

FILTRATION SYSTEMS AquaNet^{INOX}

AUTOMATIC STAINLESS STEEL SELF-CLEANING SCREEN FILTER

MADE IN ITALY



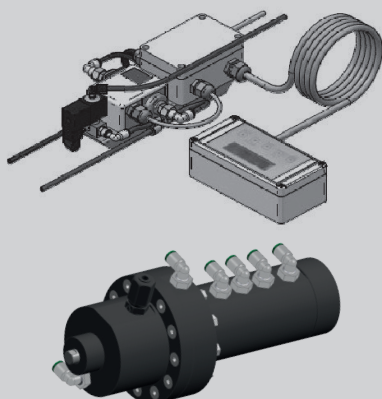
Aquanet inox are automatic self-cleaning filters, designed for treatment of fluids containing suspended solid of colloidal origin. Its special suction nozzles assure effective cleaning of the cartridge with reduced water consumption and without interruption of downstream flow during flushing.

Aquanet inox is available in two different models: Vertical and Horizontal one (V and H) for different agricultural installation requirements.

The internal filtering cartridge is available either with polyester (PES) tissue inserted between two AISI 316 stainless steel mesh supports or with triple-layer AISI 316 stainless steel mesh (REPS).

Aquanet inox filtering range is from 80 to 200 mesh. Filters are supplied ready to use them, complete with manometers, hydraulic discharge valve, differential pressure switch and **Filtron 1/10** electronic control unit or **Hydrocontrol**.

AUTOMATIONS



The **Filtron 1/10** electronic control unit manages the cleaning cycles and its start-up.

Functions

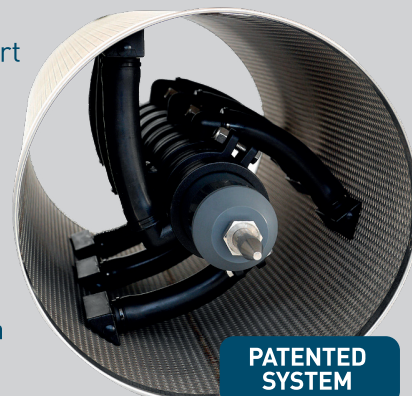
- Operation at time intervals and/or ΔP
- Counting the number of cycles manual start of the cleaning cycle
- Setting of the washing time

Hydrocontrol manages itself the cleaning cycles of the automatic filters without power source.

The filter starts the self-cleaning process when the pressure differential reaches a pre-set level of 0.7 bar.




"FLEX SUCTION" TECHNOLOGY

FLEXIBLE VACUUM NOZZLES



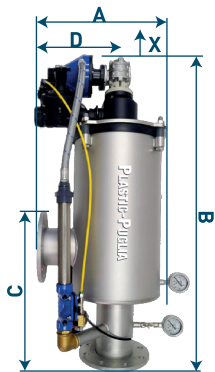
PATENTED SYSTEM

AQUANET INOX GENERAL FEATURES

Material		Connections		Application range	
Body	INOX AISI 304	DN	Type	Filtration degree	80 ÷ 200 mesh
Cover	INOX AISI 304	3"	 BSP - Flanged	Pressure	10 bar
Cartridge	AISI 316	80	 	Temperature	< + 60° C
Gaskets	Epdm	100			
		150			
		200			
			FLA - Flanged VIC - Victaulic		

AQUANET INOX VERTICAL TECHNICAL FEATURES

Model	In/Out DN	Drain inch	Area cm ²	Q _{max} * m ³ - h	Weight kg	Volume litres	Dimension mm				
							A	B	C	D	X
ANXV8040/20	80	1" 1/2	2200	40	32	15	550	920	295	200	650
ANXV10070/35	100	1" 1/2	3300	70	44	27	580	975	345	235	650
ANXV150140/35	150	1" 1/2	3300	140	47	27	580	975	345	235	650
ANXV150160/40	150	1" T 1/2	5400	160	57	44	580	1275	345	235	1000

