

HYDRA-M AUTO with 2 manometers

Automatic self-cleaning filters with back-wash

HYDRA-M AUTO self-cleaning filters is provided with 2 manometers which ensure the proper timing for the cleaning operation: when the pressure at outlet manometer drops 1 BAR below the pressure at inlet manometer it is time to operate the cleaning operation.

мін 1.8 BAR **BAR**

HYDRA-M AUTO have been designed with innovative solutions regarding the efficiency of the system for the self-cleaning of the cartridge, thanks to newly designed back-wash on counter-current which grants the highest particles removal from the cartridge. When the cartridge is to be cleaned, the cleaning operation with back-wash is simply operated by the programmer located at the filter bottom.

The automatic self-claning process is driven by a programmer with dual programming mode:

- set how may hours in between self-cleaning processes,
- set how many seconds the self-cleaning process will last.

Thanks to the dual programming mode HYDRA AUTO performs customized self-cleaning programs, depending on water quality.

In addition, if the cartridge should not be perfectly cleaned by the programmed process, by simply pressing the dedicated MANUAL FLUSH key it is possible to immediately start up a new self-clening process (the operation can be reapeated any time).

That operation causes a pressure-drop which pushes the cartridge downward the housing bottom and reverses the water flow from the outer to the inner side of the cartridge. It is that counter-current back flow which washes away to the discharge the impurities trapped onto the outer side of the cartridge. The filters perform 90 micron filter rate with stainless steel net cartridge or plastic net cartridge and 50 micron filter rate with pleated plastic net cartridge. The HYDRA-M AUTO filter features a drain funnel, which is a device designed to protect potable water in water installations against pollution by backflow in accordance with European standard UNI EN 1717 November 2002. This device prevents backflow by making all elements downstream from the solenoid drain valve vent to atmosphere (protection unit symbol: DC).

Non-toxic materials, suitable for drinking water, in compliance with the UE "Directive 98/83/EC".

Head: reinforced polypropylene.

Bowl: PET. O-ring: EPDM.

Breather-valve: body stainless steel, O-ring EPDM.

IN/OUT threads: CW 614 N brass inserts.

RAH cartridge: stainless steel net AISI 316, frame and end caps polypropylene.

RLH cartridge: polyester net, frame and end caps polypropylene.

RSH cartridge: polypropylene pleated net, frame and end caps polypropylene.

Cartridges spring: stainless steel AISI 316-L.

Nipple: nylon.

Electrovalve: brass, 1/2" - 24 VAC. Discharge hose-holder: nylon.

Manometers: radial type, pressure range BAR 0-12, PSI 0-170.

Drain funnel: reinforced polypropylene.

Programmer: 230 Volt (IN) / 24 VAC (OUT) / 1 A in compliance with "EN 61558-2-6".

HYDRA AUTO filters are constructed in accordance with the following European directives:

Nº 89/336/EEC - Electromagnetic compatibility.

Nº 73/23/EEC - Low voltage directive.

Specifically, the following harmonised regulations were applied:

EN 50081-1, EN 55014, EN 60800-2, EN 61000-4-4, EN 61000-3-2, EN 61000-3-3, EN 55104, EN 60204-1.



Filter housings made in PET, a highly recyclabe plastic, are manufactured with a proprietary procedure saving up to 60% of energy in injection molding compared with standard plastics. That is one of Atlas Filtri commit-ments to comply with Kyoto Treaty for the reduction of green house gas (CO2) emissions in the atmosphere.





BENEFITS OF HYDRA-M AUTO SELF-CLEANING FILTERS

Free from frequent operation of filter opening and cartridge washing, with all the related operation: water mains turn off - turn on, interruption of the water delivery, water flood when opening the filter, and get a clean filter in a while.

Perform self-cleaning with back-wash operation and ensure the best removal of particles from the cartridge surface with the counter-current flow, which pushes the particles to the discharge.

2 Manometers grant control of pressure drop and ensure the most appropriate cartridge cleaning.

Water is delivered even during the self-cleaning operation, with no interruption of the water supply.

	IN/OUT	cartridge	filtration	maximum flow rate	pressure drop BAR @ maximum					
model	connections	type	micron	l/h@3BAR	flow rate	Α	В	C	D	E
HYDRA-M AUTO 1/2 - RAH 90 mcr	1/2"	stainless steel net	90	3800	0,41	120	475	70	140	50
HYDRA-M AUTO 3/4 - RAH 90 mcr	3/4"	stainless steel net	90	5300	0,41	120	475	70	140	50
HYDRA-M AUTO 1 - RAH 90 mcr	1"	stainless steel net	90	6000	0,41	120	475	70	140	50
HYDRA-M AUTO 1 1/4 - RAH 90 mcr	1" 1/4	stainless steel net	90	8000	0,41	120	490	70	140	50
HYDRA-M AUTO 1 1/2 - RAH 90 mcr	1" 1/2	stainless steel net	90	10000	0,41	120	490	70	140	50
HYDRA-M AUTO 1/2 - RLH 90 mcr	1/2"	polyester net	90	3800	0,44	120	475	70	140	50
HYDRA-M AUTO 3/4 - RLH 90 mcr	3/4"	polyester net	90	5300	0,44	120	475	70	140	50
HYDRA-M AUTO 1 - RLH 90 mcr	1"	polyester net	90	6000	0,44	120	475	70	140	50
HYDRA-M AUTO 1 1/4 - RLH 90 mcr	1" 1/4	polyester net	90	8000	0,44	120	490	70	140	50
HYDRA-M AUTO 1 1/2 - RLH 90 mcr	1" 1/2	polyester net	90	10000	0,44	120	490	70	140	50
HYDRA-M AUTO 1/2 - RSH 50 mcr	1/2"	pleated polypropylene net	50	3800	0,43	120	475	70	140	50
HYDRA-M AUTO 3/4 - RSH 50 mcr	3/4"	pleated polypropylene net	50	5300	0,43	120	475	70	140	50
HYDRA-M AUTO 1 - RSH 50 mcr	1"	pleated polypropylene net	50	6000	0,43	120	475	70	140	50
HYDRA-M AUTO 1 1/4 - RSH 50 mcr	1" 1/4	pleated polypropylene net	50	8000	0,43	120	490	70	140	50
HYDRA-M AUTO 1 1/2 - RSH 50 mcr	1" 1/2	pleated polypropylene net	50	10000	0,43	120	490	70	140	50

Remark: maximum flow rate values are experimentally obtained at Atlas Filtri testing laboratory with specific testing devices, using new, clean filters, under the following testing conditions:

- inlet pressure: 3 BAR

- inlet water temperature: 10°C

- room temperature: 20°C

- raw water: potable water from municipal supply

cartridges assortment



RAH cartridge 90 micron stainless steel net AISI 316



RLH cartridge 90 micron polyester net



RSH cartridge 50 micron pleated polypropylene net

accessories included





-S- wall bracket wall bracket screws

spare parts



Stainless steel AISI 316-L spring for cartridges RAH, RLH, RSH



housing O-ring



electrovalve 1/2"- 24 VAC



1/2" nipple with O-ring



Plastic hose-holder



Drain funnel



Brass hose-holder



IN female plastic in/out threads 1/2", 3/4", 1", 1"1/4, 1"1/2



variant

variant available on minimum quantity

R03-11/10. Subject to change without notice