

# 1 Cleaning and self-cleaning filters

## Semi-automatic filters - residential

# BravoFIL

### Self-cleaning filter

#### Overview

Raw water entering BravoFIL flows from the outside toward the inside of the filtering cartridge. BravoFIL is a self-cleaning filter with an innovative system of cleaning composed by two different actions: brushing and high speed back-wash with filtered water of the filtering cartridge. This method allows an efficient and thorough cleaning both of the filtering cartridge and the filter bowl. The cleaning is started by rotating clockwise the upper green knob: this movement activates, at each click, the brushing and the opening of the discharge valve which creates a tangential flow which removes impurities accumulated in the filter bowl. During the filter cleaning the water entering BravoMATIC is diverted and, after having passed through an auxiliary back-wash filter, it is forced by the turbo-jet against the cartridge ensuring the effective removal of impurities retained by the filter cartridge. The automatic opening of the discharge valve (located at the bottom of the bowl) creates a tangential high-speed flow which removes impurities accumulated in the bowl during working.

BravoFIL is equipped with a 360° adjustable connection plate (4 90° steps) of brass resistant to mechanical shear stresses due to installation which usually lead to breakage of plastic heads. The adjustable connection plates offers the maximum installation flexibility. Further, in the connection plate it is housed a non-return valve which allows the filter back-washing without the risk of pressure surge in the main water line. BravoFIL is equipped with an auxiliary cartridge for the filtration of water during back-wash. This precaution allows to perform the filter cleaning always with clean water obtaining the best results. The head of the filter is made in acetal resin and the vessel, equipped with the discharge valve, is made in high-tenacity polyamide (maximum pressure 10 bar). The filtering surface is in stainless steel soldered on a stretched wire netting. The particular structure of the filtering cartridge makes it resistant to mechanical shocks and pressure gradients eliminating deformation and crushing of the filtering cartridge. BravoFIL's cleaning brushes are equipped with silver inserts which contrast the bacterial proliferation in the filter. BravoFIL meets Italian requirements for drinking water treatment. The standard filtration rating of BravoFIL is 89 microns; other filtration ratings (30, 50, 150 microns) are available upon request.



#### Key features

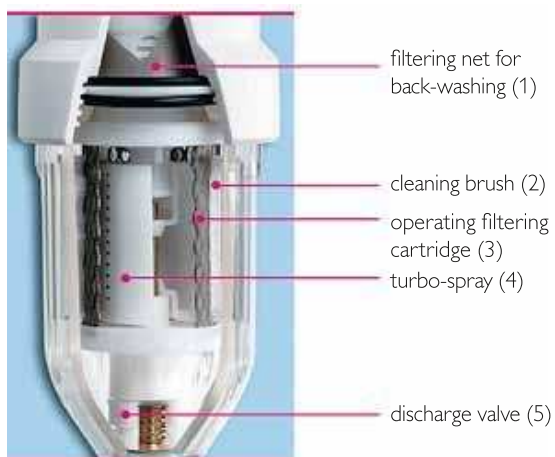
- ✓ Patented two-steps cleaning system
- ✓ Back-wash with filtered water
- ✓ Brass connection plate 360° adjustable
- ✓ Resistance to high pressure and hot water
- ✓ No need of cartridge replacing
- ✓ Stainless steel cartridge
- ✓ Silver wires inside the brushes
- ✓ Entirely made with the best materials
- ✓ Completely Made In Italy



#### Application

Point of entry of main water into the buildings, hot water circuits, farming and gardening. Part of impurities commonly found in waters consist of sand, flakes of oxides and coarse material can cause serious troubles to equipments and plants, if not properly removed from the flow of water: installation of a protection filter is the most simple and effective way to avoid such problems. In case of drinkable water is treated, current national laws on drinkable water quality and on quality of materials in contact with food must be followed.

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### Patented self-cleaning system

Water enters the filter and flows down through the filtering cartridge (3) from the exterior to the interior and comes out clean. By turning the knob clockwise the filtering cartridge turns 90° and it is automatically cleaned by brushes located in the bowl (2). At the same time the incoming water is diverted, runs through the counter-wash filter (1), enters inside the cartridge and activates the turbo-jet plate (4), which sprays clean water at high speed uniformly over the filtering cartridge from internal side to external (in back-washing). Dirt comes out from the discharge valve (5) together with water. The two-step cleaning procedure is accomplished by two knob notches.



