

Filter system *Basic*

- the complete sea water
technique in one tank-



AquaCare GmbH & Co. KG
Am Wiesenbusch 11 • D-45966 Gladbeck • Germany
☎ 0 20 43 - 37 57 58-0 • ☎ 0 20 43 - 37 57 58-90
www.aquacare.de • info@aquacare.de



Filtersystem *Basic* 750 aus PE mit optional angebaurem Abschäumer ACF6000V und eingebautem Fließbettfilter FBR 110-130



Filtersystem *Basic* 750 aus PE mit optional eingebautem Abschäumer ACF6000, *Turbo*-Kalkreaktor Größe 4, Aktivkohlefilter AK100-060, Denitrifikationsfilter ADN110-060, Phosphatfilter PMR110-060, Heizstab 750 W, 2 × Pumpe MX400

Benefits

Everyone knows the chaos with the aquaristic technique: the bad examples at the left shows different systems, confusing assembly, bad maintenance, a high risk of leakage, and salt crusts in combination with electric huddle.

The filter tank *Basic* is a safe solution to get order. All technique is accommodated inside the tank or joined with safe connections. Upgrading the system is possible because auxiliary connectors are already existing. For example: if you want to connect a nitrate filter you put it inside of the *Basic* tank, connect the supply with an auxiliary connection and open the valve - the additional system is working. All technique inside of the *Basic* tank is protected against emptying. Leaking water is collected inside of the *Basic* tank.

The AquaCare filter system *Basic* are not build in series. Every tank is calculated and constructed to the customers wishes. Please consult our AquaCare team to participate in our knowledge and experience.



Structure of the system



The *Basic* system consists of a large PE-tank with extreme stability - even earthquakes cannot induce cracks in the walls. The danger of growing old silicone seams of glass tanks is cancelled.

1st chamber: the inlet chamber takes the returning water from the aquarium. A fleece, that is easily washable, takes out the bigger particles and fibres. In this chamber you can install heaters and the whole measurement and control technology.

2nd chamber: the trickling filter respectively de-aerating chamber takes the water of the first chamber and additional the water coming back of the skimmer. All gas bubbles still in the water are flowing over the plastic trickling material and will go out of the water. Additional the trickling filter material will be settled by aerobic bacteria and protozoa. Because of its structure - a very high inter-space volume - the trickling filter will NEVER block or reduce the ORP (Redox) value.

3rd chamber: the multi-purpose chamber serves as a catch basin if the main pump of the aquarium is not in operation and emptying water will flow to the filter system. In this chamber enough space



foto: Michael Kokoscha

Add-ons

The filter system *Basic* is extensible with additional filters at any time. Skimmers (ACF), trickling filter (TKF), de-nitrifying filter (ADN), "Kalkwasser" reactors (KWR), CO₂ driven Turbo chalk reactors, fluidized bed reactor (FBR), phosphate filters, activated carbon filters, large glass heaters or plastic heat exchangers, sand filters and others made by AquaCare are available. Consult the AquaCare team to choose the right technique for your aquarium system, please.



Basic 400 with optional: ACF3000V-170, FBR110-060, AK110-060, ADN75, circulation pump, skimmer pump.

