



Purpose

The product is used for filtering drinking water according to defined quality standards of the WHO (World Health Organization). It protects water pipes and connected water-carrying system parts from malfunctions and corrosion damage caused by foreign particles such as rust, metal shavings, sand, hemp, etc. The filter is not suitable for chemically treated circulating water, process water, and cooling water for continuous cooling systems. For waters with coarse dirt particles, a coarse dirt separator must be installed upstream. The filters are not suitable for oils, fats, solvents, soaps, and other lubricating media, nor for the separation of water-soluble substances.

Function

Raw water flows through the raw water inlet into the filter and passes from the inside out through the filter element to the clean water outlet. Foreign particles larger than the filter fineness are retained on the inside of the filter fabric. When the water pressure noticeably decreases due to increasing contamination of the filter fabric, **AT THE LATEST AFTER 6 MONTHS**, the filter element must be backwashed! Backwashing is carried out manually and operates based on the novel, patented rotary impulse backwash principle.

Installation

Install the filter in cold water pipes upstream of the equipment to be protected. Always provide shut-off valves. The connection module/piece can be installed horizontally or vertically. Observe the flow direction arrows on the housing! Insert the seals into the connection module and screw the connection module between the screw-in part and the insert. Seal the pressure gauge with approved Teflon tape. Observe the enclosed installation and operating instructions.

Operation

HWS:

The desired back pressure can be easily adjusted using the built-in pressure reducer on the filter. To reduce the back pressure: Press down the cap and turn it clockwise. To increase the back pressure: Press down the cap and turn it counterclockwise. The factory setting is 3 bar back pressure.

Backwashing:

Backwashing is triggered by turning the handle 90° (left or right). This activates the patented rotary impulse backwash mechanism. During this process, a rotary impulse creates a vacuum that sets the suction device in motion, effectively cleaning the filter element. To end the backwashing process, simply release the handle. Backwash duration approx. 4 seconds. The process can be repeated if the dirt load is higher.

Technical Data

BWT MACH HWS		¾"	1"	1 ¼"	1 ½"	2"
Nominal width	DN	20	25	32	40	50
Filter fineness	µm	90 - 110				
Flow rate according to DIN EN 1567	m³/h	2,3	3,6	5,8	9,1	14,0
Outlet pressure after pressure reducer	bar	2 – 6				
Nominal pressure (PN)	bar	16				
Operating pressure, min./max.	bar	2 - 16				
Water/ambient temperature, min./max.	°C	5 – 30 / 40				
Required installation space on the right	mm	240				-
Installation length / with fittings	mm	100 / 198		105 / 236	125 / 295	125 / 260
Module filter / Connection type		Size I / HydroModule Connection			Size II / 4-Hole-Flange	
Article number		125665062	125665063	125665064	125665065	125665066

BWT MACH RSF		¾"	1"	1 ¼"	1 ½"	2"
Nominal width	DN	20	25	32	40	50
Filter fineness	µm	90 - 110				
Flow rate at Δp = 0,2 bar*	m³/h	2,9	3,0	3,3	10,0	10,2
Flow rate at Δp = 0,5 bar*	m³/h	4,5	4,7	5,8	16,0	16,1
Flow rate at Δp = 0,7 bar	m³/h	5,5	5,9	6,2	19,0	19,0
Flow rate at Δp = 1,0 bar	m³/h	6,5	7,0	7,4	22,8	22,8
Nominal pressure (PN)	bar	16				
Operating pressure, min./max.	bar	2 - 16				
Water/ambient temperature, min./max.	°C	5 – 30 / 40				
Required installation space on the right	mm	240				-
Installation length / with fittings	mm	100 / 184		105 / 203	125 / 240	125 / 260
Module filter / Connection type		Size I / HydroModule Connection			Size II / 4-Hole-Flange	
Article number		125664414	125664415	125664416	125664418	125664419

* according to EN 13443-1

