



BRAVOMAX-A

AUTOMATIC SELF-CLEANING FILTER

TECHNICAL DATASHEET
Household Range

SCTEC128
REV.5 dated 04/2025



Purpose and Use

Impurities such as sand, rust flakes, lime deposits and coarse material can damage the water distribution line and household appliances (pipes, valves, mixers, faucets, washing machines, etc.). The installation of a protection filter is the most simple and efficient alternative to avoid such problems.

BRAVOMAX-A is an automatic self-cleaning filter with a filter cartridge brushing system and automatic dirt discharge

BRAVOMAX-A is complete with electronic control unit, motorised solenoid valve and pressure gauges

Operation

Raw water entering BRAVOMAX-A flows from the inside toward the outside of the filtering cartridge. BRAVOMAX-A is an automatic self-cleaning filter with an electronic control board which starts the filter cleaning in an operator-independent way.

Thanks to its patented brushing and draining system, it guarantees not only the discharge of impurities suspended in the water, but also the effective cleaning of the filter cartridge.

The control unit allows the cleaning setting in two ways:

1) Set day/time interval

Day: minimum 1 - maximum 60.

Set time: time of day to be entered.

2) Time interval.

Set time: 1 hour minimum/ 96 hour maximum.

When cleaning, the programme performs a washing cycle involving three rotations of the filter cartridge (opening-closing drain). A maximum of 10 cycles can be set for a total of 30 rotations.

BRAVOMAX-A is programmed at the factory for cleaning every 4 days at 24:00 and for one cleaning cycle with 3 rotations.

The cleaning cycle is automatically started by the control unit when the set time interval has elapsed or when the pressure drop across the filter cartridge reaches a set value (pressure differential must be installed).

The cleaning cycle involves the complete brushing of the cartridge. The automatic opening of the drain valve (located at the bottom) creates a tangential flow at high speed that removes impurities accumulated in the filter pot. the valve opens and then closes at the end of the operation for a total of 40 seconds of complete cycle.

Key Features

BRAVOMAX-A is completely made in stainless steel AISI 304. The filtering surface is in stainless steel AISI 316 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.

The nylon brushes have a stainless steel holder.



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The standard filtration grade of BRAVOMAX-A is 150 microns. Different filtration grades (50 and 100 microns) are available on request. The standard filtration grade of BRAVOMAX-A is 150 microns. Different filtration grades (50 and 100 microns) are available on request. The water consumption per cleaning cycle is approximately 14 litres (based on a mains pressure of 3 bar).

BRAVOMAX-A requires connection to the mains and is powered at 230V/50Hz; it is equipped with an output signal (voltage-free contact) that can be used to control, via an auxiliary switchboard, utilities such as pumps, solenoid valves, alarms, etc.

BRAVOMAX-A is available in versions with threaded connections and with flanged connections; it is equipped with a motorised solenoid drain valve and front pressure gauges to monitor the pressure drop across the filter element and to be able to determine the degree of clogging more accurately. The filter is supplied with the water inlet on the left (considering the front view).

Optionals

SOLENOID VALVE



To ensure effective washing cycles, it is necessary that the water has a pressure of at least 2 bar. If this condition cannot be guaranteed, it is possible to install a solenoid valve downstream of

the filter that closes the outlet pipe during washing operations. A series of N.O. solenoid valves are therefore available with connections from 3/4" up to 2" which can be operated directly from a control panel.

ELECTRIC PANEL

A practical control panel is available (code 23022030) capable of managing up to two 24 VAC consumers (pumps, solenoid valves, alarms, etc.). The panel is powered in 230 V/50Hz



PRESSURE DIFFERENTIAL

BRAVOMAX-A can be equipped with a pressure differential that, by monitoring the pressure difference between filter inlet and outlet, activates filter cartridge flushing when a value of $\Delta P=1$ bar is reached.



Intended use, use conditions

BravoMAX-A has been specifically designed for the treatment of drinking water intended for human consumption, predominantly in civil applications but it may also be used for the protection of water distribution lines in technological applications (heating and cooling systems, industrial installations, etc.).

Maintenance and duration

The filter requires periodic cleaning which is automatically managed by the automatic control unit.

BRAVOMAX-A must be included in the periodic sanitization program planned for the distribution system (who has built the distribution system is in charge of this planning). As a consequence any time the distribution system is sanitized BRAVOMAX-A must be sanitized too. For a proper maintenance two annual inspections are recommended. For any information, please refer to the Instruction Manual supplied with the equipment.

Installation

Installation must be carried out in a workmanlike manner, in compliance with all applicable laws and the nameplate data of the device itself.

The installation of the pump introduces a modification to the drinking water system, therefore it must only be carried out by a qualified professional and in accordance with all applicable standards and laws.

All materials used for the installation and maintenance of water distribution systems must be suitable for contact with water intended for human consumption.