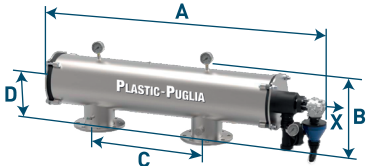


X: Necessary space for maintenance

* Flow rate refers to filters with 120 mesh screen and clean water

AQUANET INOX HORIZONTAL TECHNICAL FEATURES

Model	In/Out DN	Drain inch	Area° cm ²	Q _{max} * m ³ - h	Weight kg	Volume litres	Dimension mm				
							A	B	C	D	X
ANXH8050/20	80	1" 1/2	3700	50	45	25	1115	510	450	213	650
ANXH10090/35	100	1" 1/2	8700	90	70	71	1575	600	640	245	650
ANXH150160/35	150	1" 1/2	8700	160	74	71	1575	600	640	245	650
ANXH150180/40	150	1" 1/2	8700	180	76	71	1575	600	640	245	1000
ANXH200280/40	200	1" 1/2	8700	280	82	71	1575	600	640	285	1000

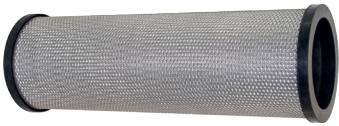



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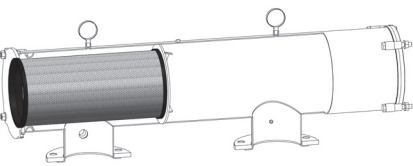
° Filtering area refers to complete cartridge with coarse screen

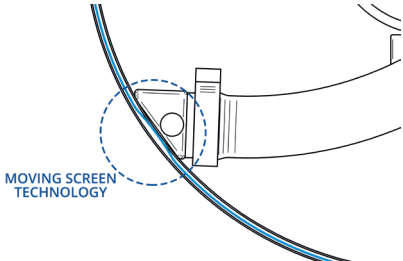
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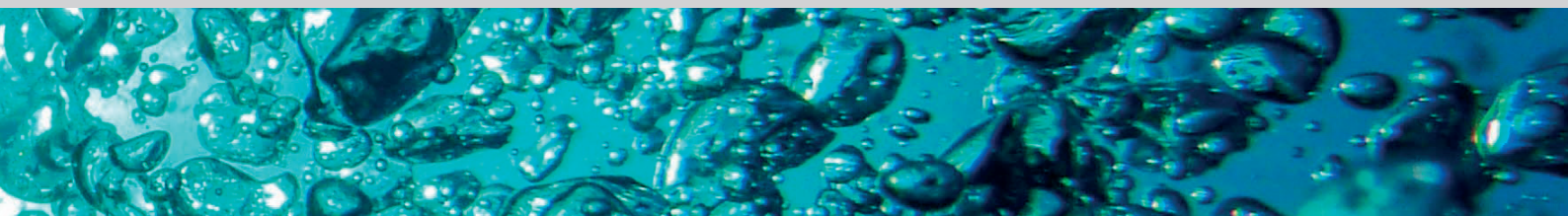
AVAILABLE FILTER CARTRIDGE

SANDWICH CARTRIDGE KIT	Model	Diameter mm	Length mm	Area cm ²
 <p>AISI316 stainless steel support net, polyester filtering sock and double EPDM gasket</p> <p>Filtration degrees: 200 - 150 - 120 - 80 mesh</p> <p>FILTERING SCREEN (PES) REPLACEABLE</p>	/20	145	490	2200
	/35	218	490	3300
	/40	218	800	5400
Internal screen AISI 316 - Filtering screen (PES) – Protection screen PP - AISI 316 external screen				

