3P Technik Filtersysteme GmbH

Industrial Filters

3P Volume Filter VF2

Item No. 1000700

Rainwater filter for bigger roof areas.
The 3P Volume Filter has to be installed in a shaft (Ø 1000 mm). Normally standard concrete shafts are used. The filter can be delivered to the site pre-assembled in the shaft.

Two step cleaning system, therefore high level of filtering efficiency, independent of flow rate.

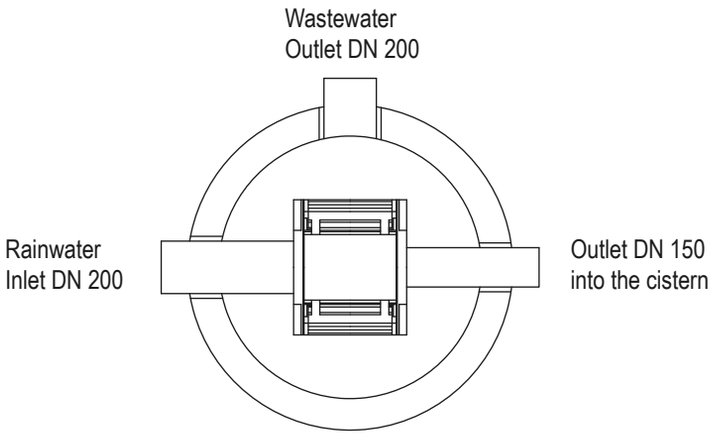
Due to the steep inclination of the filter cartridge the dirt is continuously washed away into the sewer. The connection to the sewer is installed at the shaft. The dirt falls down on the bottom of the shaft and is washed away with the next strong rainfall.

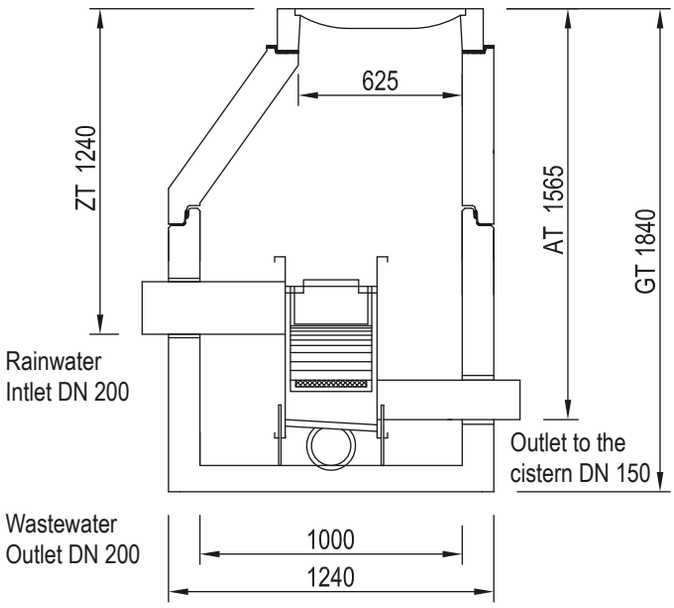
Relative connection capacity according to DIN 1986: for roof areas up to 1347 m² at a rainfall intensity of 300 l/(sxha)
Because of a Bypass-Installation a bigger area can be connected.
Maximum flow rate of filter sieve:
3.0 l/sec = 10.8 m³ clean water per hour.
Rainwater inlet: DN 200
Outlet to storage: DN 150
Outlet to sewer: DN 200
Height difference between inlet and outlet: 320 mm
The filter has to be cleaned depending on the dirt 1 - 2 times during the year
Mesh size: 0,390 x 0,980 mm
Weight: 24.2 kg

3P Special Set VF2 Item No. 1000710

- 3P Volume Filter VF2
- 3P Overflow Siphon DN 150
- 3P Calmed Inlet DN 150

Retention Regulator 2"
Item No. 4000325





3P Volume Filter VF3

Item No. 1000800

Rainwater filter for bigger roof areas.
The 3P Volume Filter has to be installed in a shaft (Ø 1200 mm). Normally standard concrete shafts are used. The filter can be delivered to the site pre-assembled in the shaft.

Two step cleaning system, therefore high level of filtering efficiency, independent of flow rate.