Brushes are formed by nylon bristles with a silver wire ensuring bacteriostatic conditions inside bowl.

### Cleaning manoeuvre



#### 1° STEP – BACKWASH

Turn the knob clockwise till the click. Hold it in cleaning phase (discharge valve opened) for few seconds until have obtained the complete removal of dirty accumulated into the bowl.

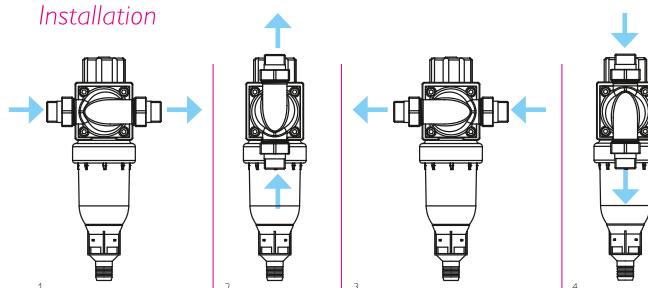


#### 2° STEP – FILTRATION

Turn again the knob clockwise till the click. Filters returns in working phase (filtration).

This operation can be repeated several times in case of excessive deposits of dirt.

### Installation



The connection plate can be turned of 360°, every 90°, to be suitable to any installing conditions. It is only required to follow the water flow direction indicated by the arrow placed on the plate.

### 360° ADJUSTABLE CONNECTION PLATE WITH NON-RETURN VALVE



### Text per offer

Self cleaning filter BravoFIL (specify the model) is suitable for filtering drinkable water, eliminating suspended particles, such as: sand, silt, metal particles, etc. up to 89 microns rating. The filter is suitable to protect household appliance, hydro-thermo-sanitary plants and equipments in general. BravoFIL is equipped of double action cleaning system: through of use of a simple manoeuvre user activates a high speed turbo-spray making a back wash with filtered water and, simultaneously, brushing of the entire cartridge surface, performing a real and complete cleaning.

The silver wires within the brushes ensures the maintenance of conditions that impedes bacterial and algal proliferation inside the vase (visit our web site for further information).



### Referential EU norms and EN standards

BravoFIL is manufactured in compliance with the Italian decree D.M. N°174/04, article 9 of the Italian decree D.L. N°31/01, Italian decree D.M. N° 25/12, Standards UNI EN 13443:1 2007. The Italian decree D.P.R. N°59/09, decree D.M. N°37/08, standards UNI CTI 8065, UNI CTI 8884, UNI CTI 7550 prescribe the installation of protecting filter in the water inlet to domestic water, heating and cooling plants. Acqua Brevetti 95 s.r.l. works with a Quality System certified in compliance with the requirements of the UNI-EN ISO 9001:2008 with certificate 501007368 issued by TÜV Italy Srl.

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### BravoFIL - performances and technical data

CODE		FT020	FT022	FT024	FT026
CONNECTIONS	inches	¾" M	1" M	1¼" M	1½" M
MAX. FLOW RATE (DP=0.5 BAR)	lt/h	3000	4000	5000	6000
STANDARD FILTRATION RATING*	micr.	89			
MIN. WORKING PRESSURE	bar	1,5			
MAX WORKING PRESSURE	bar	10			
MIN./MAX WATER TEMPERATURE	°C	5/30			
MIN./MAX EXTERNAL TEMPERATURE	°C	5/30			
WATER CONSUMPTION FOR BACKWASH	lt	6 (@3bar)			
HEAD MATERIAL		BRASS/POM			
BOWL MATERIAL		TROGAMID®			
CARTRIDGE MATERIAL					
BRUSHES MATERIAL					

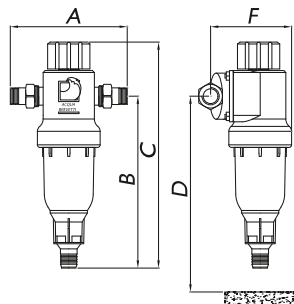
\* Other filtration ratings available on demand: 30, 50, 150 micron.  
Included: nuts and tails for connection.



