

Art.-Nr. 1000800

## Description:

Rainwater filter for bigger roof areas. The 3P Volume Filter has to be installed in a pilot shaft (Ø 47"). Normally standard concrete shafts are used. The filter can be delivered to the site yet pre-assembled in the shaft.

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 connection to the sewer is installed at the shaft. The dirt falls down on the bottom of the shaft and is washed away with the next strong rainfall. Relative connection capacity according to DIN 1986: for roof areas up to 14,499 ft<sup>2</sup> at a rainfall intensity of 4 inch/hour

Because of a Bypass-Installation a bigger area can be connected.

Inlet rainwater: 2 x 8"

Outlet to storage: 6"

Outlet to sewer: 8"

Height difference between inlet and outlet: 12.6"

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



#### How it works:

- The incoming rainwater is backed up in the collection pan and is then equally distributed across the cascades = principle of overflow
- 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 0,4 x 1 mm), due to the special mesh structure and the steep situation of the sieve, any dirt falls directly down onto the bottom of the shaft, in case of heavy rainfalls, the filter has more loss, as the water washes away the filtered dirt into the sewer
- 4. The cleaned water is being absorbed in the lower collection pan and directed through a tube 6" into the storage
- 5. Dirt goes to the sewer through the shaft

The 3P Volume Filter VF3 has only one unit of fins! On the opposite a baffle is mounted



# Technical Data:

Filter according to DIN 1989-2, Typ C

Inlet rainwater: 2 x 8"

Outlet to storage: 6"

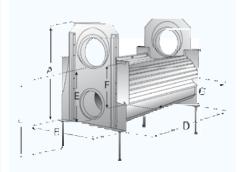
Outlet to sewer: 8"

Height difference between inlet and outlet: 12.6"

Material Filter corpus: Stainless steel 4016 Material Filter sieve: Stainless steel 1.4301 Mesh size: 0,4 x 1 mm

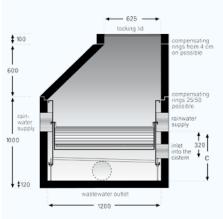
Legs = Thread rods M10 with screw nut made of stainless steel, Length 10"

Weight: 33,2 kg



A 26.4" B 21.3" C 22.8" D 38.6" E 12.6" F 10.8"

G 34.6"

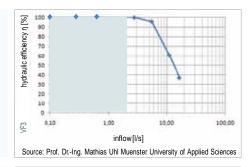


## Example 1:

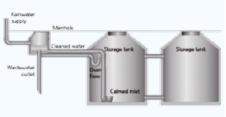
Installation of the filter in a pilot shaft

## Example 2:

Installation of the filter in front of several concrete tanks which are situated in a row







80% of the average intensity of rainfall in Germany is under  $15\,l/(sxha)$ , resulting a volume flow rate of  $2,02\,l/s$  with a roof area of  $1347\,m^2$ .

	Diameter of tube	maximum flow rate	connectable area max. 2.84 inch/hr	connectable area max. 4 inch/hr
	Inches	gal/s	ft²	ft²
	8	10.7	21,743	14,499

### Text for invitation of tenders:

Pos. Quantity Article Price in €

1.1 3P Volumenfilter VF3

Filter for the installation in a pilot shaft (Ø 1200 mm) Inlet rainwater: 2 x DN 200, Outlet to storage: DN 150 Height difference between inlet and outlet: 320 mm

Filter inserts with integrated filter sieve: 0,4 x 1 mm, Material: stainless steel

Connection capacity according to DIN 1986: for roof areas up to 1347 m² at a rainfall intensity of 300 l/(sxha)

1.2 \_\_\_\_\_Concrete shaft for 3P Volume Filter VF3

including installation of the Volume Filter VF3

Inner diameter 1200 mm, Height 75 cm, Conus Ø 100/60-60 h with Goebel lid resilient up to 5 t

 $Shaft has to be \ equipped \ with 3\ KG-bushings \ and \ For shed a \ Seals$ 

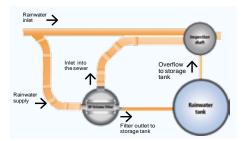
Inlet rainwater: 2 x DN 200, Outlet to storage: DN 150, Outlet to sewer: DN 200
The bottom of the shaft should have a diagonal decline (5 cm) to the channel interface

# Optimal installation:

If the size of the roof or the diameters of the tubes should vary from the specifications / requirements, you can make an installation according to the DIN as demonstrated below.

# Advice:

On demand the filter can be equipped with only one inlet. Please indicate in order. The hole then will be closed with a blind.



Packing unit 3P Volume Filter VF3: Pallet: 3 pieces