



- by Aquaservice

Aquafilter

 Made in **Norway**

Reliable filters for **aquaculture** and **maritime industry** for almost **40** years



Aquafilter and PEHD-products

Aquaservice has developed and supplied filters for aquaculture and the maritime industry for almost 40 years. We are a leading supplier of self-cleaning filters.

Aquafilter has a strainer insert with a V-shaped profile for efficient filtration and self-cleaning of the filter. The specially developed filter inserts are designed for efficient filtration with the lowest possible pressure drop. The filter has an effective self-cleaning process even at low pressures.



Aquafilter Single Bag



Reliable filters for aquaculture and maritime industry for almost 40 years

- Filters supplied in the early 80s work just as well to this day.
- Patented technology for efficient backwashing
- Extremely effective cleaning technology for the tough tasks.
- Low pressure drop
- Flushing by pressure difference Time interval or manually

Close collaboration with the market and unique expertise and experience from various types of water treatment plants have helped us to become one of the leading suppliers of self-cleaning pressure filters within the aquaculture and maritime sector.

- High capacity ÷ "small footprint"
- Low pressure drop - lower operating costs
- Corrosion-free material
- Chemical resistant
- Smooth and clean surfaces and large openings
- Adjustable parameters
- Continuous monitoring
- Innovative technology

Disk Technology (D)

- Backwash: Bernoulli's Principle
- Wedge wire filter element is standard

Backflush Technology (BF)

- Aquaservice patented technology
- Wedge wire filter element is standard

TAC Technology (TripleAction)

- Combines the Bernoulli principle and ejector for efficient backwashing and low flushing volume
- Wedge wire filter element is standard

Aquafilter Disc



Aquafilter Backflush



Aquafilter TAC



Aquafilter Cleanbox



Aquafilter Multibag



Fish transport
Filter
Valves
Manifold
Underwater pipeline
Pipe parts
UVdisinfection
Ozon treatment

Intake System
Drainage & Sludge Treatment
Piping
PEHD Constructions
Engineering
Machining
Service - Automation
Boat

Aquafilter TAC

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- TAC Filter combines back and ejector flushing with the Bernoulli effect
- Works at low pressure
- Corrosion-free and chemically resistant filter housing

Aquafilter Triple Action (TAC) is designed for extremely demanding filtration tasks at low operating pressure. Aquafilter TAC combines back and ejector flushing with the Bernoulli effect to clean the filter.

This unique technology means that the cleaning cycles will hardly be affected, even at low pressures on the secondary side. Flushing starts when the nozzle is in position above the strainer insert, which results in the best possible filter cleaning. Flushing stops when the cleaning nozzle moves between the strainer inserts. This increases the strainer cleaning quality and reduces the amount of rinsing water.

Standard for Aquafilter models is a strainer insert made of stainless steel with a V-shaped form for efficient filtration and backflush. The specially developed filter elements are designed for efficient filtration at the lowest possible drop in pressure. The filter has an efficient backflush process at pressures as low as 0.4 bar.