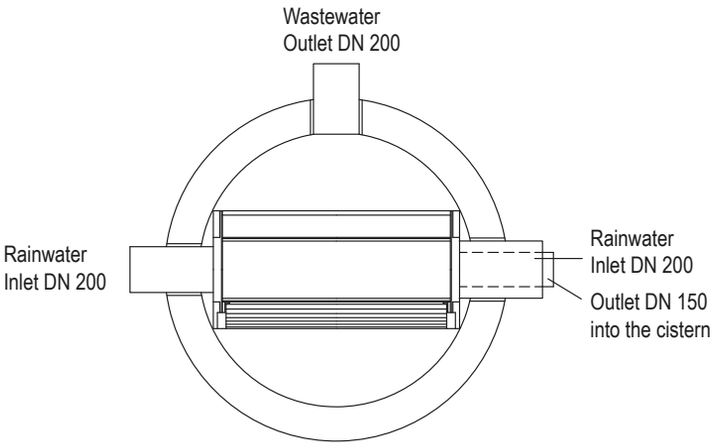
Due to the steep inclination of the filter cartridge the dirt is continuously washed away into the sewer. The connection to the sewer is installed at the shaft. The dirt falls down on the bottom of the shaft and is washed away with the next strong rainfall.

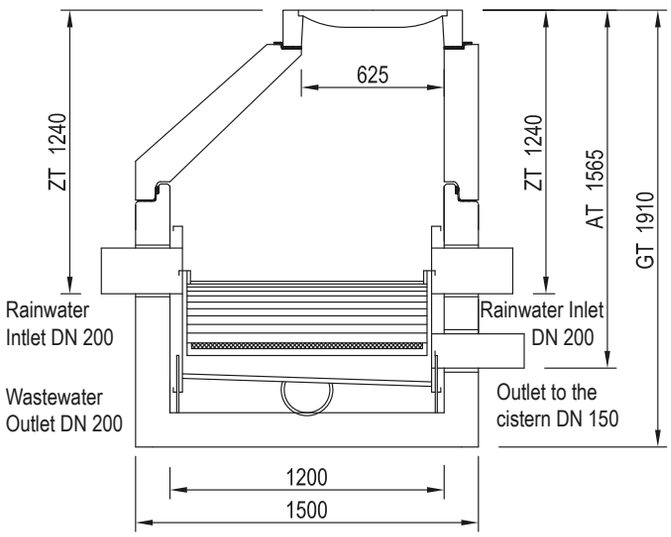
Relative connection capacity according to DIN 1986: for roof areas up to 1347 m²
at a rainfall intensity of 300 l/(sxha)
Because of a Bypass-Installation a bigger area can be connected.
Maximum flow rate of filter sieve:
4.5 l/sec = 16,2 m³ clean water per hour.
Rainwater inlet: 2 x DN 200
Outlet to storage: DN 150
Outlet to sewer: DN 200
Height difference between inlet and outlet: 320 mm
The filter has to be cleaned depending on the dirt 1 - 2 times during the year
Mesh size: 0.390 x 0.980 mm
Gewicht: 33.2 kg

3P Special Set VF3 Item No.1000820

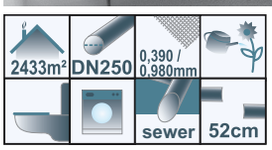
- 3P Volume Filter VF3
- 3P Overflow Siphon DN 150
- 3P Calmed Inlet DN 150

Retention Regulator 2"
Item No. 4000325





3P Volume Filter VF6



Item No. 1000900

Rainwater filter for bigger roof areas.
The 3P Volume Filter has to be installed in a shaft (Ø 1200 mm). Normally standard concrete shafts are used. The filter can be delivered to the site 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 washed 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.

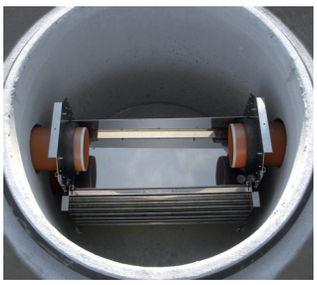
Relative connection capacity according to DIN 1986: for roof areas up to 1347 m² at a rainfall intensity of 300 l/(sxha)

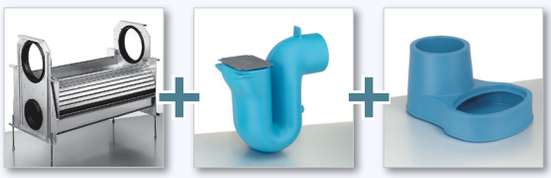
Because of a Bypass-Installation a bigger area can be connected.

