

Trickling Filter

based on
Multi-Function-Filter MF₂



AquaCare GmbH & Co. KG
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Multifunctional trickling filter

The MF₂ multifunction filter can also be used as a trickling filter. The scope of delivery consists of the original filter made of high-quality acrylic glass, 5 mm bottom sieve, stainless steel rod to pull out the bottom sieve, PE filling elements, lid with irrigation plate, aeration valve and 8 mm nozzle connections.

The MF₂ filters are available in different diameters and heights - special lengths are also possible.

And if you no longer need the MF₂ trickling filter, you can convert the filter for other applications with just a few accessories! The complete possibilities of the MF₂ filter can be found at aquacare-shop.de/MF2-EN

Technical data of the AquaCare MF₂ Trickling Filter:

Type	TKF 50		
Diameter in mm	50		
Maximum size of aquarium in litres, approx.	50	100	150
Flow in l/h*	80...170		
Lengths in cm**	40	70	100
Needle height in cm	+5		
Effective volume in litres	0.5	1.0	1.5
Footprint size in cm	14 × 10		
Total weight of filter (dry)	0.8	1.0	1.2
Erection	externally, in the filter sump, with hang-on holder on the aquarium or filter basin, with wall brackets on a wall		
Materials	PMMA (Acrylic glass), NBR, silicone, PVC		
Connectors	8 mm		

* when using AquaCare-PE-fillings, black

** special heights up to max. 2.1 m are possible



Trickling Filter

TKF



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AquaCare TKF 150-100

The trickling filter system is one of the oldest filter technology. The water is flowing over trickling material and will be enriched with oxygen or too much carbon dioxide will be stripped. If the filter material is cleverly chosen it will not block and has a constant biological activity during operation. AquaCare uses a material made of PE with a high specific surface ($500 \text{ m}^2/\text{m}^3$) and will not block under normal aquaristic conditions. The models can be additionally aerated to raise the biological activity. The AquaCare TKF is useable as an de-aeration stage after skimmers, too. The total height of the TKF must be a little bit lower than the outlet of the skimmer.

The advantages of the TKF:

- high hydraulic load
- the total surface will be settled by micro-organisms
- inactive bio-films are flushed out automatically
- constant biological activity
- simple handling
- for PVC tubing and hoses
- nearly free of maintenance

Technical data of the AquaCare TKF70 ... TKF100:

Size	TKF 70			TKF100		
Order number	TKF70-45	TKF70-70	TKF70-100	TKF100-50	TKF100-70	TKF100-100
max. aquarium size, approx.	100	120	270	245	380	580
max. water flow in l/h	150...300			330...660		
Diameter in mm	70			100		
Assembly	External or in the filter sump, hang-on, hang-in, with wall brackets					
Total height in cm*	45	70	100	50	70	100
Necessary space in cm	+ 5 cm					
Foot print size in mm	180 × 140			210 × 150		
Materials	PMMA, PVC, ABS, NBR o-rings					
Connectors	20 mm PVC-Fittings, 12 mm nozzle			20 mm PVC-Fittings, 16 mm nozzle		
Drain valve	no (can be retrofitted)			Valve for 6/4 hose		
Forced aeration possible	yes					
Total weight in kg	1,4	1,7	2,0	1,9	3,9	5,0
Substrate (filter material)	PE material d16×20mm, black					

* special heights are possible!

Technical data of the AquaCare TKF150 ... TKF250:

Size	TKF150			TKF250
Order number	TKF150-50	TKF150-70	TKF150-100	361-250
max. aquarium size, approx.	550	870	1300	3500
max. water flow in l/h	790...1600			2300...4500
Diameter in mm	150			250
Assembly	External, filter sump, hang-on, hang-in, with wall brackets			External or in the filter sump
Total height in cm*	50	70	100	185
Necessary space in cm	+ 5			
Foot print size in mm	190 × 140			430 × 370
Materials	PMMA, PVCu, NBR o-rings			
Connectors	25 mm PVC fittings, 25 mm nozzles			32 mm PVC fittings, 32 mm nozzles
Drain valve	valve for 6/4 hose			PVC d20
Forced aeration possible	ja			
Total weight in kg	3.9	4.3	4.7	70
Substrate (filter material)	PE material d16×20mm, black			

* special heights are possible!

Technical data of the AquaCare TKF300 ... TKF400:

Size	TKF300			TKF400		
Order number	TKF300-50	TKF300-100	TKF300-150	TKF400-50	TKF400-100	TKF400-150
max. aquarium size, approx.	1.9	5,2	8,5	2,5	5,5	15,5
max. water flow in l/h	3,3...6,6			6...12		
Diameter in mm	300			400		
Assembly	External or in the filter sump					
Total height in cm*	50	100	150	50	100	150
Necessary space in cm	+ 5					
Foot print size in mm	515 × 400			800 × 500		
Materials	PMMA, PVCu, silicone o-rings					
Connectors	40/50 mm PVC fittings			63/75 mm PVC fittings		
Drain valve	Valve for 16 mm hose					
Forced aeration possible	ja					
Total weight in kg	25	31	37			
Substrate (filter material)	PE material d16×20mm, black					

* special heights are possible!

For high efficiency systems e.g. aqua culture units, we can deliver TKF systems in technical size, too.

