



3P Technik Filtersysteme GmbH



RAINWATER HARVESTING



www.3ptechnik.de

INNOVATIONS - RAINWATER HARVESTING

3P BOX

The 3P BOX is a holistic solution for rainwater management. With the 3P BOX installed directly on the downpipe, you collect the rainwater exactly where it falls, clean it of fine particles, leaves, solids and can then convey it to where you can best ensure your storage on the property with a pump already integrated in this compact product.

Here you are independent of the type of storage tank. It can be underground, above ground, made of plastic, concrete, fibreglass or any other sensible material and does not have to be installed in local connection with the downpipe. This offers significant advantages, especially in the area of retrofitting existing buildings. Storage tanks no longer have to be concealed and installed in the vicinity of the house, but can be installed where the local conditions most sensibly allow.

NEW

Find out more on pages 108-113



3P GARDEN FILTER L DN100|DN125

Our new 3P garden filter L DN 100 and DN 125 combines large filters and flat tank filters in a unique way. With the connection widths DN 100 and DN 125, a connected area of up to 387m² can be safely collected and cleaned. Due to the mesh width of 1mm, all larger particles are retained in the collection basket and the water can be safely used for garden irrigation.

The low installation height not only enables installation in shallow tanks but also gives you the opportunity to make optimum use of the cistern volume. You will find a useful addition to this filter in our DN 100/150 siphon as well as our floating extraction and pump base.

NEW

Find out more on pages 56-57



3P ADAPTER RING TRAFFICABLE

For the installation on your rainwater harvesting system, it is not possible on some projects to move out of a zone with motor vehicle traffic. In this case, the installation of in-tank filters is usually the only option, as the conventional solutions with telescopic extensions are not designed to be accessible.

With our new 3P adapter ring, we solve this challenge for you. The adapter is shaped in such a way that it can accommodate the telescopic extension on one side and a passable cover on the other. The design absorbs the forces that arise and diverts them into the ground. By using a pre-tank filter, you can achieve an optimum of utilisation volume in your cistern.

NEW

Learn more on page 70-71

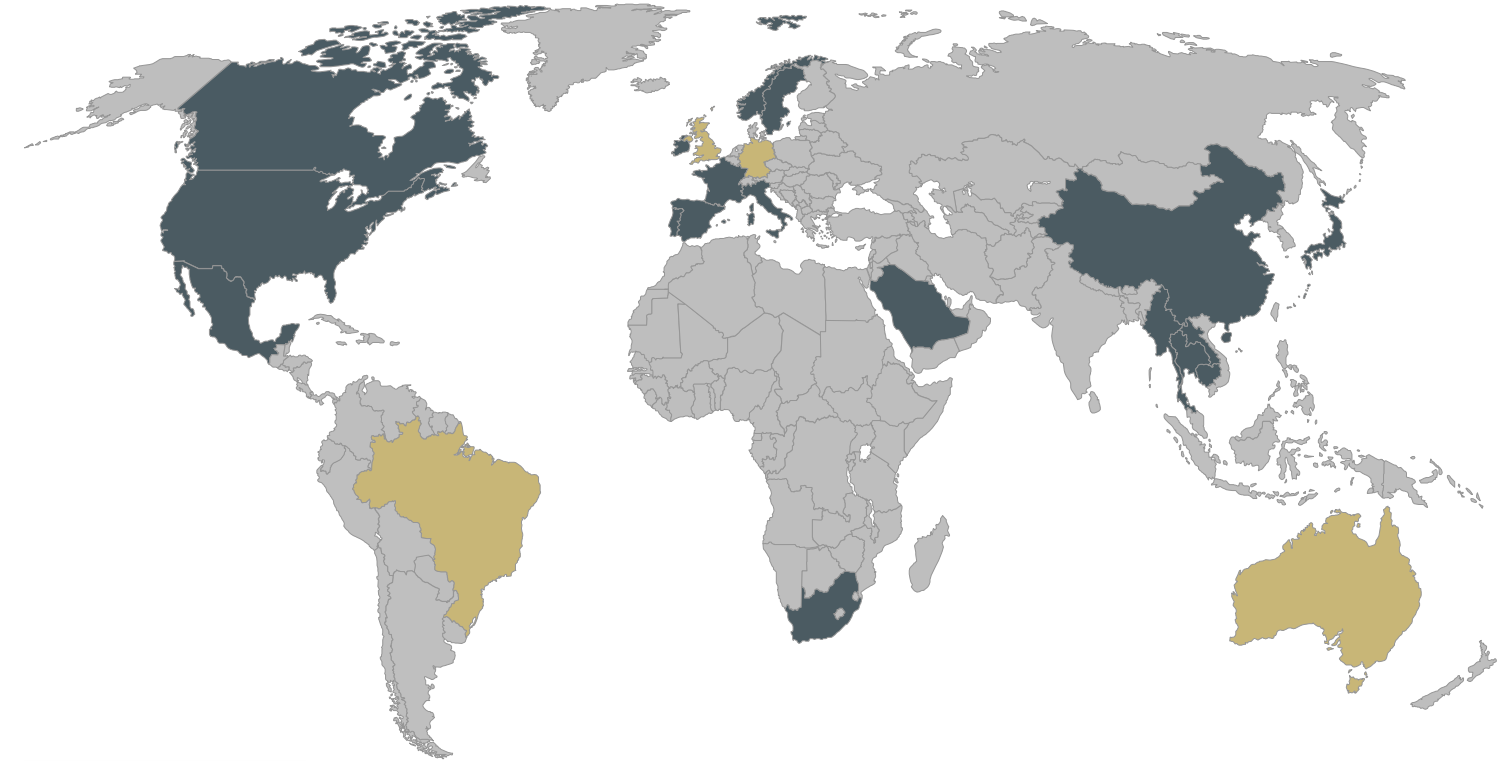




3P offers a wide range of filters in the field of rainwater harvesting and provides unique know-how in stormwater treatment systems for the well-known manufacturers of the European and American market.

3P's high level of technology and reliability is based on an in-house total production process that covers all phases - from research and development, through manufacturing and to the production of the filter. Filter from research and development to manufacturing, laboratory testing and distribution.


All this is complemented by a constant commitment that makes 3P an industry leader. The company delivers excellent results in the production of reliable and durable products and components. Excellent results have also been achieved in the supply of high-tech treatment plants for stormwater, which are specially developed and realised for the most renowned manufacturers.

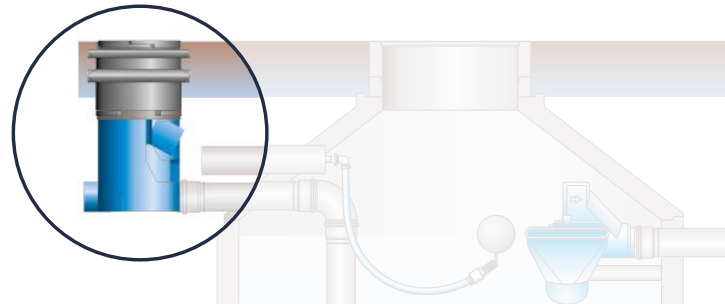


26
Countries worldwide

Customers
3P Branches

CONTENT

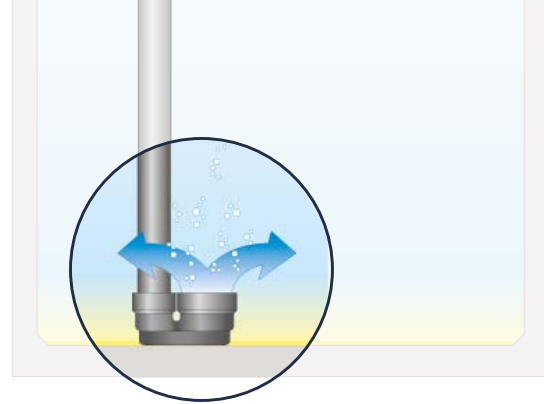
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1ST CLEANING STAGE - THE RAINWATER FILTER

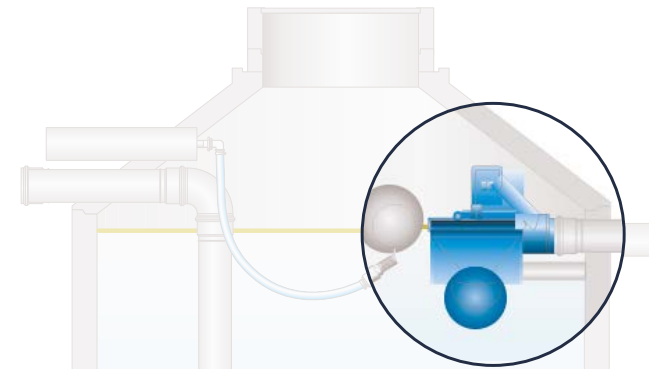
The first cleaning stage of the system is the filter. The rainwater flows from the roof via the downpipe into the filter, here the solids will be separated from the water. This purified water goes into the cistern, the dirt flushed into the sewage system with a small amount of the rainwater or collected in the filter basket.

Rainwater filters from 3P often have stainless steel inserts that can be easily removed and cleaned for maintenance. Different functional principles and connection options enable the in a wide range of installation situations.



2ND CLEANING STAGE - THE CALMED INTAKE

The water is usually stored in a cistern, which is inflow installed in the underground and should be as dark and cool as possible. This is also where the second cleaning stage takes place: Fine dirt particles remaining in the water slowly sink to the bottom. The calmed inflow of water prevents this sediment layer from being stirred up, and at the same time oxygen is added to the lower part of the stored water. The oxygen prevents anaerobic decomposition in the cistern. The water remains fresh.



3RD CLEANING STAGE - THE OVERFLOW SIPHON

Dirt particles that are lighter than water (e.g. pollen) slowly rise and float on the water surface. This floating layer is removed when the cistern overflows by the specially shaped overflow siphon with skimmer effect. Regular overflowing of the cistern is important for consistently good water quality to prevent the water from „rotting“. The floating layer could close off the water surface in such a way that no oxygen could reach the water and an anaerobic decomposition process could take place.



4TH CLEANING STAGE - THE FLOATING INTAKE FITTING

Just below the water surface, the clean water can be extracted with the floating extraction pipe. A floating ball holds the extraction part, which is equipped with another filter for safety's sake, just below the water surface, where the cleanest water in the storage tank is located. As a rule, the floating extraction is equipped with a non-return valve.

Rainwater harvesting - Why?

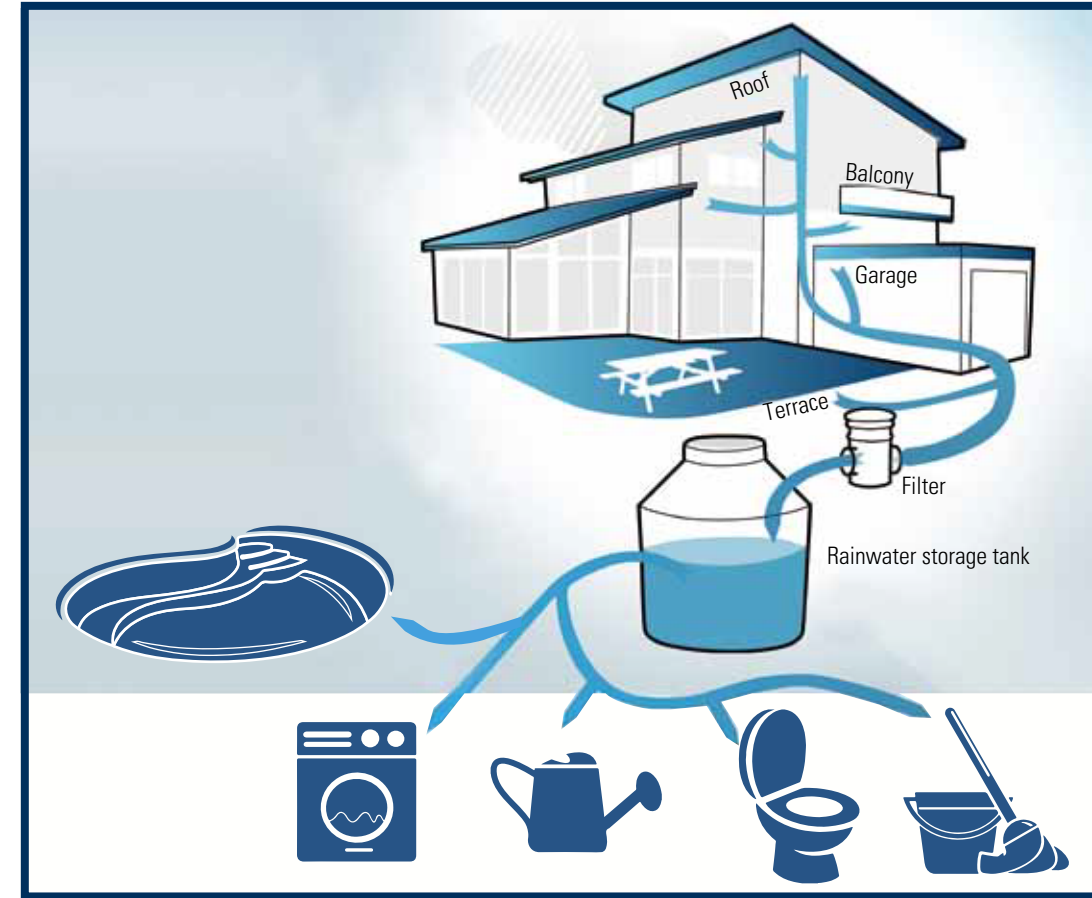
When we save drinking water, we save valuable resources.
We should not give away water that simply falls from the sky.

Let us be environmentally conscious with the element of water. Rainwater is soft water!

We thus save detergent, protect the washing machine and our environment.

Our garden will reward us, because the plants love this natural water. Rainwater harvesting saves us money by reducing water and sewage charges.

Rainwater harvesting serves the general public, as the retention effect of the cisterns relieves sewage treatment plants and sewage systems!



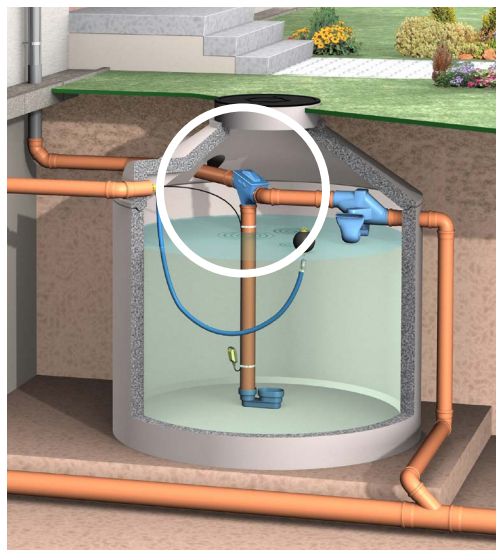
We help with the decision

Below you can see some examples of useful combinations of rain water filters and overflow siphons based on the sheer height differences between the rain water inlet and the sewer connection

Installation of the rainwater filter **in front** of the rainwater storage tank.



Installation of the rainwater filter **in** the rainwater storage tank.



Height difference between Rainwater inlet and sewer connection

0 cm



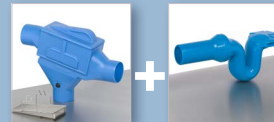
7 cm



10 cm



12 cm



ab 12,5 cm



28 to 46 cm



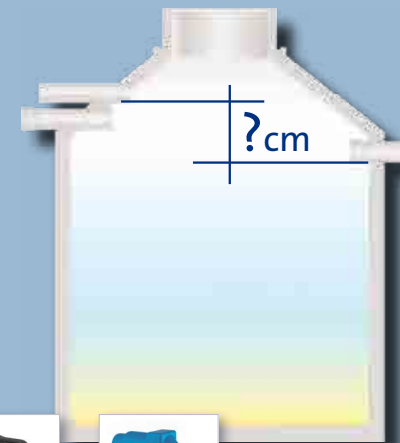
ab 19 cm



ab 24,5 cm

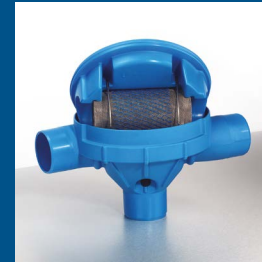


ab 30 cm



RAINWATER FILTER IN THE CISTERN

A filter in a cistern is characterised by letting the purified water into the tank and separates the solids into the canal.





3P Compact filter

Art.-No. 1000100



The compact rainwater filter from 3P Technik is for installation in rainwater storage tanks made of plastic or concrete. The 3P compact filter can be used wherever there is little space and no difference in height between the inlet and outlet.

The 3P Compact Filter can be retrofitted with the 3P Backwash Set PF + SF. There is already an vent in the filter housing, which is sealed by a cap. Ideally, the 3P Compact Filter is combined with the 3P Overflow Siphon DUO and the 3P Calmed Inlet. The purified water can be used for washing machines, toilets and garden irrigation.

- Rainwater filter according to DIN 1989-2, type C
- Inlet connection: DN 100
- Outlet into the storage tank: DN 100
- Outlet into the sewer: DN 100
- Height difference between inlet and outlet: 0 mm
- Material filter cartridge: stainless steel 1.4301
- Material housing: polyethylene
- Mesh size: 0.7 x 1.7 mm
- Dimensions: 295 x 320 x 260 mm



3P special-kit COF Art.-No. 1000111

3P Compact filter + 3P Calmed inlet
+ 3P Overflow siphon DUO





3P Greenline filter K

Art.-No. 1000130



The compact rainwater filter from 3P Technik is for installation in rainwater storage tanks made of plastic or concrete. The 3P Greenlinefilter K can be used wherever there is little space and no difference in height between the inlet and outlet.

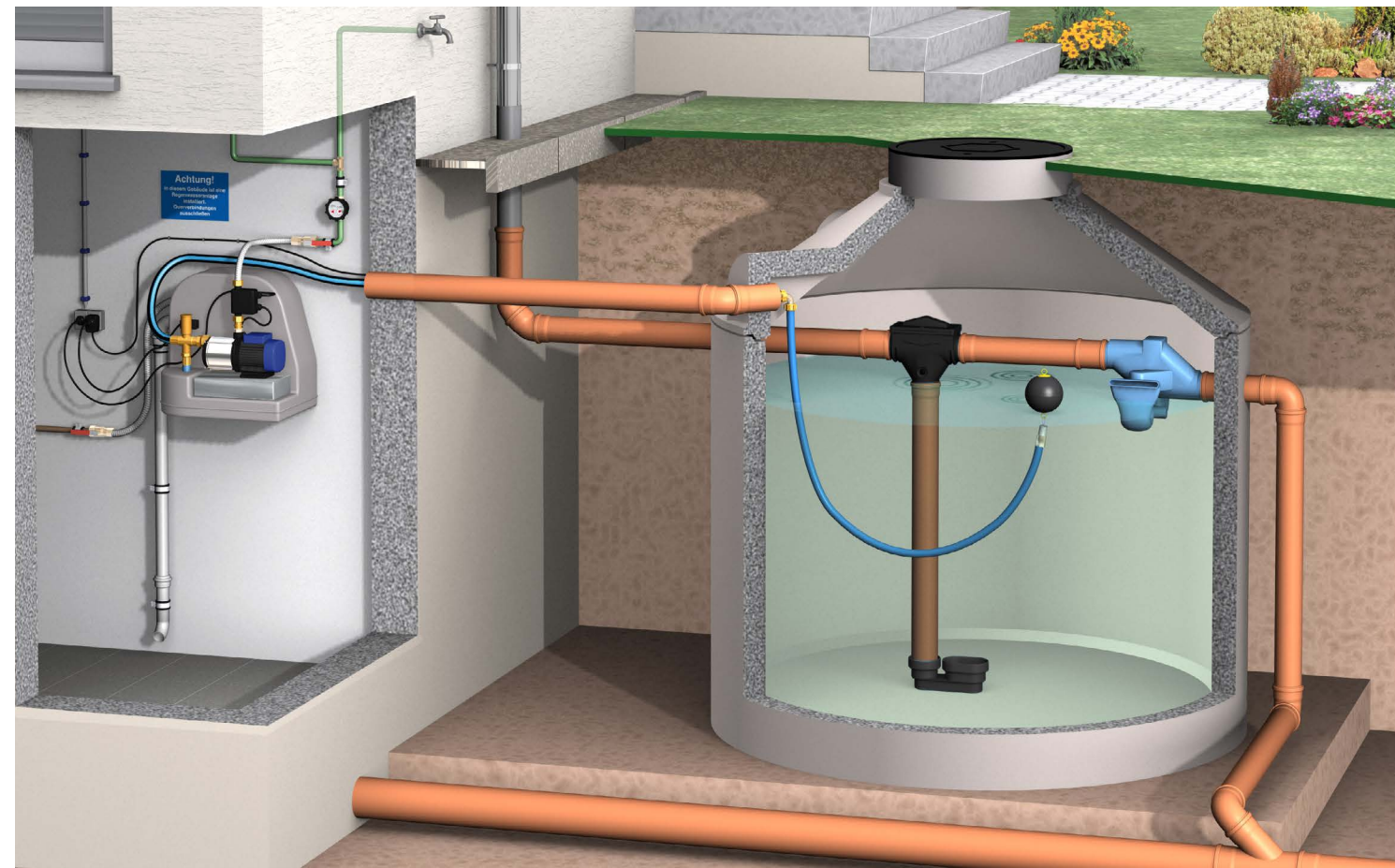
The 3P Greenlinefilter K can be retrofitted with the 3P Backwash Set PF + SF. There is already an vent in the filter housing that is selected by with a cap. Ideally, the 3P Greenlinefilter K is combined with the 3P Overflow Siphon DUO and the 3P Calmed Inlet. The purified water can be used for the washing machine, toilet and garden irrigation.



