

# Filtersystem *Basic*

- the complete technology  
in one piece -



AquaCare GmbH & Co. KG  
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Filter system *Basic 50* made of acrylic glass (Plexiglas) in the basic configuration with Inlet chamber, sock filter, heater holder, degassing chamber, float valve and hose holder



*Basic 70* filter system with exemplary filter technology: heater, measuring chains for pH and ORP, skimmer ACF300A, 2 × empty filter MF<sub>2</sub>-50, energy-saving pump for quiet operation and economical use

## Advantage

Everyone knows the chaos in aquarium technology: the poor example (right) shows different systems, confusing assembly, poor maintenance possibilities, high risk of leaks and salt crusts wherever you look.

The *Basic* filter system is a safe solution for storing all aquarium equipment. The system is also more reliable for the future because there are enough junctions available for expansion technology. All systems within the Basic Filter are protected against overflow because leaking water remains in the system.

**The AquaCare Filter Systems *Basic* can also be manufactured according to your wishes and for very large aquariums we build professional systems made of PE - we of course advise you, so that you can participate in our knowledge.**



## Structure of the system



1.+2. chamber with holders for heating and measuring sensors, overflow screen for degassing stage, inlet from skimmer

The Basic system is made of acrylic glass and provides high stability - even earthquakes can not lead to breakage. The risk of ageing of the silicone seams in glass pools is also eliminated.

1. The aquarium effluent flows first into the inlet stage, which can be equipped with heaters, measuring sensors and pre-filtration. This chamber is always filled with water - even if the circulation pump fails, for example to avoid damage to the heating system and to protect the sensors of the measuring and control technology from drying out.

2. The water then flows into the degassing chamber, where excess gases are drawn out of the water. If the filtration water is not degassed, unsightly air bubbles can be created by the return pump and cloud the view in the aquarium. The water from the high-outlet skimmer should also flow into this chamber (discuss the necessary connection with us) to minimize discharge noise.

3. The water then enters the multi-purpose chamber. Filters can be used here as desired. The return pump is also here, which transports the water back into the aquarium. Automatic refills (by means of float switch or float valve) should be installed in this chamber. Additional filters such as MF2 multifunction filter, PMF phosphate adsorber, FBF fluidized bed filter, AK activated carbon filter, POC filter, globuli filter, KWR lime water reactor, ADN nitrate filter and fish drip chambers (acclimatization chamber) can be installed here.

## Expansion possibilities

The *Basic* filter system can be extended with other filters at any time. AquaCare offers skimmers ACF, trickling filter TKF, denitrification filter (nitrate filter) ADN, POC filter (pellet filter), lime water reactors KWR, with CO<sub>2</sub>-operated *Turbo* chalk reactors, fluidized bed reactors FBR, phosphate filter, activated carbon filter, heaters and much more. We will be happy to advise you which technology is appropriate for your planned aquarium. Whether pure fish aquarium, colorful reef basin, stone coral system, jellyfish installation, beach or rock biotope, AquaCare gladly selects the suitable technology for you.

## Special requests

Since the *Basic* filter system is not a mass-made product and each basin is individually manufactured in Germany, special requests are possible at any time. Whether dimensions, connections, additional compartments (refuge, algae filter, quarantine department, drip basins for new fish or even special installations - we make it possible.

## Technical data (an adaptation to your space conditions is possible)

Type	<i>Basic</i> 50	<i>Basic</i> 70	<i>Basic</i> 90	<i>Basic</i> 140	<i>Basic</i> 210
Maximum aquarium size in l *	200	300	400	600	1000
Footprint size L × T × H in cm	50 × 26 × 40	65 × 26 × 40	65 × 36 × 40	75 × 46 × 40	95 × 56 × 40
Total volume in l	35	68	93	140	210
Equipment	Prefilter ("filter sock"), MediaCup, holder for heating and measuring sensors, degassing stage filled with PE material, float valve with bracket				
Degassing chamber volume in l	3.8	11	14	19	20
Volume 3. Kammer*, approx. in l	24	26	36	57	130
Materials	PMMA (Acrylic glass), PE, PVC, PS, PA, NBR				

\* This information is to be seen only as a guide value; the depth of the tank, circulation volume and sign of the overflow in the aquarium are decisive.



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## - useful accessories -



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### Acclimatization chamber:

This simple but very practical acclimation chamber is designed for the *Basic* filter system. It is placed on the degassing chamber (not possible with *Basic 50*) of the *Basic* system and provided with a water connection. - The chamber can also be placed on straight surfaces next to or above an aquarium. Inlet, overflow and emergency drain can be equipped with hoses.