Filter according to DIN 1989-2, Typ C
Maximum flow rate of filter sieve:
9 l/sec = 32,4 m³ clean water per hour.
Rainwater inlet: 2 x DN 250
Outlet to storage: DN 200
Outlet to sewer: DN 250
Blinding plates are included
Height difference between inlet and outlet: 320 mm, measured mid of the tube

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

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

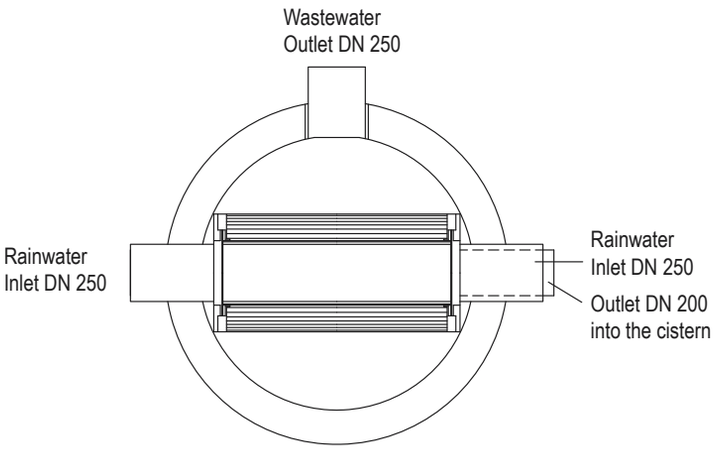


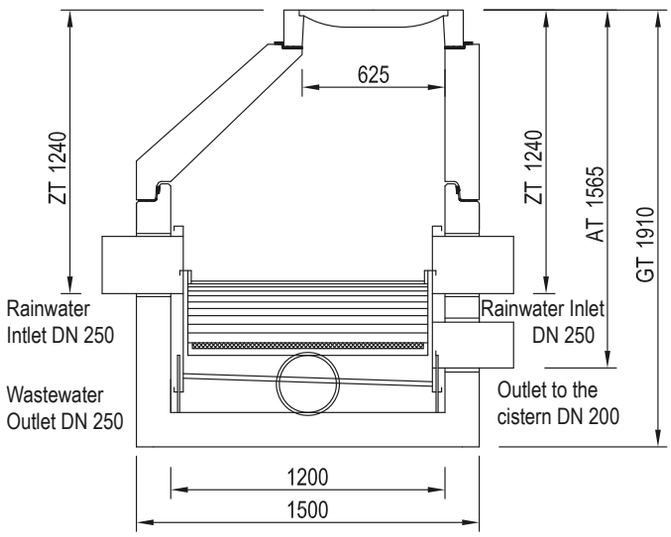


3P Special Set VF6 Item No. 1000960

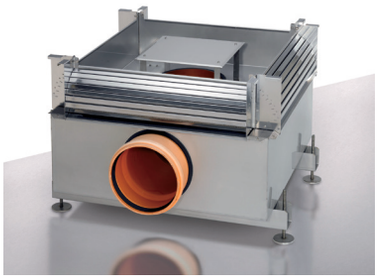
- 3P Volume Filter VF6
- 3P Overflow Siphon DN 200
- 3P Calmed Inlet DN 200

Retention Regulator 2"
Item No. 4000325





3P Volume Filter VF12



Item No. 1000950

Rainwater filter for larger roof areas. Filter for installation in concrete ring or other structural chamber (Ø 2000 or Ø 2500 mm). The filter can be delivered directly to site, or pre-fitted off-site.

The proven 3P two-step Volume Filter cleaning system gives a high level of filtering efficiency, independent of flow rate. Due to the steep inclination of the two step filter cartridge, the filtered out debris is continuously washed away to sewer. The sewer outlet is installed within the chamber wall. The filtered out material falls to the base of the chamber and is washed away during the next intense rainfall event.

Connection capacity according to DIN 18481:
3933 m² roof area at rainfall intensity of 300 l/(sxha).
A larger area can be connected using a bypass-installation.

Maximum flow rate of filter sieve:
18 l/sec = 64.8 m³ clean water per hour.

