

# Trickling Filter

## TKF



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

The trickling filter is one of the oldest filter techniques. The water is rinsing over the trickling material and is enriched with oxygen. Too much carbon dioxide is outgased.

The TKF filter is made for different materials – depending on the customer's wish: more surface or better long life without maintenance.

The sizes with 400 mm diameter or larger are made of black PE. At the upper end a water dispersing system and at the bottom a grid are installed. Size, kind and position of the connectors are custom made.



AquaCare trickling filter TKF 500 and TKF 2000

At very large models (more than about 2000 mm) it makes sense to install flanges to simplify transport and maintenance. – For cold water systems insulated systems are possible.

### The **TKF** has following advantages:

- high hydraulic loads
- the total surface will be settled by micro-organisms
- inactive bio-films are flushed out
- constant biological activity
- simple operation
- nearly maintenance-free

Standard values for the maximum flow and maximum aquarium size (at about 1 kg per m<sup>3</sup> animal mass) depending on the diameter:

d400	d500	d600	d800	d1000	d1500	d2000
13 m <sup>3</sup> /h	20 m <sup>3</sup> /h	30 m <sup>3</sup> /h	54 m <sup>3</sup> /h	70 m <sup>3</sup> /h	170 m <sup>3</sup> /h	320 m <sup>3</sup> /h
22 m <sup>3</sup>	34 m <sup>3</sup>	46 m <sup>3</sup>	86 m <sup>3</sup>	110 m <sup>3</sup>	270 m <sup>3</sup>	500 m <sup>3</sup>

For smaller tanks please look at the hobby size units.

Standard trickling material of AquaCare:



PP body: 80 m<sup>2</sup>/m<sup>3</sup>  
free volume: 92%  
suitable of extrem high filters (> 2 m)  
extreme low blocking



PE body: 500 m<sup>2</sup>/m<sup>3</sup>  
free volume: 90%  
suitable for normal heights (< 2 m)  
low blocking