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Water filters AWF with manual cleaning

NOTE!

The product may only be used if you have fully read and understood these operating instruction. The manual is also

WARNING!

AWF water filters may only be installed, commissioned, and dismantled by trained personnel.



Changes and modifications carried out by unauthorised persons may cause danger and are prohibited for safety reasons.

AWF water filters are not suitable for use with water that contains:

- large quantities of sand,
- coarse bodies larger than 2 mm
- chloride ions concentrations higher than 200 mg/l,
- chemicals such as oils, solvents, acids, bases and glycols.

APPLICATION

Filters are used in drinking water installations. They are installed between the water meter and the pressure regulator. They protect the installation from impurities that can cause damage or malfunction of its components.

Tap water enters the filter and is directed inside the mesh. All solid impurities are captured on its surface. The treated medium is then directed to the outlet connection. The impurities retained by the filter mesh accumulate at the bottom of the bowl. The plug at the top of the filter can be replaced by a pressure gauge with a G1/4" connection. The pressure gauge will indicate the water pressure at the filter inlet.



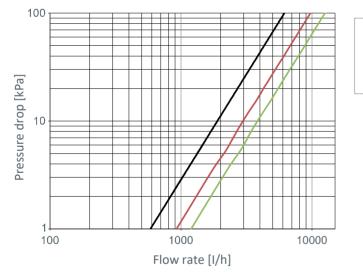
Fig. 1. Diagram of water flow through the AWF filter

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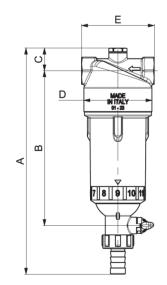
1/2"

3/4"

HYDRAULIC CHARACTERISTICS



DIMENSIONS [mm]



Model	AWF 110	AWF 120	AWF 130
Connections	G½" F	G³⁄₄" F	G1" F
А	224,5	228,5	229,5
В	154	156	157
С	22,5	24,5	24,5
D	67,5	67,5	67,5
E	72	76	80

Fig. 4. Dimensions of the AWF water filters

CONSTRUCTION



- G¼" plug
- Brass head
- Filtration mesh
- D. O-ring seal
- Transparent bowl E. F. Date recorder
- Drain valve G.
- Hose connector
- Wrench

Fig. 2. Construction of the AWF water filter

The design of the filtration mesh allows all precipitated impurities to be retained inside the filter even when the flow is completely blocked. Pressing water is unable to penetrate the mesh and carry away the captured impurities thanks to the mesh's fusion with special plastic clamping rings.





Fig. 3. Construction of a filtration mesh to prevent impurities from entering the installation

The filtration mesh is designed to resist hydraulic impacts without deformation and crushing.

INSTALLATION

The AWF water filter should be installed on the pipe supplying the installation with drinking water immediately after the water meter in a frost-protected room. It captures any solid impurities that may cause malfunctioning of the pressure regulator, thermostatic mixing valves and other sensitive installation components. The filter can only be installed on horizontal pipes, with the drain valve facing downwards (Fig. 5). The arrow on the brass head indicates the direction of water flow from the source (from the water meter) to the installation. (Fig. 6). The installation of shut-off valves on the filter connections is recommended to facilitate maintenance work.









Fig. 5. Permissible installation position of the AWF filters



Fig. 6. Arrow of the direction of water flow through the AWF filter

An example of an AWF water filter installation diagram is shown in the figure below (Fig. 7).

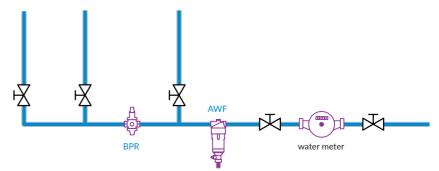


Fig. 7. Example of AWF filter installation diagram

A distance of at least 20 mm must be maintained between the outlet of the filter drain valve and the drain outlet to the se $we rage system The minimum diameter of the drain pipe must be 40 \, mm and the section of inclined pipe before the siphon pipe for the siphon pip$ must be at least 1 m long (Fig. 8). Alternatively, a bucket or bowl of adequate volume can be placed under the filter drain at a minimum distance of 20 mm.

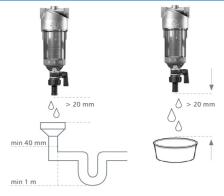


Fig. 8. Location of the drain to the sewerage system or the container collecting water from the filter.

When the manual drain valve is opened, water discharges from the installation at high speed, removing accumulated impurities in the filter bowl while cleaning the filter mesh.

MAINTENANCE

NOTE! If maintenance requires dismantling the equipment, the parts that come into contact with drinking water must be handled with care from a hygiene point of view to avoid contamination of the hydraulic system. Do not use any detergents or cleaning agents.

The frequency of routine removal of impurities from the filter depends on the degree of water contamination. The amount of impurities caught by the filter can be monitored in real time thanks to the transparent bowl. Routine cleaning of the filter is recommended every three months. Full cleaning of the filter including checking for leaks in the connections is recommended at least once a year.

Full filter cleaning



Close the shut-off valves upstream and downstream of the filter.



Open the valve on the supply and flush the filtration mesh by opening the drain valve. When the process is finished, close the drain valve.



Using the wrench provided with the filter, unscrew the transparent bowl.



Remove the filtration mesh and proceed with cleaning it with running water.



Clean the filtration mesh and bowl under running



Reassemble the filter, instert the filtration mesh into the bowl and screw it back.



Tighten the bowl with a wrench.



Check the hydraulic seal and open the shut-off valves.

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APPROVALS AND CERTIFICATES

The product is subject to the Pressure Directive 2014/68/EU and is not CE marked in accordance with Article 4.3 (recognised

The product is hygienically certified by the National Institute of Public Health NIH in Poland.

DECOMMISSIONING, DISPOSAL

- 1. Dismantle the device.
- 2. Dispose of the product according to local directives and guidelines.

The product is built from recyclable materials.

If you have any questions or problems with disposal, please contact the appropriate distributor or manufacturer's point.

WARRANTY

Product guarantee in accordance with the general conditions of sale and delivery.

CUSTOMER SATISFACTION

For AFRISO customer satisfaction is paramount. If you have any questions, suggestions or product problems, please contact us.

Routine filter cleaning

Close the shut-off valves upstream and downstream of the filter.

If there is no drainage pipe, a bucket or bowl should be placed under the drain valve.

Open the valve on the supply and flush the filtration mesh by opening the drain valve. Check the hydraulic seal and open the shut-off valves.

It is possible to record the date of the last filter cleaning. The month of cleaning can be set on the monthly date recorder located at the bottom of the bowl.



Fig. 9. Date recorder located in the bottom part of the bowl

TECHNICAL DATA		
Parameter	Value / material	
Water temperature	5÷30°C	
Ambient temperature	5÷40°C	
Water pressure	max 12 bar	
Degree of filtration	90 μ m	
Kvs (depending on version)	AWF 110: 6,2 m³/h AWF 120: 9,7 m³/h AWF 130: 12,6 m³/h	
Flow rate at 0,2 bar pressure drop (depending on version)	AWF 110: 2,7 m³/h AWF 120: 4,3 m³/h AWF 130: 5,6 m³/h	
Flow rate at 0,5 bar pressure drop (depending on version)	AWF 110: 4,3 m³/h AWF 120: 6,8 m³/h AWF 130: 8,8 m³/h	
Connections (depending on version)	AWF 110: G¹/₂" F AWF 120: G³/₄" F AWF 130: G1" F	
Housing material	CW617N brass + polyamide	
Filtration mesh material	AISI 304 stainless steel	
Sealing material	EPDM	