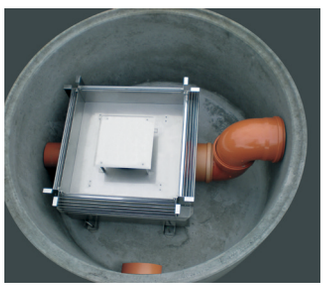
Height difference between inlet and outlet: 600 mm, DN 300 KG elbows are supplied for mounting in concrete ring.

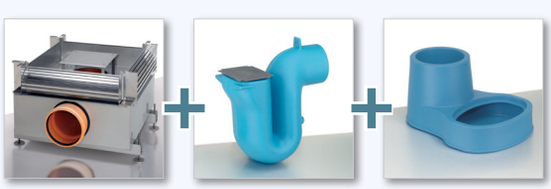
The filter should be cleaned depending on the dirt loading 1 - 2 times during the year.

Filter according to DIN 1989-2, Typ C

Rainwater inlet:	DN 300
Outlet to storage:	DN 250
Outlet to sewer:	DN 300

Filter body material: stainless steel 4016
Mesh filter material: stainless steel 1.4301
Mesh size: 0.390 x 0.980 mm
Dimensions: 1200 x 1300 x 800 mm
(Dimension: C = 780 + foot adjustment 200 mm)
Weight: 39.5 kg

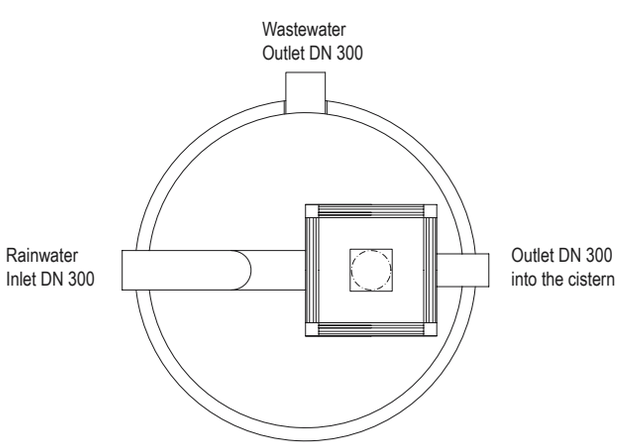


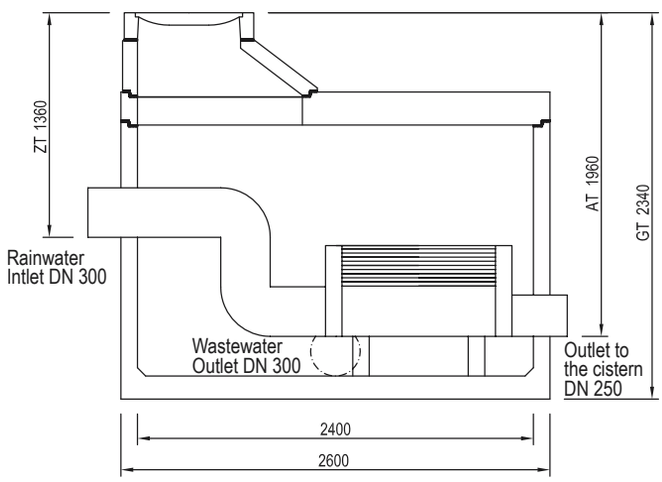


3P Special Set VF12 Item No. 1000970

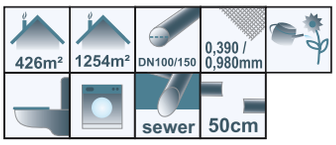
- 3P Volume Filter VF12
- 3P Overflow Siphon DN 250
- 3P Calmed Inlet DN 250

Retention Regulator 3"
Item No. 4000330





3P Twin Filter



Item No. 1000650

3P Rainwater filter for bigger roof areas.
The Twin Filter can be installed in a shaft or in frost-free 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: 426 m² roof area at
2x DN 100 and 2x outlet DN 200
Connection capacity: 1254 m² roof area at
2x DN 150 and 2x outlet DN 150

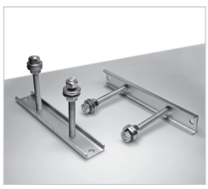
Because of a Bypass-Installation a bigger area can be connected.

Max. flow rate of filter insert:
3.0 l/sec = 10,8 m³ clean water her hour
The filter has to be cleaned depending on the dirt 1 – 2 times during the year.