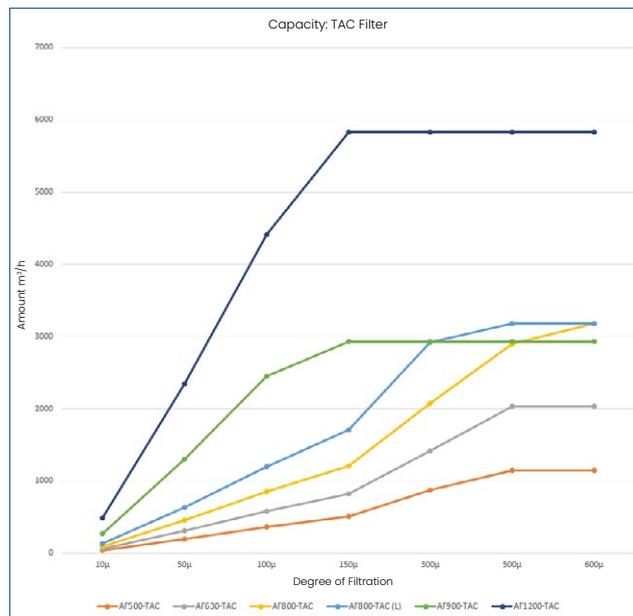
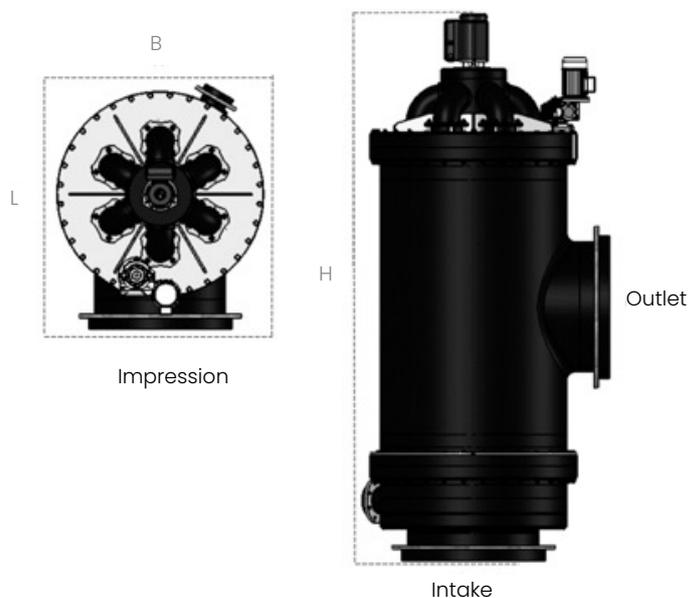
The filter housing is made of high-density polyethylene (HDPE), a corrosion-free and chemically resistant material that is perfectly suited to seawater.





Specifications

Application	Water
Max. capacity at 500 µm	5830 m³/t
Degree of filtration	10µm – 5mm
Max. working pressure	3 bar*/**
Minimum back flushing pressure	0,4 bar***
Material (filter housing)	HDPE stainless steel
Max. working temperature	55°C*
Flushing medium	Water (filtrated)
Activation of flushing	Time interval, drop in pressure, or manually
Connections	Flange, PN10
Strainer insert	Steel or duplex steel****
Filter motor	Standard motor
Motor	Positioned torque motor
Discharge valve	Butterfly valve with actuator



Aquafilter TAC Control

All Aquafilter models are equipped with a standard control cabinet. The cleaning cycle can be optimised by changing parameters on the touch screen. The control cabinet is equipped with ModBus communication as a standard. On request, it can be connected to other equipment with different types of communication.

Model	Connection	Degree of Filtration [µm]	Capacity [m³/h]	HI [mm]	Weight [kg] (dry)	LxW [mm]
AF500-TAC	DN200*	10	40	1780	80	650x450
		100	360			
		300	876			
AF630-TAC	DN200*	10	65	1780	80	650x450
		100	582			
		300	1414			
AF800-TAC	DN500*	10	95	2200	660	1000x900
		100	854			
		300	2076			
AF800-TAC(L)	DN500*	10	134	2700	660	1000x900
		100	1203			
		300	2922			
AF900T-AC	DN600*	10	274	2700	660	1200x1000
		100	2450			
		300	2935			
AF1200-TAC	DN1000*	10	492	3200	750	1500x1300
		100	4407			
		300	5830			

* Other dimensions can be supplied on request
 Capacities can be adjusted by changing limiting factors such as dimensions of intake / outlet etc. All data in the table can be changed without notice.

Fish transport
Filter
Valves
Manifold
Underwater pipeline
Pipe parts
UVdisinfection
Ozon treatment

Intake System
Drainage & Sludge Treatment
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Service - Automation
Boat

Aquafilter Disk

🇳🇴 Made in **Norway**

- Self-cleaning filter
- All surfaces made of HDPE and stainless steel
- Backflush activated by pressure difference, time intervals, or manually

Aquafilter Disk is an automatic self-cleaning filter, based on the Bernoulli principle. All surfaces in contact with filtration liquid are made of high density polyethylene (HDPE) or stainless steel. (Duplex optional).

Standard for all Aquafilter models is a strainer insert made of stainless steel with a V-shaped form for efficient filtration and backflush. The specially developed strainer inserts are designed for efficient filtration at the lowest possible drop in pressure. The filter has an efficient backflush process even at low pressure levels.

The filter parameters are controlled by a PLS. The cleaning sequence is activated by pressure difference, time interval, or manually. As a standard, the control cabinet is equipped with Mod Bus communication. On request, it can be connected to other equipment with different types of communication.

