AG RANGE AUTOMATIC FILTERS

The versatile automatic filters in the Hectron AG range are available with filtration degrees from 0.5 to 500 microns. The washing system with suction arm offers optimum efficiency with low water consumption.



Washing system electronic control unit. Supplied fully lights and cycle counter (except AG100).

> Membrane-type switch to trigger the washing cycles.

sieve, consisting of a stainless steel support

230 V motor to rotate the washing mechanical

valve, with anti-clogging

Stainless steel housing.



HECTRON





FRANCE

OPERATION



Filtration. Filtration is carried out through a cylindrical sieve. When this sieve is clogged, a pressure switch detects the pressure difference between the inlet and the outlet and triggers the washing cycle.

Washing. Washing is carried out by means of a suction arm, which carries out back-washing focused on the openings in the arm. The arm rotates and therefore cleans the entire sieve surface.



Evacuation. During washing, a solenoid valve opens and the suspended solids are evacuated out of the filter.

MODELS

AG100







			Filtration degree (µm)													
Model	Inlet / outlet		2	3	6	11	20	30	40	50	60	80	100	200	300	400
AG100 1"	1" BSPF	rate (r	6	6 4 8												
AG100 1"1/4	1"1/4 BSPF	Max. flow (m³/ł	6	4	8	8	12									







AG200

				Filtration degree (µm)															
Model	Inlet / outlet		2	3	6	11	20	30	40	50	60	80	100	200	300	400			
AG200 2"	2" BSPF		12	8	20	20					25								
AG200 3"	3" BSPM	ר rate (ר	12	8	20	20	25	30	35	35	45								
AG200 DN80	DN80 ISO flanges	Max. flow (m³/ŀ	12	8	20	20	25	30	35	35	45								

 $0.5~\mu m$ and $1\,\mu m$ membranes available on option.







AG300

			Filtration degree (µm)														
Model	Inlet / outlet		2	3	6	11	20	30	40	50	60	80	100	200	300	400	
AG300 3"	3" BSPM		30	20			45										
AG300 DN100	DN100 ISO flanges	ר rate (ר	30	20	45	45		70									
AG300 DN150	DN150 ISO flanges	Max. flow (m³/ŀ	30	20	45	45	70	85	100	105	120						

 $0.5~\mu m$ and $1\,\mu m$ membranes available on option.



AG400

			Filtration degree (µm)															
Model	Inlet / outlet		2	3	6	11	20	30	40	50	60	80	100	200	300	400		
AG400 DN100	DN100 ISO flanges		70	60	70													
AG400 DN150	DN150 ISO flanges		90	60	140	140	160											
AG400 DN200	DN200 ISO flanges	rate (ר	90	60	140	140	190	220		260								
AG400 DN250	DN250 ISO flanges	Max. flow (m³/ŀ	90	60	140	140	190	220	260	290	340							

0.5 to 2 μm : non-woven membrane

- Very fine filtration degree.
- Good opening coefficient: relatively high crossing flow rate.

Θ

Good turbidity reductions.

Recommended in the \oplus presence of:

> fine mineral solids (clay, silt)

Not recommended in the presence of:

- iron, manganese
- polymer flocculating agents

3 to 500 μm : cloth membrane

- Precision-woven cloth, square mesh.
- Suitable for all types of suspended solids, excellent lifetime. •

Recommended in the \oplus presence of: mineral solids

organic solids

- Not recommended in Θ the presence of:
 - polymer flocculating •
- agents

TECHNICAL SPECIFICATIONS

		unité	AG100	AG200	AG300	AG400
ธิเ	Maximum working pressure	Bar	5	5 / 10* / 16*	5 / 10* / 16*	5 / 10*
litio	Minimum inlet pressure	Bar	2,5	2,5	2,5	2,5
Dpe	Minimum outlet pressure	Bar	2	2	2	2
0.0	Maximum water temperature	°C	50	70 / 90*	70 / <mark>90</mark> *	70 / 90*
	Maximum size of suspended solids	mm	3	3	4	4
r s	Electricity supply	V/Hz	230/50	230/50	230/50	230/50
Filte istic	Ingress protection rating		IP40	IP40 / IP65*	IP40 / IP65*	IP40 / IP65*
cter	Power	W	60	110	270	570
ara	Weight empty	Kg	15	26	68	190
ch	Weight filled with water	Kg	27	51	155	355
	Filtration area	cm ²	690	1 104	2 813	7 960
	Volume of water discharged per washing cycle	L	5	8	18	60
	Washing cycle duration	S	5	5	6	10
	Washing cycle instantaneous flow rate	m³/h	3,6	5,8	10,8	21,6
	Maximum head loss	Bar	0,5	0,5	0,5	0,5