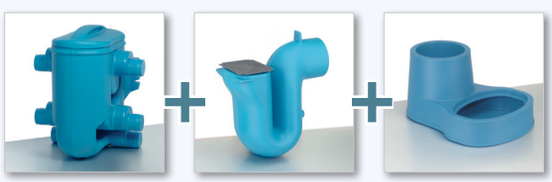
Filter according to DIN 1989-2, Typ C
Rainwater inlet: 2 x DN 100/ DN 150
Outlet to storage: 2 x DN 100/ DN 150
Outlet to sewer: 2 x DN 100/ DN 150
Height difference between inlet and outlet
into the storage: 350 mm
into the sewer: 510 mm

Housing and cascade material: Polyethylene
Material filter cartridge: Stainless steel 1.4301

Mesh size: 0.390 x 0.980 mm
Dimensions: 680 x 873 mm



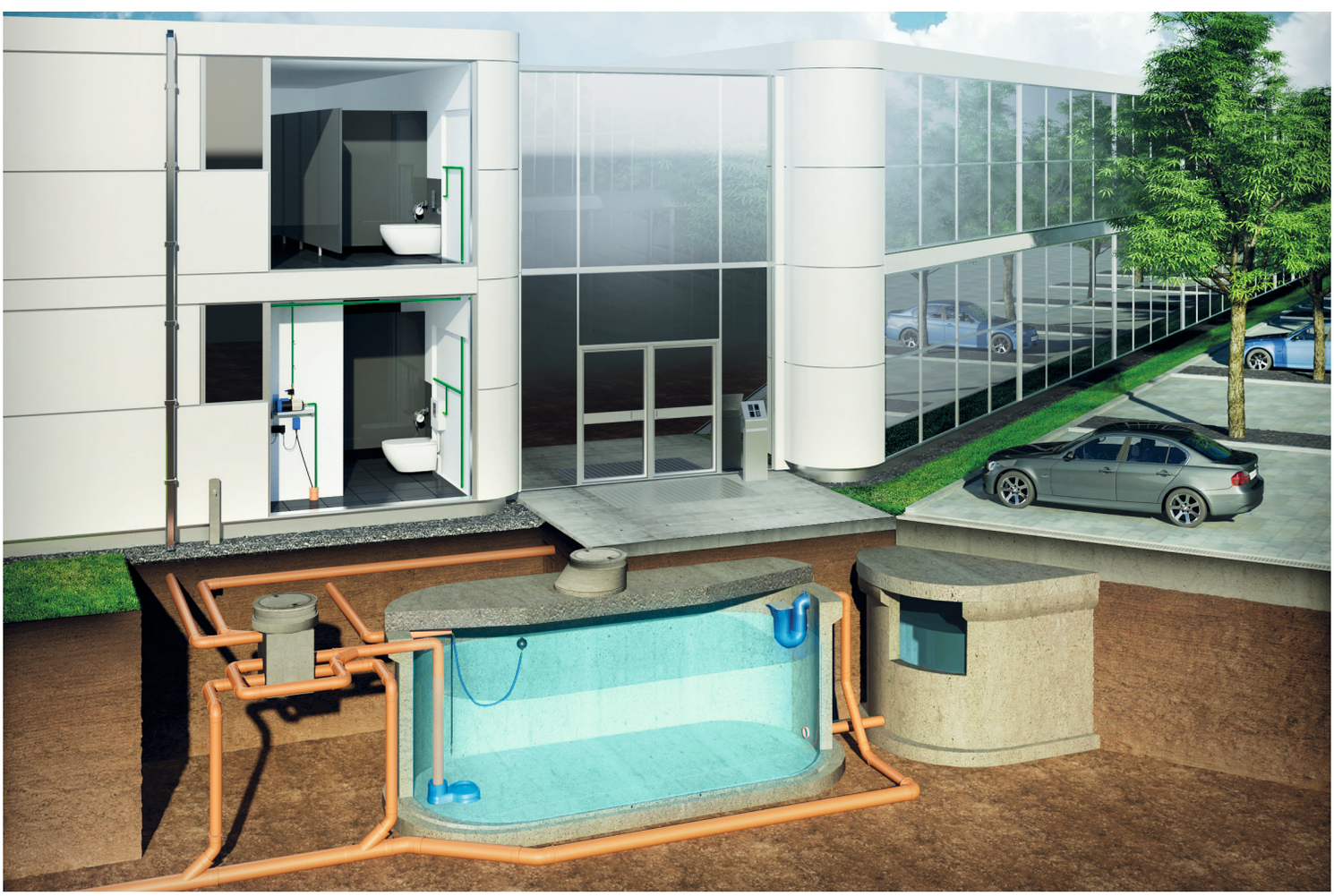
Wall bracket for Twinfilter for installation on the wall
Item No. 1000655



