Automatic self-cleaning filters

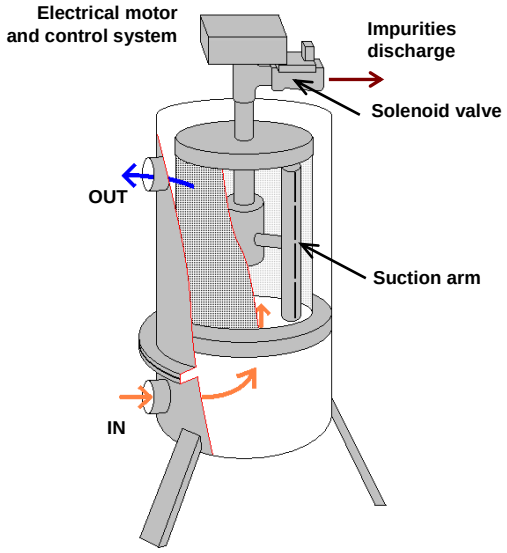
- ✓ Optimum filtration quality, with a filtration degree available down to 1 micron.
- ✓ Ready-to-use delivered, backwash control system included.
- ✓ Filtration not interrupted during backwash.
- ✓ Available for flow rates up to 120 m^3/h
- ✓ Applications: well water (geothermal heating, irrigation), industrial water after waste water treatment plants, pre-filtration to membranes, potable water, seawater.

3 ranges:

Stainless Steel 304L
Stainless Steel 316L for use with agressive liquids : seawater, chlorinated water...
ACS: version with ACS certificate (French certification for potable water networks)

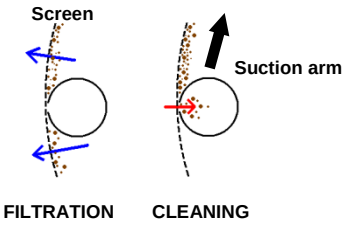
HECTRON

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	Max flow rate (m^3/h)	Available filtration degree (µm) :						In / out
		1	6	11	20	40	60, 80, 100, 200	
AG100	8		●	●	●	●	●	1'' BSP 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'' BSP thread
	17		●	●	●	●	●	
	25				●	●	●	
AG200 3''	45						●	3'' BSP thread

Available versions :	**AG200**	**AG200-316L**	**AG200-E** (ACS certificate)

AG300

Type	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'' BSP thread
	45		●	●	●	●	●	
AG300 DN100	70				●	●	●	DN100 flanges
AG300 DN150	120						●	DN150 flanges

Available versions :	**AG300**	**AG300-316L**	**AG300-E** (ACS certificate)

Technical specifications

Plant required features

		S.S. 304 range			S.S. 316L range	
	Units	**AG100**	**AG200**	**AG300**	**AG200 316L**	**AG300 316L**
Maximum working pressure	*Bar*	4	5 or 10	5 or 10	5 or 10	5 or 10
Inlet minimum pressure	*Bar*	2,5			2,5	
Minimum pressure after filter	*Bar*	2			2	
Water maximal temperature	*°C*	50	70	70	70	70
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 features

	Units	**AG100**	**AG200**	**AG300**	**AG200 316L**	**AG300 316L**
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*	5	6	12	6	12
Cleaning cycle duration	*s*	5	4	4	4	4
Cleaning cycle flow rate	*m^3/h*	3,6	5,4	10,8	5,4	10,8
Filter maximal pressure loss	*Bar*	0,5			0,5	

Construction materials

	AG100	**AG200**	**AG300**	**AG200 316L**	**AG300 316L**
Filter housing	S.S. 304			S.S. 316L	
Suction arm	PVC	PET-P (ertalyte)		PET-P (ertalyte)	
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	PET (polyethylene)			PET (polyethylene)	
Seals	EPDM			EPDM	

Options

Available options on AG200 or AG300 filters :	
PN10	Version for a maximum working pressure of 10 Bar : a suction pressure regulator is set on the discharge solenoid valve outlet.
Low pressure	An aspirating pump is connected after the discharge solenoid valve. Min inlet pressure : 1,7 bar Min pressure after filter : 1,2 bar
ACS	**AG200-E** and **AG300-E** filters have the ACS certificate (french certification for potable water networks).
120V	Version for a 120V/50Hz power supply (USA, Canada,… standard)

Setup

Pression. These filters have to be setup on a network under a 2 bar minimum pressure (standard models).See the detailed explanations on the setup cards.