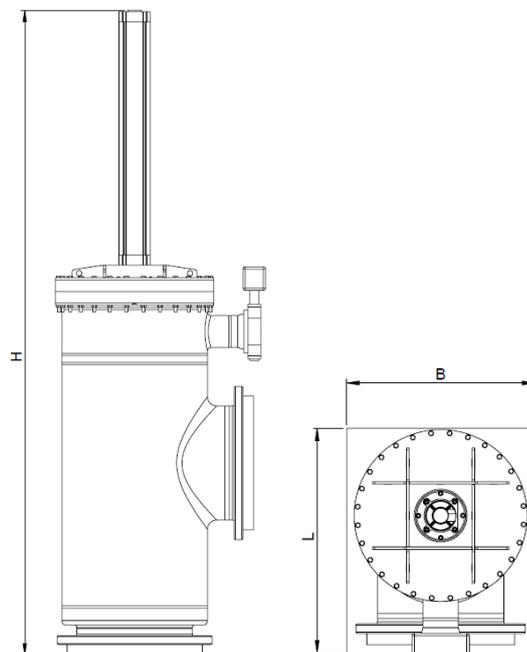
A standard Aquafilter Disk is equipped with 2 pressure sensors.





Specifications

Application	Water*
Capacity	See table
Degree of filtration	100µm – 5mm
Max. temperature	55°C
Max. working pressure (standard)	5 bar**
Minimum flushing pressure	0,4 bar***
Material (Filter housing)	HDPE and stainless steel
Flushing medium	Water (filtrated)
Flushing activation	Time, pressure difference, or manually
Connection	Flange, PN10
Strainer insert	Stainless steel or duplex steel
Flushing valve	Butterfly valve with actuator
Operating medium cylinder and valve	Compressed air in accordance with ISO 8573



* PE100 pipe design based on ISO 9080 calculations on BorSafe™ HE3490-LS-H pressure test data (tests carried out by Exova)
 ** Higher/lower pressure versions on request
 *** In case of low water pressure, a pump can be mounted on the outlet

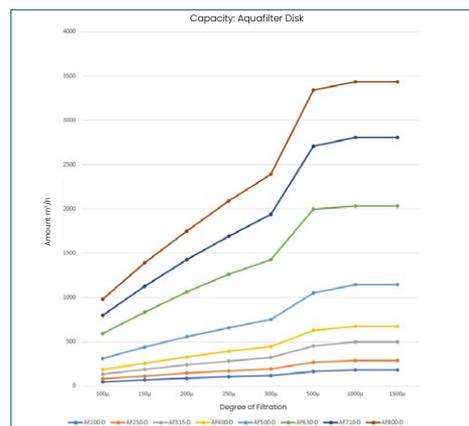
Dimensions

Model	Recommended intake / outlet	Dim. flushing [mm]	Degree of filtration [µm]	Capacity	Weight [kg]	LxW [mm]
AF200-D	DN65*	40	150 500	68 162	23	1000x320x270
AF250-D	DN100*	63	150 500	113 271	33	1290x380x320
AF315-D	DN150*	75	150 500	188 450	38	1430x450x380
AF400-D	DN200*	75	150 500	260 625	84	1730x580x480
AF500-D	DN300*	75	150 500	440 1050	160	2150x700x800
AF630-D	DN400*	140	150 500	835 1998	270	2920x840x910
AF710-D	DN500*	180	150 500	1128 2705	340	3100x930x1030
AF800-D	DN600*	180	150 500	1390 3340	390	3400x1020x1080

* Other dimensions can be supplied on request
 ** Capacities can be adjusted by changing limiting factors such as the dimension of intake/outlet etc.
 All data in the table can be changed without warning

Options

- Advanced filter control (adjustment of parameters, monitoring and drop in pressure)
- ModBus standard, other bus systems on request
- Net-based smart automation
- Connection module for existing control systems
- Other intake and outlet dimensions
- Nozzle for flushing
- Other options on request



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Aquafilter Backflush

🇳🇴 Made in **Norway**

- Unique patented backflush technology
- High capacity
- All surfaces are made of HDPE and stainless steel

Aquafilter Backflush automatic backflush filter. The backflush sequence is activated by pressure difference, time intervals, or manually. The filter housing is made of HDPE and all surfaces in contact with water are made of HDPE or stainless steel. Standard for all Aquafilter models is a strainer insert made of stainless steel with a V-shaped form for efficient filtration and filter backflush.