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BRAVOMAX-A is to be installed on the cold water pipe at the inlet of the system, immediately downstream of the general meter and in any case upstream of the system to be protected. Provide an exposed drain sized to receive and properly dispose of the water coming from the filter during washing.

The installation diagram is intended to give the necessary information for the correct operation of the equipment. It is beyond the scope of this document to establish a proper installation. The installation diagram is intended to give the necessary information for the correct operation of the equipment. It is beyond the scope of this document to establish a proper installation.

In any case, before carrying out the installation, consult the instruction manual for use and installation supplied with the equipment

Warnings

Protect from frost and bad weather, avoid contact with solvents and chemicals in general. Refer to the Technical Data paragraph for operating limit values.

Cleaning and self-cleaning filters are protection filters and they are not suitable for the filtration of water containing silt, large amounts of sand and/or suspended material. In these cases it is necessary to use other types of filters.

Observe the information in the Use and Maintenance Instruction Manual.

Reference regulations

BRAVOMAX-A is designed and manufactured for the filtration of water intended for human consumption.

BRAVOMAX-A is made of materials suitable to contact with water intended for human consumption.

Acqua Brevetti SRL has adopted an Integrated Management System QSA (Quality, Occupational Health and Safety, Environment) certified in accordance with standards:

EN ISO 9001:2015
ISO 45001:2018,
EN ISO 14001:2015

Endowment

BRAVOMAX-A is packed in a wooden crate. The standard equipment includes: BRAVOMAX-A filter, power supply unit, No. 2 UNI EN 1092-1 flanges (for flanged models). No. 2 pressure gauges, instruction manual for use, maintenance and assembly.



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Technical Datasheet

Code	Unit	FT260	FT262	FT264	FT266	FT270	FT272	FT274	FT276
Threaded connections		1" ½ M	2" M	2" ½ M	3" M	-	-	-	-
Flanged connections		-	-	-	-	DN40	DN50	DN65	DN80
Flow rate ($\Delta P=0.2$ bar)	m ³ /h	18.0	22.4	35.0	40.0	18.0	22.4	35.0	40.0
Flow rate ($\Delta P=0.5$ bar)	m ³ /h	30.0	40.0	49.6	54.0	30.0	40.0	49.6	54.0
Filtration rating*	micron	150							
Working pressure min/max	bar	2,0 - 10							
Cleaning water consumption	L	14							
Water temperature min/max	°C	5 - 30							
Ambient temperature min./max.	°C	5 - 40							
Power Supply	V/Hz	230/50							
Degree of protection		IP44							
Filter material		Acciaio inox AISI 304							
Cartridge material		Acciaio inox AISI 316							
Brushes material		Acciaio inox AISI 316 e nylon							

* 50-100 micron available



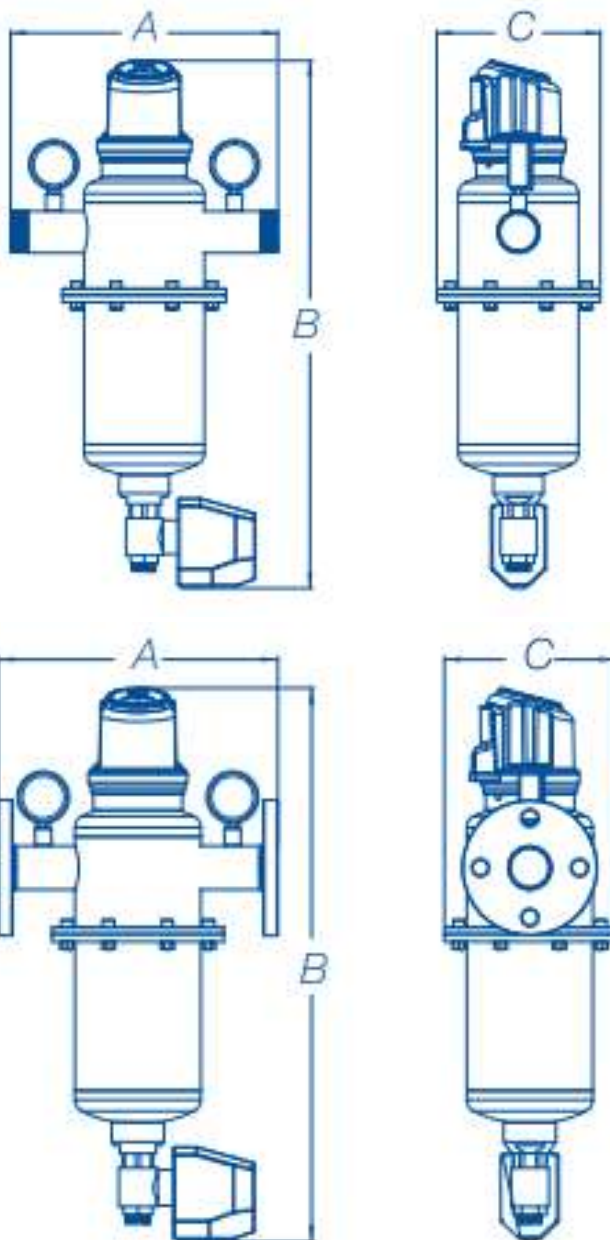
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Overall dimensions