- Rainwater filter according to DIN 1989-2, type C
- Inlet connection: DN 100
- Outlet into the storage tank: DN 100
- Outlet into the sewer: DN 100
- Height difference between inlet and outlet: 0 mm
- Filter element material: Polyethylene
- Material housing: polyethylene
- Mesh size: 1.9 x 4.1 mm
- Dimensions: 295 x 320 x 260 mm

3P special-kit GF K Art.-No. 1000133

3P Greenline filter K + 3P Calmed inlet
+ 3P Overflow siphon DUO





3P Sinus filter

Art.-No. 1000200



Rainwater filter without height offset for installation in rainwater storage tanks made of plastic or concrete. The 3P Sinus filter filter is described as a problem solver, as it can be used especially for retrofitting rainwater storage tanks that do not have a height difference between the inlet and outlet.

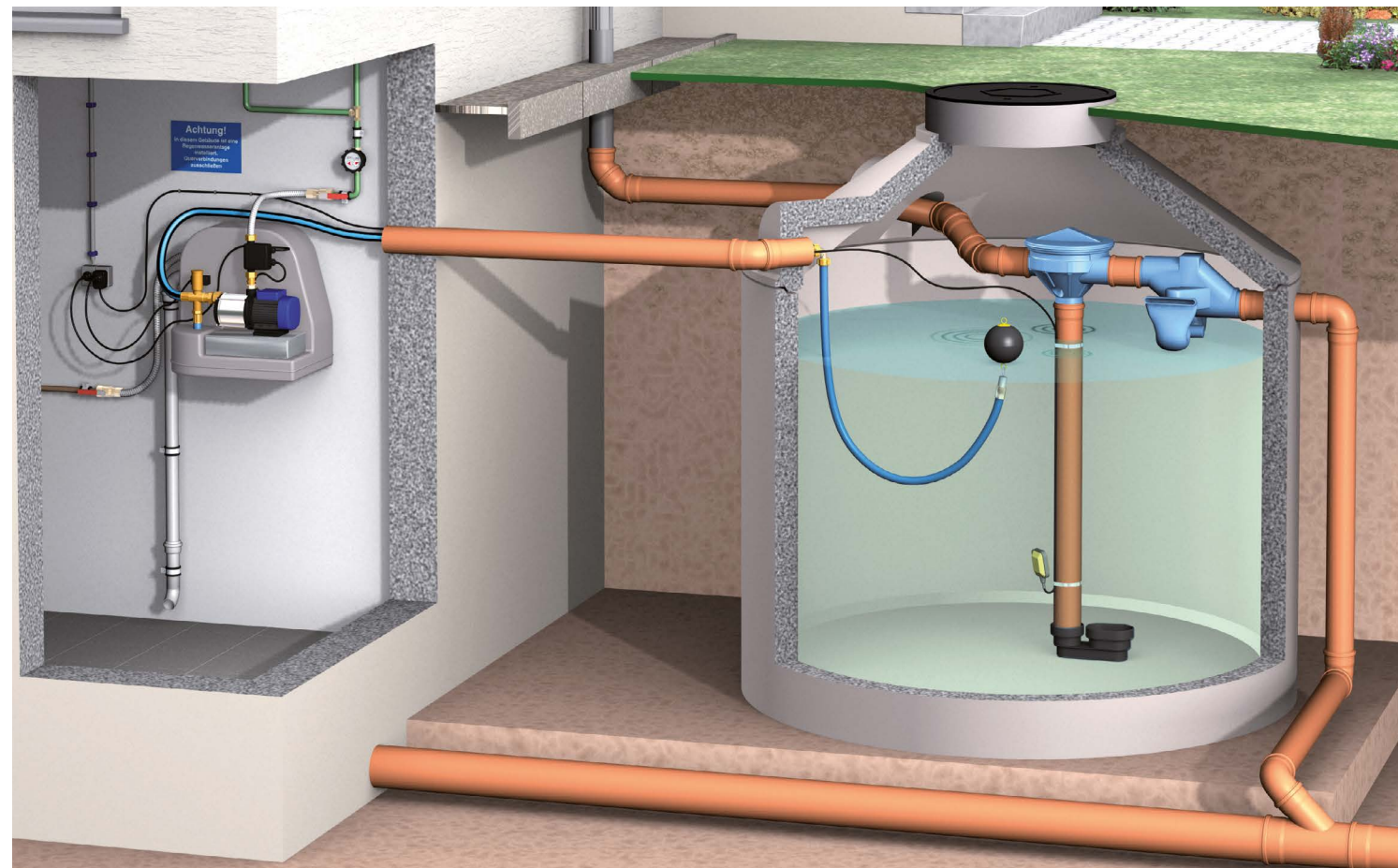
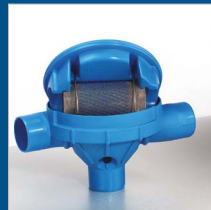
The filter cartridge lies at an angle in the housing, so the yield is much better compared to conventional pipe filters. The 3P Sinus filter filter can be retrofitted with the 3P backwash set PF + SF. An ideal combination is the 3P Sinus Filter with the 3P Overflow Siphon DUO and the 3P Calmed Inlet. The purified water can be used for washing machines, toilets and garden irrigation.

- Rainwater filter according to DIN 1989-2, type C
- Inlet connection: DN 100
- Outlet into the storage tank: DN 100
- Outlet into the sewer: DN 100
- Height difference between inlet and outlet: 0 mm
- Material filter cartridge: stainless steel 1.4301
- Material housing: polyethylene
- Mesh size: 0.7 x 1.7 mm
- Dimensions: Ø 350 x W: 467 x H: 320 mm



3P special-kit SF Art.-No. 1000222

3P Sinusoidal filter + 3P Calmed inlet
+ 3P Overflow siphon DUO





3P Cartridge filter

Art.-No. 1000300



Small, compact rainwater filter for installation in rainwater storage tanks made of plastic or concrete. Due to the slight inclination of the screen cartridge, the filtered out dirt is flushed into the sewer.

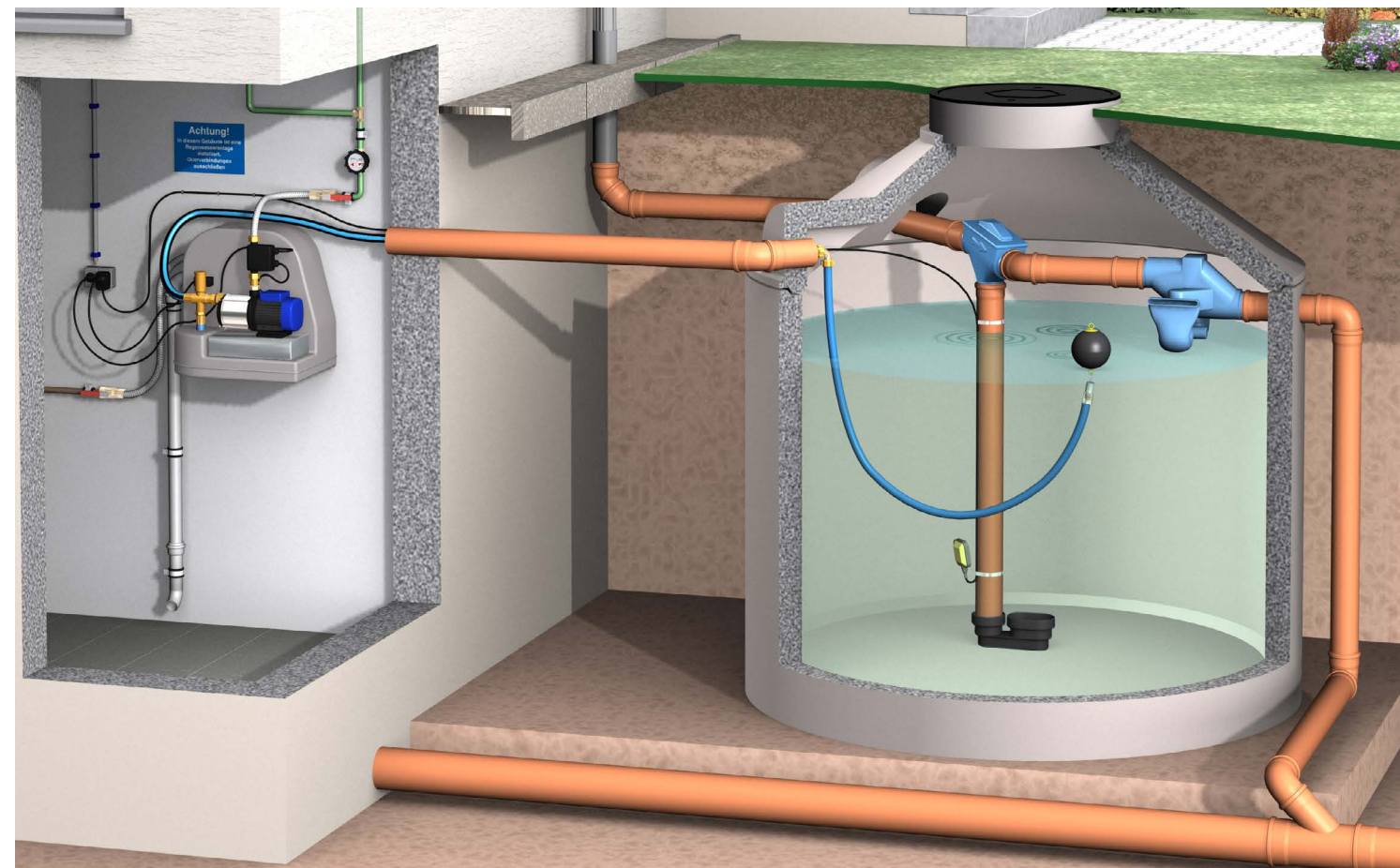
The internal sieve cartridge is made of stainless steel with a plastic coating. The 3P cartridge filter can be retrofitted with the 3P backwash set PF + SF. There is already an opening in the filter housing, which is closed with a cap. Ideally, the 3P cartridge filter is combined with the 3P Overflow Siphon DUO and the 3P Calmed Inlet. The purified water can be used for washing machines, toilets and garden watering.



- Rainwater filter according to DIN 1989-2, type C
- Inlet connection: DN 100
- Outlet into the storage tank: DN 100
- Outlet into the sewer: DN 100
- Height difference between inlet and outlet: 70 mm
- Material filter cartridge: stainless steel 1.4301
- Material housing: polyethylene
- Mesh size: 0.7 x 1.7 mm
- Dimensions: 402 x 305 x 148 mm

3P special-kit CF Art.-No. 1000333

3P Cartridge filter + 3P Calmed inlet
+ 3P Overflow siphon DUO





3P Greenline filter P

Art.-No. 1000370



Small, compact rainwater filter for installation in rainwater storage tanks made of plastic or concrete. Due to the slight inclination of the filter screen, the separated solids filtered out dirt is flushed into the sewer.

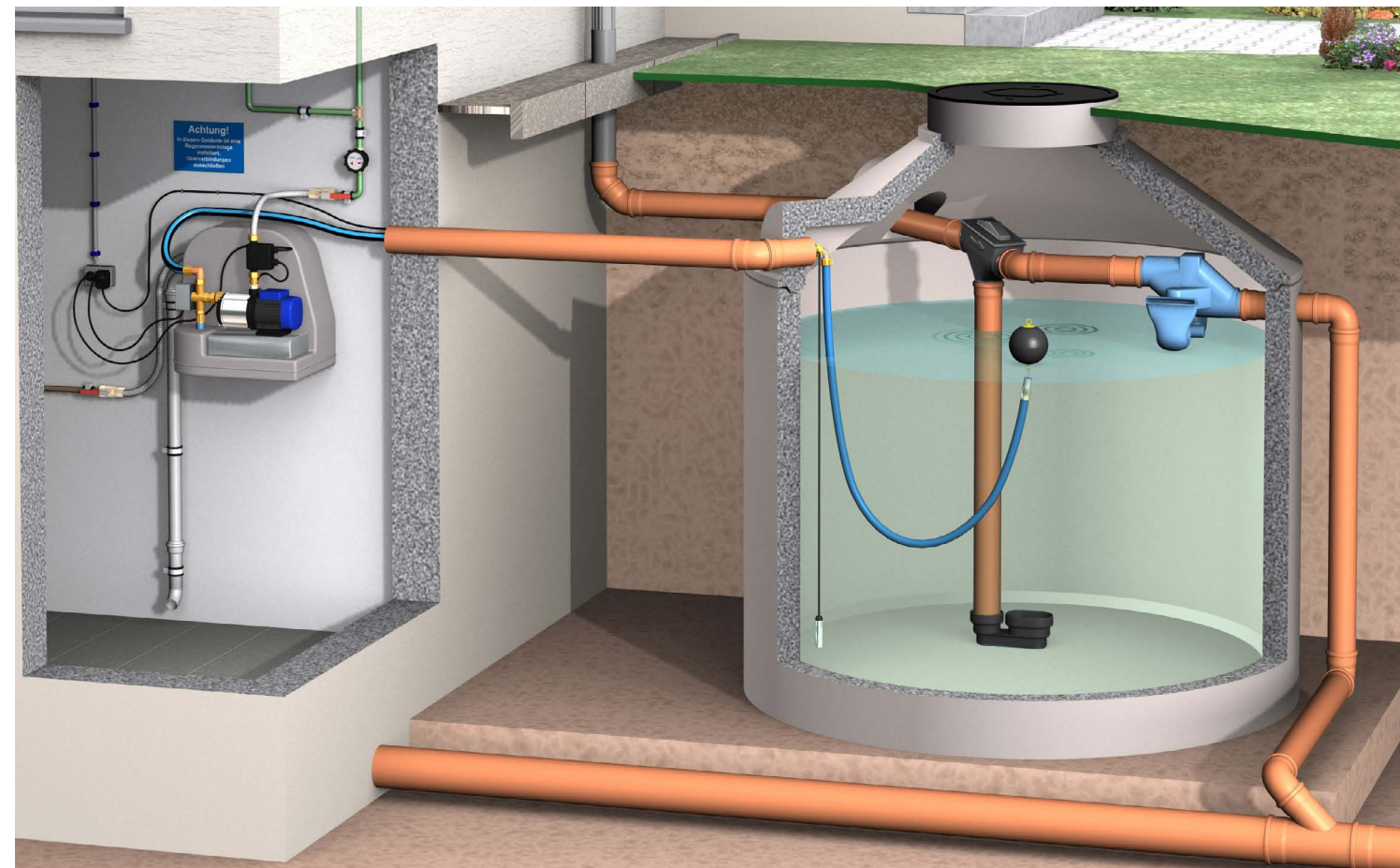
The internal sieve is made of plastic. The 3P Greenlinefilter P can be retro-fitted with the 3P Backwash Set PF + SF. There is already an opening in the filter housing which is closed with a cap. Ideally, the 3P Greenlinefilter is combined with the 3P Overflow Siphon DUO and the 3P Calmed Inlet. The purified water can be used for washing machines, toilets and garden irrigation.



- Rainwater filter according to DIN 1989-2, type C
- Inlet connection: DN 100
- Outlet into the storage tank: DN 100
- Outlet into the sewer: DN 100
- Height difference between inlet and outlet: 70 mm
- Filter element material: Polyethylene
- Material of housing: polyethylene
- Mesh size: 0.7 x 1.7 mm
- Dimensions: 402 x 305 x 148 mm

3P special-kit GF P Art.-No. 1000372

3P Greenline filter P + 3P Calmed inlet
+ 3P Overflow siphon DUO





3P Cistern filter

Art.-No. 1000400



Rainwater filter for installation in rainwater storage tanks made of plastic or concrete. Special feature: 2-stage cleaning principle, therefore ideal for roof areas with large amounts of leaves. Coarse solids will be transported into the sewer via the first filter surface. Finer solids are separated out via the second filter surface.

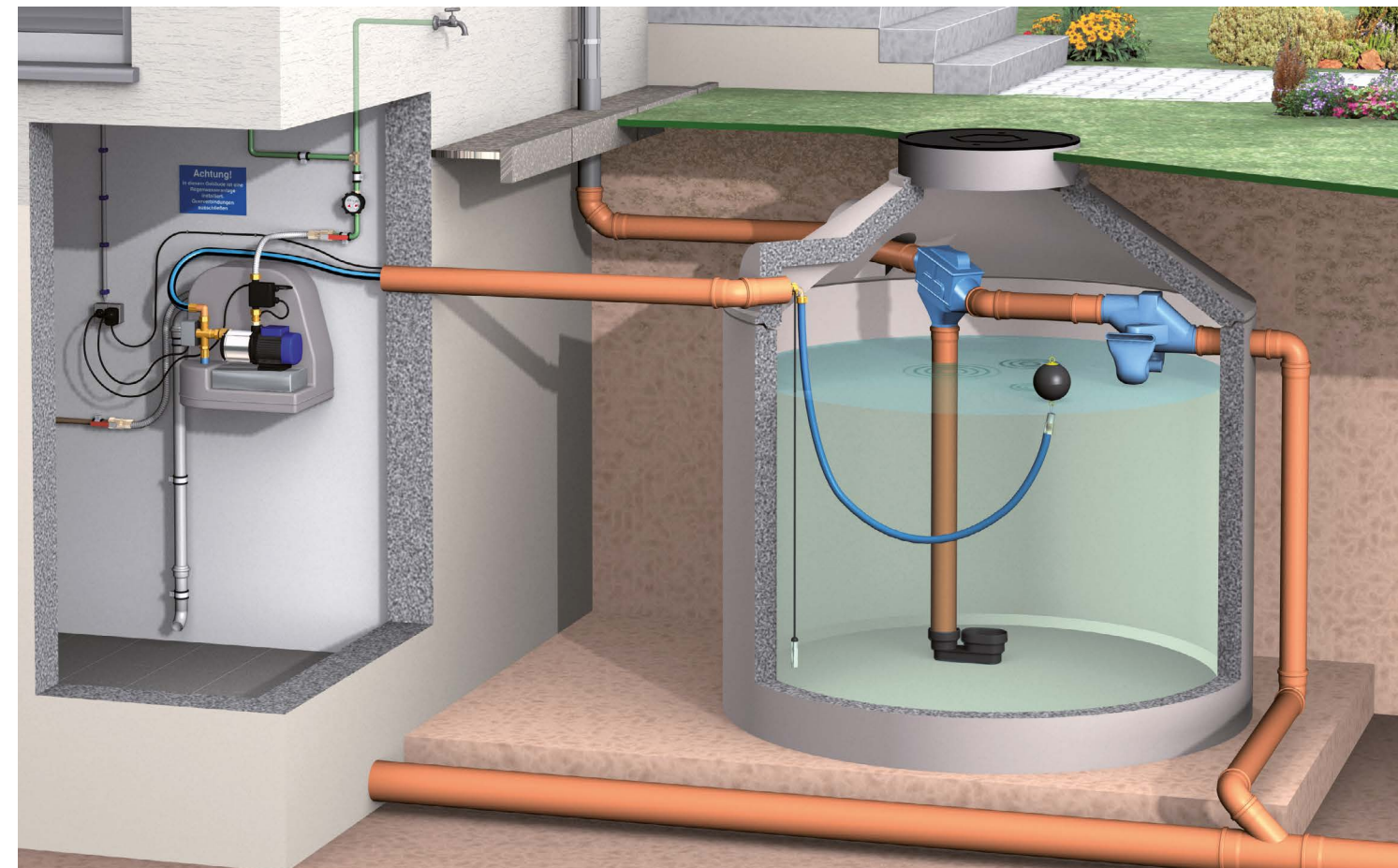
The 3P cistern filter can be retrofitted with the 3P Backwash Set ZF. There is already an opening in the filter housing which is closed with a cap. Ideally, the 3P Cistern Filter is combined with the 3P Overflow Siphon DUO and the 3P Calmed Inlet. The purified water can be used for washing machines, toilets and garden irrigation.



- Rainwater filter according to DIN 1989-2, type C
- Inlet connection: DN 100
- Outlet into the storage tank: DN 100
- Outlet into the sewer: DN 100
- Height difference between inlet and outlet: 120 mm
- Material filter insert: stainless steel 1.4301
- Material housing: polyethylene
- Mesh size: 0.7 x 1.7 mm
- Dimensions: 532 x 380 x 158 mm

3P special-kit CIF Art.-No. 1000444

3P Cistern Filter + 3P Calmed Inlet
+ 3P Overflow siphon DUO





3P Greenline filter Z

Art.-No. 1000420



The compact rainwater filter from 3P Technik is for installation in rainwater storage tanks made of plastic or concrete. The 3P Greenlinefilter Z can be used wherever there is little space and a height difference of 12 cm between the inlet and outlet.

