HECTRON AG series
HECTRON AG Marine series

Automatic self-cleaning filters

- ✓ Optimum filtration quality, with a filtration degree available down to 1 micron.
- ✓ Ready-to-use delivered, backwash control system included.
- ✓ Filtration not interrupted during backwash.
- ✓ Available for flow rates up to 160 m^3/h
- ✓ Applications: well water (geothermal heating, irrigation), industrial water after waste water treatment plants, pre-filtration to membranes, potable water, seawater.

2 series: **Stainless Steel 304L**
Stainless Steel 316L

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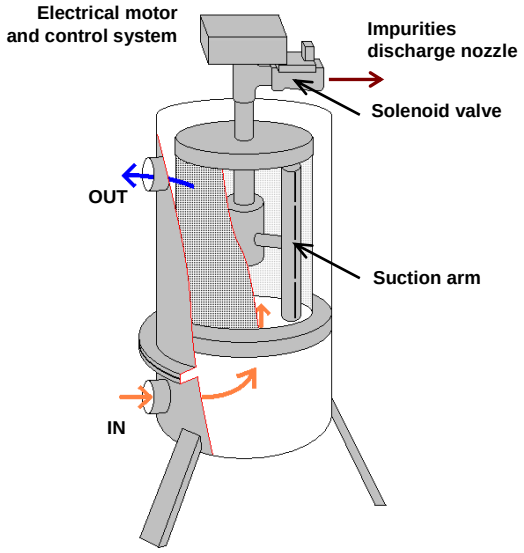
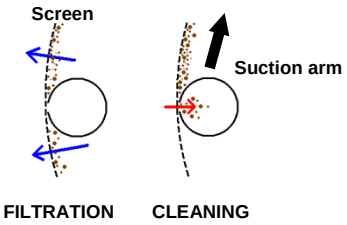
How it works



Filtration. Filtration is achieved through a multi-layer screen. As soon as the filter screen is clogged, a pressure switch detects the pressure difference between inlet and outlet and starts the cleaning cycle.

Cleaning. The cleaning cycle is performed by the means of a suction arm which rotates and backwashes the filter screen surface. The cleaning effect is focused on the suction arm holes. A complete rotation of the suction arm is achieved, so that the whole surface is cleaned in one cleaning cycle.



Drain. During the cleaning cycle, a solenoid valve is actuated opened and the suspended solids are drained out of the filter.

Filtration degrees and flow rates

AG100

Type	Flow rate (m^3/h)	Available filtration degree (µm) :						In / out
		1	6	11	20	40	60, 80, 100, 200	
AG100	8		●	●	●	●	●	1'' thread

AG200

Type	Max flow rate (m^3/h)	Available filtration degree (µm) :						In / out
		1	6	11	20	40	60, 80, 100, 200	
AG200 2''	8	●	●	●	●	●	●	2'' thread
	17		●	●	●	●	●	
	25				●	●	●	
AG200 3''	45						●	3'' thread

AG200 Marine : available with 3'' nozzles, filtration degree from 1 to 200 µm

AG300

Modèle	Max flow rate (m^3/h)	Available filtration degree (µm) :						In / out
		1	6	11	20	40	60, 80, 100,200	
AG300 3''	25	●	●	●	●	●	●	3'' thread
	45		●	●	●	●	●	
AG300 DN100	70				●	●	●	DN100 flanges
AG300 DN150	160						●	DN150 flanges

AG300 Marine : available with 3'' or DN150 nozzles, filtration degree from 1 to 200 µm

Technical specifications

Plant required characteristics

		S.S. 304 series			S.S. 316L series	
	Units	**AG100**	**AG200**	**AG300**	**AG200 Marine**	**AG300 Marine**
Maximum working pressure	*Bar*	4	6 or 9 (option)		6 or 9 (option)	
Inlet minimum pressure	*Bar*	2,5			2,5	
Minimum pressure after filter	*Bar*	2			2	
Water maximal temperature	*°C*	50			50	
Water maximal concentration	*mg/L*	100 to 2000*			100 to 2000*	
* this parameter varies depending on the selected filtration degree and the suspended particles size.						

Filters characteristics

	Units	**AG100**	**AG200**	**AG300**	**AG200 Marine**	**AG300 Marine**
Electrical supply	*V/Hz*	230/50			230/50	
Power	*W*	60	110	200	110	200
Weight	*Kg*	15	26	68	26	68
Filter area	*cm²*	690	1104	2813	1104	2813
Rejected water volume per cleaning cycle	*L*	4	5	10	5	10
Cleaning cycle duration	*s*	5	4		4	
Filter maximal pressure loss	*Bar*	0,5			0,5	

Construction materials

	AG100	**AG200**	**AG300**	**AG200 Marine**	**AG300 Marine**
Filter housing	S.S. 304			S.S. 316L	
Suction arm	PVC			PVC	
Solenoid valve	brass			S.S. 316L	
Pressure difference switch	brass			S.S. 316L	
Filter screen : fabric support	S.S. 316L, PE			S.S. 316L, PE	
Filter screen : filtering fabric	polyester			polyester	
Seals	nitrile			nitrile	