Code	Unit	FT260	FT262	FT264	FT266	FT270	FT272	FT274	FT276
Width (A)	mm	310	310	310	310	310	310	310	310
Height (B)	mm	612	612	700	700	612	612	700	700
Depth (C)	mm	190	190	190	190	190	190	190	190



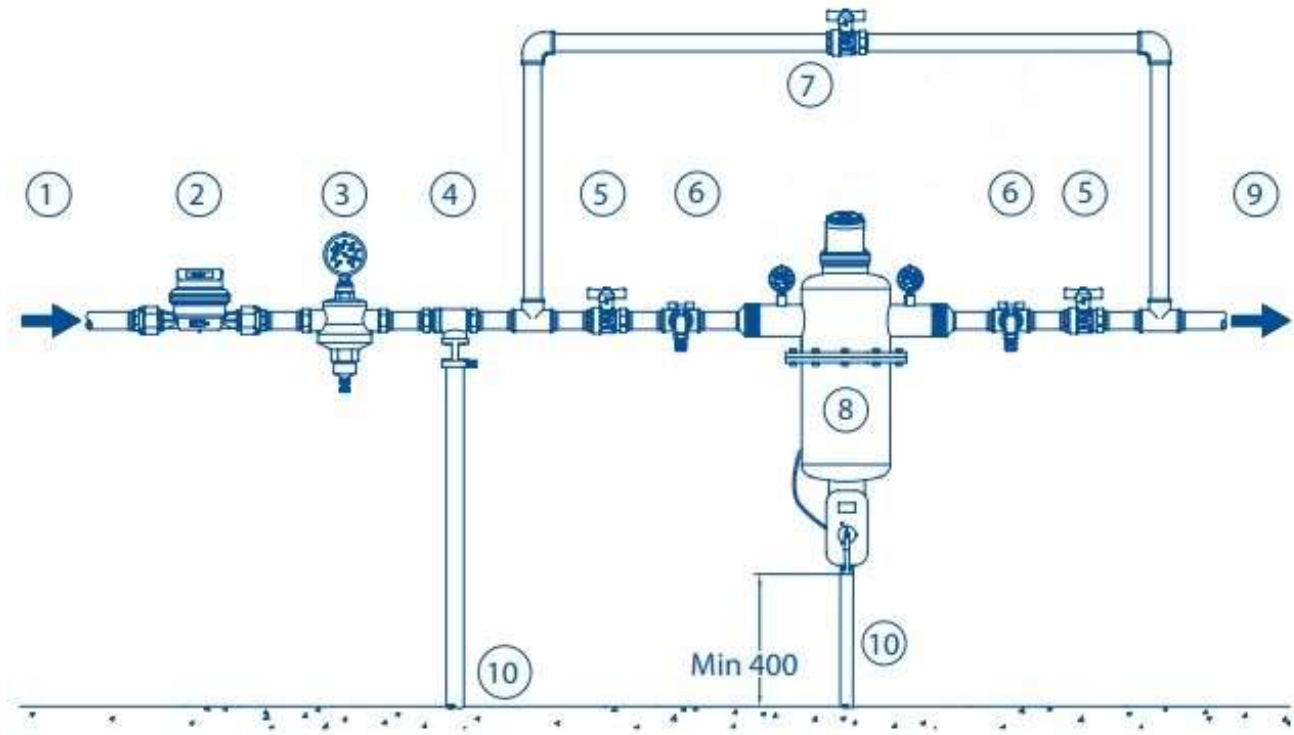
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Installation diagram example



Legend

1. Water inlet 2. General counter 3. Pressure reducer 4. Disconnecter 5. Shut-off valve
6. Sample point 7. By-pass valve 8. Filter BRAVOMAX-A 9. Water outlet
10. Discharge



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Azienda certificata
ISO 9001:2015



This Technical Data Sheet is based on the experience of ACQUA BREVETTI SRL and applies to normal use of the product as described in this Data Sheet and in the Use and Maintenance Manual; any use other than that described must be authorised in writing. For regular operation and maintenance of the equipment, we recommend entering into an agreement with our Technical Service Centres. ACQUA BREVETTI SRL reserves the right to make any changes to its products even without prior notice. In accordance with the law, any reproduction, even partial, of this document, which remains the exclusive property of ACQUA BREVETTI SRL, is prohibited.