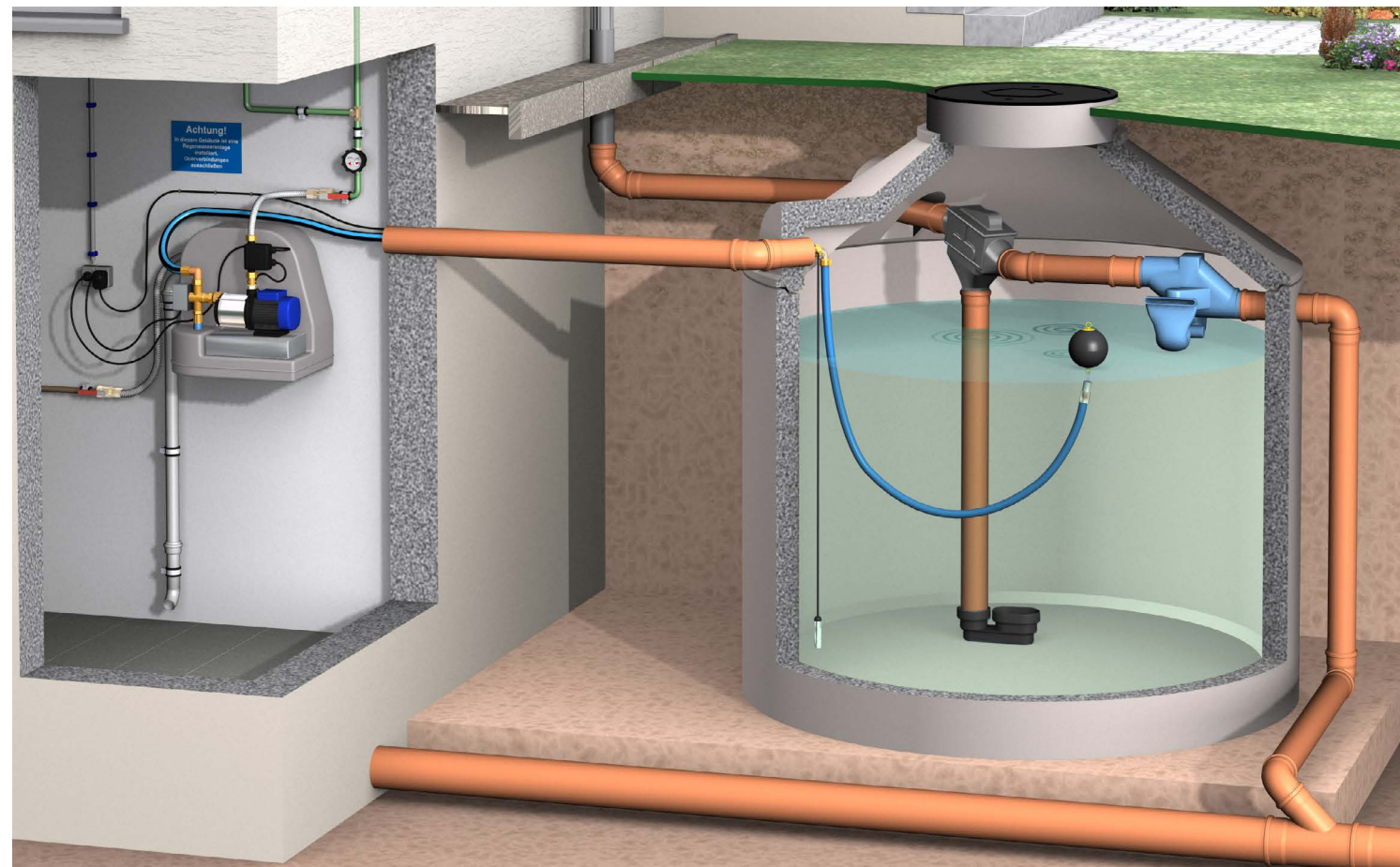
The 3P Greenlinefilter Z can be retrofitted with the 3P Backwash Set ZF. There is already an opening in the filter housing, which is closed with a cap. Ideally, the 3P Greenlinefilter Z is combined with the 3P Overflow Siphon DUO and the 3P Calmed Inlet. The purified water can be used for the washing machine, toilet and garden irrigation.



- Rainwater filter according to DIN 1989-2, type C
- Inlet connection: DN 100
- Outlet into the storage tank: DN 100
- Outlet into the sewer: DN 100
- Height difference between inlet and outlet: 120 mm
- Material filter insert: polyethylene
- Material housing: polyethylene
- Mesh size: 1.9 x 4.1 mm
- Dimensions: 532 x 380 x 158 mm

3P special-kit GF Z Art.-No. 1000422

3P Greenline filter Z + 3P Calmed inlet
+ 3P Overflow siphon DUO





3P Siphon filter

Art.-No. 1000430



Small, compact rainwater filter for installation in rainwater storage tanks made of plastic or concrete. Due to the slight inclination of the screen surface, the filtered out dirt is flushed into the canal. The height difference can be slightly varied between 280 mm and 460 mm.

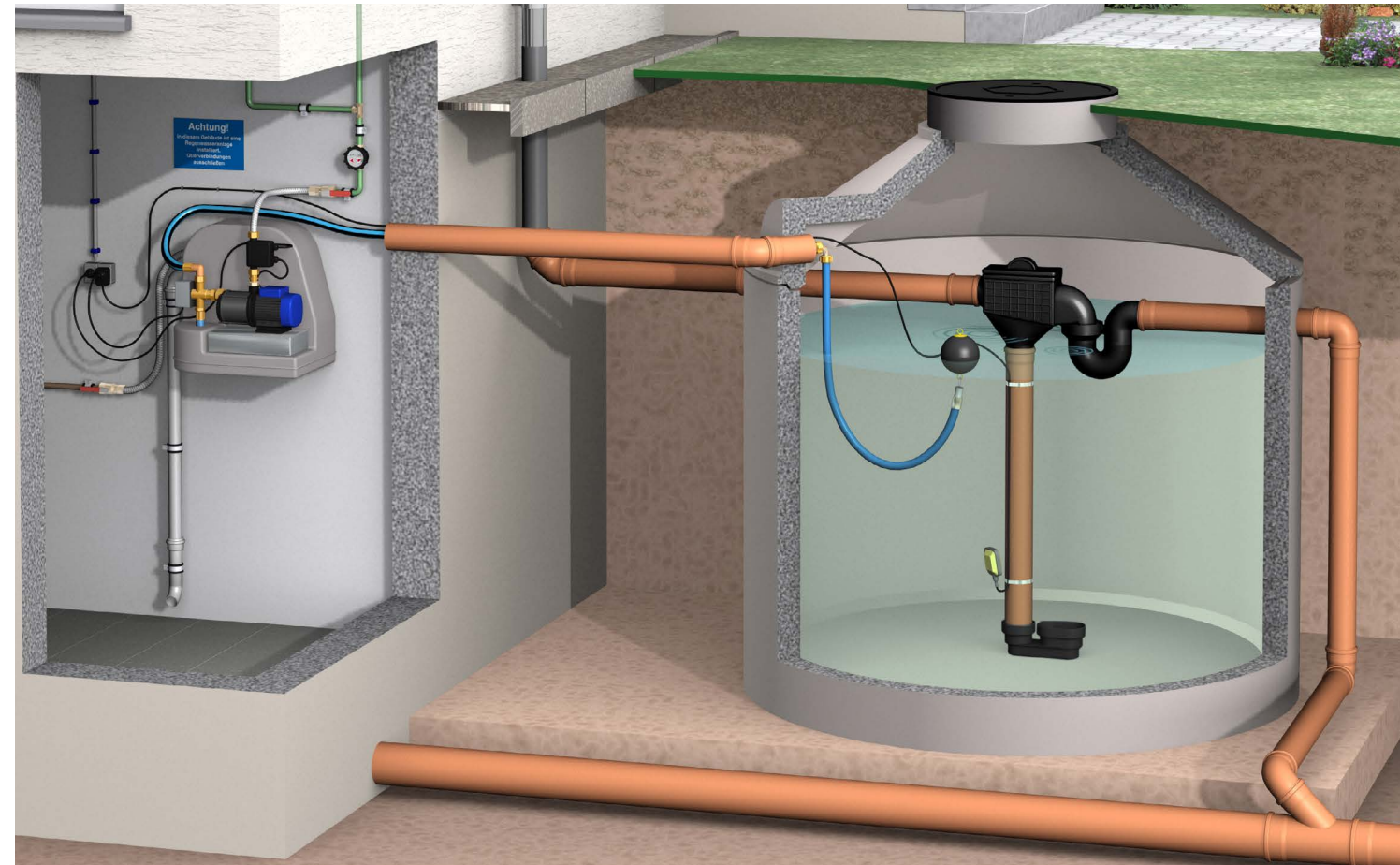
The internal screen surface is made of stainless steel (mesh size: 0.7 x 1.7 mm). The overflow siphon with odour trap and the suction of the surface water in DN 100 is already integrated in this filter (optionally also with backflow flap). The 3P siphon filter can be retrofitted with the 3P backwash set ZF. There is already an opening in the filter housing, which is closed with a cap. The cleaned water can be used for washing machine, toilet and garden irrigation.

- Rainwater filter according to DIN 1989-2, type C
- Inlet connection: DN 100
- Outlet into the storage tank: DN 100
- Outlet into the sewer: DN 100
- Height difference between inlet and outlet: 280 x 460 mm
- Material filter insert: stainless steel 1.4301
- Material housing: polyethylene
- Mesh size: 0.7 x 1.7 mm
- Dimensions: 760 x 280 x 460 mm



3P special-kit SIF Art.-No. 1000433

3P Siphonfilter + 3P Beruhigter Zulauf

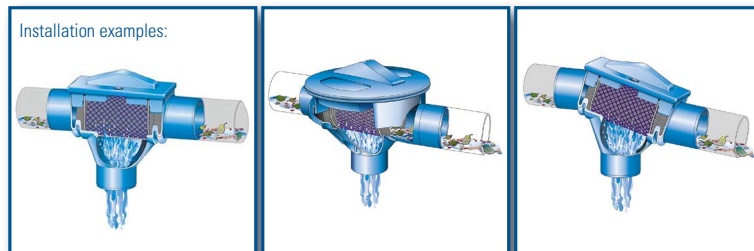


3P Backwash kit for compact, sinus and cartridge filters

Art.-No. 1000355

The 3P backwash kit cleans the filter cartridges of the 3P compact filter, 3P Sinus filter and 3P cartridge filter easily and professionally.

- Backwash nozzle + 10 m PE hose



3P Rapid connector DN 100 Art.-No. 4000750

Plastic clamp with diameter DN 100 for secure mounting pipe to pipe connections in the rainwater storage tank.

Consisting of:

- Plastic clamp DN 100
- EPDM sealing collar
- 2 stainless steel screws with nuts and washers



3P Backwash kit for cistern and siphon filters

Art.-No. 1000455

The 3P backwash kit cleans the filter screen of the 3P cistern and 3P siphon filter simply and professionally.

- Backwash nozzle + 10 m PE hose





3P Volume filter VF1 Combi Art.-No. 1000590



Rainwater filter for installation in the rainwater storage tank.
With this version, the outlet into the storage tank is at the bottom and not at the side as compared the 3P volume filter VF1, Art.-No. 1000500. Due to its 2-stage cleaning principle (first coarse, then fine cleaning), the 3P volume filter VF1 Combi has a high degree of efficiency independent of the volume flow.

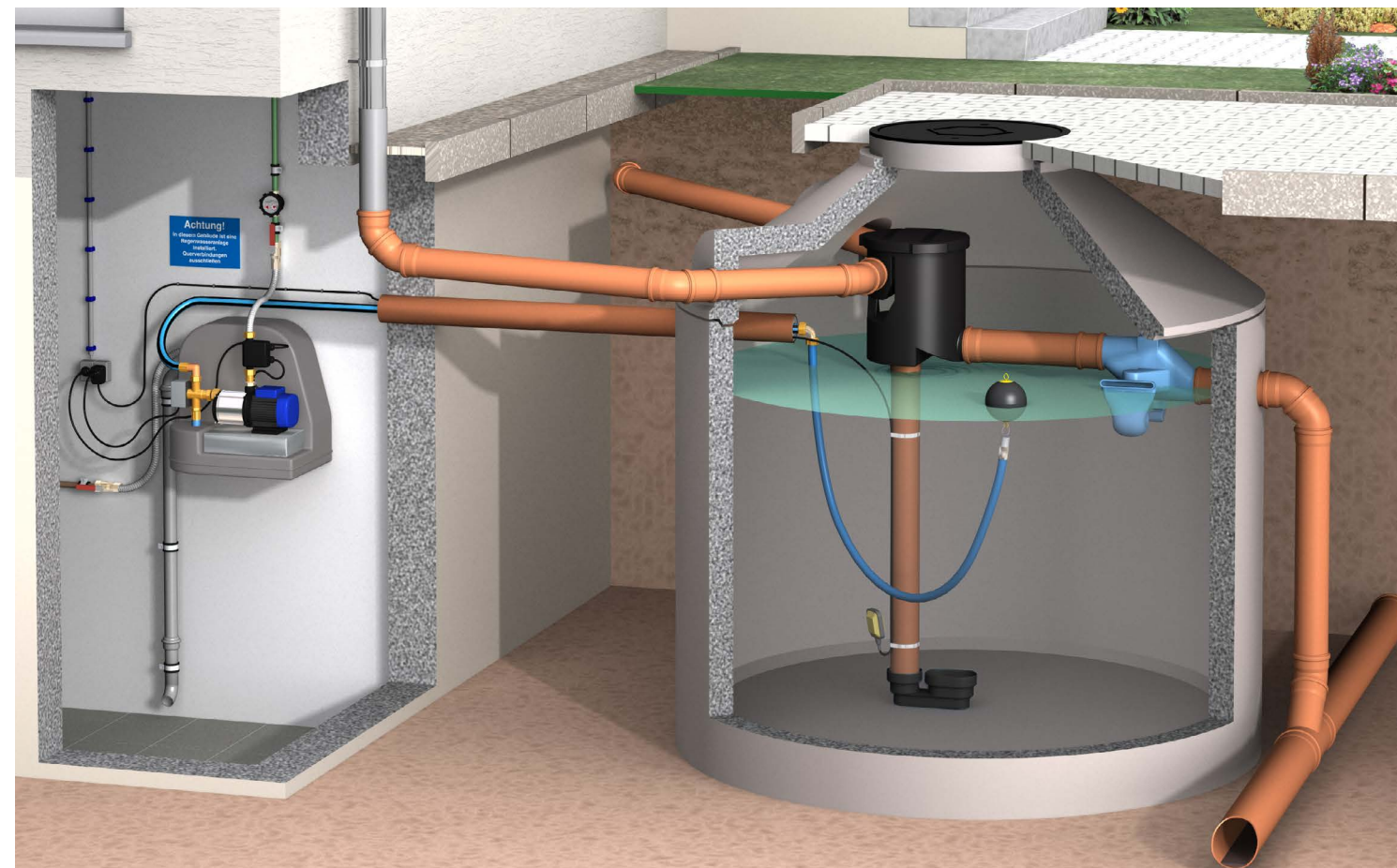
Due to the steep position of the filter insert, the separated dirt is continuously flushed towards the sewage system. The filter insert can be easily removed for cleaning without special tools. The cleaned water can be used for washing machines, toilets and garden irrigation.

- Rainwater filter according to DIN 1989-2, type C
- Inlet connection: 2 x DN 100
- Outlet into the storage tank: DN 100
- Outlet into the sewer: DN 125
- Height difference between inlet and outlet: 300 mm
- Material of housing and cascade insert: polyethylene
- Material filter insert: stainless steel 1.4301
- Mesh size: 0.25 x 0.60 mm
- Dimensions: 445 x 451 x 470 mm



3P special-kit VF1 Combi Art.-No. 1000599

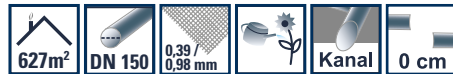
3P Volume filter VF1 Combi + 3P Calmed inlet
+ 3P Overflow siphon DUO





3P Irrigation flat filter

Art.-No. 1000250



Rainwater filter for larger roof areas and rainwater tanks. The 3P Irrigation flat filter is installed in the rainwater tank and has no height offset. Due to its innovative design, this filter has a very large filter area and a very high efficiency (in the cover) independent of the volume flow in order to channel as much rainwater as possible into the cistern.

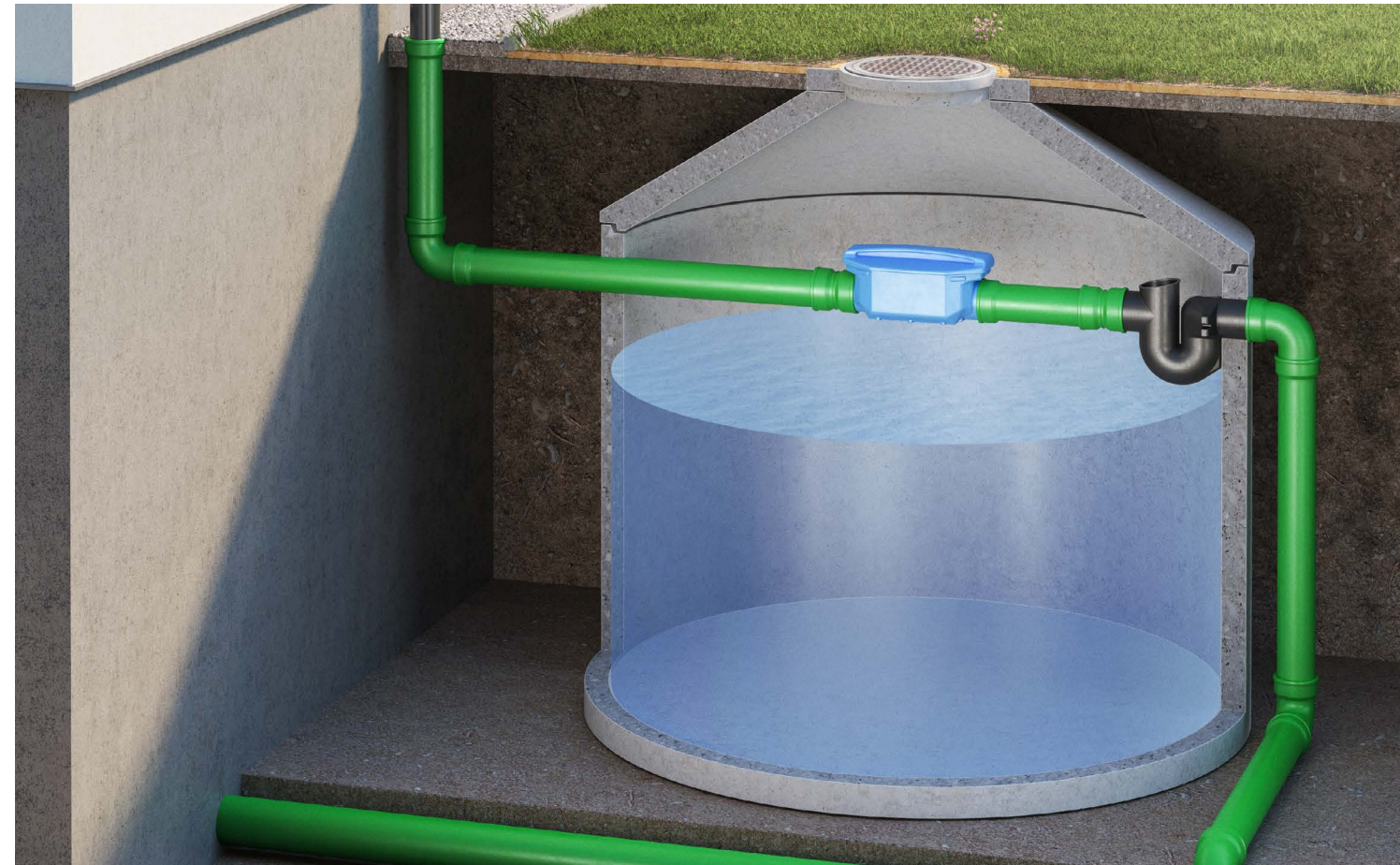
The dirt load is continuously flushed into the sewer system. The special feature of the cost-effective trickling filter is that the cleaned water trickles directly into the cistern, without a calmed inlet.

- Rainwater filter type C according to DIN 1989 -2
- Inlet connection DN 150
- Outlet into the storage tank: DN 150
- Height difference between inlet and outlet: 0 mm
- Material filter screen: Stainless steel 1.4301
- Material housing: polyethylene
- Mesh size 0.39 x 0.98 mm
- Dimensions: L: 685 x W: 284 mm



3P special-kit IF 150 Art.-No. 1000255

3P Irrigation flat filter+ 3P overflow siphon DN 150





3P Premium filter

Art.-No. 1000260



Rainwater filter for larger roof areas and rainwater tanks. The 3P Premium filter is installed in the rainwater storage tank and has no height offset. Due to its innovative design, this filter has a very large filter area and a very high efficiency, independent of the volume flow, in order to channel as much rainwater as possible into the cistern. The dirt load is continuously flushed into the sewage system.

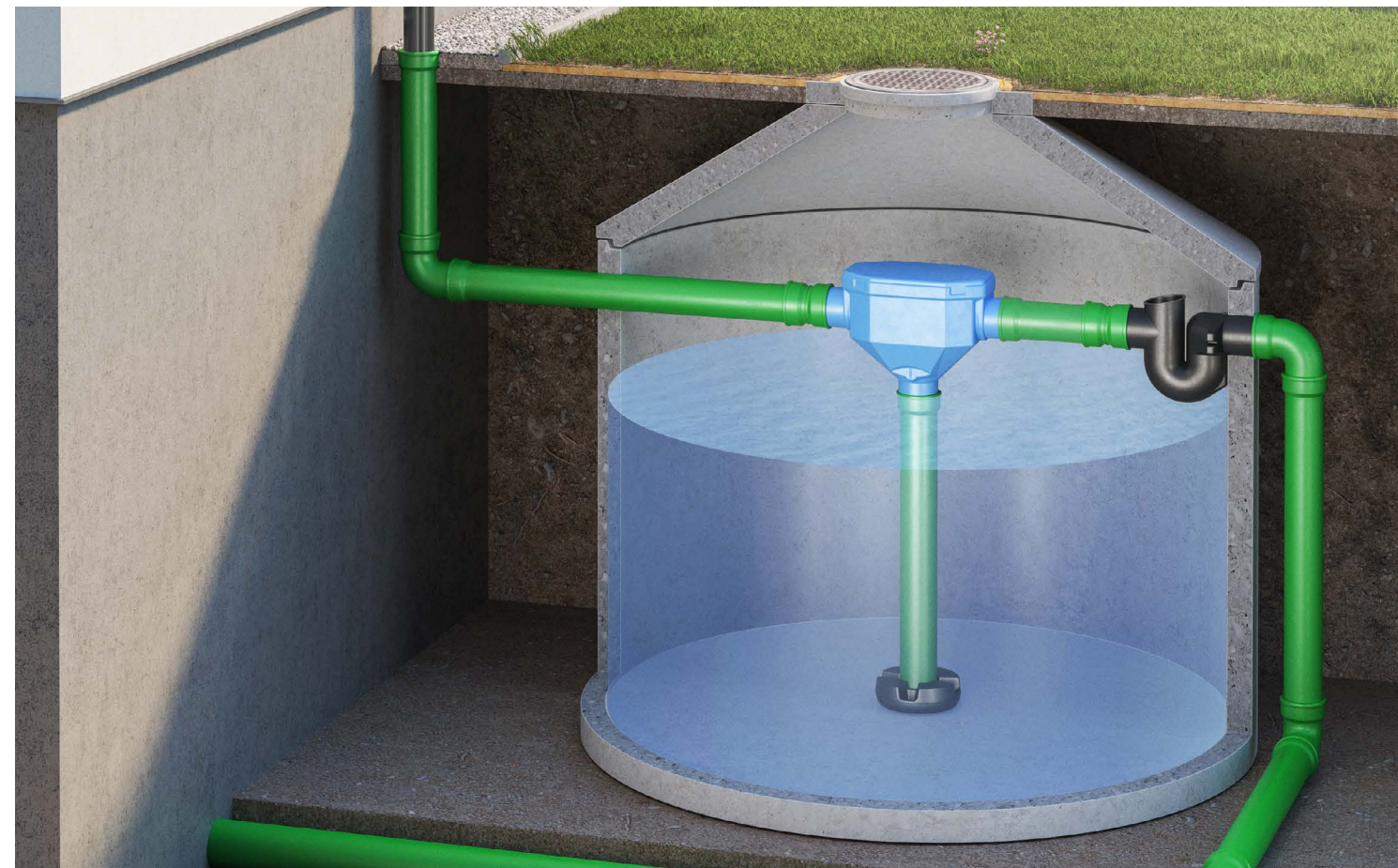
The filter insert can be easily removed from the housing for cleaning without tools.



