



ABF-10 series



ABF-2 (DOUBLE) series



ABF-3 (TRIPLE) series

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GENERAL INFO

Dear customer, you have got an ABF series in-line filter, manufactured and developed by our company. It is a result of our brand new development decisions and researches in a field of water treatment and manufacturing of plastic units. We are sure that ABF series in-line filters will help you in solving water supply tasks in your house or apartment.

ABF series in-line filters are aimed for water purification and protection of sanitary fittings from mechanical impurities, rust, sand, silt, organochlorides, resolved iron, heavy metals. It depends on a cartridge installed in the filter (you can find varieties of cartridges in this manual).

In-line filter is being connected into a cold water main.

ADVANTAGES OF ABF SERIES FILTERS

- An O-ring in a filter body. It excludes a possibility of water leakage and arranges more steady connection of filter's cap and body.
- Brass inserts in threaded joints arrange more steady connection.
- Usage of modern materials and improved technology of production of plastic AQUABRIGHT in-line filter components gave the opportunity to increase margin of strength up to 50** bar.
- ABF-10 in-line filter is manufactured by Russian factory according to Technical Conditions 28.29.12-004-92729186-2019.
- ABF-10 in-line filter is aimed for water purification and protection of sanitary fittings from mechanical impurities, rust, sand, silt, organochlorides, resolved iron, heavy metals. It depends on a cartridge installed in the filter.
- In-line filter is being connected into a cold water main.

COMMON LIST OF PARTS FOR ABF-10, ABF-2 AND ABF-3

Assembled filter	1 pc.
Mounting bracket	1 pc.
Wrench for screwing off a filter's body	1 pc.
Mounting screw	4 pc.
Operational manual with warranty certificate.....	1 pc.
Packing box.....	1 pc.

ABF-10 FILTER HOUSING ARRANGEMENT


1. Set of screws for mounting bracket.
2. Mounting bracket.
3. Threaded joints with brass inserts.
4. Filter cap.
5. O-ring.
6. Transparent filter body.
7. Cartridge (does not included in a standard set).
8. Wrench for screwing off filters's body.

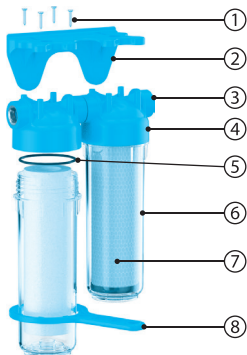
Pic. 1

PRIMARY TECHNICAL CHARACTERISTICS FOR ABF-10 SERIES:

MODEL	ABF-10-12	ABF-10-34	ABF-10-1
Type / size (inch)	Slim Line 10"		
Material of cap / body	Polypropylene / PET		
Working pressure (bar)	from 2 to 8		
Max breaking pressure (bar)	up to 50**		
Connection diameter (inch)	1/2"	3/4"	1"
Cartridge height (mm)	254 ± 1,0 (PS, PP, FERRUM+)		
	250 ± 0,5 (GAC, BL, IR, GPS, ST)		
Water working temperature	+2° +45° C		
Nominal output (L/min)	up to 10*		
Overall dimensions (mm)	320/120/110		

* Depends on type and level of contamination of installed cartridge.

** This data was collected during experimental tests of OJSC "NII SANTECHICA" and shows a factor of safety of a filter (up to 50 BAR) within short critical stress and cannot be a reason of granting a guarantee.


ABF-2 (DOUBLE) FILTER HOUSING ARRANGEMENT

1. Set of screws for mounting bracket.
2. Mounting bracket.
3. Threaded joints with brass inserts.
4. Filter cap.
5. O-ring.
6. Transparent filter body.
7. Cartridges (do not included in a standard set).
8. Wrench for screwing off filters's body.

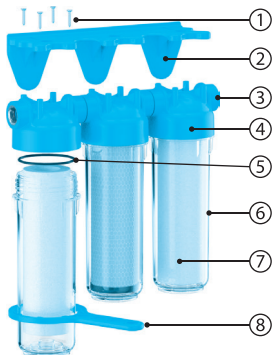
Pic. 2

PRIMARY TECHNICAL CHARACTERISTICS FOR ABF-2 (DOUBLE) SERIES:

MODEL	ABF-2-12	ABF-2-34	ABF-2-1
Type / size (inch)	Slim Line 10"		
Material of cap / body	Polypropylene / PET		
Working pressure (bar)	from 2 to 8		
Max breaking pressure (bar)	up to 35**		
Connection diameter (inch)	1/2"	3/4"	1"
Cartridge height (mm)	254 ± 1,0 (PS, PP)		
	250 ± 0,5 (BL)		
Water working temperature	+2° +45° C		
Nominal output (L/min)	up to 10*		
Overall dimensions (mm)	324/230/110		

* Depends on type and level of contamination of installed cartridge.

** This data was collected during experimental tests of OJSC "NII SANTECHICA" and shows a factor of safety of a filter (up to 50 BAR) within short critical stress and cannot be a reason of granting a guarantee.


