

BWT PowerMIX 1500 & 4500



Well water softener

Flow rate: **5.5 to 11.4 m³/h**
DN: **40 to 50**



TECHNICAL BENEFITS

- » Water volume-based regeneration.
- » Automatic cleaning.
- » Safe, sustainable and high-performance filtration.
- » Multilanguage menu.
- » Ecomix® C media inside.

Operation

BWT PowerMIX well-water softener is designed to remove hardness, iron, manganese and organics by using high-tech media, Ecomix C. During the filter operation, the water flows from top to bottom through the filter bed and efficiently removes hardness, iron, manganese, ammonium and organics. When the filter media is set up, it automatically starts regeneration like a water softener.

Applications

BWT PowerMIX softeners deliver reliable and efficient water treatment for residential and industrial applications. They are designed to meet a wide range of water treatment requirements: Hardness, iron, manganese and organic matter removal.

Standard equipment

- Possibility to change the cycle of regeneration stages and their range of time.
- Multi-system mode, up to 8 system to the system controller.
- Duplex installation possible - double flow rate during peak consumption.
- Connection kit on request.

	BWT POWERMIX 1500	BWT POWERMIX 4500
Connection diameter	DN 40/1½"	DN 50/2"
Type of medium	Ecomix® C	Ecomix® C
Max. flow	5.5 m³/h (24.2 gpm)	11.4 m³/h (50.2 gpm)
Washing flow rate	2.3-3.3 m³/h (10.1-14.5 gpm)	4.6-6.9 m³/h (20.2-30.3 gpm)
Min/max dynamic pressure	2/6 bar (29/232 psi)	2/6 bar (29/232 psi)
Min/max water temperature	4/30 °C	4/30 °C
Dimensions (Ø × H)	Ø 560 × 1970 mm - vessel Ø 620 mm - brine tank	Ø 780 × 2430 mm - vessel Ø 900 mm - brine tank
ITEM CODE (AT-DE)	125694020	125694019

Ecomix®

Filter media for well water

TECHNICAL BENEFITS

- » Reduces iron, manganese and ammonium concentration.
- » Effectively reduces organic matter - bad smell and taste.
- » Softens water hardness.

Applications

Scientifically grounded technology, confirmed by 6 patents and service world-wide since 1998.

Ecomix® C is regenerated with the same steps as normal softeners:

- backwash,
- brine rinsing,
- fast rinsing.

Calcium and magnesium ions are displaced from the cation exchange resin matrix with sodium ions. Iron and manganese compounds are removed by surface friction of FerroSorb beads in fluidized bed during backwash. HumiSorb exhibits a reversible mechanism of sorption of organic molecules, and is regenerated with chloride ions.

Efficiency & limitations

Handles seasonal variations in water composition even with significant changes in raw water quality.

Certification

1. WQA Gold Seal in compliance with the NSF/ANSI 44:2021, NSF/ANSI 61:2022, NSF/ANSI/CAN 372:2020
2. ACS
3. PZH



Raw water requirement and efficiency of purification

	ECOMIX® C
Hardness	750 ppm CaCO ₃
Iron	15 mg/L
Manganese	3 mg/L
Chemical Oxygen Demand	20 mg O ₂ /L (Reduces by 80%)
Ammonium	4 mg/L
Service life	5 years
ITEM CODE DE - 12 L BAG	125698266
ITEM CODE DE - 25 L BAG	125698265