- Rainwater filter type C according to DIN 1989 -2
- Inlet connection DN 150
- Outlet into the storage tank DN 150
- Height difference between inlet and outlet: 0 mm
- Material filter sieve: stainless steel 1.4301
- Material filter insert: stainless steel 1.4301
- Material housing: polyethylene
- Mesh size 0.39 x 0.98 mm
- Dimensions: L: 758 x W: 590 mm

3P special-kit PF 150 Art.-No. 1000265

3P Premium filter + 3P Calmed inlet round DN 150
+ 3P Overflow siphon DN150





3P Premium skimmer filter Art.-No. 1000270



Rainwater filter for larger roof areas and rainwater tanks. The 3P Premium Skimmer Filter is installed in the rainwater tank and has a height offset of 7 cm. Due to its innovative design, this filter has a very large filter surface and a very high efficiency, independent of the volume flow, in order to channel as much rainwater as possible into the cistern. The dirt load is continuously flushed into the sewage system.

The 3P Premium Skimmer Filter also has two specially shaped overflow openings on the side with a skimmer effect. These remove dirt particles that are lighter than water from the surface when the cistern overflows. The filter insert can be easily removed from the housing for cleaning without tools.

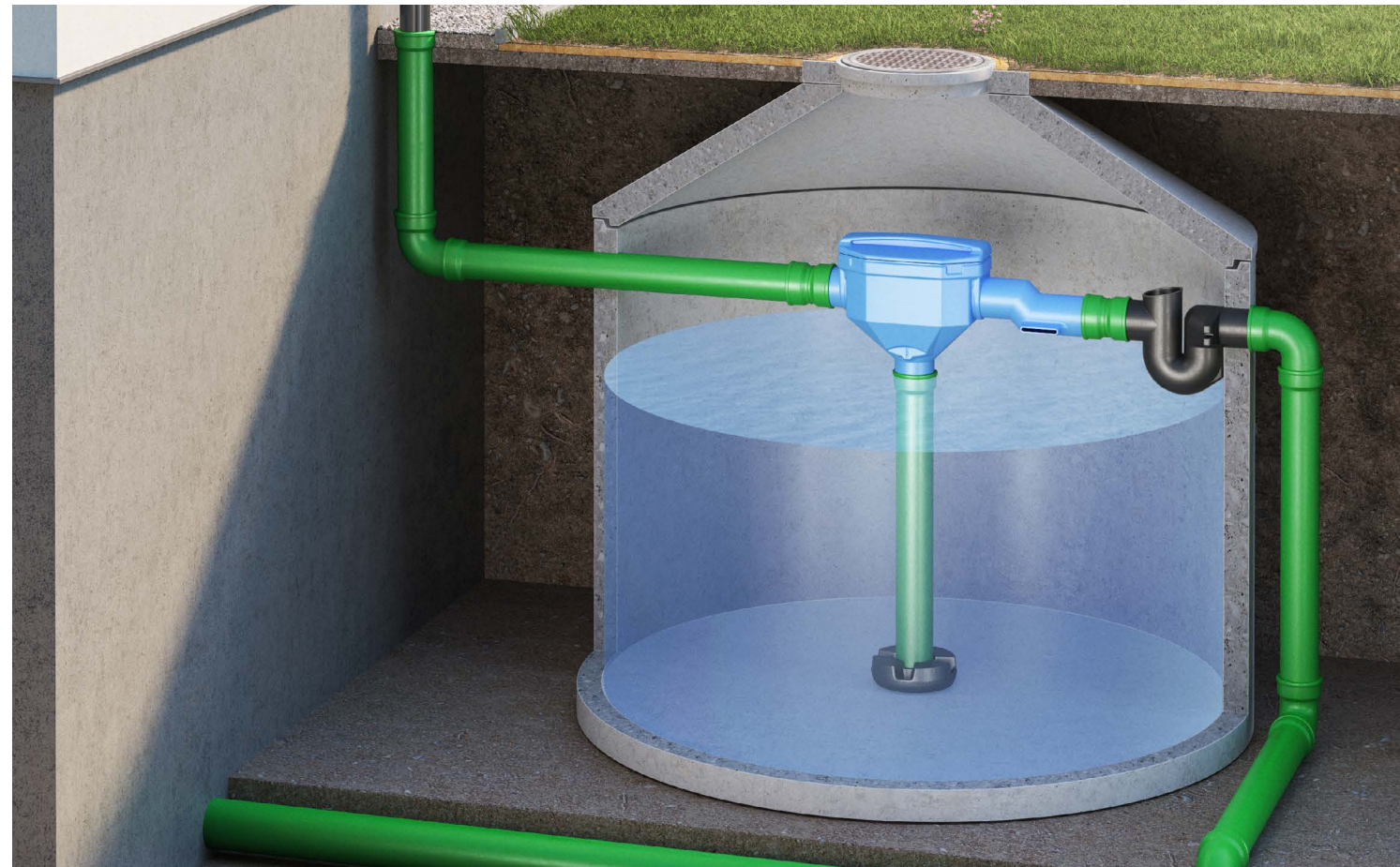


3P special-kit PSF 150 Art.-No. 1000275

3P Premium Skimmer Filter + 3P Calmed Inlet Round DN150
+ 3P Overflow Siphon DN150



- Rainwater filter type C according to DIN 1989 -2
- Skimmer effect due to two specially shaped overflow openings
- Inlet connection DN 150
- Outlet into the storage tank DN 150
- Height difference between inlet and outlet: 70 mm
- Material filter screen: stainless steel 1.4301
- Material housing: polyethylene
- Mesh size 0.39 x 0.98 mm
- Dimensions: L: 1131 x W: 590 mm



BASKET FILTER

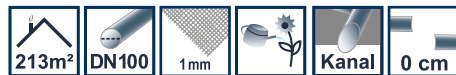
A filter for installation in the cistern.
Characterised by the fact that it allows the purified
water to enter the tank and collects the solids.





3P Basket filter

Art.-No. 1000618



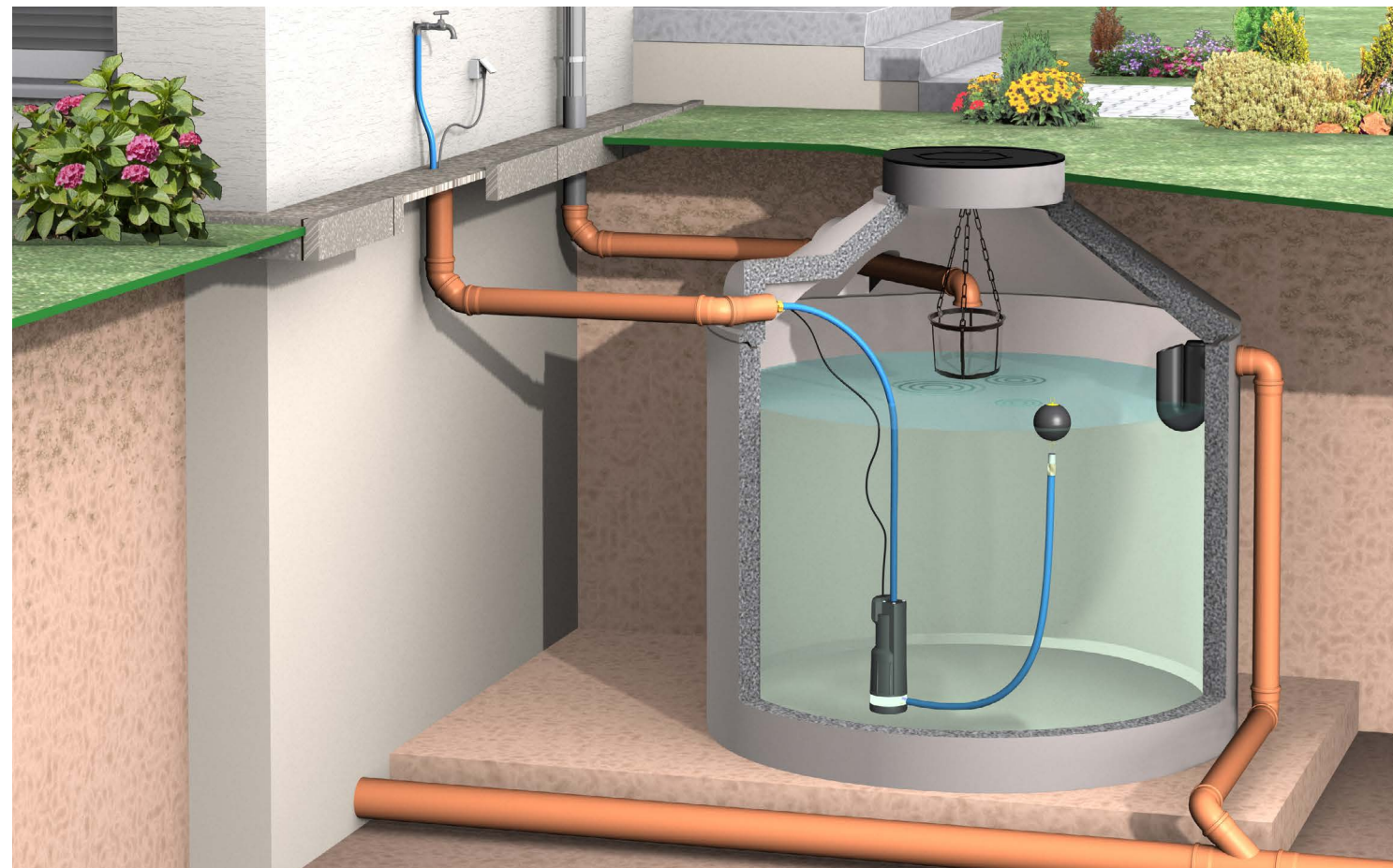
Rainwater filter with dirt trap basket for installation in the rainwater storage tank. The 3P basket filter is ideal for systems that are only intended for garden irrigation.



- Connection capacity: 213 m² roof area
- Material filter basket: polyethylene
- Fastening set included
- Plastic chain 1 m included
- Mesh size: 1 mm
- Dimension basket: Ø 300 x 240 mm

3P special-kit BF Art.-No. 1000621

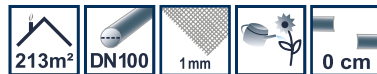
3P basket filter + 3P overflow siphon DN 100 standard





3P Flat-tank filter

Art.-No. 1000614



Rainwater filter with basket dirt trap for installation in your low-profile rainwater tank. The filter basket is attached onto the connection outlet pipe with a push fit gasket. The weight of the basket and the design of the connection seals the filter in place. The filter basket can be easily removed and reinserted using the removal rod.

The 3P Low-Profile Tank Filter is ideal for installations strictly intended for garden watering.

- Rainwater filter according to DIN 1989-2, type B
- Inlet connection: DN 100
- Connection capacity: 213 m² roof area
- Material filter basket: polyethylene
- Dimensions of basket: Ø 410 x 185 mm
- Mesh size: 1 mm
- Overall dimensions: Ø 410 x W: 920 x H: 190 mm



3P special-kit FF Art.-No. 1000616

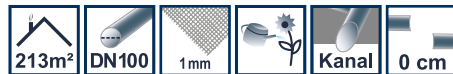
3P flat tank filter + 3P overflow siphon DN 100
Standard





3P Garden filter S

Art.-No. 1000760



Rainwater filter with integrated dirt trap for installation in existing rainwater storage tanks with small inspection opening and where space is limited. The dirt trap made of plastic is mounted in the housing in such a way that it can be easily removed by means of the removal rod, which is also attached directly to the cover.

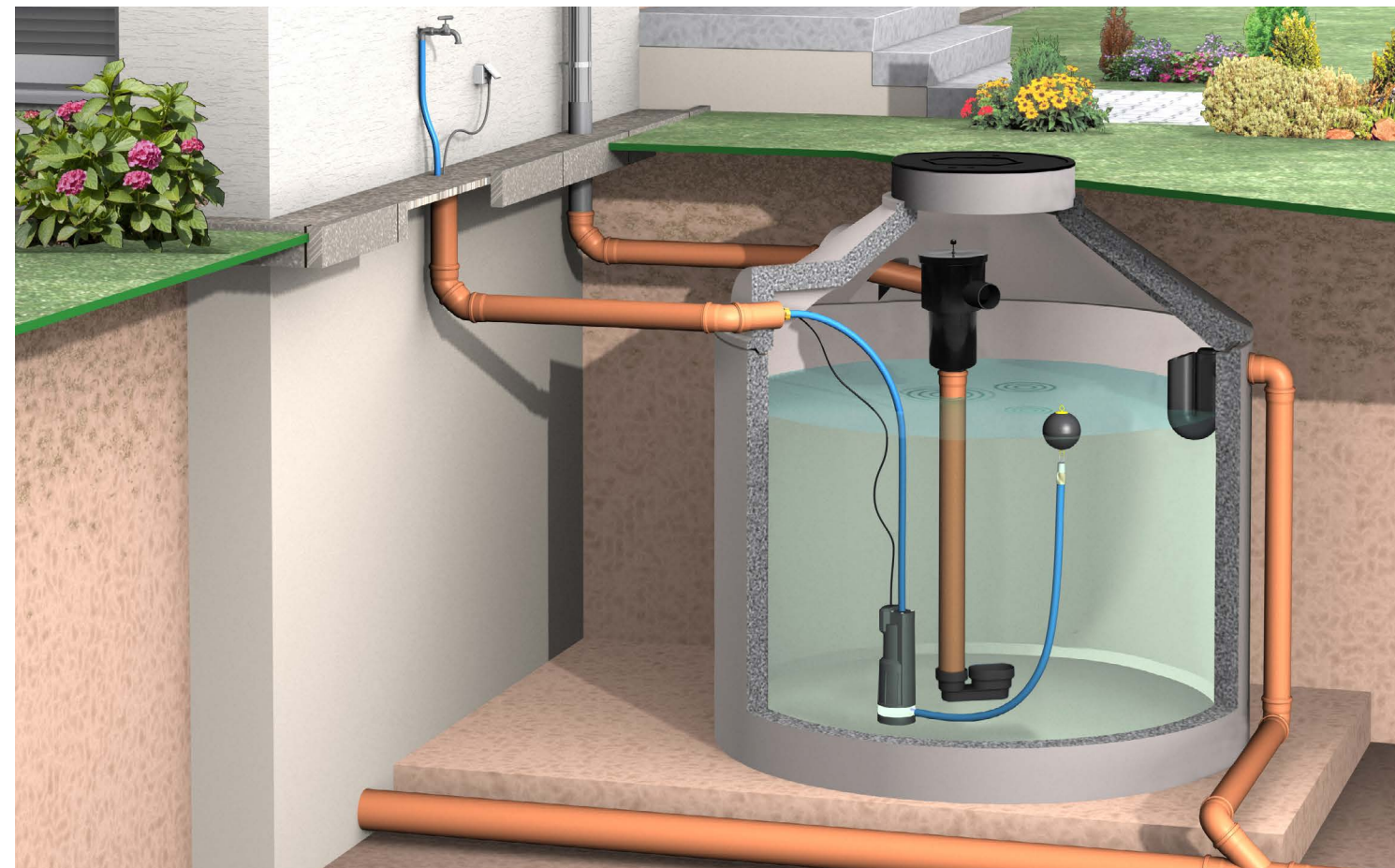
The 3P Garden Filter S is ideal for systems that are only intended for garden irrigation.



- Rainwater filter according to DIN 1989-2, type B
- Inlet connection: DN 100
- Outlet into the storage tank: DN 100
- Emergency overflow or further inlet: DN 100
- Connection capacity: 213 m² roof area
- Filter basket material: polyethylene
- Mesh size: 1 mm
- Dimensions: Ø 260 x W: 360 x H: 540 mm

3P special-kit GS Art.-No. 1000765

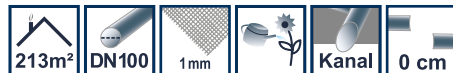
3P Garden Filter S + 3P Calmed Inlet
+ 3P Overflow Siphon DN 100 Standard





3P Garden filter

Art.-No. 1000600



Rainwater filter with integrated dirt trap for installation in the rainwater storage tank. The plastic dirt trap is mounted in the housing so that it can be housing in such a way that it can be easily removed by means of the removed by the removal rod.

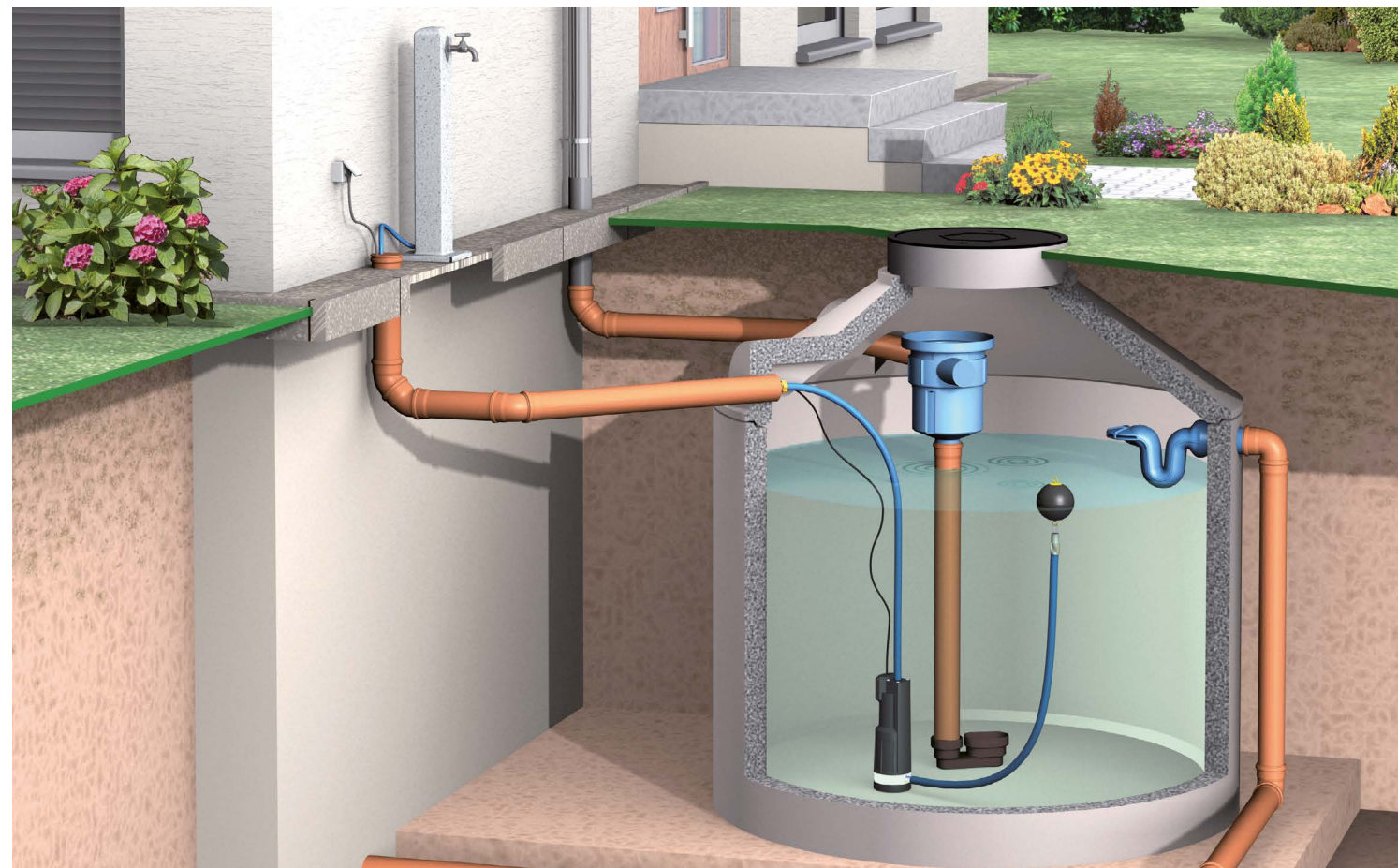
The 3P Garden filter is ideal for systems that are only intended for garden irrigation.



