

Description:

Rainwater filter for installation in the ground before the tank.

Equipped with a self-sliding plastic shaft extension thus allowing an easy adaptation to the height proportions at the moment of the installation on site. If necessary, the telescopic extension can also be shortened. It is also possible to use more than one.

Because of its two step cleaning system the filter has a high efficiency independent of the flow rate.

Due to the steep inclination of the filter cartridge the dirt is continuously cleaned away into the sewer.

Connection capacity according to DIN 1986: for roof areas up to 387 m²

Height difference between inlet and outlet: 300 mm

The cleaned water can be used in washing machines, toilet flushing and garden watering

The filter has to be cleaned depending on the contamination 1 - 2 times during the year



How it works:

1. As water arrives the level builds up and the water is equally distributed across the cascades = principle of overflow
2. Pre-cleaning through the cascades, coarse dirt particles are led across the primary filter cascades directly to the sewer
3. Pre filtered water then flows over the secondary filter sieve (mesh size 0,65 mm) Due to the special mesh structure of the sieve, any dirt washes directly into the sewer which means the filter is self cleaning, with very low maintenance

4. Cleaned water flows to the tank
5. Dirt goes to the sewer



Technical Data:

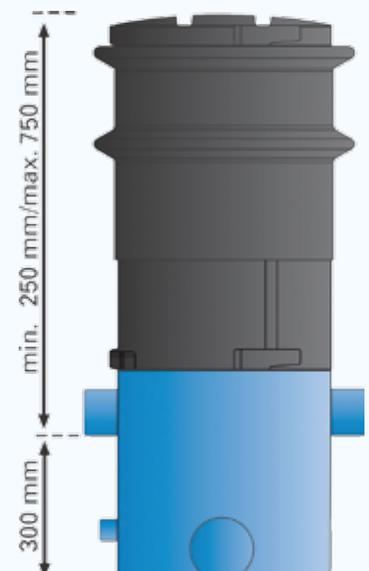
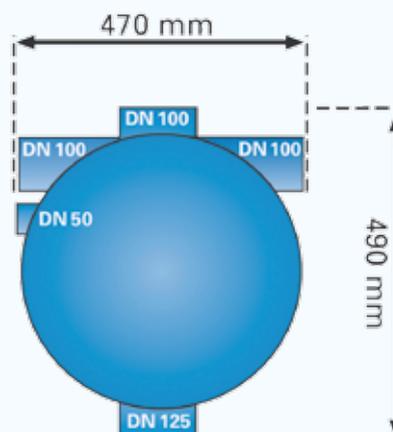
Filter according to DIN 1989-2, Typ C

Connection inlet: 2 x DN 100
Outlet into tank: DN 100
Outlet into sewer: DN 125

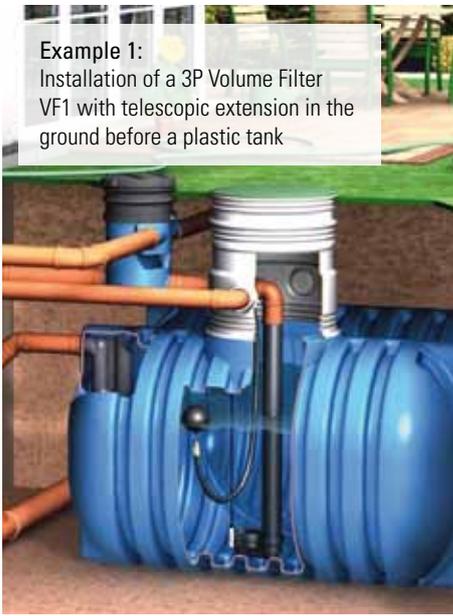
Height difference between rainwater inlet and outlet: 300 mm

Housing material: Polyethylene
Filter cartridge: Stainless steel 1.4301
Mesh size: 0,65 mm
Material cascade insert: Polyethylene
Material telescopic extension: Polyethylene

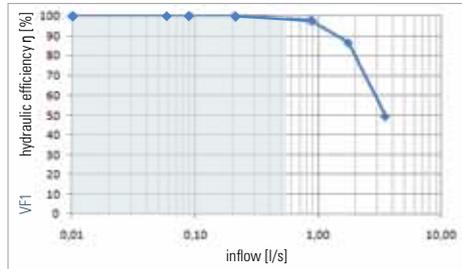
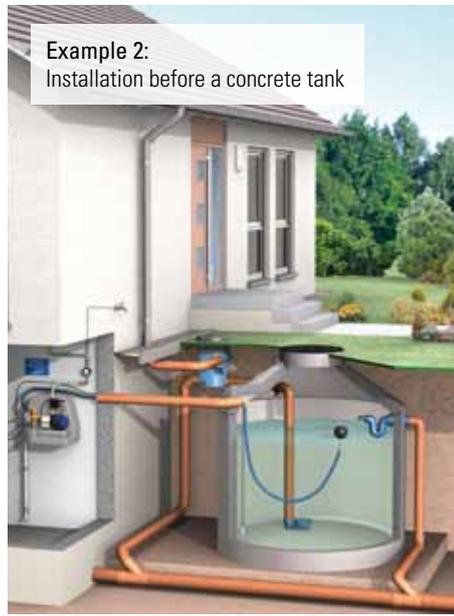
Weight: 10,2 kg



Example 1:
Installation of a 3P Volume Filter VF1 with telescopic extension in the ground before a plastic tank



Example 2:
Installation before a concrete tank



Source: Prof. Dr.-Ing. Mathias Uhl Muenster University of Applied Sciences

80% of the average intensity of rainfall in Germany is under 15 l/(s·ha), resulting a volume flow rate of 0,58 l/s with a roof area of 387 m².

Diameter of tube	maximum flow rate	connectable area max. 200 l/(s·ha)	connectable area max. 300 l/(s·ha)
DN	l/s	m²	m²
125	11,6	580	387

Text for invitation of tenders:

Pos.	Quantity	Article	Price in €
1.1	_____	3P Volume Filter VF1 Filter for installation in cisterns, pre-shafts or directly in the ground Inlet rainwater: 2 x DN 100, Outlet into storage: DN 100, Outlet into sewer: DN 125 Height difference between inlet and outlet: 300 mm Connection capacity according to DIN 1986: for roof areas up to 387 m²	_____
1.2	_____	3P Telescopic extension for 3P Volume Filter VF1 Plastic (PE) shaft for the installation of 3P Volume Filter VF1 Telescopic extension can be directly connected with the 3P Volume Filter VF1 with a bayonet fitting	_____
1.3	_____	3P Removal handle for 3P Volume Filter VF1 For filter removal in deeper installations	_____

Accessory 1:

3P Telescopic extension Art.-Nr. 1000560
Plastic shaft for the installation directly in the ground



Accessory 2:

3P Removal handle Art.-Nr. 1000550
For removal of the filter insert of the VF1 in deeper installations



Packing unit 3P Volume Filter VF1 with 3P Telescopic extension:
Pallet: 12 pieces