Options

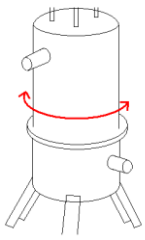
Available options on AG200 or AG300 filters :	
Flanges	DN50 or DN80 flanges
Low pressure	An aspirating pump is connected after the filter solenoid valve. Min inlet pressure : 1,7 bar Min pressure after filter : 1,2 bar
9 bar	Version for a maximum working pressure of 9 bar
120V	Version for a 120V/50Hz power supply (USA, Canada,… standard)

Setup

Pressure. Refer to the installation diagrams on a specific document.

On standard models, pressure downstream the filter must stay at 2 bar minimum. The filter outlet must be kept under pressure. If the line downstream the filter is not sufficient, a pressure valve shall be installed.

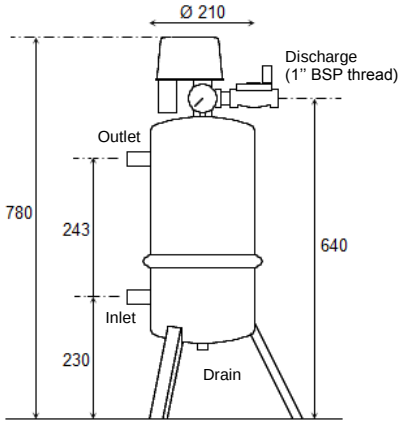
Inlet/outlet direction. The inlet and outlet nozzles can be turned one toward the other.

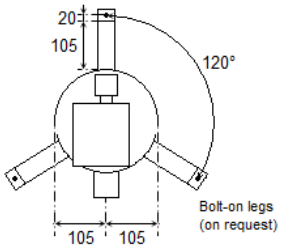


Measurement

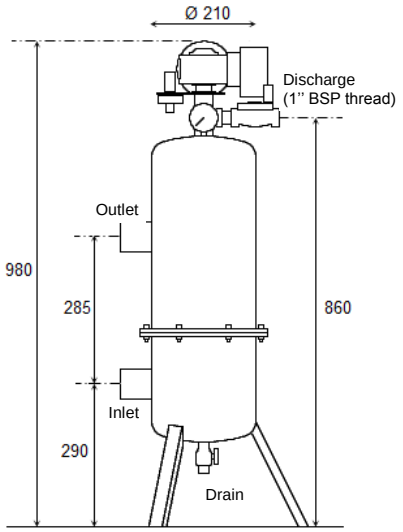
In mm

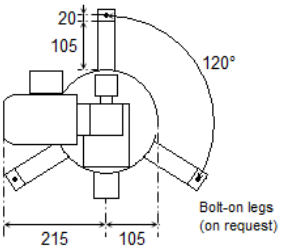
AG100



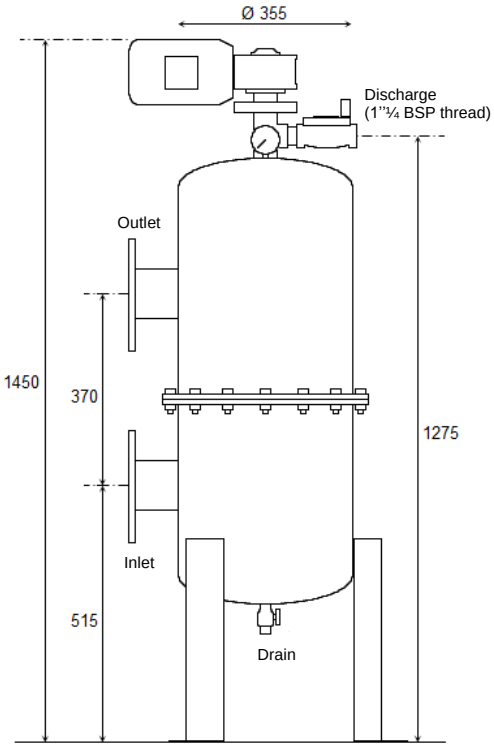


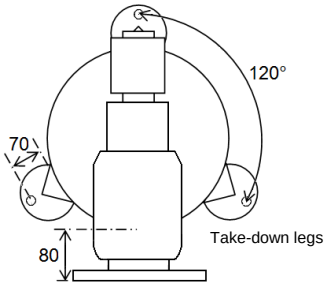
AG200





AG300





HECTRON
25 avenue Pierre Emmanuel
06000 NICE - France

Tél. : +33 (0)4 93 97 02 42
Fax : +33 (0)4 93 84 86 76
E-Mail : info@hectron.com

S.A.R.L au capital de 24 000 €
R.C.S Nice B 338 376 841
N°TVA: FR 24 338 376 841