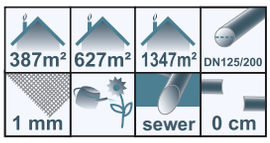
3P Special Set TF Item No. 1000660

- 3P Twin Filter
- 3P Overflow Siphon DN 150
- 3P Calmed Inlet DN 150

Retention Regulator 2"
Item No. 4000325



3P Garden Filter XL



Item No. 1000680

Easy rainwater filter with integrated dirt retention basket for installation into rainwater tanks.

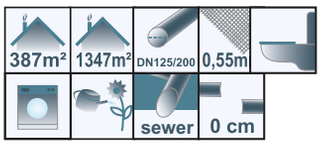
The dirt basket made of plastics can be removed easily with the removal handle.
The 3P Garden Filter XL is suitable for equipments which are used only for watering the garden.

The two upper adapters DN 125 / DN 200 can be used as inlets or also optionally as an emergency overflow.

The lower or lateral adapter is used as inlet to the rainwater tank. There you can also install a calmed inlet.

Connections: DN 125 / DN 200
Connection capacity:
for roof areas up to 387 m² / 1347 m²
The cleaned water can be used for garden watering.
The filter has to be cleaned depending on the contamination several times during the year.
Material filter basket: Polyethylene
Ø 410 x 275 mm
Mesh size: 1 mm
Diameter: 785 mm, Height: 815 mm

3P Attenuation and Infiltration Filter XL



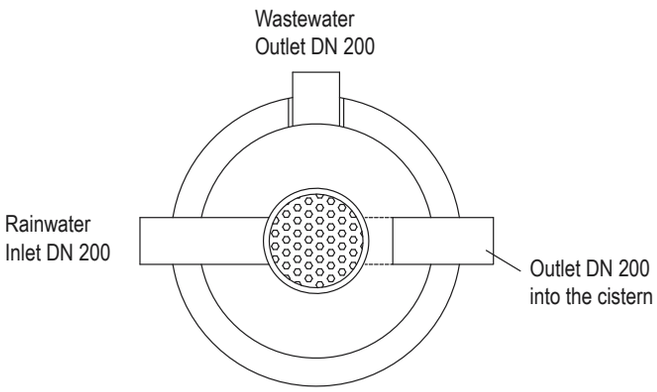
Item No. 1000685

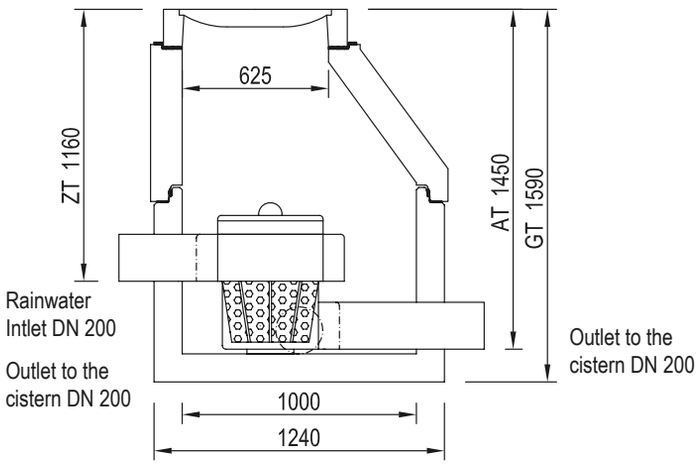
Easy rainwater filter with integrated dirt retention basket for installation into rainwater tanks.
The dirt basket made of plastics can be removed easily with the removal handle.
The 3P Garden Filter XL is suitable for equipments which are used only for watering the garden.

The two upper adapters DN 125 / DN 200 can be used as inlets or also optionally as an emergency overflow.

The lower or lateral adapter is used as inlet to the rainwater tank. There you can also install a calmed inlet.