Fish or other sensitive animals that need to be acclimated slowly are placed in the acclimation chamber with the contents of the transport bag and the water supply is adjusted drop by drop. When the maximum water level is reached, the water runs down through the overflow into the degassing chamber or is discarded.



Filter sock for the *Basic* filter system

### Filter socks:

Acrylic glass pre-filter with nylon filter sock for pre-filtration of the feed water into the filter system *Basic* PMMA version.

The inlet water runs inside the filter sock and flows through the mesh. If the mesh is clogged with coarse particles and fibers, this filter stage overflows, so that the filter stocking must be cleaned or replaced. The nylon filter stocking is fixed with cable ties and can be replaced at any time.

For a more intensive pre-cleaning the filter cloth can be taken double - order for it the double length.



Several filter socks in a larger system with each associated inlet

**MediaCup** for *Basic* filter system - the simple and inexpensive solution for simple filtration tasks: A wide variety of filter materials can be filled into this cup. The MediaCup is simply hung on the bars of the *Basic* filter basin and a water inlet is established. Alternatively, the MediaCup can also be attached to the edge of the multifunction chamber (PMMA version only). The MediaCup can also be placed in any filter basin. Coarse materials can be filled in directly, for

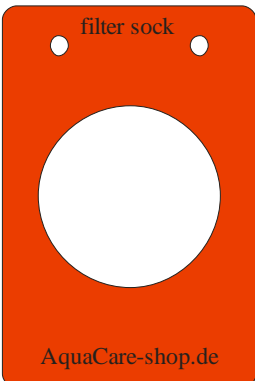
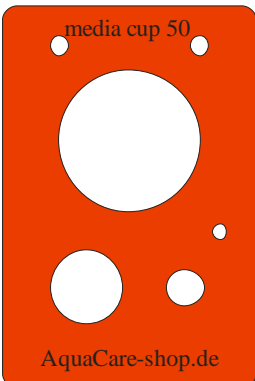
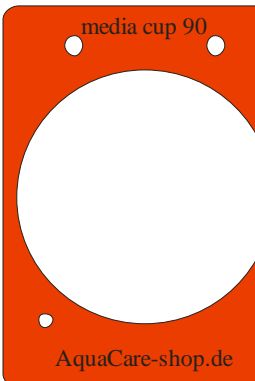
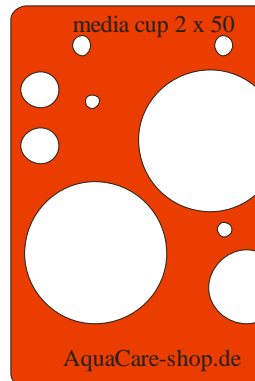
fine materials up to approx. 5 mm a filter sponge is supplied. For very fine materials smaller than 5 mm we recommend the use of the filter sock.

You can choose whether the MediaCup is supplied with water that feeds into the *Basic* tank - for this purpose the MediaCup is hung on the lower bars. Or you can install your own water supply - for this purpose the MediaCup is hung on the upper bars. With the second method, a defined flow can be ensured, e.g. in order to be able to lower the phosphate concentration in a targeted manner.

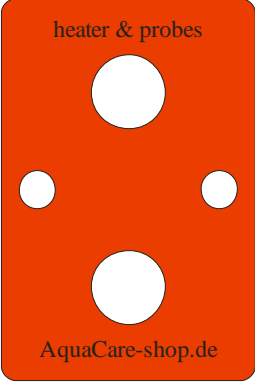
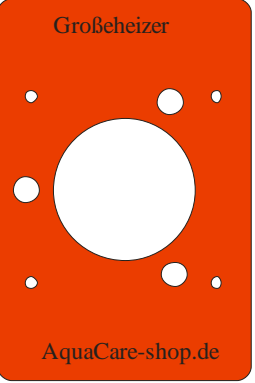
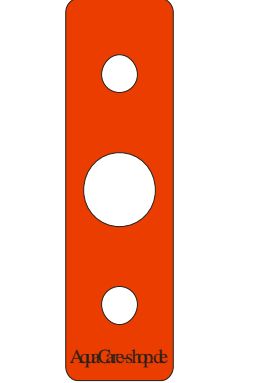