The specially developed filter elements are designed for efficient filtration at a low drop in pressure. The filter has an efficient backflush process even at low pressure levels.

Developed to reduce the amount of flushing water and streamline the backflushing process.

Aquafilter BF Control

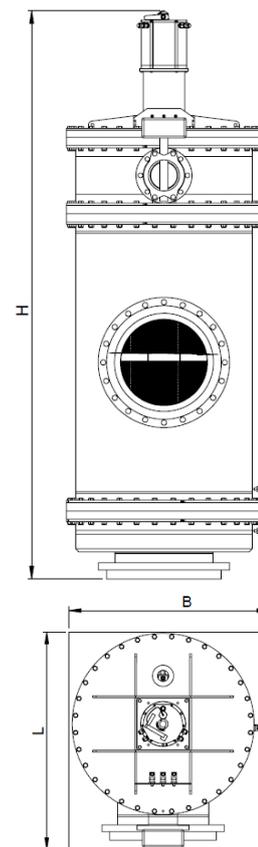
All Aquafilter models are equipped with a standard control cabinet. The cleaning cycle can be optimised by changing parameters on the touch screen. The control cabinet is equipped with ModBus communication as standard. On request, the control system can be connected to other equipment with different types of communication.





Specifications

Application	Water*
Max. capacity 500 µm	7200 m ³ /t
Degree of filtration from	50µm
Max. working pressure	3 bar**
Minimum backflush pressure	0.4 bar*** in differential pressure against the flush outlet
Material in contact with liquid	HDPE and stainless steel
Backflush means	Water (filtrated)
Activation of backflush	Time, differential pressure**** or manually
Connection	Flange PN10
Filter element	Stainless Steel, duplex ore Super Duplex
Filter engine	EL actuator
Flushing valve	Butterfly valve with actuator



* Maximum temperature 55°C * PE100 pipe design based on based on ISO 9080 calculations on BorSafe™ HE3490-LS-H pressure test data (tests carried out by Exova).

** High pressure versions on request

*** With lower water pressure, a pump can be mounted in front of the flushing valve

**** Factory setting 0.2 bar

Dimensions

Model	Connection	Degree of Filtration [µm]	Capacity [m ³ /t]	H1 [mm]	Weight [kg]	LxW [mm]
AF800-BF	DN500*	300 150	2700 2400	2400	575	1100x900
AF900-BF	DN600*	300 150	4300 3500	2950	907	1200x1000
AF1200-BF	DN700*	300 150	7200 4600	3350	2150	1400x1100

* Other dimensions can be supplied on request

Capacities can be adjusted by changing limiting factors such as dimension of inlet / outlet etc. All data in the table can be changed without notice.

Options

- Connection module for existing control systems using ModBus TCP bus system. On request, the control system can be connected to other equipment with different types of communication
- Optional intake/outlet dimensions
- Flushing pump
- AquaService "Smart automation" system for controlling and monitoring complex systems involving several projects, filters, valves, UV
- Other options on request



Control cabinet with touch screen

Fish transport
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Aquafilter Single Bag

🇳🇴 Made in **Norway**

- Corrosion-free and chemical-resistant filter house
- Quick opening features
- Low pressure loss

AquaFilter Single Bag, in high-density polyethylene (HDPE), is the best choice for industrial, commercial and OEM applications. The filter house is corrosion free and resistant to chemicals. The features of the AquaFilter Single Bag make it a cost-effective solution for a wide range of applications.

AquaFilter Single Bag is designed with a quick opening feature that allows bag changes without tools. The filter is equipped with a replaceable stainless steel (316L) bag support basket. The AquaFilter Single Bag can be customized to fit different demands. The filter can be mounted standalone or as part of a skid due to its special mount flange.



