Waterflow Control

WFC-FS-VFTWIN-FF

Twin First Flush Diverter

Contact Us:

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37 / 317-321 Woodpark Rd, Smithfield NSW 2164

Description

- WFC Twin Filter Rainwater filter for bigger roof areas. The Twin Filter can be installed in a pilot shaft or in frost-protected regions directly on the wall. Normally standard concrete shafts are used (Ø 1000 mm). The filter can be delivered to the site pre-installed 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 cleaned water is collected in a tank and directed into the storage.
- Connection capacity for roof areas: up to 1254 m^2 at 2 x DN 150
- Because of a Bypass-Installation a bigger area can be connected.
- Inlet rainwater: 2 x DN 100 / DN 150
- Inlet storage: 2 x DN 100 / DN 150
- Outlet to sewer: 2 x DN 100 / DN 150
- 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 cascades.
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 and the steep inclination of the sieve, any dirt washes directly into the sewer.
4. The cleaned water is being absorbed in the middle tank and directed through one or the two connections into the storage.
5. Dirt goes to the sewer through the shaft.

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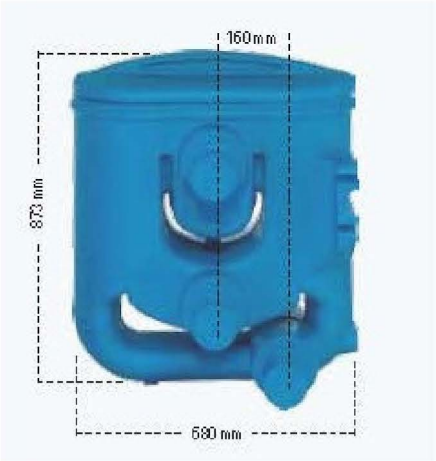
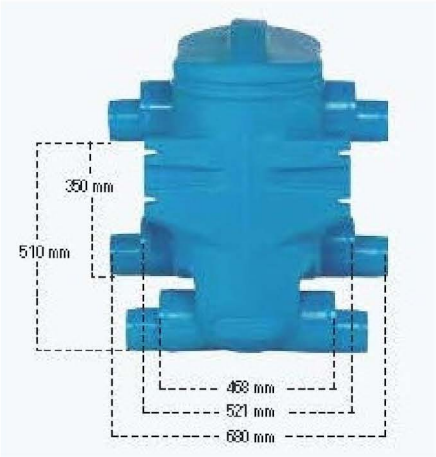
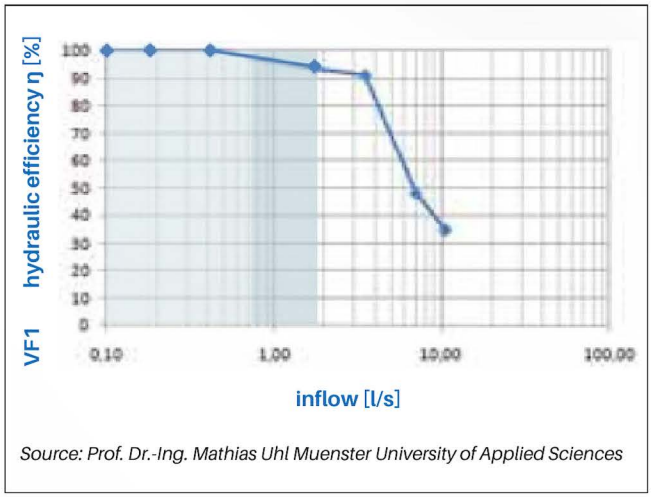
Technical Data

Inlet rainwater:	2 x DN 100 / DN 150
Inlet storage:	2 x DN 100 / DN 150
Outlet to sewer:	2 x DN 100 / DN 150
Height difference between inlet and a. outlet to the storage:	350mm
Height difference between inlet and b. outlet to the sewer:	510mm
Housing and cascade material:	Polyethylene
Material filter sieve:	Stainless steel 1.4301
Mesh size:	0,65 mm
Weight:	16 kg





Example: 3P Twin Filter installed in a concrete shaft



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

DN 100: 80% of the average intensity of rainfall in Germany is under 15 l/(sxha), resulting a volume flow rate of 0,64 l/s with a roof area of 426 m².

DN 150: 80% of the average intensity of rainfall in Germany is under 15 l/(sxha), resulting a volume flow rate of 1,88 l/s with a roof area of 1254 m².

Diameter of tube	Maximum flow rate	Connectable area max. 200 l/(sxha)	Connectable area max. 300 l/(sxha)
DN	l/s	m²	m²
100 x 2	12.8	640	426
150 x 2	37.6	1880	1254

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