- Rainwater filter according to DIN 1989-2, type B
- Inlet connection: DN 100
- Outlet into the storage tank: DN 100
- Emergency overflow or further inlet: DN 100
- Connection capacity: 213 m² roof area
- Dimensions of housing: Ø 390 x H: 515 mm
- Material filter basket: polyethylene
- Material housing: polyethylene
- Mesh size: 1 mm
- Dimensions basket: Ø 305 x H: 245 mm

3P special-kit GF Art.-No. 1000666

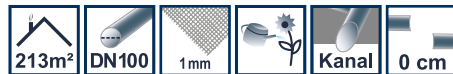
3P Garden Filter + 3P Calmed Inlet
+ 3P Overflow Siphon UNO Concrete





3P Garden basket filter

Art.-No. 1000609



Rainwater filter with integrated dirt trap for installation in the rainwater storage tank. The plastic dirt trap is attached to the housing in such a way that it can be easily removed by means of the removal rod.

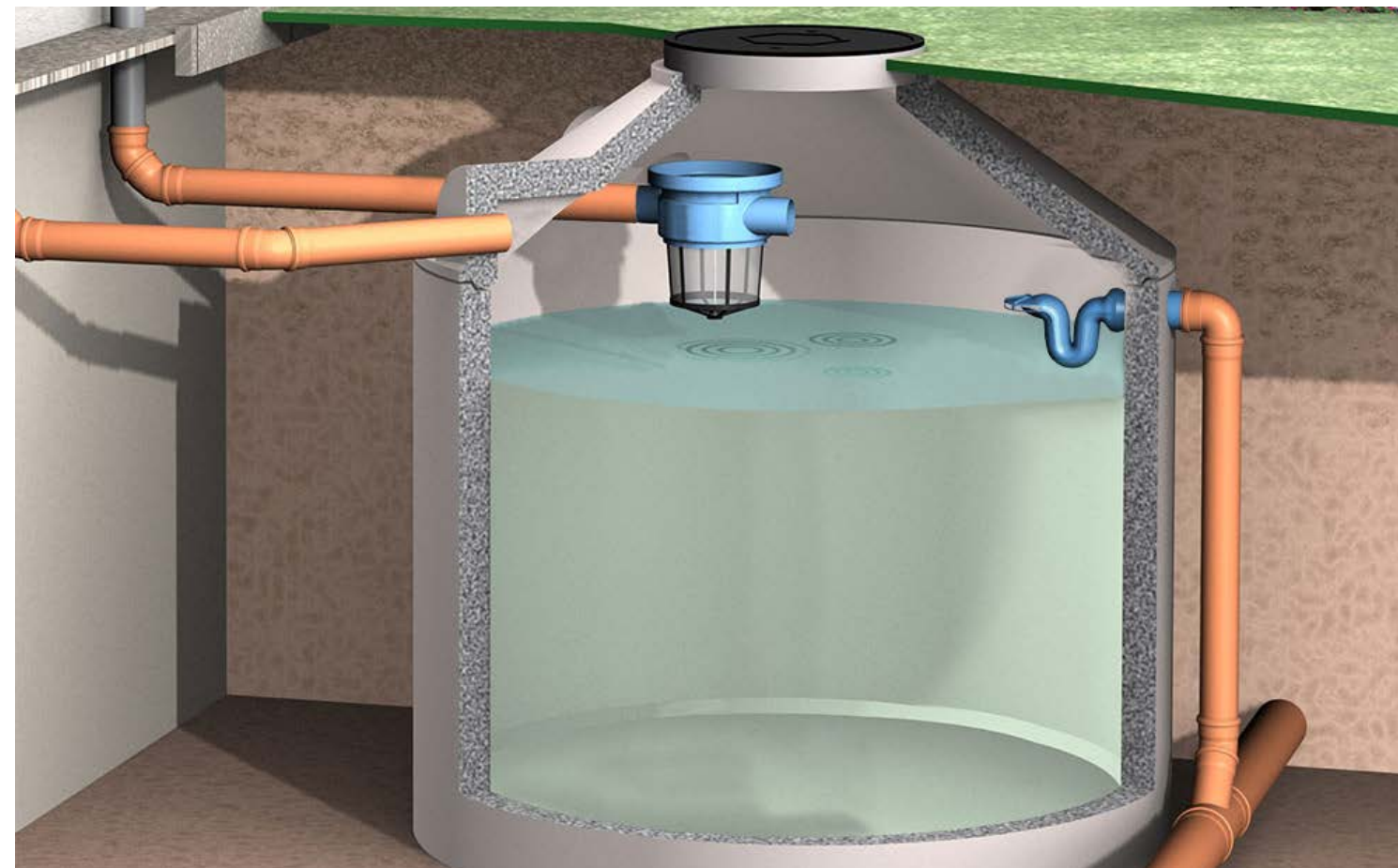
The 3P garden basket filter is ideal for systems that are only intended for garden irrigation.



- Rainwater filter according to DIN 1989-2, type B
- Inlet connection: DN 100
- Outlet into the storage tank: DN 100
- Emergency overflow or further inlet: DN 100
- Connection capacity: 213 m² roof area
- Dimensions of housing: Ø 390 x H: 135 mm
- Material filter basket: polyethylene
- Material housing: polyethylene
- Mesh size: 1 mm
- Dimensions basket: Ø 305 x H: 245 mm

3P special-kit GBF Art.-No. 1000628

3P Gartenfilter + 3P Overflow Siphon UNO Concrete





3P Retention & Infiltration filter

Art.-No. 1000630



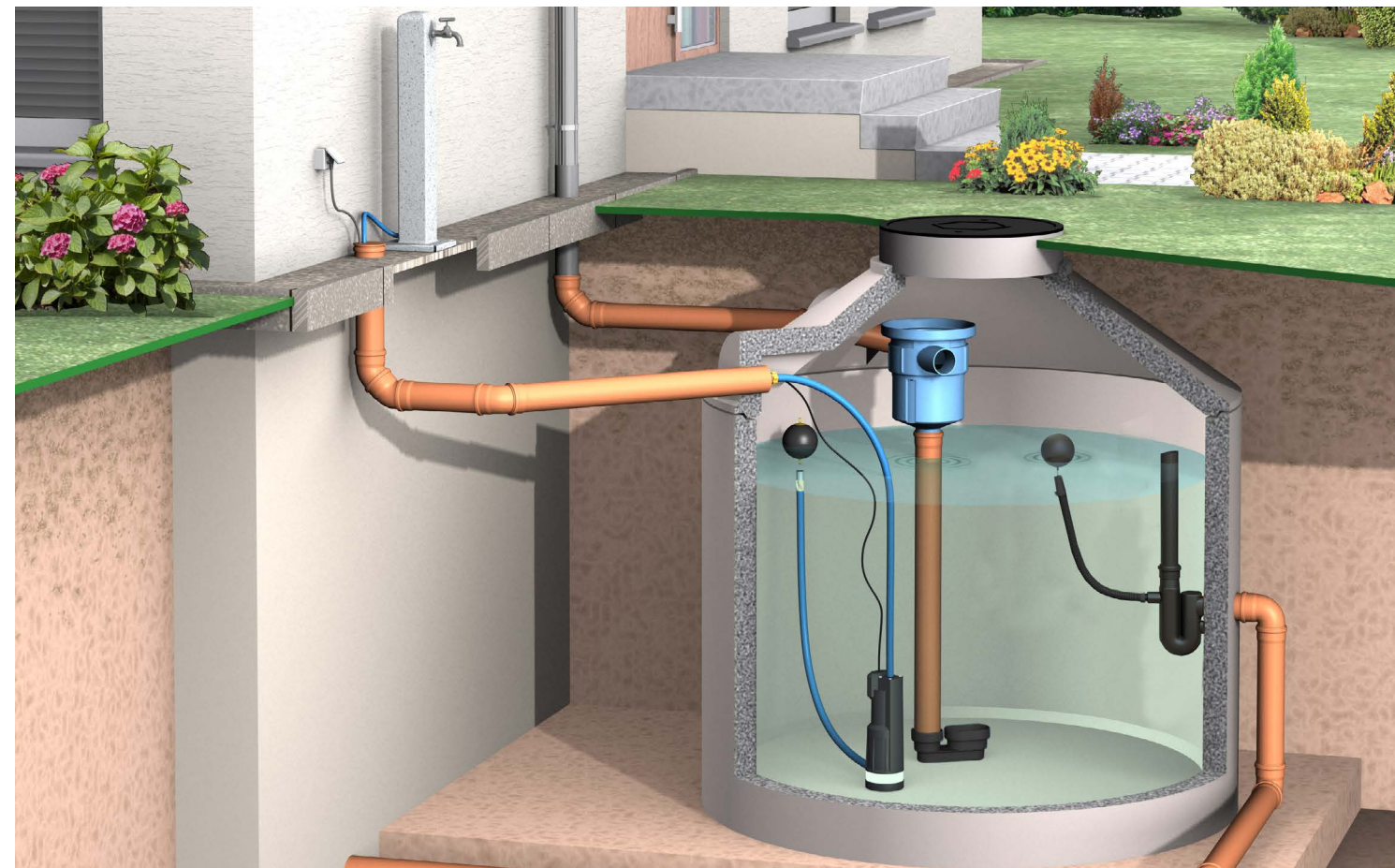
Rainwater filter with integrated dirt trap for installation in the rainwater storage tank. The stainless steel dirt trap is mounted in the housing in such a way that it can be easily removed via the removal rod.

The 3P retention and infiltration filter is ideal for systems that use the purified rainwater for toilets, washing machines and garden irrigation and where the water is fed into the natural water cycle via an infiltration system. Thus, the filter is also suitable in cases where no connection to the sewer is possible to drain off excess rainwater or where the excess water may only be fed into the sewer via a Attenuation flow regulator.

- Rainwater filter according to DIN 1989-2, type B
- Inlet connection: DN 100
- Outlet into the storage tank: DN 100
- Emergency overflow or further inlet: DN 100
- Dimensions of housing: Ø 390 x 515 mm
- Material filter basket: stainless steel 1.4301
- Mesh size: 0.55 mm
- Dimensions basket: Ø 305 x H: 245 mm



Matching:
3P Attenuation flow regulator with overflow siphon 1" to 4" on page 110-111





3P Garden filter L DN100 3P Garden filter L DN125

Art.-No. 1000155

Art.-No. 1000150



Our new 3P garden filter L DN 100 and DN 125 with its larger effective filter area offers the possibility to clean the water even from larger areas safely and with the highest possible flow volume.

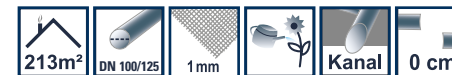
With the connection widths DN 100 and DN 125, a connectedn area of up to 387m² can be safely collected and cleaned. Due to the mesh width of 1mm, all larger particles are retained in the collection basket and the water can be safely used for garden irrigation.

It is characterised above all by the possibility of using it in manhole shafts and thus offers a maximum of flexibility and areas of application.

- Inlet connection: DN 100 / DN 125
- Connection capacity:
213 m² / 387 m² roof area
- The purified water can be used for
garden irrigation
- Dimensions housing: Ø: 460 x W: 460 mm
- Material filter basket: polyethylene
- Material housing: polyethylene
- Mesh size: 1 mm
- Dimensions basket: Ø 410 x 190 mm

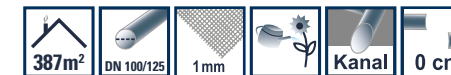
3P Garden filter L DN100

Art.-No. 1000155



3P Garden filter L DN125

Art.-No. 1000150

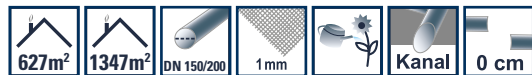


3P Garden filter XL DN150

Art.-Nr. 1000670

3P Garden filter XL DN200

Art.-Nr. 1000673



Rainwater filter with integrated dirt trap for installation in the rainwater storage tank. The dirt trap made of plastic is mounted in the housing in such a way that it can be easily removed via the removal rod. The 3P Garden Filter XL is ideal for systems that are only intended for garden irrigation.

The two upper pipe connections DN 150 or DN 200 can be used as feed or optionally as emergency overflows. The inlet to the rainwater storage tank is via the lower connection piece, to which a 3P calmed inlet can also be attached.



- Inlet connection: DN 150 / DN 200
- Connection capacity: 627 m² / 1347 m² roof area
- The purified water can be used for garden irrigation
- Dimensions of housing: L: 785 x W: 815 mm
- Material filter basket: polyethylene
- Material housing: polyethylene
- Mesh size: 1 mm
- Dimensions basket: Ø 410 x 275 mm

3P special-kit GF XL DN200 Art.-No. 1000674

3P Garden Filter XL + 3P Calmed Inlet DN200
+ 3P Overflow siphon DN200 with rodent barrier

**3P special-kit GF XL DN150** Art.-No. 1000664

3P Garden Filter XL + 3P Calmed Inlet DN 150
+ 3P Overflow siphon DN150 with rodent barrier





3P Retention & Infiltration Filter XL DN150

Art.-No. 1000675

3P Retention & Infiltration Filter XL DN200

Art.-No. 1000676



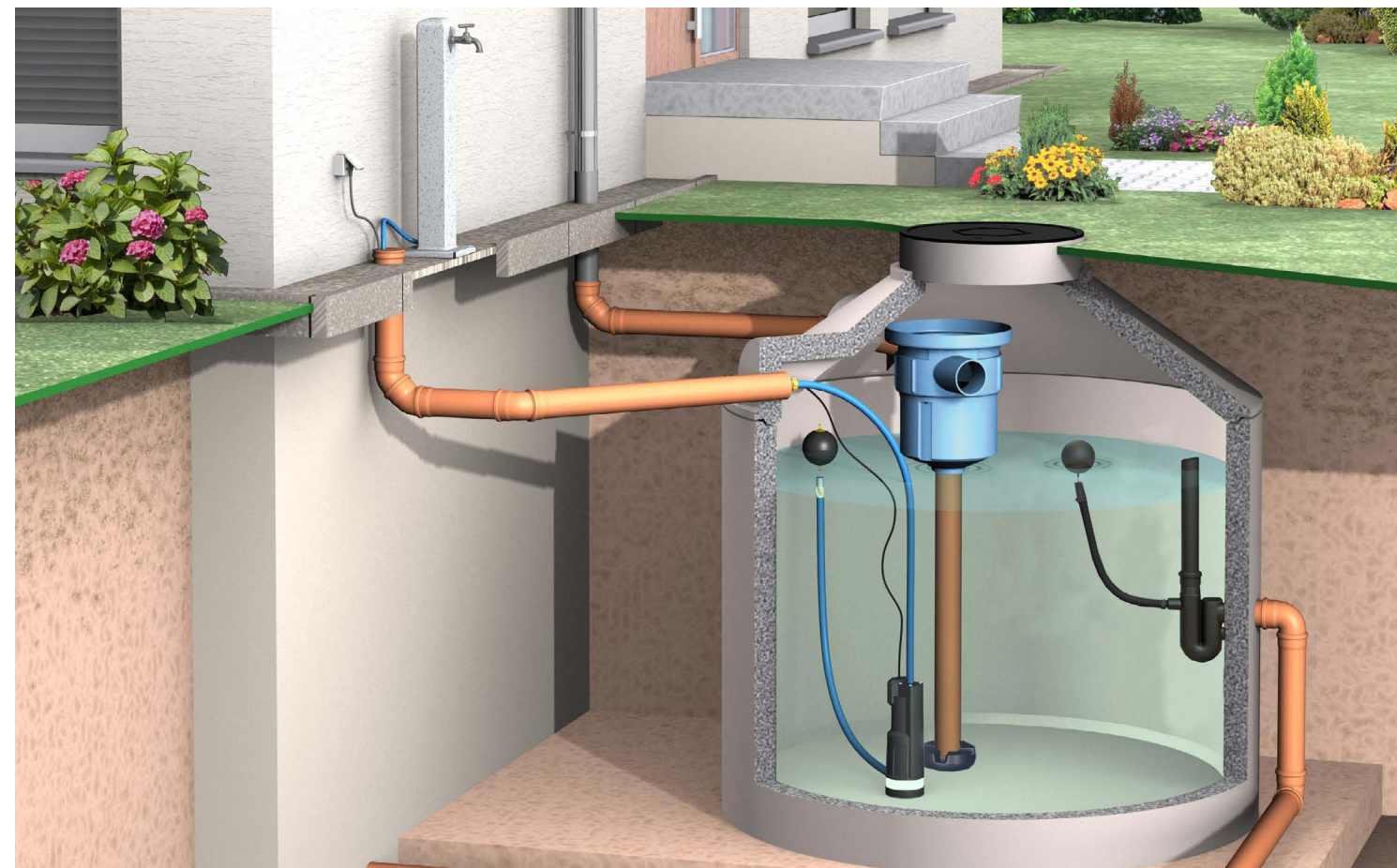
Rainwater filter with integrated dirt trap for installation in the rainwater storage tank. The stainless steel dirt trap is mounted in the housing in such a way that it can be easily removed via the removal rod. The 3P retention and infiltration filter XL is ideal for systems that use the treated rainwater for toilets, washing machines and garden irrigation and where the excess water must be infiltrated on the property.

The two upper DN 150 or DN 200 connections can be used as an inlet or optionally as an emergency overflow.

- Inlet connection: DN 150 / DN 200
- Connection capacity:
627 m² / 1347 m² roof area
- Dimensions of housing: L: 785 x W: 815 mm
- Material filter basket: stainless steel
- Material housing: polyethylene
- Mesh size: 0.55 mm
- Dimensions basket: Ø 410 x H: 275 mm



Matching:
**3P Attenuation flow regulator with overflow
siphon 1" to 4" on page 110-111**



RAINWATER FILTER GROUND INSTALLATION

A filter for installation in front of a cistern.
Characterised by the fact that it allows the cleaned water into the tank and separates or collects the solids in the sewer system; the installation is also different. Here, the installation can be either in the ground or in a manhole.





3P Volume filter VF1

Art.-No. 1000580

with telescopic extension



Rainwater filter for installation in the ground in front of the rainwater storage tank. Equipped with a plastic shaft that can be moved in itself. So the telescopic extension allows the height conditions during installation on site. If necessary, the telescopic extension can also be shortened. It is also possible to place several extensions on top of each other.

Due to its 2-stage cleaning principle (first Pre-cleaning, then fine cleaning), the 3P volume filter VF1 has a high efficiency independent of the volume flow. Due to the steep position of the filter insert, the filtered-out solids are continuously flushed towards the sewer.

- Rainwater filter according to DIN 1989-2, type C
- Inlet connection: 2x DN 100
- Outlet into the storage tank: DN 100
- Outlet into the sewer: DN 125
- Height difference between inlet and outlet: 300 mm
- Dimensions of housing: Ø 390 x W: 550 x H:1050 mm
- Material filter insert: stainless steel 1.4301
- Mesh size: 0.25 x 0.60 mm
- Material cascade insert: polyethylene
- Dimensions filter: 404 x 451 mm

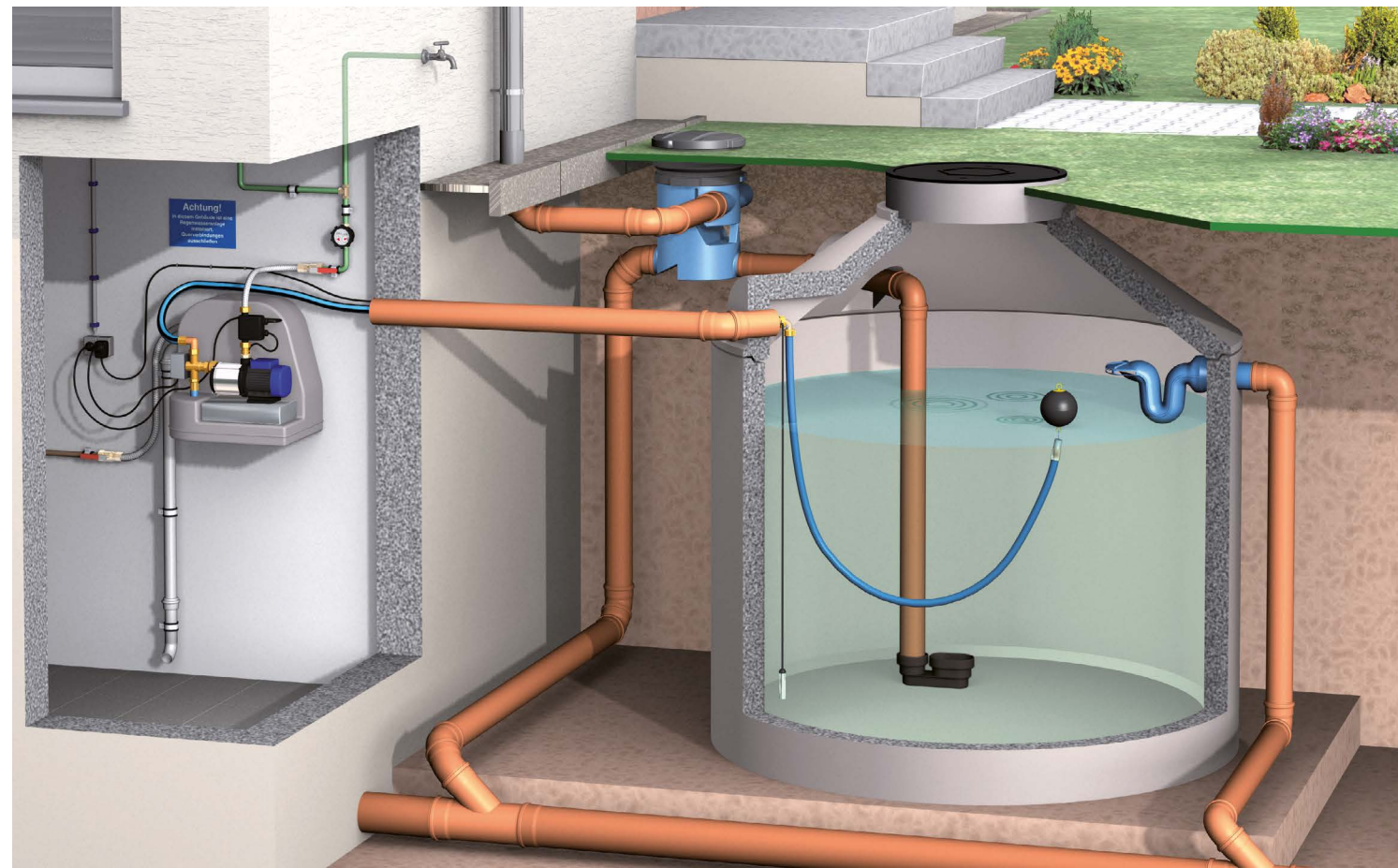


also with
drivable
cover available - Page 71



3P special-kit VF1 T Art.-No. 1000555

3P Volume filter VF1 + 3P Telescopic extension
+ 3P Calmed inlet + 3P Overflow siphon UNO Concrete

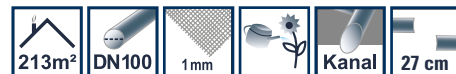




3P Garden filter

Art.-No. 1000625

with telescopic extension



Rainwater filter with integrated dirt trap for installation in front of the rainwater storage tank. Equipped with a plastic shaft that can be moved in itself. This allows the telescopic extension to be easily adjusted to the height conditions during installation on site. If required, the telescopic extension can also be shortened. It is also possible to place several extensions on top of each other.