How to open the filter and replace the bags



Loosen the eye bolts



Slide the flanges away from the lid



Remove the lid and empty the bag



Specifications

Inlet/Outlet	DNI100*	4"*
Maximum working pressure	6 bar*	87 psi*
Material Filter House	High-density polyethylene (HDPE)	High-density polyethylene (HDPE)
Flow (see graph below)	100 m ³ /t **	450 USgal/min**
Seal	EPDM, FPM, NBR	EPDM, FPM, NBR
Vent Port	Optional	Optional
Gauge Port	Optional	Optional
Filter Bag	#01 og #02	#01 og #02
Bag Change Area (above filter)	Min. 200 mm	8"
Maximum working temperature	50°C*	150°F*

* PE100 pipe design based on ISO 9080 calculations on BorSafe™ HE3490-LS-H pressure test data (tests done by Exova)

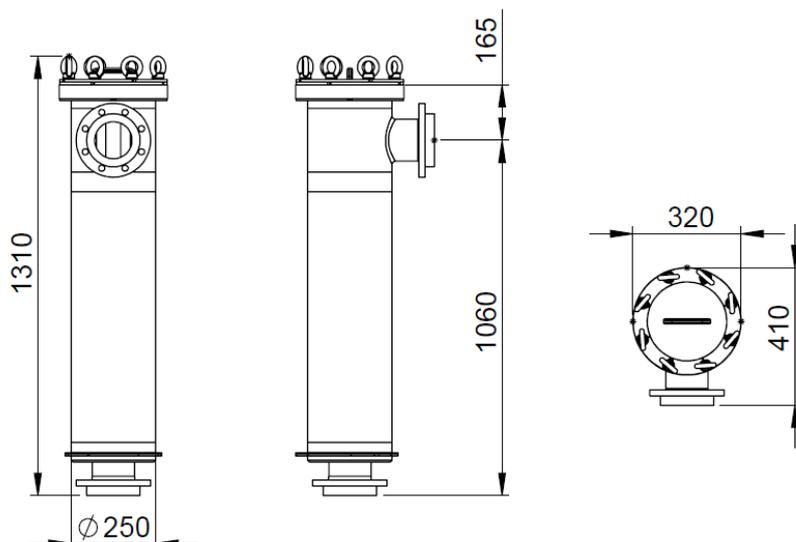
** With perforated basket and without filter bag (0.18 bar head loss)

*** Other sealing materials optional

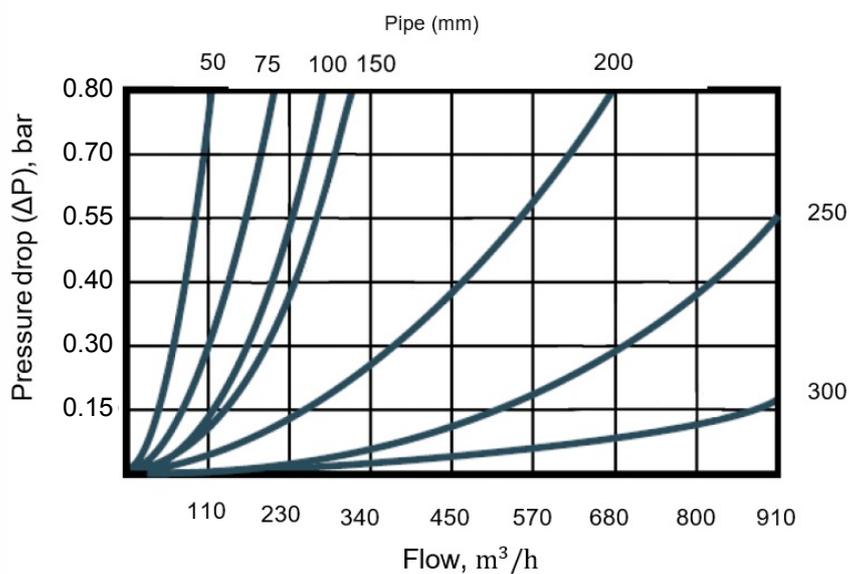
All specifications can be adjusted if requested.

Options

- Skid mountings
- Other options on request



Bag filter capacity



Fish transport
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Aquafilter Multibag

🇳🇴 Made in **Norway**

- Corrosion-free and chemical-resistant filter house
- Quick opening features
- Low pressure loss

AquaFilter Multibag is a multi-bag filter specially designed for efficient filtration and easy change of bags. The unique quick opening feature and special davit cover allow for easy and efficient bag changes without the need for tools. The rugged and proven design makes opening and closing of the cover easy, safe and quick. The filter house is made of high-density polyethylene (PEHD), which is corrosion free and resistant to chemicals. The bag support baskets are replaceable and made of stainless steel (316L).