ABF-3 (TRIPLE) FILTER HOUSING ARRANGEMENT

1. Set of screws for mounting bracket.
2. Mounting bracket.
3. Threaded joints with brass inserts.
4. Filter cap.
5. O-ring.
6. Transparent filter body.
7. Cartridges (do not included in a standard set).
8. Wrench for screwing off filters's body.

Pic. 3

PRIMARY TECHNICAL CHARACTERISTICS FOR ABF-3 (TRIPLE) SERIES:

MODEL	ABF-3-12	ABF-3-34	ABF-3-1
Type / size (inch)	Slim Line 10"		
Material of cap / body	Polypropylene / PET		
Working pressure (bar)	from 2 to 8		
Max breaking pressure (bar)	up to 35**		
Connection diameter (inch)	1/2"	3/4"	1"
Cartridge height (mm)	254 ± 1,0 (PS, PP, FERRUM+)		
	250 ± 0,5 (GAC, BL, IR, GPS, ST)		
Water working temperature	+2° +45° C		
Nominal output (L/min)	up to 10*		
Overall dimensions (mm)	324/345/110		

* Depends on type and level of contamination of installed cartridge.

** This data was collected during experimental tests of OJSC "NII SANTECHICA" and shows a factor of safety of a filter (up to 50 BAR) within short critical stress and cannot be a reason of granting a guarantee.

MEASURES OF SAFETY**CAUTION!**

- *Before installation check the filter for any defects, breakings or deformations.*
- *In-line filter must be installed beyond reach of children and domestic animals.*
- *Do not use in-line filter for purifying microbiologically hazardous water.*
- *This in-line filter can work when water pressure is from 2 to 8 bars.*
- *Do not allow direct sunlight to hit the filter's body.*
- *Do not install the in-line filter in places with too low and too high temperature.*
- *Water temperature must be from 2 °C to +45 °C. Air temperature in a room must not decrease to 0 °C or below.*
- *Do not let the water get frozen in a filter's body or in a pipeline.*
- *Use the filter only according to its assignment and demands of this manual.*
- *Do not flow through the filter explosive, flammable and chemically aggressive liquids.*
- *Do not flow through the filter water with fibrous inclusions and with a lot of sand.*
- *Do not subject the filter to strikes, overloads, exposure to atmospheric precipitation, aggressive liquids and gasses.*
- *After installing the filter and changing cartridges make sure that there is no water leakage and, from time to time, visually inspect it for water leakage.*
- *In case of finishing or in case of a long break in the use of an in-line filter, we recommend you to turn the water supply to the filter off.*
- *Not allowing to this manual's terms may cause water leakage, accidental situations, property damage or other troubles.*
- *All the responsibility for safety exploitation and maintenance of a filter in working order lays upon the owner.*
- *ABF series in-line filters intended to be installed only into a COLD WATER pipeline. Installation of ABF in-line series filters into a hot water pipeline IS NOT ALLOWED, because it can cause a filter's body damage and an accidental situation.*
- *ABF series In line filters are not intended for use by persons (including children) with reduced physical, sensory or mental abilities or lack of life experience or knowledge, unless they are supervised or instructed about the use of filters by a person responsible for their safety.*

All the filters are being selectively tested for leaks. According to it there could be a small amount of water in some of filters. Before the installation into municipal water works, please arrange a coordination of your activities with the organization that is in charge for your building's exploitation. It is not recommended to install the filter yourself. All the works according to filter installation and changing of filtering elements must be done by specialists with necessary qualification.

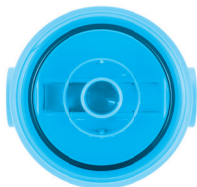
INSTALLATION PROCESS

AQUABRIGHT ABF series in-line filter can be installed on steel, metal-plastic, brass or plastic pipes. Before the installation the filter must be held in indoor temperature at least for 3 hours. The filter must not take any mechanical stress from the pipeline.

1. Turn the cold water off at the mainline of your house or apartment.
2. Open the faucet to release pressure and to run the water off the pipeline.
3. Set the pressure reducer to a not more than 6 bar position.
4. Fix the bracket to a wall in a necessary place.
5. (Only for ABF-10) Fix the filter's cap to the bracket by four screws form a set.
6. Wrap a piping tape or flax on threaded joints and screw the filter's cap into a cold water pipeline according to a direction of the arrow located on a filter's cap. (Excess of the tape and/or force of screwing can cause a connection brake or a filter's body damage.)
7. Put off a transparent packing film from a chosen cartridge and install it into a filter's body.
8. Screw the transparent filter's body into a filter's cap up to the stop.
9. Open a cold water faucet and wash the filter with at least 10 liters of water.
10. The installation process is finished. We wish you a pleasant experience using AQUABRIGHT ABF series filter.

After installing AQUABRIGHT ABF series in-line filter and changing cartridges make sure that there is no water leakage and, from time to time, visually inspect it for water leakage.

An O-ring must be installed into an inner whole of a filter's cap. Installation of an O-ring on a filter body is strictly not allowed.



RIGHT



WRONG

TECHNICAL SERVICE (CHANGING CARTRIDGES)

During the exploitation process of a filter cartridges gradually become contaminant, what leads to a cartridge's effectively loss and decrease of water pressure.