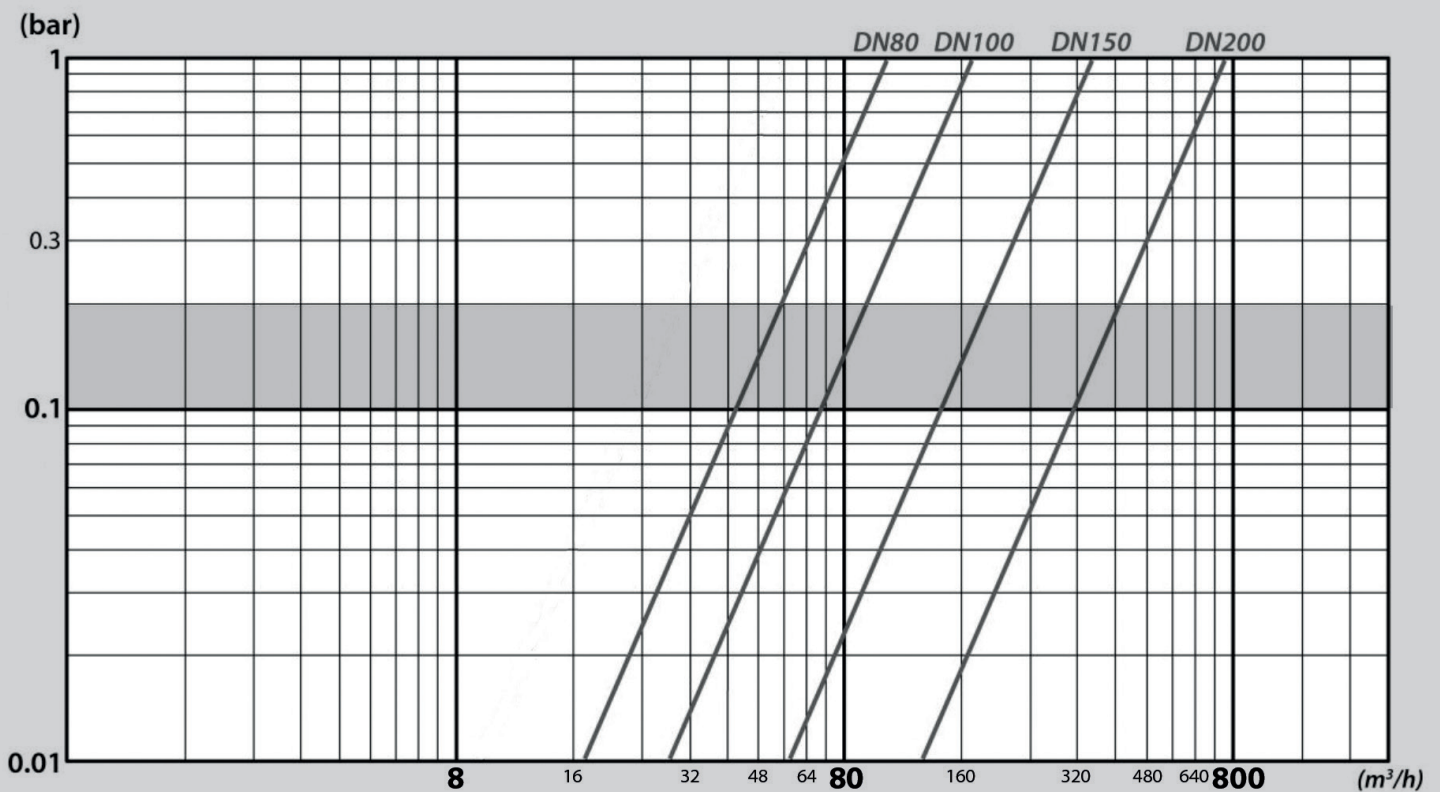
REPS CARTRIDGE TRIPLE-LAYER	Model	Diameter mm	Length mm	Area cm ²
 <p>INOX AISI316 CARTRIDGE REPS KIT TRIPLE LAYER, WITH double gasket in EDPM</p> <p>Filtration Degrees: 120 mesh</p>	/20	145	490	2200
	/35	218	490	3300
	/40	218	800	5400
Internal screen AISI 316 - AISI 316 filtering screen - AISI 316 external screen				

COARSE SCREEN	Model	Diameter mm	Length mm	Area cm ²
 <p>Inox AISI 316 stainless steel coarse screen</p> <p>Particles filtration more than 3 mm</p>	/20	145	330	1500
	/35	218	800	5400
	/40	218	490	3300

CLEANING SYSTEM
 <p>MOVING SCREEN TECHNOLOGY</p> <p>An exclusive advantage of the sandwich system is the "moving screen technology" that, thanks to the waving of the PES net during the nozzle rotation, permits to remove much more particles compared to a common filtering cartridge</p>



PRESSURE LOSSES



The pressure losses are related to filters with 120 mesh screen and with clean water

CLEANING CYCLE

Cleaning device	Flexible suction nozzles	Model	/20	/35	/40
Discharge valve	Hydraulic 1" 1/2	Water for 3 bar cleaning cycle (liters /sec)	5,0	5,5	7,0
Cleaning cycle time	20 + 40 seconds				
Cleaning minimum pressure	2 bar	Water for 4,5 bar cleaning cycle (liters /sec)	6,0	7,0	9,0



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