The features of the AquaFilter Multibag make it a cost-effective solution for a wide range of applications. The filter can be customized to fit customer demands.

Inlet, outlet and filter house are designed for minimal pressure loss.



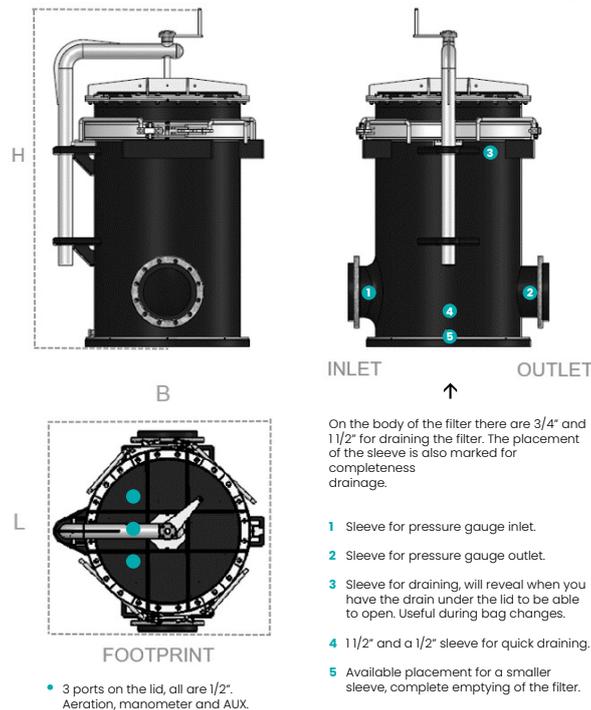
Closed

Open lid clamp

Turn crank, lift lid and rotate davit



Specifications	
Inlet/Outlet	DN250 Ø280 mm
Max. Working Pressure	3 bar*
Material Filter House	High-density polyethylene (HDPE)
Bag support basket	Stainless steel (316)
Flow (see graph below)	See table below**
Seal	EPDM, FPM, NBR***
Vent Port	Standard 1/2"
Gauge Port	Standard 1/2"
Bag size	#01 og #02
Maximum temperature	50°C*



* PE100 pipe design based on ISO 9080 calculations on BorSafe™ HE3490-LS-H pressure test data (tests done by Exova) Compact floor mounting needed
 ** With perforated basket and without filter bag (0.18 bar head loss)
 *** Other sealing materials optional.

All specifications can be adjusted if requested

Dimensions						
Model	Inlet/outlet	Bag size	Capacity [m³/h]	H1 [mm]	Weight without water [kg]	LxW [mm]
ABF8	DN250	#1 og #2	580	2050	440	1100x1200
ABF12	DN250	#1 og #2	870	2100	510	1500x1500

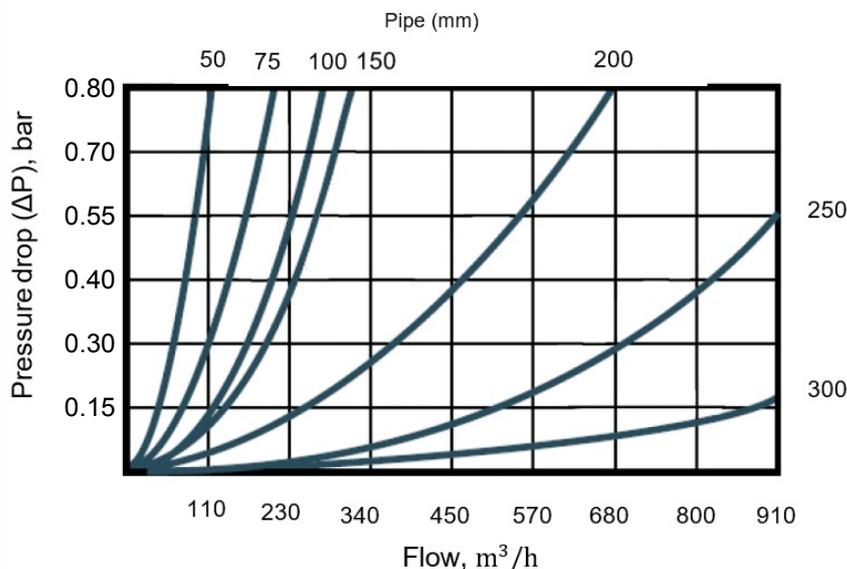
All data in the table can be changed without notice.