The dirt trap made of plastic is mounted in the housing in such a way that it can be easily removed via the removal rod. The 3P garden filter is ideal for systems that are only intended for garden irrigation.

The two upper DN 100 connections can be used as feed or optionally as emergency overflow. The inlet to the rainwater storage tank is via the lateral connection piece, to which a 3P calmed inlet can also be attached.

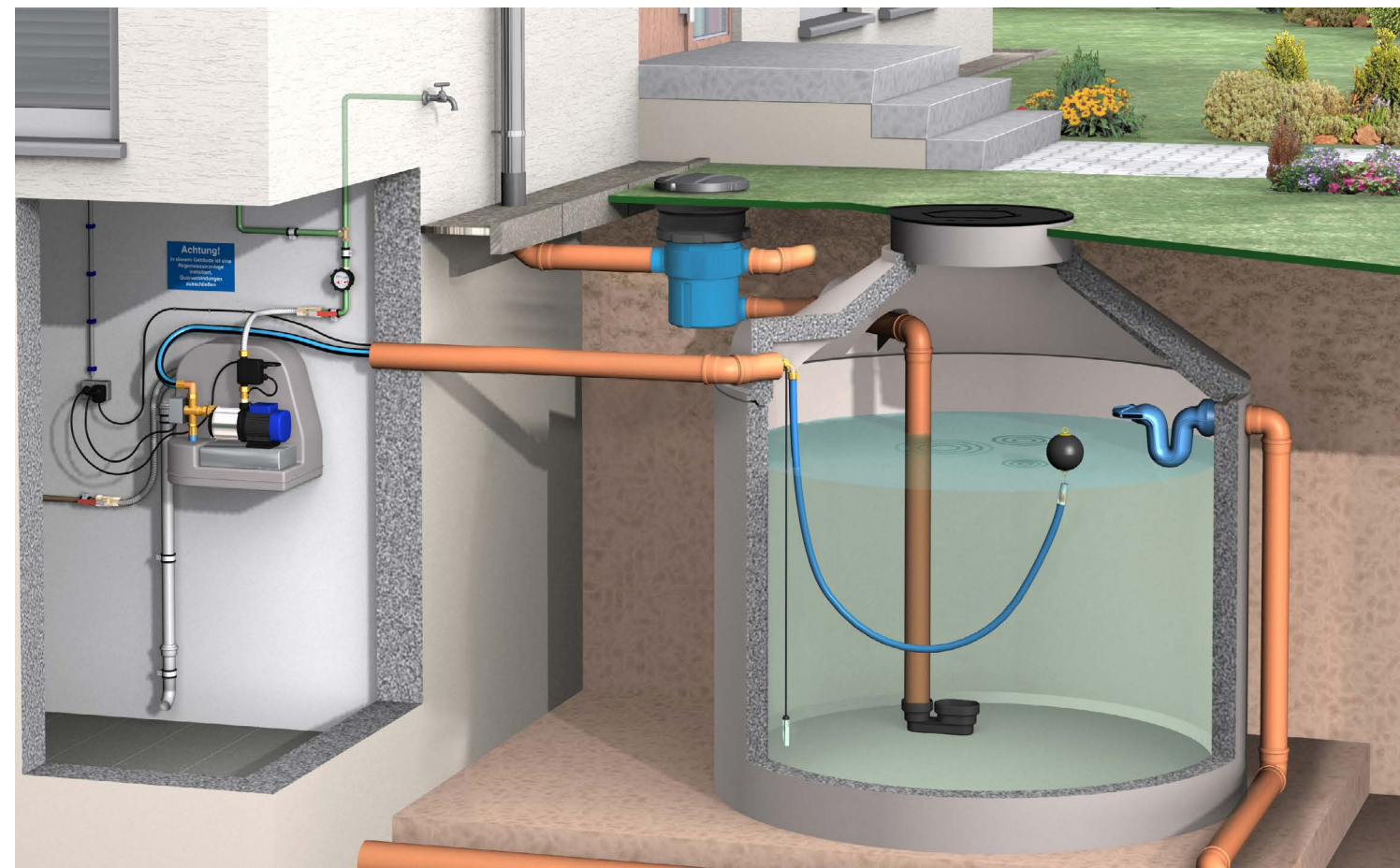
- Inlet connection: DN 100
- Connection capacity: 213 m² roof area
- The purified water can be used for garden irrigation
- Height difference between inlet and outlet: 220 mm
- Dimensions of housing: Ø 386 x W: 575 x H: 1075 mm
- Material filter insert: polyethylene
- Material housing: polyethylene
- Dimensions basket: Ø 305 x H: 245 mm
- Mesh size: 1 mm

also with
drivable
cover available - Page 71



3P special-kit GFT Art.-No. 1000661

3P Garden Filter + 3P Telescopic Extension + 3P Calmed Inlet
+ 3P Overflow Siphon UNO Concrete





3P Retention & Infiltration filter with telescopic extension

Art.-Nr. 1000626



Rainwater filter with integrated dirt trap for installation in front of the rainwater storage tank. Equipped with a plastic shaft that can be moved in itself. This allows the telescopic extension to be easily adjusted to the height conditions during installation on site. If necessary, the telescopic extension can also be shortened. It is also possible to place several extensions on top of each other.

The stainless steel dirt trap is mounted in the housing in such a way that it can be easily removed via the removal rod.

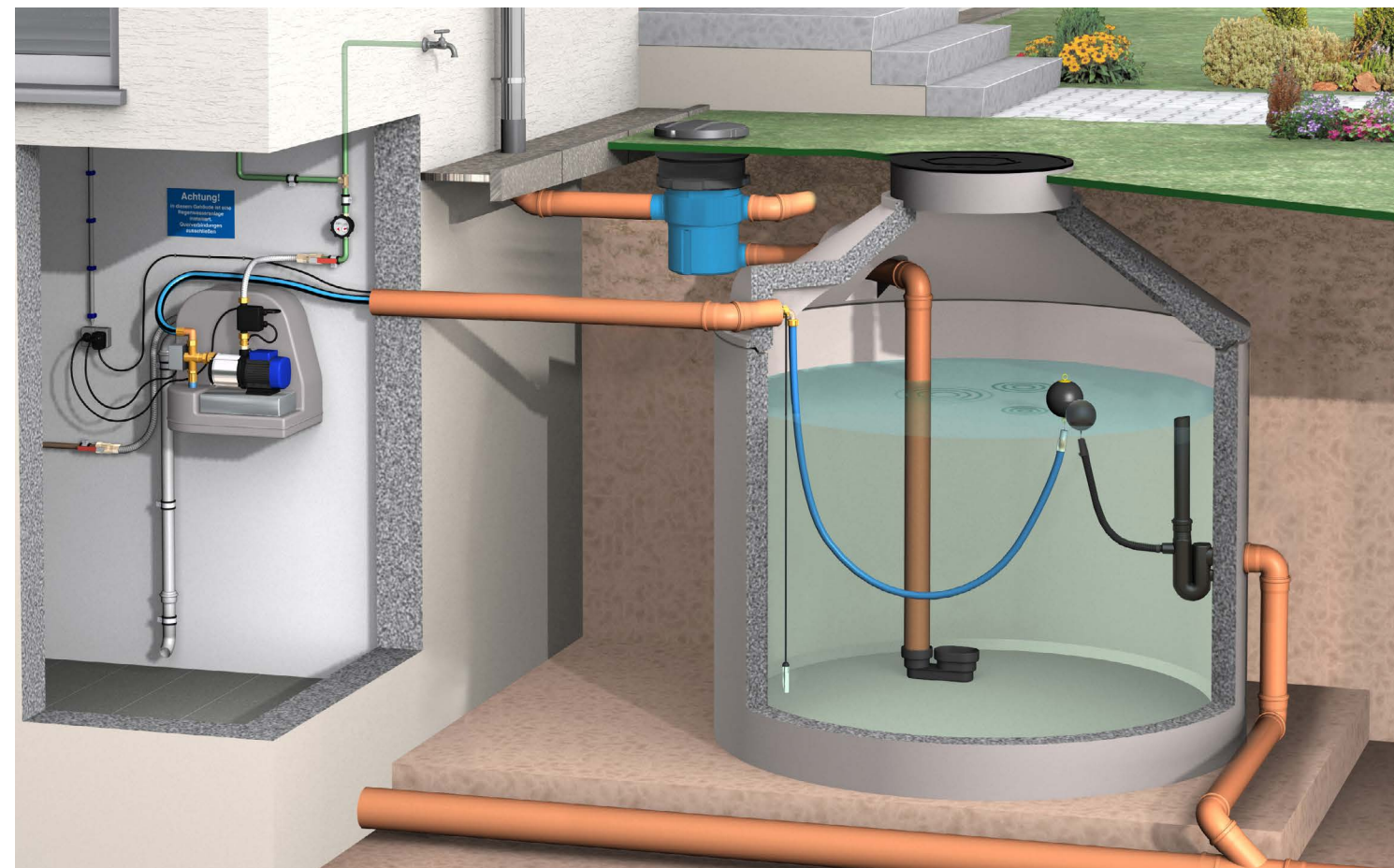
The 3P retention and infiltration filter is ideal for systems that use the treated rainwater for toilets, washing machines and garden irrigation and where the excess water must be infiltrated on the property because no sewer connection is possible water may only be discharged into the sewer via a Attenuation flow regulator.

- Rainwater filter according to DIN1989-2, type B
- Inlet connection: DN 100
- Outlet into the storage tank: DN 100
- Emergency overflow or further inlet: DN 100
- Height difference between inlet and outlet: 270 mm
- Dimensions of housing: Ø 386 x W: 575 x H: 1075 mm
- Material filter basket: stainless steel 1.4301
- Material housing: polyethylene
- Mesh size: 0.55 mm
- Dimensions basket: Ø 305 x H: 245 mm



Matching:
3P Attenuation flow regulator with overflow siphon 1" to 4" on page 110-111

also with
drivable
cover available - Page 71





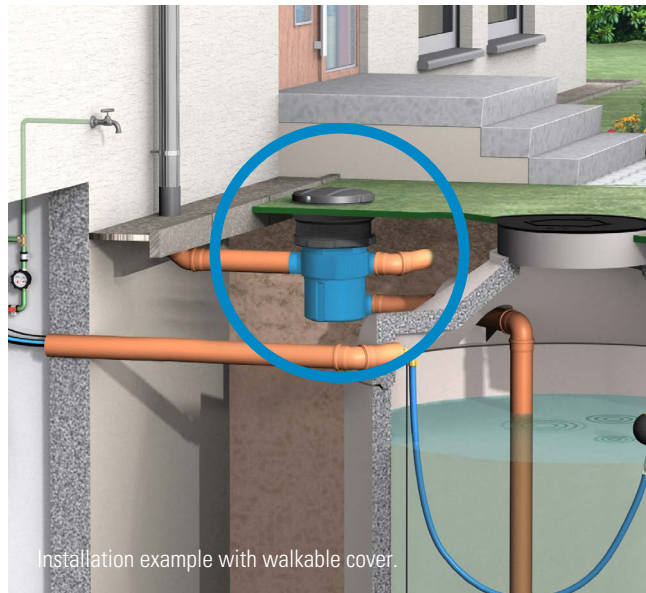
3P Telescopic extension

Art.-No. 1000562

Without lid

The 3P telescopic extension is a plastic shaft that can be moved in itself for the extension of filters that are installed in the ground. Allows easy adjustment to the height conditions during installation on site. It is possible to place several extensions on top of each other. If necessary, the telescopic extension can also be shortened.

- Dimensions: Ø 500 mm
- Height: from 380 mm to 600 mm



Installation example with walkable cover.

suitable:



3P Walkable cover for Telescopic extension

Art.-No. 1000564

Cover suitable for 3P telescopic extension, walkable.

- Dimensions: Ø 500 mm



3P Adapter ring incl. drivable cover passable for telescopic extension

Art.-No. 1000563

For the installation of your rainwater harvesting system, it is sometimes not possible to move out of a zone with motor vehicle traffic. In this case, the installation of in-tank filters is usually the only option, because conventional solutions with telescopic extensions are not designed for traffic.

With our new 3P adapter ring, we solve this challenge for you. The adapter is shaped in such a way that it can accommodate the telescopic extension on one side and a driveable cover on the other. The design absorbs the forces that arise and diverts them into the ground. So you can achieve an optimum utilisation volume in your cistern by using a pre-tank filter.

- Dimensions: Ø 540 mm to Ø 710 mm



NEW

RAINWATER FILTER INSTALLATION IN THE MANHOLE

A filter for installation in front of the cistern. Characterised by the fact that it is installed in a separate manhole. With an external bypass, it separates or collects the solids and lets the cleaned water into the tank. Here, the installation can take place in a pre-shaft.



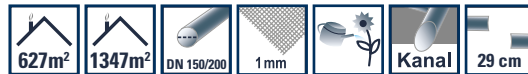


3P Garden filter XL DN150

Art.-No. 1000683

3P Garden filter XL DN200

Art.-No. 1000687



Rainwater filter with integrated dirt trap for installation in front of the rainwater storage tank. The plastic dirt trap is mounted in the housing in such a way that it can be easily removed via the removal rod. The 3P Garden Filter XL is ideal for systems that are only intended for garden irrigation.

The two upper inlets DN 150 or DN 200 can be used as feed or optionally as emergency overflows. The inflow into the rainwater storage tank is via the lateral connection piece, to which a 3P Calmed Inlet can also be attached.

- Inlet connection: DN 150 / DN 200
- Connection capacity: 627 m² / 1347 m² roof area
- Height difference between inlet and outlet: 290 mm
- Dimensions of housing: W: 785 x H: 660 mm
- Filter basket material: Polyethylene
- Material housing: polyethylene
- Mesh size: 1 mm
- Dimensions filter basket: Ø 410 x H: 275 mm

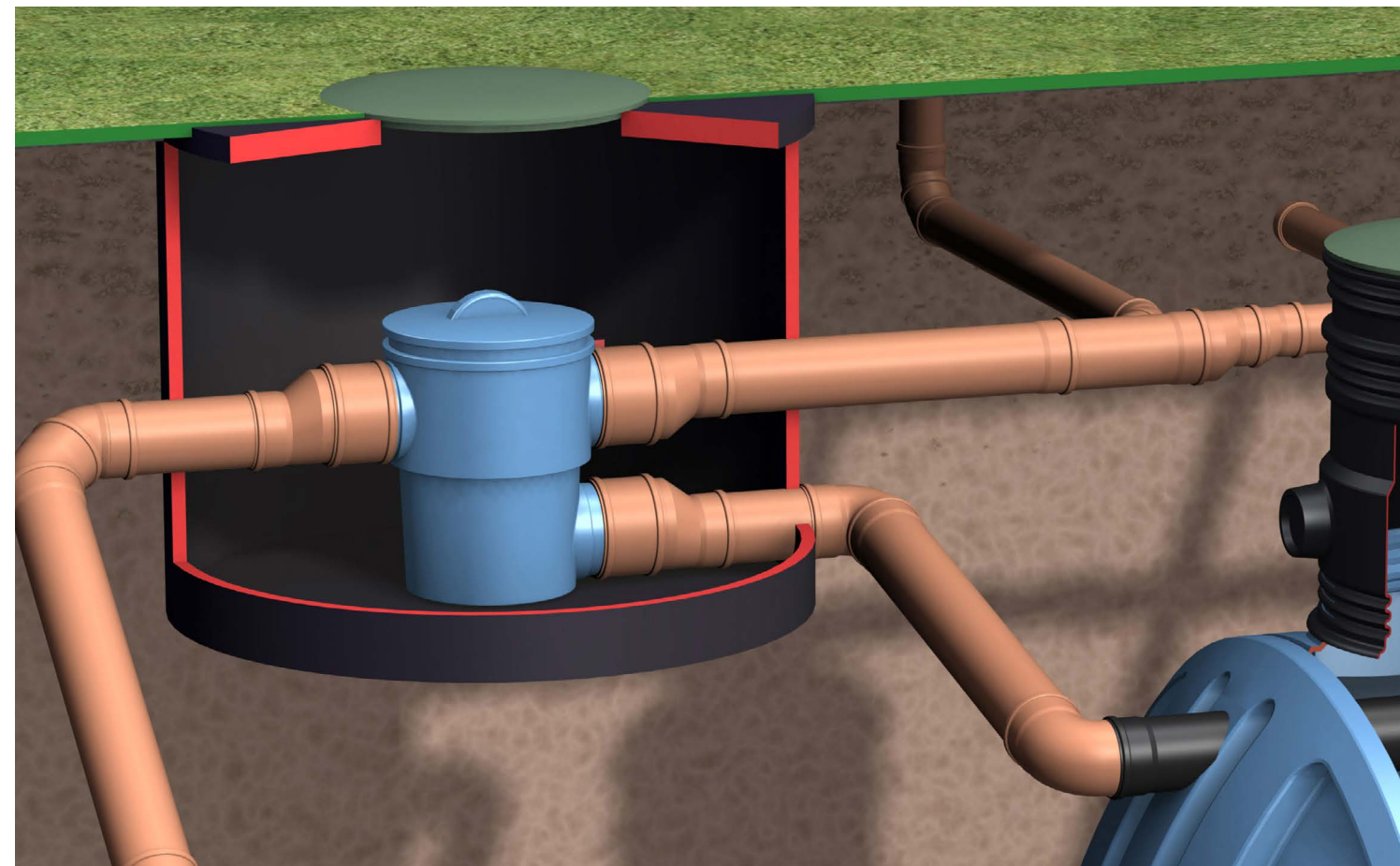
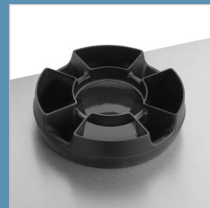
3P special-kit GF XL DN200 Art.-No. 1000695

3P Garden Filter XL Concrete Pit + 3P Calmed Inlet DN200 + 3P Overflow siphon DN200 with rodent barrier



3P special-kit GF XL DN150 Art.-No. 1000684

3P Garden Filter XL + 3P Calmed Inlet DN150 + 3P Overflow siphon DN150 with rodent barrier





3P Retention & infiltration filters XL DN150

Art.-No. 1000689

3P Retention & infiltration filters XL DN200

Art.-No. 1000694



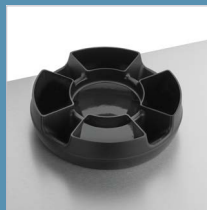
Rainwater filter with integrated dirt trap for installation in front of the rainwater storage tank. The stainless steel dirt trap is mounted in the housing in such a way that it can be easily removed via the removal rod.

The 3P Retention and Infiltration Filter XL is ideal for systems that use the treated rainwater for toilets, washing machines and garden irrigation and where the excess water must be infiltrated in the ground. The two upper DN 150 or DN 200 connection can be used as a feed or optionally as an emergency overflows.



