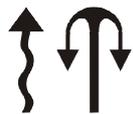


The Fluidized Bed Filter **FBF**



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- Oxidation of the organic waste materials of an aquarium
- Nitrification (detoxification of ammonia)
- easy and safe to use
- constant degradation performance
- maintenance-free (no clogging)
- with quartz sand or POC+Globuli for filtration
- with +Globuli for dosing additives



FBF 50-40 with quartz sand

FBF300-500

Fluidized bed filters (**FBF**) can be operated with **extremely fine filter material** without clogging. Even materials that stick together over time can be operated in the fluidized bed without any major maintenance effort. The constantly moving filter material ensures that old and useless bacterial films are removed and only active biofilms remain in the filter. The material no longer sticks together - bacterial layers can no longer

block the filter. This ensures a constant and extremely high degradation performance. It is important that the filter is only about 70% filled with the filter material, because the filter bed must expand during operation.

The smallest **FBF** of AquaCare consists of the universal multifunctional filter MF2. The larger filters consist of the PMMA empty filter (except FBF75, FBF250) and can be used similarly due to the exchangeable filter inserts. The larger filters (from FBF100) are operated with a deflector plate, so that the inflow is prevented from becoming overgrown with bacteria (under normal aquarium conditions). The inlet geometry is designed in such a way that when the water flows back (e.g. in the event of a power failure), the filter material is not carried along so easily and the inlet pipe is clogged. A non-return valve in the inlet can be dispensed with if the material is coarser. If AquaCare quartz sand is used, a non-return valve should be installed in the inlet.



With AquaCare+Globuli, additives such as plankton, artificial sea snow, carotenoids, amino acids, proteins and much more can be continuously dosed.



Phosphate-X-globules: safe phosphate removal



POC+Globuli: the biopellets from AquaCare

Phosphate X globules are a fast and safe method of lowering the phosphate concentration to a low level.

The POC+Globuli (Biopellets) ensure a healthy development of the bacterial population and can lower phosphate and nitrate depending on the operating mode.

Quartz sand creates an enormously large surface area which ensures sufficient bio-filtration in pure fish or breeding facilities.



Fine quartz sand provides a large bio-available surface

Technical data of the AquaCare Fluidized Bed Filter **FBF50 - FBF75:**

Size	FBF 50			FBF 75
	FBF50-40	FBF50-70	FBF50-100	375-008
Order number				
Diameter in mm	50			75
Total height in cm*	40	70	100	45
Necessary height in cm	+ 5 cm			
Useful volume in litres	0.5	1.0	1.5	1.3
Useful volume fluidized bed in litres	0.4	0.7	1.0	
Maximum aquarium size in litres, ca.				
quartz sand:	360	710	1000	900
AquaCare+Globuli:	100	200	300	240
Recommended flow in l/h				
quartz sand:	50...90			120...190
leichte +Globuli	17...25			37...55
Footprint width × depth in cm	14 × 10			19 × 14
Empty weight in kg	0.7	0.8	0.9	1.2
Erection	External, in the filter sump, with Hang-On holder to the aquarium or filter tank, with wall holders to a wall			
Materials	PMMA (Acrylic glass), NBR, silicone, PVC, PA			PVC (transparent), PVC, NBR, ABS
Connectors**	G1/4" - 8 mm			20 mm PVC Fittings, 16 mm hose nozzle
Drain valve	mounting possible			no
Basic model	MultiFunctionFilter MF ₂			PVC empty filter
Substrates	Please select the desired substrate for the AquaCare FBF			

* special heights are possible! ** others possible

Technical data of the Fluidized Bed Filter **FBF100 - FBF150:**

Size	FBF 100			FBF150		
Order number	FBF-100-50 FBF-100-70 FBF-100-100			FBF-150-50 FBF-150-70 FBF-150-100		
Diameter in mm	100			150		
Total height in cm*	50	70	100	50	70	100
Necessary height in cm	+ 5 cm					
Useful volume in litres	2.5	3.8	4.8	5.5	8.7	13.4
Useful volume fluidized bed in litres	1.7	2.6	4.0	3.9	6.1	9.4
Maximum aquarium size in litres, ca.						
quartz sand:	1700	2700	4200	3800	6000	9500
AquaCare+Globuli:	490	770	1200	1100	1700	2700
Recommended flow in l/h						
quartz sand:	210...350			510...870		
leichte +Globuli	66...100			160...240		
Footprint width × depth in cm	21 × 14					
Empty weight in kg	1.7	1.9	2.3	3,9	4.2	4,7
Erection	External, in the filter sump, with Hang-On holder to the aquarium or filter tank, with wall holders to a wall					
Materials	PMMA (Acrylic glass), NBR, silicone, PVC, PA					
Connectors**	20 mm PVC fittings, 16 mm hose nozzle			25 mm PVC fittings 25 mm hose nozzle		
Drain valve	G1/4"-6/4					
Basic model	PMMA empty filter, but with FBF screen					
Substrates	Please select the desired substrate for the AquaCare FBF					

* special heights are possible! ** others possible

Technical data of the Fluidized Bed Filter **FBF250 - FBF300:**

Size	FBF 250		FBF300		
Order number	375-025		FBF-300-500 FBF-300-1000 FBF-300-1500		
Diameter in mm	250		300		
Total height in cm*	100		50	100	150
Necessary height in cm	+5 cm				
Useful volume in litres	35		22	55	88
Useful volume fluidized bed in litres	25		15	38	62
Maximum aquarium size in litres, ca.					
quartz sand:	18		11	27	44
AquaCare+Globuli:	7		4,4	11	18
Recommended flow in l/h					
quartz sand:	1.5...2.4		2.1...3.4		
leichte +Globuli	0.3...0.7		0.7...1.0		
Footprint width × depth in cm	43 × 37		50 × 38		
Empty weight in kg	40		15	18	21
Erection	External, in the filter sump				
Materials	PVC (transparent), PVC, NBR, ABS		PMMA (Acrylic glass), NBR, silicone, PVC, PA		
Connectors**	32 mm PVC fittings		40 mm PVC fittings		
Drain valve	PVC20		1/2"-16		
Basic model	PVC empty filter		PMMA empty filter		
Substrates	Please select the desired substrate for the AquaCare FBF				

* special heights are possible! ** others possible

Our technical **FBF** units made of polyethylene are also available for high-performance systems such as aquaculture plants.