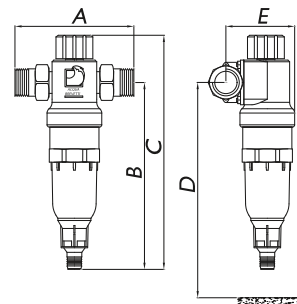
### QUOTES

CODE		FT020	FT022	FT024	FT026
WIDTH (A)	mm	177	179	190	198
CONNECTION HEIGHT (B)	mm	264	264	267	331
TOTAL HEIGHT (C)	mm	350	350	353	416
MINIMUM HEIGHT FROM GROUND (D)	mm	400	400	400	500
DEPTH (E)	mm	136	136	136	136

#### BravoFIL Filter

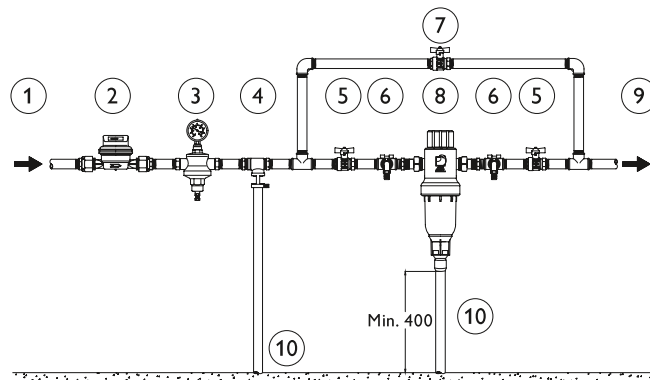


FT020, FT022, FT024



FT026

#### Installation scheme



#### Legenda

1. Cold water inlet; 2. Inlet water meter; 3. Pressure reducer; 4. Backflow prevention device; 5. Zone valve; 6. Sample tap;
7. By-pass valve; 8. BravoFIL Filter; 9. Treated water outlet; 10. Discharge.



**ACQUA BREVETTI 95 SRL**  
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Cod.Fisc.: 00345930283  
Part.IVA: 03614480287  
C.C.I.A.A.: n. 11306/2001 – R.E.A. n. 323118



## DECLARATION OF CONFORMITY

### AUTOMATIC CLEANING AND SELF CLEANING FILTERS

**ACQUA BREVETTI 95 S.R.L.**  
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**E-mail: [info@acquabrevetti95.it](mailto:info@acquabrevetti95.it) – Internet: [www.acquabrevetti95.it](http://www.acquabrevetti95.it)**

declares that the products:

cleaning and self cleaning automatic filters, model **PuliMATIC**, **BravoMATIC**, **BravoMAX automatic** and **BravoMAX PLUS**

are built according to the following Standards and European Laws::

**Decree of Italian Health Ministry N° 25 del 7/2/2012**  
*Disposizioni tecniche concernenti apparecchiature finalizzate al trattamento dell'acqua destinata al consumo umano.*

**Standard UNI-EN 13443-1: 2005**  
*Water conditioning equipment inside buildings – Mechanical filters – Part 1: Particle rating 80 µm to 150 µm – Requirements for performances, safety and testing*

**Directive 2004/108/CE**  
*on the approximation of the laws of the Member States relating to the electromagnetic compatibility and abrogating Directive 89/336/EEC*

**Directive 2006/95/CE**  
*on the approximation of the laws of the Member States relating to the electric material intended to be used within some voltage limits*

**Directive 2002/95/CE**  
*on the restriction of the usage of some dangerous substances in electric and electronic appliances (RoHs)*

**Directive 2003/108/CE**  
*Modifying Directive 2002/96/CE on waste of electric and electronic appliances (RAEE o WEEE)*

**Directive 2002/96/CE**  
*On the waste of electric and electronic appliances (RAEE o WEEE)*

Acqua Brevetti 95 S.r.l. operates with a Quality System certified according to Standard UNI-EN ISO 9001:2000, with certificate N°50 100 7368 drafted by TüV Italia S.r.l.

Rubano, 14/10/2013

ACQUA BREVETTI 95 SRL  
Rampazzo Giovanni

**trattare l'acqua è utile e vantaggioso!**