3P special-kit VSF XL DN150 Art.-No. 1000691

3P Retention & Infiltration Filter XL DN150 + 3P Calmed Inlet DN150 + 3P Overflow siphon DN150 with rodent barrier

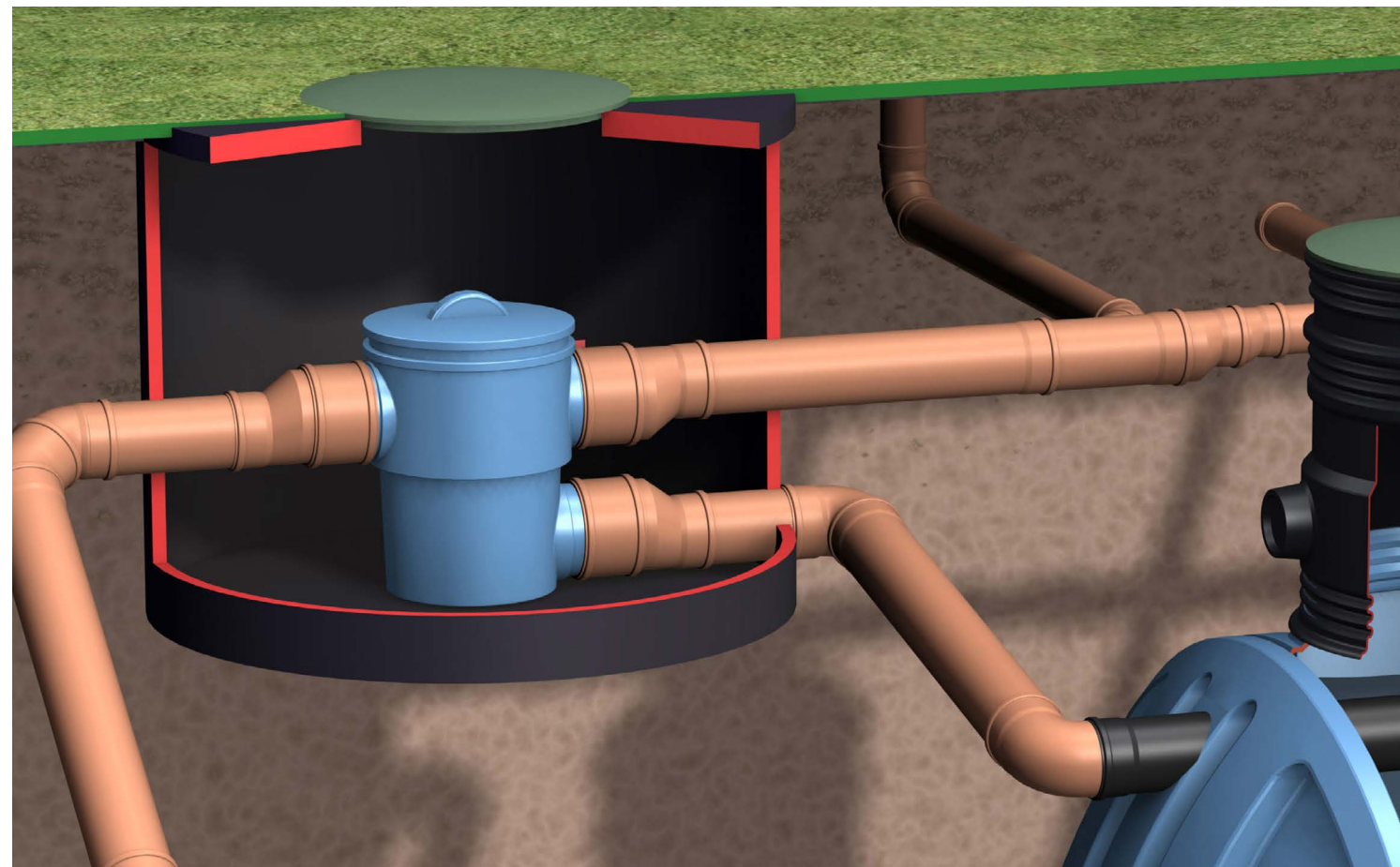


3P special-kit VSF XL DN200 Art.-No. 1000693

3P Retention & Infiltration Filter XL DN200 + 3P Calmed Inlet DN200 + 3P Overflow siphon 200 with rodent barrier



- Inlet connection: DN 150 / DN 200
- Connection capacity: 627 m² / 1347 m² roof area
- Dimensions of housing: W: 785 x H: 660 mm
- Material filter basket: stainless steel
- Material housing: polyethylene
- Mesh size: 0.55 mm
- Dimensions filter basket: Ø 410 x 275 mm





3P Twin filter

Art.-No. 1000650



Rainwater filter for larger roof areas. The 3P Twinfilter can be installed in a pre-shaft or directly on the wall in frost-free regions. Standard concrete manholes (Ø 1000 mm) are usually used. The filter can be delivered to the construction site pre-assembled in the shaft.

Due to its 2-stage cleaning principle, it has a high degree of efficiency independent of the volume flow. Due to the steep position of the filter inserts, the filtered-out dirt is continuously flushed towards the sewage system. The clean water is collected in a tank and fed into the storage tank.

- Connection capacity: 426 m² roof area with 2x DN 100 and 2x drain DN 100
- Connection capacity: 1254 m² roof area with 2x DN 150 and 2x drain DN 150
- By means of a bypass installation, a larger a larger connection area is possible
- Rainwater filter according to DIN 1982-2, type C
- Rainwater inlet: 2x DN 100 / DN 150
- Inlet rainwater storage tank: 2x DN 100 / DN 150
- Outlet into the sewer: 2x DN 100 / DN 150
- Height difference between inlet and outlet: 500 mm
- Material housing and cascades: Polyethylene
- Material filter insert: stainless steel 1.4301
- Mesh size: 0.39 x 0.98 mm

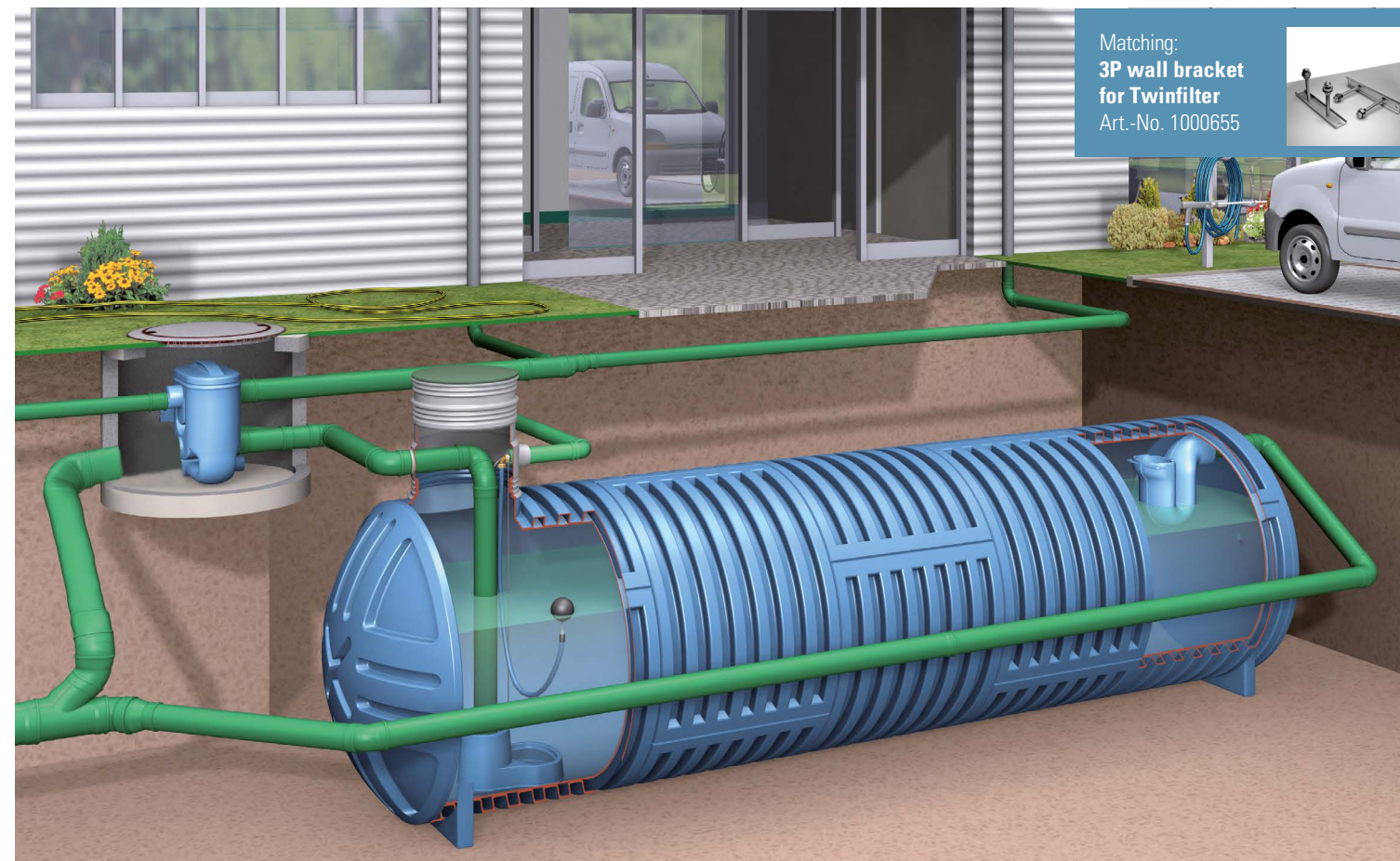


3P special-kit TF Art.-No. 1000660

3P Twinfilter + 3P Calmed Inlet
DN150 + 3P overflow siphon DN150 with rodent barrier



Matching:
**3P wall bracket
for Twinfilter**
Art.-No. 1000655





3P Volume filter VF2

Art.-No. 1000700



Rainwater filter for larger roof areas. The 3P volume filter VF2 must be installed in a pre-shaft (Ø 1000 mm). As a rule, standard concrete manholes are used. The filter can be delivered to the construction site pre-assembled in the shaft.

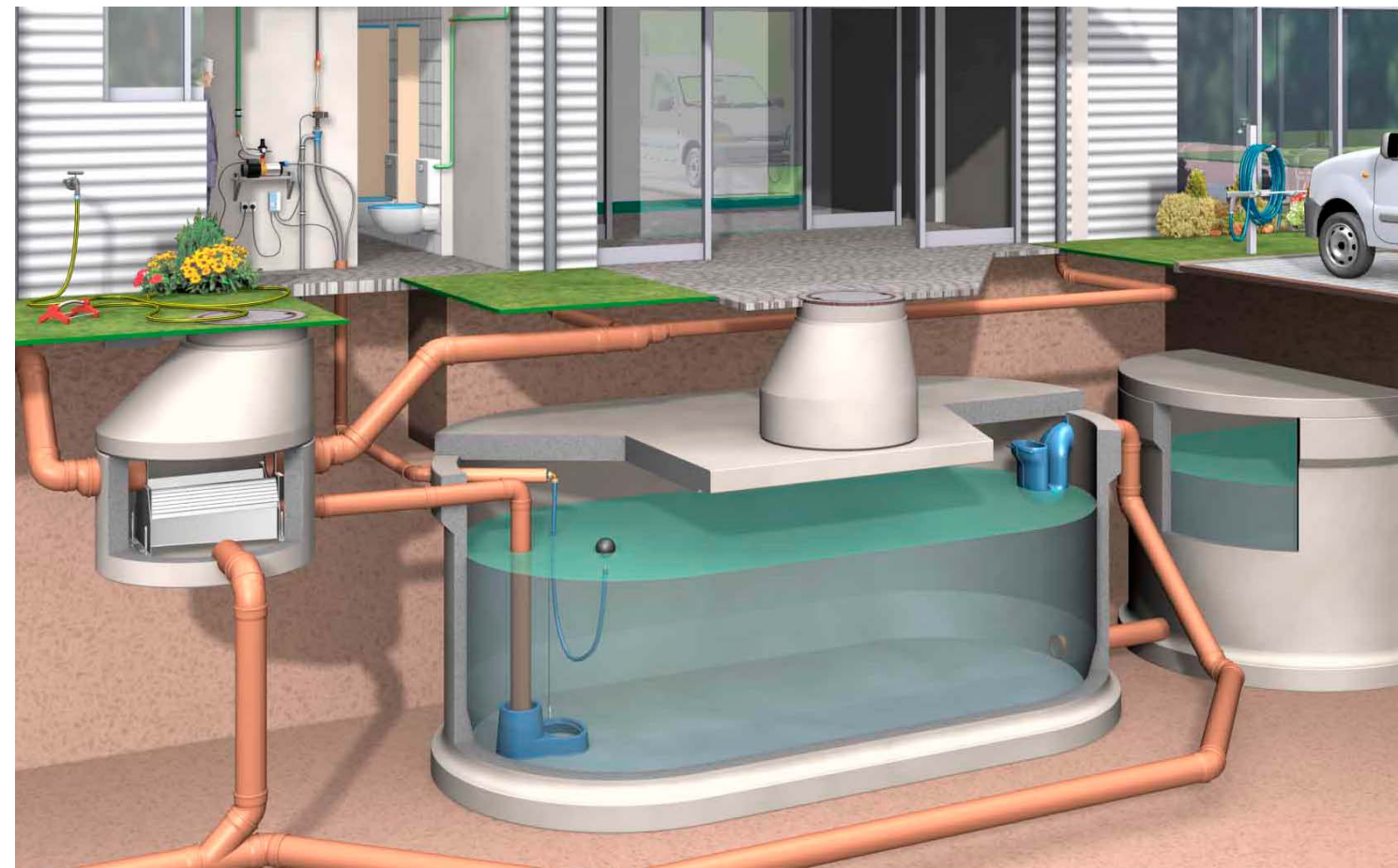
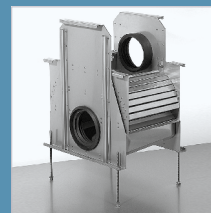
Due to its 2-stage cleaning principle (first coarse, then fine cleaning), it has a high degree of efficiency independent of the volume flow. Due to the steep position of the filter insert, the filtered-out dirt is continuously flushed in the direction of the sewer, with the sewer connection being attached to the manhole. The dirt falls to the bottom of the shaft and is flushed away during heavy rain.



- Relative connection capacity according to DIN 18481: up to 1347 m² roof area at a rainfall rate of 300 l/(s·ha)
- By means of a bypass installation, a larger connection area is possible
- Rainwater inlet: DN 200
- Inlet rainwater storage tank: DN 150
- Drainage sewer: DN 200
- Height difference between inlet and outlet: 320 mm
- Mesh size: 0.39 x 0.98 mm

3P special-kit VF2 Art.-No. 1000710

3P Volume filter VF2 + 3P Calmed inlet DN150
+ 3P Overflow siphon DN150 with rodent barrier





3P Volume filter VF3

Art.-No. 1000800



Rainwater filter for larger roof areas. The 3P volume filter VF3 must be installed in a pre-shaft (Ø 1200 mm). As a rule, standard concrete manholes are used. The filter can be delivered to the construction site pre-assembled in the shaft.

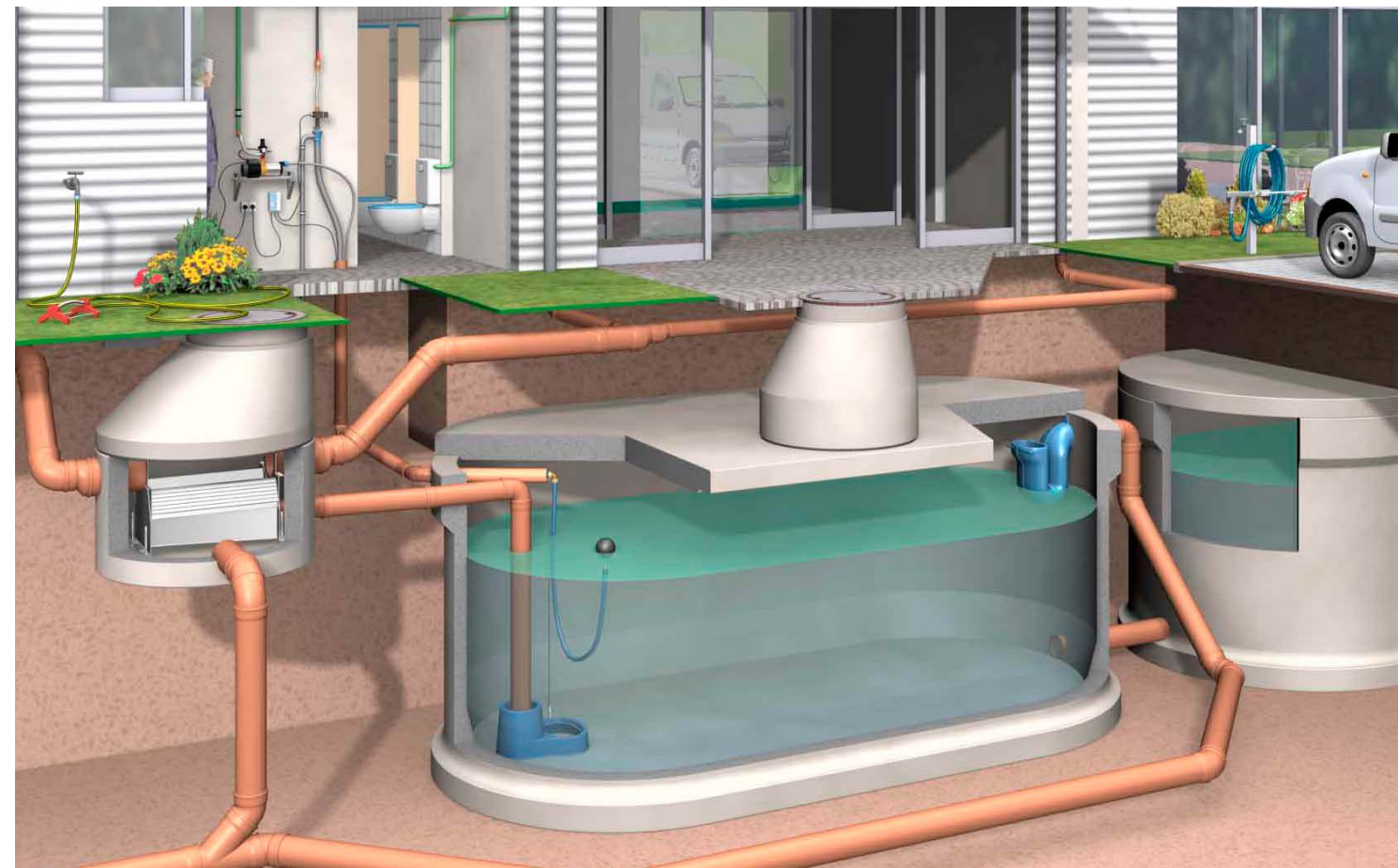
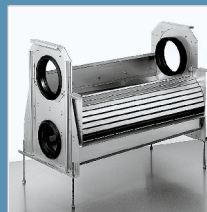
Due to its 2-stage cleaning principle (first coarse, then fine cleaning), it has a high degree of efficiency independent of the volume flow. Due to the steep position of the filter insert, the filtered-out dirt is continuously flushed in the direction of the sewer, with the sewer connection being attached to the manhole. The dirt falls to the bottom of the shaft and is flushed away during heavy rain.



- Relative connection capacity according to DIN 18481: up to 1347 m² roof area at a rainfall rate of 300 l/(sxha)
- By means of a bypass installation, a larger connection area is possible
- Rainwater inlet: DN 200
- Inlet rainwater storage tank: DN 150
- Drainage sewer: DN 200
- Height difference between inlet and outlet: 320 mm
- Mesh size: 0.39 x 0.98 mm

3P special-kit VF3 Art.-No. 1000820

3P Volume filter VF3 + 3P Calmed inlet DN150
+ 3P Overflow siphon DN150





3P Volume filter VF6

Art.-No. 1000900



Rainwater filter for larger roof areas. The 3P volume filter VF6 must be installed in a pre-shaft (Ø 1200 mm). As a rule, standard concrete manholes are used. The filter can be delivered to the construction site pre-assembled in the shaft.

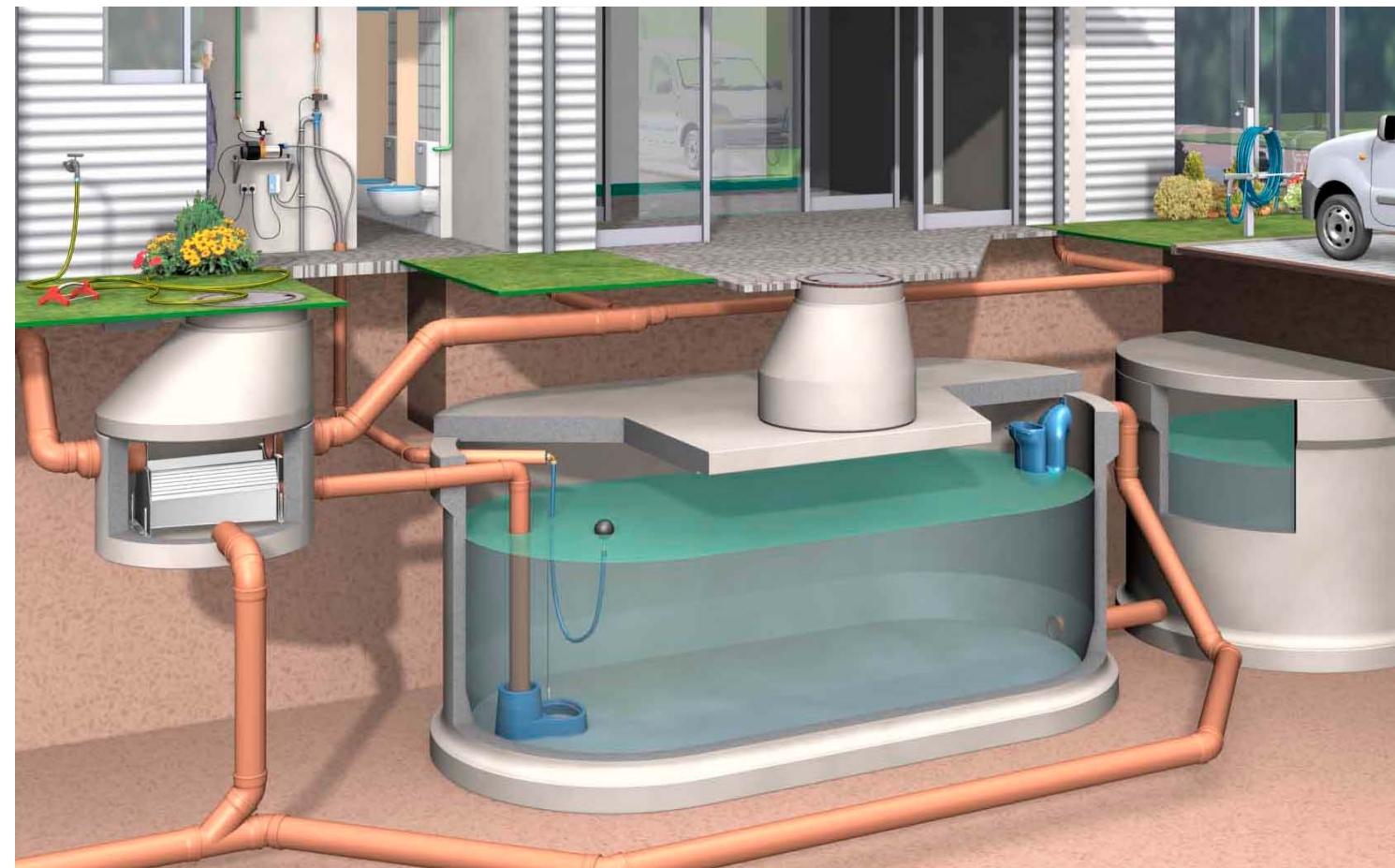
Due to its 2-stage cleaning principle (first coarse, then fine cleaning), it has a high degree of efficiency independent of the volume flow. Due to the steep position of the filter insert, the filtered-out dirt is continuously flushed in the direction of the sewer, with the sewer connection being attached to the manhole. The dirt falls to the bottom of the shaft and is flushed away during heavy rain.



