

Description:

Rainwater filter for bigger roof areas. The 3P Volume Filter has to be installed in a pilot shaft (Ø 1200 mm). 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 1347 m² at a rainfall intensity of 300 l/(sxha)

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

Inlet rainwater: 2 x DN 250
 Outlet to storage: DN 200
 Outlet to sewer: DN 250

Maximum flow rate of filter sieve: up to 13 l/sec = 46,8 m³ clean water per hour depending on the new construction.

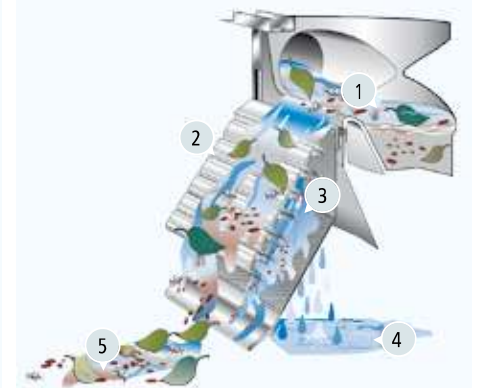
Blinding plates are included
 Height difference between inlet and outlet: 300 mm, measured mid of the tube

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



How it works:

1. The incoming rainwater is backed up in the collection pan and is then 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 0,4 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 DN 200 into the storage
5. Dirt goes to the sewer through the shaft



Technical Data:

Filter according to DIN 1989-2, Typ C

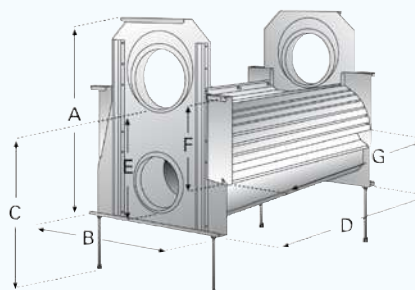
Inlet rainwater: 2 x DN 250
 Outlet to storage: DN 200
 Outlet to sewer: DN 250

Height difference between inlet and outlet: 300 mm, mid of tube

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 250 mm

Weight: 39,5 kg



A 670 mm
 B 680 mm
 C 575 mm
 D 980 mm
 E 320 mm
 F 275 mm
 G 880 mm