				VERSIONS			
				Standard	316L**	Marine**	
				Stainless steel 304 + brass	All stainless steel 316L	Coated SST 316L, duplex, plastics	
νσ	Maximum free chlorine	permanently	mg/L	0,3	3	10	
uire .		occasionally	mg/L	3	12	20	
er qu	Max. salinity g/L			0,3	5	50	
Vate	Max. chlorides Cl ⁻ mg/			200	2 700	27 000	
>	min. / max. pH	permanently		6 / 8	5 / 10	4 / 10	
		occasionally		3 / 12	2 / 12	2 / 12	
S	Filter housing			Stainless steel 304	Stainless steel 316L	SST 316L + coating	
erial	Suction arm			POM	POM	POM	
Mate	Evacuation solenoid valve	e (Marine version: motorized	d valve)	Brass	Stainless steel 316L	PP / EPDM	
-	Differential pressure swite	ch		Brass	Stainless steel 316L	SST 316L	
	Filtering sieve support			SST 316L, PE	SST 316L, PE	Duplex, PE	
	Hardware in contact with	water		Stainless steel A4	Stainless steel A4	Duplex	
	Woven cloth filter membr	ane		PETP or PA 6.6	PETP or PA 6.6	PETP or PA 6.6	
	Non-woven filter membra	ine		Polyester	Polyester	Polyester	
	Seals			EPDM, nitrile (NBR)	EPDM, nitrile (NBR) EPDM, nitrile (NBR)		

OF HON.		AG100	AG200 AG300	AG400
Micro-filtration	 0.5 or 1 µm membrane: excellent turbidity reduction Specific internal components and operating constraints 	not available	option	not available
ACS	ACS (French certificate; EU validity)For use on drinking water networks	option	option	option
PN10	 Maximum service pressure: 10 Bar A suction pressure limiter automatically controls the pressure in the washing arm. 	not available	option	option
PN16	Maximum service pressure: 16 BarSuction pressure limiterReinforced housing	not available	option	not available
90 °C	 Maximum water temperature 90 °C Electrical part thermally insulated from the housing 	not available	option	option
Industry	Separate electronic unit, with indicator lights and cycle counterFeedback can be connected to a supervision unit.	option	standard feature	standard feature
IP65	Reinforced IP on the various items of electrical equipment	not available	option	option

*on option

AG200

DIMENSIONS



The inlet and outlet can be rotated relative to each other (180°, 90°, etc.)



APPLICATIONS

Well water

Well water for domestic or commercial use. By choosing the finest filtration degrees, these filtres enable to eliminate most of the SS present in these waters: sand, earth but also clays. Use in geothermal, potabilisation, watering.

Wastewater

Installing a filter enables to secure the rejections after clarifier. Choosing an automatic filter avoid the constraint of cartridges replacement. A filtration degree of 100 or 200 microns is most frequently chosen.

Lakes and rivers water

Rivers generally have a very variable turbidity, with a heavy suspended solids load on certain periods of floods or thunderstorms. Regarding lakes and ponds, they contain highly clogging organic solids, requiring the use of an efficient cleaning system. Potable water

These filters are used in potabilisation units. In reverse osmosis protection, thanks to their very fine iltration degree, they provide an optimum protection of membranes. They can also be used before ultra filtration or a UV system.

Networks in factories

Most factories have large water networks, whether used for the process (in papermaking for example) or for cooling. Cooling networks are frequently loaded with dust, fine metal particles or other materials, which can be removed by a filter.

Seawater

A special, corrosion-resistant version is available for seawater. These filters are used to protect heat pumps on seawater, in aquaculture or as prefiltration before reverse osmosis desalination systems.







