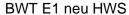
BWT E1 Neu HWS & EHF

Domestic water station, single lever filter

DN 20 - 25







BWT E1 neu EHF

Current version February 2021 Technical subject to modifications

1. Purpose

1.1 Filtration

The BWT E1 is intended for the filtration of drinking and service water. It protects the water pipes and the connected water-bearing system components from functional defects and corrosion damage by foreign particles such as rust particles, shavings, sand, hemp, etc. The filter cannot be used with chemically treated circulation

water, process water and cooling water for flow cooling. A coarse dirt separator must be installed upstream for waters with coarse dirt particles. The filters are not suitable for oils, fats, solvents, soaps and other lubricating media.

Neither are they suitable for the separation of water-soluble substances.

1.2 Pressure reducer (only E1 HWS)

The integrated pressure reducer installed downstream from the filter serves to reduce pressure and regulate a desired back pressure, predominantly in the domestic water supply plant. It keeps the regulated back pressure almost constant, even when the prepressure fluctuates between, for example, 16 bar and the set

back pressure, e.g. 3 bar. A uniform, not too high pressure preserves fittings and devices in the entire domestic water installation, helps to save up to 50 % of water and minimises noise evolution.

2. Function

2.1 Filtration

The raw water flows through the raw water inlet into the filter and then from the outside to the inside through the filter element to the pure water outlet. The foreign particles larger than the filter rating are retained on the outside of the filter fabric.

Clean water enters into the

outside of the filter fabric.
Clean water enters into the pipeline system. If as a result of the increasing contamination of the filter fabric the water pressure decreases perceptibly, the filter element must be replaced. BUT

AFTER 6 MONTHS AT THE LATEST!

2.2 Pressure reducer + backflow preventer (only E1 HWS)

The pressure reducer works according to the principle of the relieved single-seat valve. It is controlled starting from the back pressure via a large-dimensioned membrane and a pressure

spring, the tension and thus the back pressure of which can be changed with the rotary knob. The display shows the respective back pressure setting value. The backflow preventer only opens in the direction of flow when water is removed and is tightly sealed in idle position or counterpressure.

3. Operation

The filter and pressure regulation functions work completely autonomously without the need for operation. For impeccable, hygienic enjoyment of drinking water in accordance with the standards, it is only necessary to replace the filter element at least every 6 months.



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3.1 Replace filter

With the new single lever operation, replacing the filter element is easy and only takes seconds:



1. Slowly unlock the stopcock, thus simultaneously and automatically stopping the water



Lift the single lever to approx.
 130° – Pull out the supporting core, incl. filter cup and filter element



- 3. Dispose of the used filter element or for optimum hygiene the complete hygienic vault (environmentally -friendly plastic recycling).
- 4. Insert the new filter element or hygienic vault, close the lever. Slowly release the stopcock/ unlocking device (90° anticlockwise)



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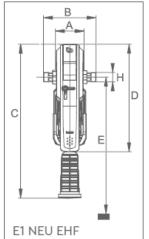
DN 20 - 25

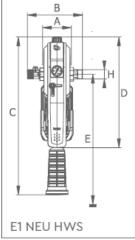
Technical data

BWT E1 NEU Single-lever filter Inline		Тур	EHF ¾" (1")	EHF DN 25 (5/4")	HWS 3/4"	HWS 1"	HWS DN 25 (5/4")	
Nominal width		DN	20	25	20	25	25	
Connection thread	Н		3/4" (und 1")	5/4"	3/4"	1"	5/4"	
Swivel nut thread			G 1 ¼"	G 1 ½"	G 1 1/4"	G 1 1/4"	G 1 ½"	
Admission width		μm	90–110					
Flow rate at ∆p = 0,2 bar**		m³/h	1,6	2,8	-	-	-	
Flow rate at Δp = 0,5 bar**		m³/h	2,3	3,6	-	-	-	
Flow rate*		m³/h	-	-	2,3	3,6	4,0	
Output pressure after pressure reducing valve		bar	-	-	2-6			
Nominal pressure (PN)		bar	16					
Operating pressure, min./max	bar	2/16						
Water temperature, min./max	°C	5/30						
Ambient temperature, min./max.		°C	5/40					
Overall length without fitting	Α	mm	100	120	100	100		
Overall length with fitting	B/B1	mm	185	218	197	199	218	
Total hight E1 NEU EHF/HWS incl. hygienic vault	C/C1	mm	551	569	569	569	569	
Total hight E1 NEU EHF/HWS	D/D1	mm	381	399	399	399	399	
Minimum distance pipe centre to floor	Е	mm	480	480	480	480	480	
Installation mass pipe centre to wall		mm	80-120					
Approx. operating weight		kg	3,5	4,0	4,0	4,0	4,0	
Item Nr. AT			840382	840383	840384	840385	840386	
Item Nr. DE			40382	40383	40384	40385	40386	
EAN			9022000403828	9022000403835	9022000403842	9022000403859	9022000403866	

^{*} according to DIN EN 1567

^{**} according to DIN EN 13443-1





Flavores with	Pressure loss (bar)				
Flow rate with filter element (m³/h)	0.2	0.3	0.5	0.8	
EHF DN20 (25)	1.34	1.73	2.38	3.09	
EHF DN25 (5/4")	2.28	2.80	3.61	4.45	
HWS DN20	0.85	1.12	1.58	2.10	
HWS DN25	0.95	1.18	1.67	2.30	
HWS DN25 (5/4")	1.90	2.28	2.90	3.90	

