125686375 | 125686376 | 125686377 |

6.1    Dimensions

| BWT Multi                 |   | Type | 1000.2 C | 2000.2 C | 3000.2 C | 7000.2 C |
|---------------------------|---|------|----------|----------|----------|----------|
| Height                    | A | mm   | 632      | 1095     | 1324     | 1568     |
| Connection height         | B | mm   | 483      | 946      | 1175     | 1418     |
| Diameter of pressure tank | C | mm   | 206      | 257      | 257      | 410      |
| Diameter with insulation  | D | mm   | 303      | 303      | 303      | 491      |
| Free space                | E | mm   | 500      | 800      | 800      | 880      |