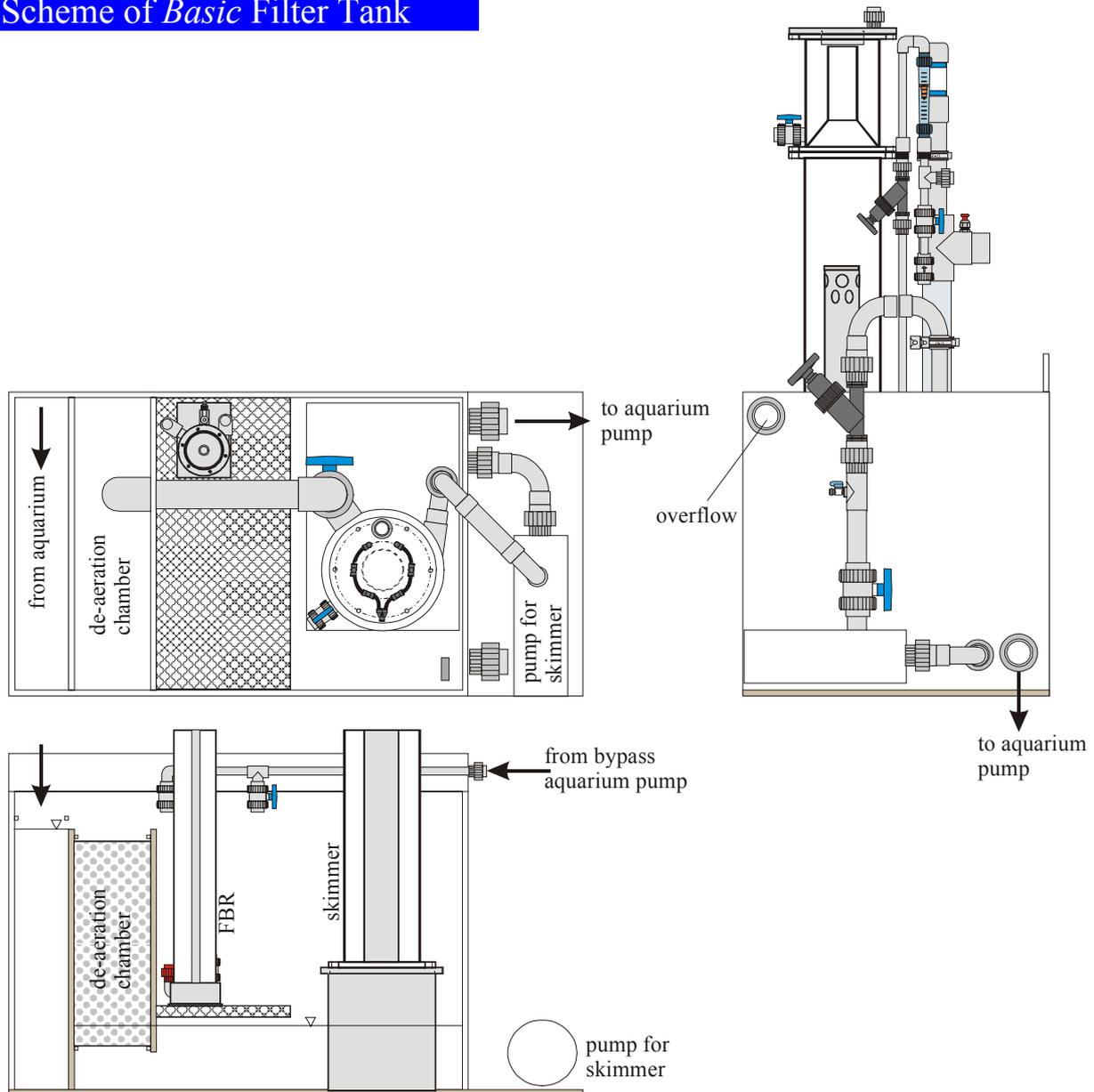
Special request

Because the filter system *Basic* is not a mass product and every tank is manufactured handcrafted every special requests are possible at any time. If dimensions, connectors, brackets for measuring equipment, heaters or level switches AquaCare will try to realize your special ideas.

Sizes

As a matter of principle AquaCare manufactures the *Basic* PE-filter systems in every size. Yet the efforts are big to manufacture the system - there is much more work to do compared to glass tanks - a *Basic* tank is only useful for aquaria starting with about 1000 liters volume. There is no upper limit for the size - at very large tanks the walls are reinforced by plastic covered steel frames to stand up the enormous forces caused by the water.

Scheme of *Basic* Filter Tank



Typical data (modification to your space and needs are possible)				
Type	<i>Basic 400</i>	<i>Basic 750</i>	<i>Basic 1300</i>	<i>Basic 2000</i>
Max. aquarium size in m ³ *	5	10	25	35
Footprint size length × wide in mm	1090 × 670	1200 × 800	1800 × 1000	1900 x 1200
Height in mm	800	800	800	1000
Total volume in liter	380	680	1300	1900
Equipment of inlet chamber	Filter fleece, holder for heater and sensors of measuring technique			
Volume of trickling filter in liter	50	75	100	150
Material of trickling filter	PP virgin, 27 × 27 mm, 180 m ² /m ³ , 72 kg/m ³ , 92% free volume			
Surplus volume of multi-purpose chamber** in liter	230	350	800	1200
Materials	PE black, PE hollow section plates, PVC, PS, glass fibre reinforced PP			

* this value is to be seen as a reference value.

** the minimum size of the surplus volume is determined by surface of aquarium, kind of overflow, the actual water flow to the aquarium and the volume of the filter technique in the multi-purpose chamber.