

# Fluidized Bed Reactor

## FBR



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Fluidized Bed Reactors can be filled with extreme fine filter sand without clogging. The moving filter material ensures that old and useless bacteria films are washed out and the new highly active films retain in the filter. Therewith a constant and extreme high bio-degradation is realized.



In aquaria with many fish and less or non living rocks a fluidized bed reactor is the most effective bio-filtration system.

### The advantages of the AquaCare FBR filter:

- intensive mixing of the filter material
- micro-organisms are able to settle down at the whole surface of the filter sand
- inactive bio-films are flushed out automatically
- constant degradation capacity
- no rotting places inside of the filter
- effective hold back system for the filter sand
- easy handling
- connections with PVC tubes or hoses
- nearly maintenance-free

### Technical data of the AquaCare FBR filter:

Size	FBR 75	FBR 110-60	FBR 110-90	FBR 110-130
Order number	360-008	360-011	360-012	360-013
max. aquarium volume	900	2.500	4.000	8.000
Flow in l/h	150-200	400-500		
Diameter in mm	75	110	110	110
Suitabel pump (not scope of delivery)	UP500	UP2000	UP2000/1	
Setting up	external or in the filter sump			
Total height in cm*	45	55	85	125
Required height in cm*	47	57	87	127
Foot print size: wide × depths in mm	190 × 140	200 × 160		
Materials	PVC-U, ABS, NBR o-rings			
Connections	20 mm PVC fittings, 16 mm hose nozzle			
Drain valve	no	Eheim valve 12/16		
Total weight in kg	5	8	11	16
Filter material	sharp-edged quartz sand 0,4...0,8 mm diameter			
max. filter mass in kg	1,4	4,3	7,3	11,4
1 litre (approx. 1,6 kg) quartz sand size 0,4...0,8 mm, order number: 576-103				
16 litre (approx. 25 kg) quartz sand size 0,4...0,8 mm, order number: 576-125				

\* other heights are possible

**For large systems e.g. aqua culture plant, technical FBR filters are available, too.**