

## Description:

Rainwater filter for installation in rainwater tanks and also in the ground before the tank. Two step cleaning system, therefore high level of filtering efficiency, independent of flow rate.

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

The filter insert can be removed easily for cleaning without the use of special tools. The filter sieve made of stainless steel must not be changed. It is cleaned with a brush and soap sud.

Connection capacity according to DIN 1986: for roof areas up to 387 m<sup>2</sup> at a rainfall intensity of 300 l/(sxha)

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 is equally distributed across the cascade
2. Pre cleaning through the cascades, coarse dirt is 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 storage
5. Dirt goes to the sewer



## Technische Daten:

Filter according to DIN 1989-2, Typ C

Inlet rainwater: 2 x DN 100

Outlet to storage: DN 100

Outlet to sewer: DN 125

Height difference between rainwater inlet and outlet: 300 mm

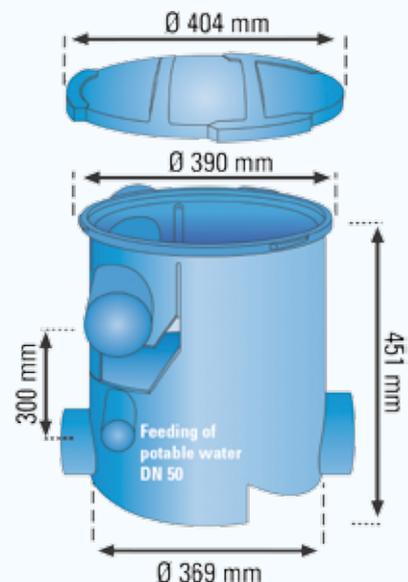
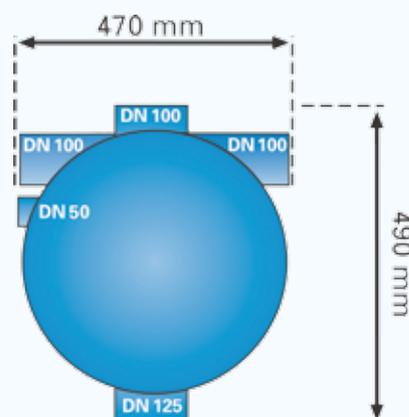
Housing material: Polyethylene

Material filter cartridge: Stainless steel 1.4301

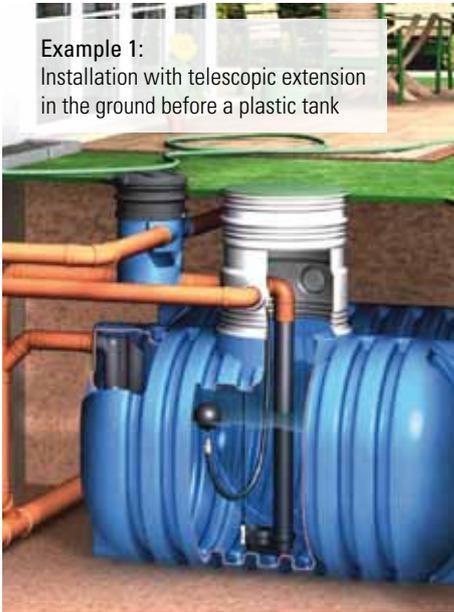
Mesh size: 0,65 mm

Material cascade insert: Polyethylene

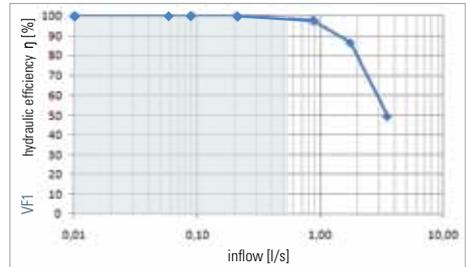
Weight: 6,2 kg



**Example 1:**  
Installation 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/(sxha), resulting a volume flow rate of 0,58 l/s with a roof area of 387 m<sup>2</sup>.

Diameter of tube	maximum flow rate	connectable area max. 200 l/(sxha)	connectable area max. 300 l/(sxha)
DN	l/s	m <sup>2</sup>	m <sup>2</sup>
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 tanks, pilot shafts or directly in the ground before the tank Inlet rainwater: 2 x DN 100, Outlet to storage: DN 100, Outlet to sewer: DN 125 Height difference between inlet and outlet: 300 mm Connection capacity according to DIN 1986: for roof areas up to 387 m <sup>2</sup> at a rainfall intensity of 300 l/(sxha)	_____
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 removal of the filter insert of the Volume Filter VF1 in deeper installations	_____

**Accessory 1:**

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



**Accessory 2:**

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



**Packing unit 3P Volume Filter VF1:**

m<sup>3</sup>-Carton: 8 pieces  
Pallet: 24 pieces