Connections: DN 125 / DN 200
Connection capacity: for roof areas up to 387 m² / 1347 m²
The cleaned water can be used for toilet flushing, washing machine and for garden watering.
The filter has to be cleaned depending on the contamination several times during the year.
Material filter basket:
Stainless steel
Ø 410 x 275 mm
Mesh size: 0.55 mm
Diameter: 785 mm, Height: 815 mm



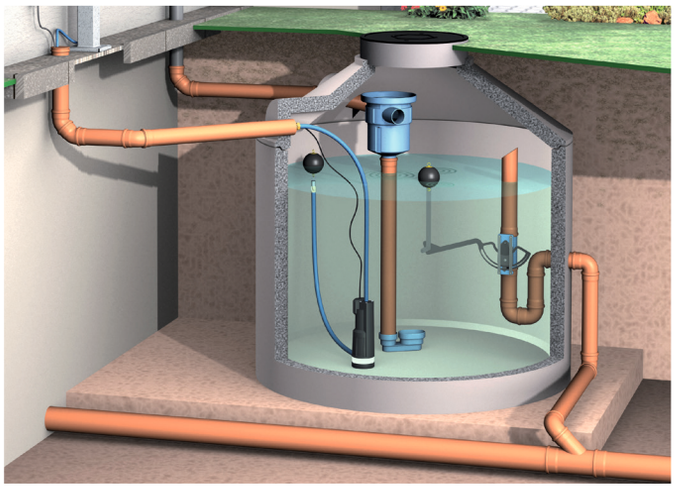


3P Flow Regulator

Item No. 4000800

Takes care of a regular and defined discharge which adopts to the water level; the amount of regulation is adjustable; the opening of the regulator cannot be blocked and is therefore low-maintenance.

Blue retention corpus: DN 100
Dimensions: 390 x 515 mm
Material: Polyethylene
Material sickle-type blind:
Stainless steel of different composition
Material floating ball: Polyethylene
Material brushes: PVC and Polyethylene
Weight: 2.3 kg



Flow rate in litre per second:

Blind	A	B	C	D	E
Q l/sec	0,60	0,50	0,40	0,30	0,20

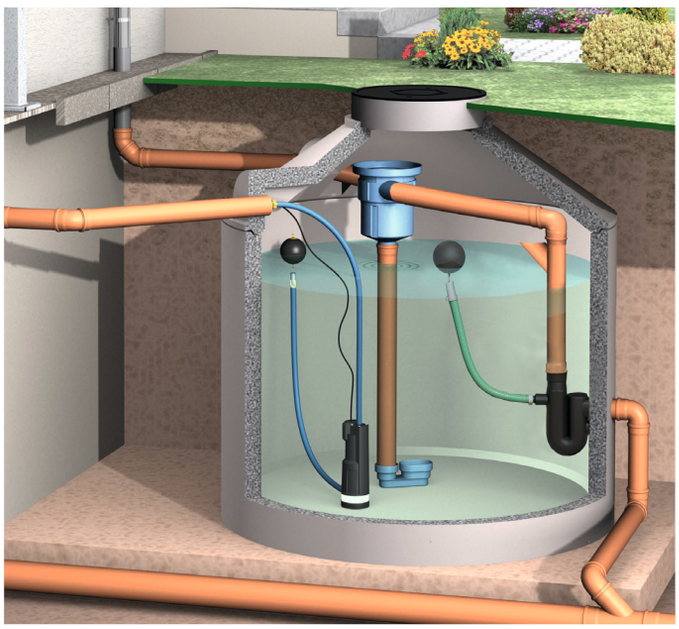
3P Flow Regulator 1" / 2" / 3"

Takes care of a regular and defined discharge.
Advantage: Retention Regulator and Overflow Siphon in one part, that adops to the water level.

Item No. 4000320
Hose: 1"
Dimension:
600 x 130 x 850 mm
Material Polyethylen
Proofed at the FH Münster
Flow rate in litre per second:
0,07 l/s bis 0,50 l/s

Item No. 4000325
Hose: 2"
Dimension:
600 x 130 x 850 mm
Material Polyethylen
Proofed at the FH Münster
Flow rate in litre per second:
0,66 l/s bis 1,64 l/s

Item No. 4000330
Hose: 3"
Dimension:
600 x 130 x 850 mm
Material Polyethylen
Proofed at the FH Münster
Flow rate in litre per second:
0,83 l/s bis 3,85 l/s



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