To save water quality on a high level you need to change contaminated cartridges to new ones in time.

Changing period of cartridges depends on a primary water contamination level and filter's usage mode.

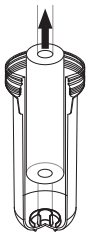
The maximal time of using cartridge in a filter can't reach 6 months, it is caused by a bacterial growth on a cartridge surface.

Before technical service(changing of a cartridge) ATTENTIVELY examine the filter and connection parts for leakages(even small) or cracks. If you find a crack, please change the filer, if you find a leakage – ask for a specialist's help.


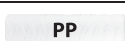


1. Put a towel or a basin under the installed filter.
2. Turn off the cold water main faucet (before the filter)
3. Open any cold water faucet after the filter(In your kitchen or bathroom) to release pressure in the pipeline.
4. Using a plastic wrench (included) screw off the filters body from the filter's cap.
5. Take of the expended cartridge from the filter's body.
6. Wash the transparent body with hot water then clean it dry.
7. Anoint the O-ring with silicone grease or petrolatum ointment.
8. Put of a transparent packing film from a chosen cartridge and install it into a filter's body.
9. Screw the transparent filter's body into a filter's cap up to the stop.
10. For ABF-2 and ABF-3 repeat points 4-9 of this guide for each transparent body.
11. Open a cold water faucet and wash the filter with at least 10 liters of water.
12. Cartridge installation is finished.
13. Make sure that there is no water leakage in a couple of hours.

After installing or changing cartridges there may stay air particles in a filter's body that may cause a light white color of water.




After a while, air particles will disappear and water will gain its natural color.






Cartridges for mechanical purification*

	Meltblown polypropylene cartridge. Effectively removes contaminants and particles from 1 to 50 mkm.
	Yarn polypropylene cartridge. Effectively removes contaminants and particles from 1 to 50 mkm.
	Pleated polypropylene cartridge. Effectively removes contaminants and particles from 5 to 20 mkm.
	Nylon net cartridge. Effectively removes particles bigger than 100 mkm.

Cartridges for sorption water purification*

	Two stage cartridge. Removes mechanical contaminants, chlorine, pesticides, heavy metals. Improves taste and smell of water.
	Meltblown activated carbon cartridge. Effectively removes chlorine, pesticides and heavy metals. Improves smell and taste of water.
** 	Granulated activated carbon cartridge. Effectively removes chlorine, pesticides and heavy metals. Improves smell and taste of water.

Softening and iron removal cartridges*

** 	Iron removal cartridge. Effectively removes dissolved ferrum FE 2+. Improves smell and taste of water.
** 	Cartridge for water softening. Effectively decreases water hardness, prevents from scale formation on heating elements.
	Cartridge with polyphosphate filling. Prevents from scale formation on heating elements. ONLY FOR TECHNICAL SOFTENING! NOT FOR DRINKING!

* All characteristics of cartridges are described on our website www.aquabright.ru/en

** Installation of mechanical cartridge after cartridge with filling is a must!

TROUBLES AND REMEDIES:

Trouble	Causes	Remedy
Leaking in the place where the cap connects with transparent body.	Transparent body screwed not tight enough.	Tighten up the cap.
	The O-ring is damaged.	Change and anoint the O-ring with silicone material.
Leaking in the place where filter cap connects with the pipe.	Bad waterproofing.	Screw off the connection and fit it again using plumber's tape or flax.
Water pressure on the filter exit decreased.	End of cartridge's lifespan.	Replace cartridge with a new one.
Micro-breaks appeared on a transparent body.	Hydraulic impact happened.	It is not a warranty case, change the whole filter.
Water flows through the filter but remains dirty.	Wrong setting-up. The direction of the flow and the direction of the arrow on the filter's cap are different.	Reinstall the filter in the way when the flow direction and the direction of the arrow on the filter's cap are similar.
Transparent body became blown.	Hot water appeared in a cold water plumbing.	It is not a warranty case, change the whole filter.

GUARANTEE COMMITMENTS DO NOT SPREAD OVER FOLLOWING CASES

- Defects of an in-line filter caused by infraction of rules of this manual
- Infraction of guarantee terms – water temperature from +2 to +45 C, working pressure not more than 8 bar.
- Filter is installed in a plumbing with no pressure reducer with 6 bar limiter. The reducer must be installed before the filter.
- In case of mechanical damages caused by outer strike or any other impact or aggressive environments' impacts.
- Defects caused by incorrect hydraulic or mechanical setting-in and use.
- Defects caused by using the filter for purposes other than that intended or not according the operational manual rules.
- Natural deterioration of filter's body, big inner or outer contamination.
- Too much plumbing tape or flax in the place where brass insert connects with the pipe.

DEMANDS TO PRIMARY WATER CONDITIONS

Hydrogen index, pH	6 - 9
Total hardness of purifying water, mg-equ/L	up to 20
Contamination of iron – mg/L	up to 0,3
Total mineralization mg/l	up to 1000
Permanganate index mg/L	up to 5,0
Petrochemicals, in summary, mg/L	up to 0,1
Surface active agents, anionic, mg/L	up to 0,5
Phenolic index, mg/L	up to 0,25