DN250 Ø280 is the maximum connection. We can deliver all sizes that are smaller. DN250 is the recommended root volume on connection.

Options

- Dimensions inlet/outlet
- Other options on request

Bag filter capacity



Bag filters are usually selected so that the pressure drop does not exceed 0.14 bar (2 psi), when they are clean.

Fish transport
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AquaCleanBox

🇳🇴 Made in **Norway**

- All surfaces made of PEHD or acid resistant steel
- High capacity and extreme durability
- Optimum capacity with low pressure drop

AquaCleanBox is a high capacity manual filter with extreme durability. Its usual area of application is for pre-filtration of water before pumping, but its potential use extends far beyond other industry applications.

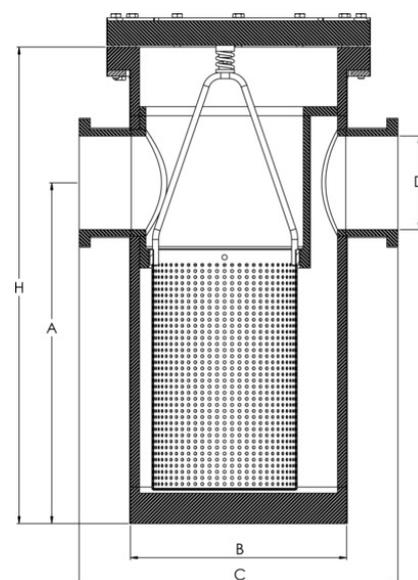
All surfaces in contact with liquid are made of polyethylene (PEHD) or acid resistant steel. AquaCleanBox is designed to ensure optimal flow with the lowest possible pressure loss. Standard for all AquaCleanBoxes is an PEHD cylinder head secured with wing nuts for easy use without tools. On request, the product can be supplied with a transparent inspection lid. Flanges on cylinder heads are made of stainless steel with optional acid resistance. Flanges on inlets and outlets are made of galvanised steel with optional PP coating.

Standard for the AquaCleanBox is a cylinder filter made of acid resistant steel with a V-shaped profile for efficient filtering. The specially developed filter cylinders are designed for effective filtration with the lowest possible pressure loss. On request, the filter can be supplied in PEHD with an aperture of between 1.5 mm to 10 mm.





Specifications	
Application	Water*
Max. capacity at 500 µm	1550 m ³ /h
Degree of filtration	1mm - 20mm
Max. temperature	65°C
Max. working pressure (standard)	5 bar**
Filter housing material	PEHD
Connections	Flange, PN10
Manometer connection	Standard 1/2" BSP
Basket strainer material	Acid resistant steel (standard), duplex or super duplex (optional)



* PE100 pipe design based on ISO 9080 calculations on BorSafe TM HE3 490-LS-H pressure test data (tests carried out by Exova)
 ** Higher/lower pressure versions possible on request

Dimensions									
Models	Connec- tion	Degree of filtration [mm]	Capacity [m ³ /h]*	A [mm]	B [mm]	C [mm]	D [mm]	H1 [mm]	H2 [mm]
ACB80	DN80	30	39	390	200	360	90	549	554
ACB100	DN100	30	75	553	280	440	110/125	688	593
ACB150	DN150	30	156	670	355	520	180/160	1061	1066
ACB200	DN200	30	246	910	450	676	200/225	1205	1210
ACB250	DN250	30	384	1165	630	886	250/280	1595	1600

Capacities can be adjusted by changing limiting factors such as dimensions of inlet/outlet etc. All data in the table can be changed without notice.
 * Capacities given for a pressure drop of 0.1 bar
 ** Customised solutions can be supplied on request

Optional extras

- Transparent lid for inspection
- PP coated flanges
- Duplex or super duplex basket strainer
- Custom connections

Our pride lies in the quality of our products and our flexibility to give the customer what is needed. We go to great lengths to satisfy the needs of our customers and we are experts in offering customised solutions.



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Sustainability report 2021-22

Our main goal is to have as small a carbon footprint as possible. This is to ensure that we run sustainably and leave behind a healthy operation for future generations - one that does not compromise on climate, nature and the environment.



Aquaservice
 sustainability report



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