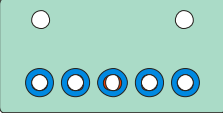
Basic-Zubehör

Type	Volume in litres	Lengths in cm	Diameter in mm	Support surface in mm
Filter sock <i>Basic</i> PMMA	approx.. 1.9	approx. 30	approx. 90	135 × 90
Filter sock <i>Basic</i> PE	approx. 3.8	approx. 60	approx. 90	135 × 90
MediaCup 50-300 PMMA	0.4	30	50	135 × 90
MediaCup 50-600 PE	0.9	58	50	135 × 90
MediaCup 90-300 PMMA	1.5	30	90	135 × 110
MediaCup 90-600 PE	3.1	58	90	135 × 110
MediaCup 2×50-300 PMMA	2 × 0.4	30	50	135 × 110
MediaCup 2×50-600 PE	2 × 0.9	58	50	135 × 110
RScup-basic-PMMA for Red Sea Media Cup PMMA/PE	-	-	90	135 × 100

 <p>filter sock</p> <p>AquaCare-shop.de</p> <p>Filter sock <i>Basic</i> 135 × 90 mm</p>	 <p>media cup 50</p> <p>AquaCare-shop.de</p> <p>MediaCup50: + 1×d26 (heater) + 1×d13 (sensors) 135 × 90 mm</p>	 <p>media cup 90</p> <p>AquaCare-shop.de</p> <p>MediaCup90 135×110 mm</p>	 <p>media cup 2 x 50</p> <p>AquaCare-shop.de</p> <p>Mediacup 2×50: + 1×d26 (heater) + 2×d13 (sensors) 135 × 110 mm</p>
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### Holder for this and that:

 <p>heater &amp; probes</p> <p>AquaCare-shop.de</p> <p>2×d26 (heater) + 2×d13 (sensors) 135 × 90 mm</p>	 <p>Großeheizter</p> <p>AquaCare-shop.de</p> <p>holder for AquaCare large heaters 135 × 90 mm</p>	 <p>holder for 1×d26 (heater) + 2×d13 (sensors) 135 38 mm</p>	 <p>Water supply holder for all Mediacups 1/4" thread for water connections</p>
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 <p>AquaCare-shop.de</p> <p>Holder for vertical pipe d20 70×30 mm,</p>	 <p>5-fold holder for hoses with 4 mm inner diameter 80×40 mm</p>	Holder for float valve	Holder for float switch
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# Filter System *Basic*

- ready for connection with  
suitable technology -



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*Basic 50 with technique*

Typ	<i>Basic 50</i>	<i>Basic 70</i>	<i>Basic 90</i>
Max. aquarium size in l *	200	300	400
Sock filter appr. 100 µm	1 ×	1 ×	2 ×
Device holder for:	1 × heater 2 × sensors	1 × heater 4 × sensors	1 × heater 4 × sensors
Heater	200 W	300 W	600 W Titan**
De-gasing stage	yes		
Abschäumer	ACF300A	ACF300A	ACF700A
Air pump	Schego optimal	Schego optimal	Schego optimal
MediaCup	1 × d50 (0.4 l)	1 × d50 (0.4 l)	1 × d90 (1.4 l)
Delivered care products	1 liter each of trace elements, carbonate hardness and calcium, 1 filling high performance activated carbon		
Suitable aquabee energy saving pump*	UP5000e	UP5000e	UP5000e
Suitable aquabee universal pump*	UP2000/1	UP3000	UP3000

Typ	<i>Basic 140</i>	<i>Basic 210</i>	<i>Basic 320</i>
Max. aquarium size in l *	600	1000	1300
Sock filter appr. 100 µm	2 ×	3 ×	4 ×
Device holder for:	2 × heaters 4 × sensors	2 × heaters 4 × sensors	2 × heaters 4 × sensors
Heater	1 × 600 W Titan**	2 × 600 W Titan**	2 × 600 W Titan**
De-gasing stage	ja		
Abschäumer	ACF700A	ACF1000V/A	ACF2000V/A
Air pump	Schego WS3	UP3000	UP5000
MediaCup	1 × d90 (1.4 l)	1 × d90 (1.4 l)	2 × d90 (1.4 l)
Delivered care products	1 liter each of trace elements, carbonate hardness and calcium, 1 filling high performance activated carbon		
Suitable aquabee energy saving pump*	UP5000e	UP8000e	UP11000e
Suitable aquabee universal pump*	UP5000	UP6000	-

\* not included in the scope of delivery

\*\* comes with an electronic temperature controller