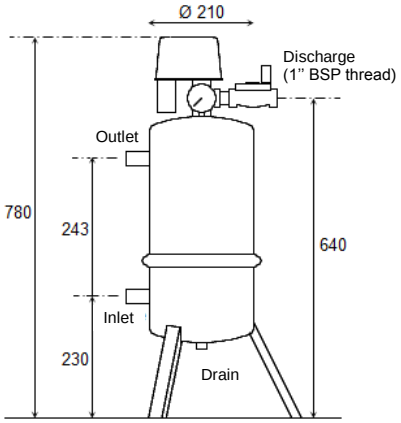
Inlet/outlet direction. The inlet and outlet nozzles can be turned one toward the other.

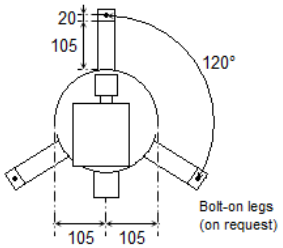
Electric connection. The filters include an electric box with the cleaning control; to be connected to the main current.

Measurement

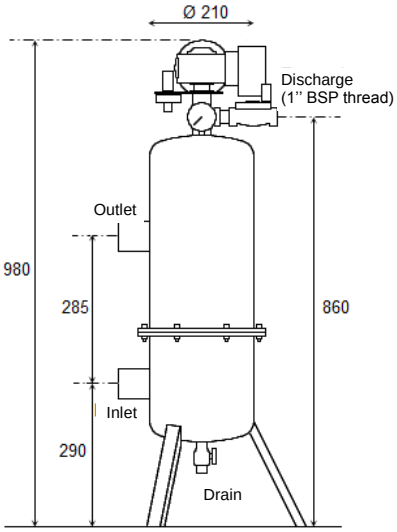
In mm

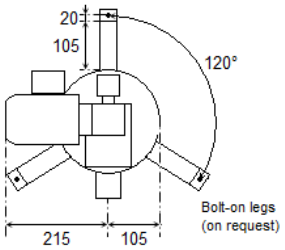
AG100



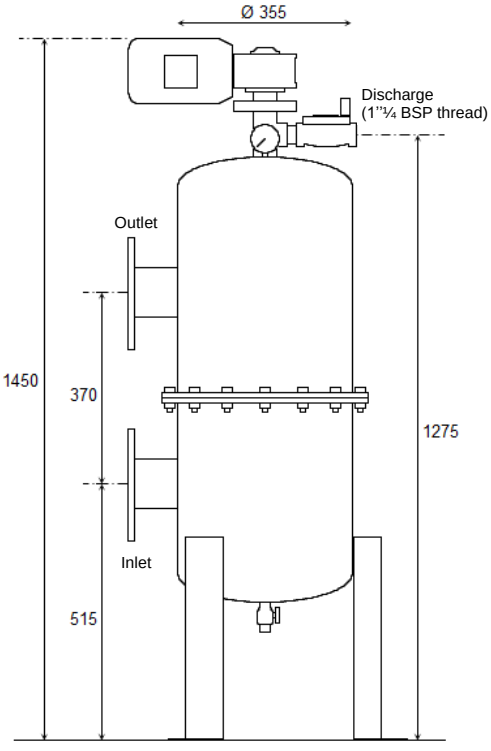


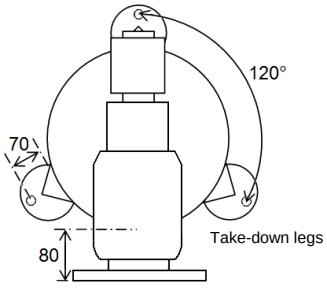
AG200





AG300





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