- Relative connection capacity according to DIN 18481: up to 2433 m² roof area with a rainfall capacity of 300 l/(sxha)
- By means of a bypass installation, it is also possible to a larger connection area is possible
- Rainwater inlet: 2 x DN 200
- Inlet rainwater storage tank: DN 200
- Drainage sewer: DN 200
- Height difference between inlet and outlet: 320 mm
- Mesh size: 0.39 x 0.98 mm

3P special-kit VF6 Art.-No. 1000960

3P Volume filter VF6 + 3P Calmed inlet DN200
+ 3P Overflow siphon DN200 with rodent barrier



3P Volume filter VF7

Art.-No. 1000910



Depending on the volume flow and because of the arrangement of the different sieve surfaces, an optimal and maximum yield is achieved. The screens on the guide surfaces are cleaned automatically by different volume flows. This principle of self-cleaning, combined with the different screen surfaces, ensures minimum maintenance effort with a constantly high water yield.

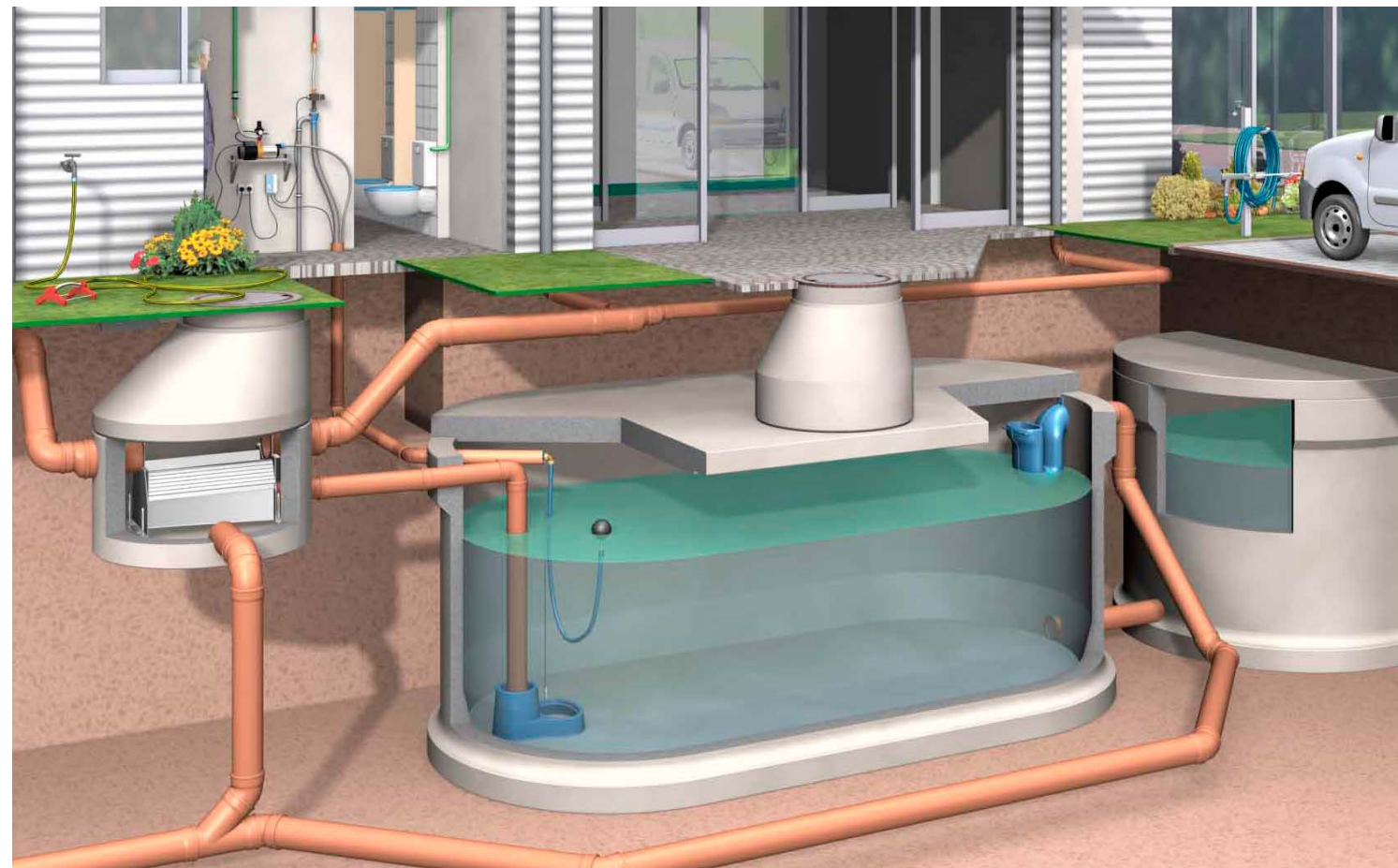
Despite the maximum connectable area of 2433 m², the difference in height between the inlet and outlet is only 10 cm. That is - compared to competitors - up to 30 cm less. In addition to simpler planning, this not only makes planning easier, but also maximises the storage volumes.



- Connectable area: 2433 m²
- Relative connection capacity according to DIN 18481: up to 2433 m² roof area with a rainfall capacity of 300 l/(sxha)
- By means of a bypass installation, it is also possible to a larger connection area is possible
- Rainwater inlet: 2x DN 250
- Inlet rainwater storage: DN 200
- Drainage sewer: DN 250
- Height difference: 100 mm
- Mesh size: 0.39 x 0.98 mm

3P special-kit VF7 Art.-No. 1000920

3P Volume filter VF7 + 3P Calmed inlet DN200
+ 3P Overflow siphon DN200 with rodent barrier





3P Volume filter VF12

Art.-No. 1000950



Rainwater filter for larger roof areas. The 3P Volume Filter VF12 must be installed in a manhole (Ø 2000 mm or Ø 2500 mm). As a rule, standard concrete manholes are used. The filter can be delivered to the construction site pre-assembled on the shaft.

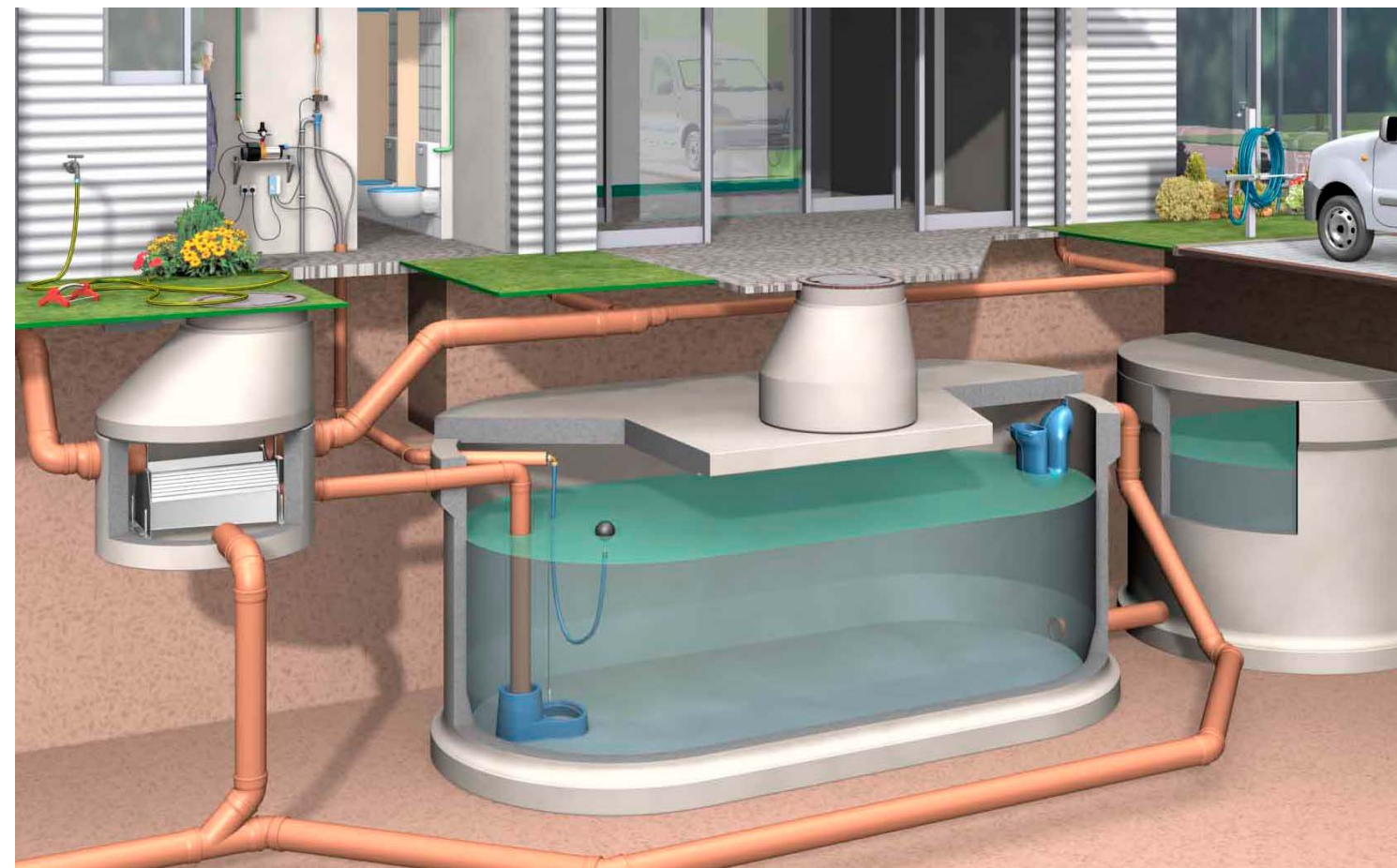
Due to its 2-stage cleaning principle (first coarse, then fine cleaning), it has a high degree of efficiency independent of the volume flow. Due to the steep position of the filter insert, the filtered-out dirt is continuously flushed in the direction of the sewer, with the sewer connection attached to the manhole. The dirt falls to the bottom of the shaft and is flushed away during heavy rain.

- Relative connection capacity according to DIN 18481: 3933 m².
- Roof area at a rainfall rate of 300 l/(sxha)
- A larger connection area is also possible by means of a bypass installation.
- Height difference between rainwater inlet and cistern inlet: 600 mm
- DN 300 KG pipe bends are supplied for installation in the concrete shaft
- Rainwater filter according to DIN 1989-2, type C
- Rainwater inlet: 1x DN 300
- Inlet rainwater storage tank: DN 250
- Outlet into the sewer: DN 300
- Mesh size: 0.39 x 0.98 mm



3P special-kit VF12 Art.-No. 1000970

3P Volume filter VF12 + 3P Calmed inlet DN250 + 3P Overflow siphon DN250 with rodent barrier



RAINWATER FILTER ACCORDING TO DIN 1989-2 TYPE A





3P Filter Type A

Art.-No. 1000990

Due to market conditions, we have developed a type A filter for our customers. In order to make it user-friendly, the focus was on different cistern sizes with a diameter of 2.00 m to 2.50 m. The main connection sizes were DN 100 and DN 125. Analyses of projects that were implemented with this type of filter showed that the main connection sizes that were implemented were DN 100 and DN 125.

We have optimised our filter for these market conditions and offer you optimum flexibility and manufacturing variability. Due to the simple assembly in connection with the high quality and durability, you are now also able to serve this market segment. The filter insert is attached to the edge of the cistern body by means of screws and is kept stable at the desired height by the piping of the calmed inlet.

The large sieve surface in combination with the optimised sedimentation space offers an optimum for handling and cleaning. The easy-to-open closures make it easy to remove the sieve and clean it of the accumulated dirt. The emergency overflow ensures maximum safety and, for the customer, in combination with the 3P tAttenuation flow regulator (see p.114-127), compliance with the official requirements for new and existing buildings.

Stable due to the support on the calmed inlet



Fixing the sieve



Attachment of the body





3P Filter wall Inox

For connectable roof areas up to 3,500 m².

The 3P Filter Wall Inox is used to clean rainwater from roof areas, to collect it in a cistern, to let it seep away or to discharge it into a receiving watercourse.

The rectangle filter wall, located in the centre of a precast concrete shaft, is equipped with a stainless steel screen mesh. With a mesh size of 0.39 x 0.98 mm, particulate pollutants can be safely removed from the rainwater.

The rainwater is thus purified and available for further use. The dimensions of the inlet and outlet pipes as well as the screening area are calculated according to the size of the connected area.

Article no.	Article description	adjoining Roof area [m²]	Q [l/s] (at 300 l/s*ha)	Raid- height Screen area	Dimensions WxH [mm]
1000935	3P Filter wall Inox 50	580	17,40	0,8	485x485
1000936	3P Filter wall Inox 75	850	25,50	0,8	485x735
1000937	3P Filter wall Inox 100	1000	30,00	0,8	485x985
1000938	3P Filter wall Inox 50 II	1250	37,50	0,8	485x485 (2x)
1000939	3P Filter wall Inox 75 II	1750	52,50	0,8	485x735 (2x)
1000940	3P Filter wall Inox 100 II	3500	105,00	0,8	485x985 (2x)

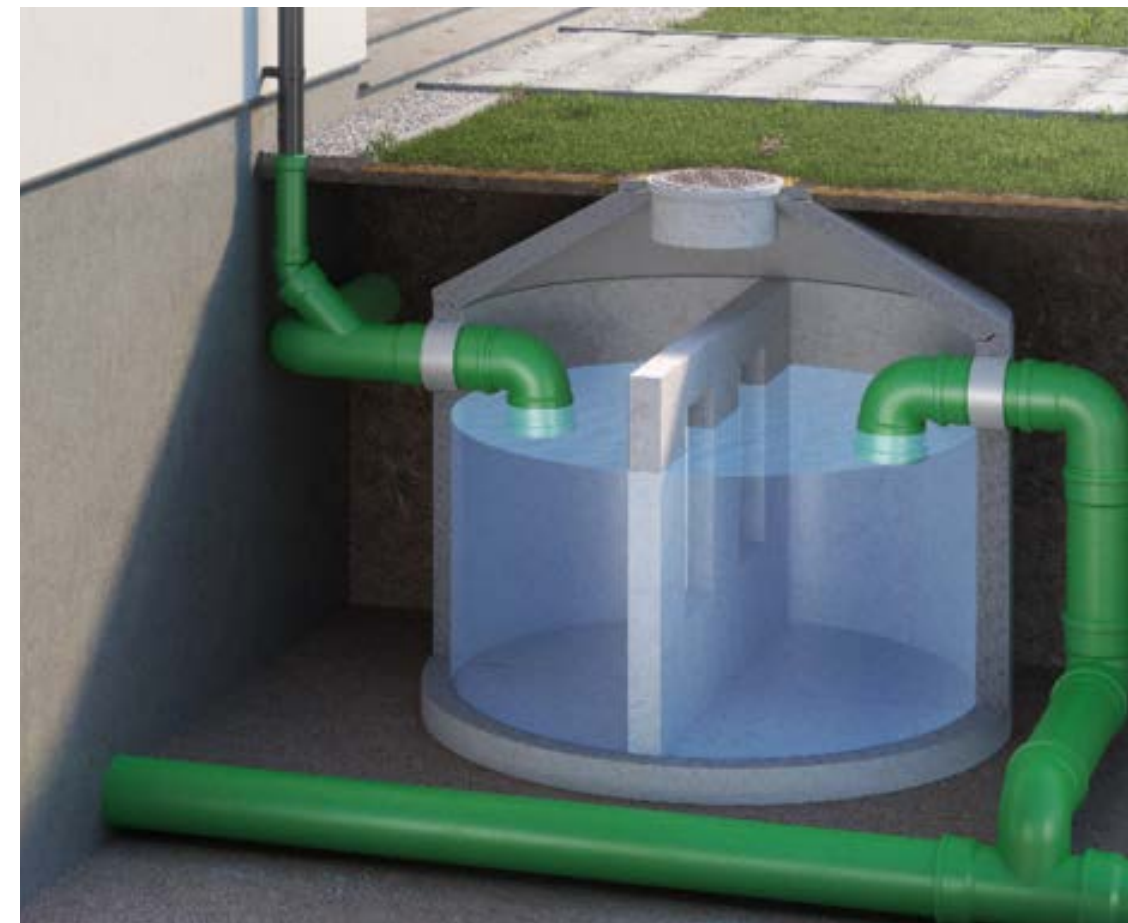


Advantages:

- Connectable roof areas up to 3,500 m²
- Max. flow rate up to 105 l/s
- High filtration and retention of pollutants
- Compact system with high operational reliability

Function:

The rainwater running into the concrete shaft is accumulated up to the height of the base of the filter wall. It then flows evenly through the rectangular filter surface from one side to the other. The cleaned rainwater flows out on the opposite side via the drain. The volume between the base of the column wall and the concrete wall of the surrounding shaft serves as a sludge and sand chamber.



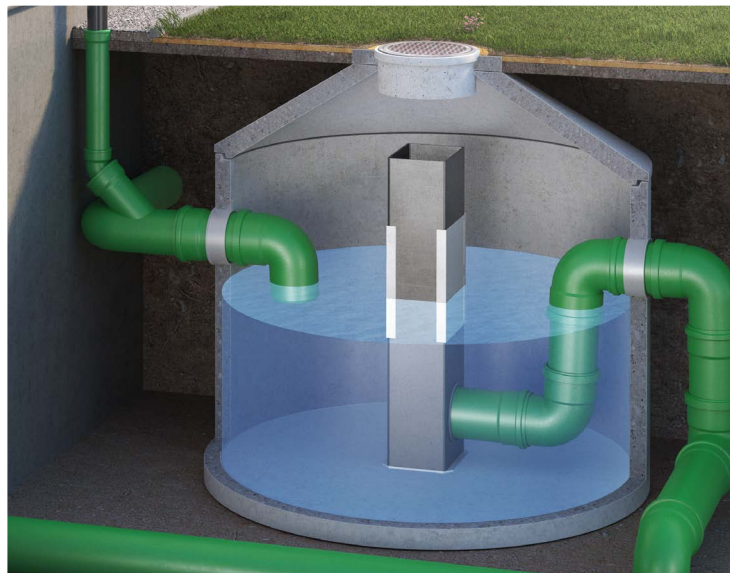


3P Filter tower

for connectable roof areas up to 9,000 m².

The 3P filter tower is used to clean the rainwater from roof surfaces so that it can then be collected in a cistern, allowed to seep away or discharged into a receiving watercourse. The filter tower, which is arranged in the middle of a prefabricated concrete shaft, is equipped with a stainless steel screen mesh. With a mesh size of 0.39 x 0.98 mm, particulate pollutants can be safely removed from the rainwater.

The rainwater is thus purified and available for further use. The dimensions of the inlet and outlet pipes as well as the screening area are measured according to the size of the connected area.



Advantages:

- Connectable roof areas up to 9,000 m²
- max. flow rate up to 270 l/s
- High filtration and retention of pollutants
- Compact system with high operational reliability

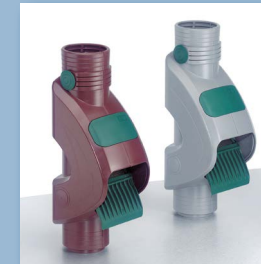
Article no.	Article description	Shaft Di [m]	Q [l/s] at 300 l/s*ha	adjoining Roof area [m ²]	Inlet/outlet DN [mm]	Raid-height Screen area	Filter-areas	Filter height total (3P) [m]	Sludge chamber 3P [m ³]
1000971	3P Filter column T2 - 500	1,00	15,00	500	150	0,8	2	1,87	0,46
1000972	3P Filter column T2 - 750	1,20	22,50	750	200	0,8	2	1,87	0,73
1000973	3P Filter column T2 - 1250	1,20	37,50	1250	200	0,8	2	1,87	0,73
1000974	3P Filter column T4 - 1500	1,50	45,00	1500	250	0,8	4	1,87	1,24
1000975	3P Filter column T4 - 1750	1,50	52,50	1750	250	0,8	4	1,87	1,24
1000976	3P Filter column T4 - 2300	1,50	69,00	2300	250	0,8	4	1,87	1,24
1000977	3P Filter column T4 - 2600	1,50	78,00	2600	300	0,8	4	1,87	1,24
1000978	3P Filter column T4 - 3500	2,00	105,00	3500	300	0,8	4	1,87	2,34
1000979	3P Filter column T4 - 4200	2,00	126,00	4200	300	0,8	4	1,87	2,34
1000980	3P Filter column T6 - 4600	2,50	138,00	4600	400	0,8	6	1,87	3,75
1000981	3P Filter column T6 - 5800	2,50	174,00	5800	400	0,8	6	1,87	3,75
1000982	3P Filter column T6 - 6900	2,50	207,00	6900	400	0,8	6	1,87	3,75
1000983	3P Filter column T6 - 9000	3,00	270,00	9000	400	0,8	6	1,87	5,48

Function:

The rainwater running into the concrete shaft is accumulated up to the height of the base of the filter wall. It then flows evenly through the rectangular the rectangular filter surface from one side to the other. The cleaned rainwater flows out on the opposite side via the drain. The volume between the base of the column wall and the concrete wall of the surrounding shaft serves as a sludge and sand chamber.

DOWNPIPE FILTER

Downpipe filters are rainwater filters that clean the rainwater already in the downpipe and can then fill a rain barrel or a cistern with the cleaned water.

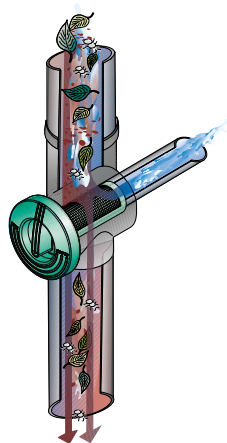




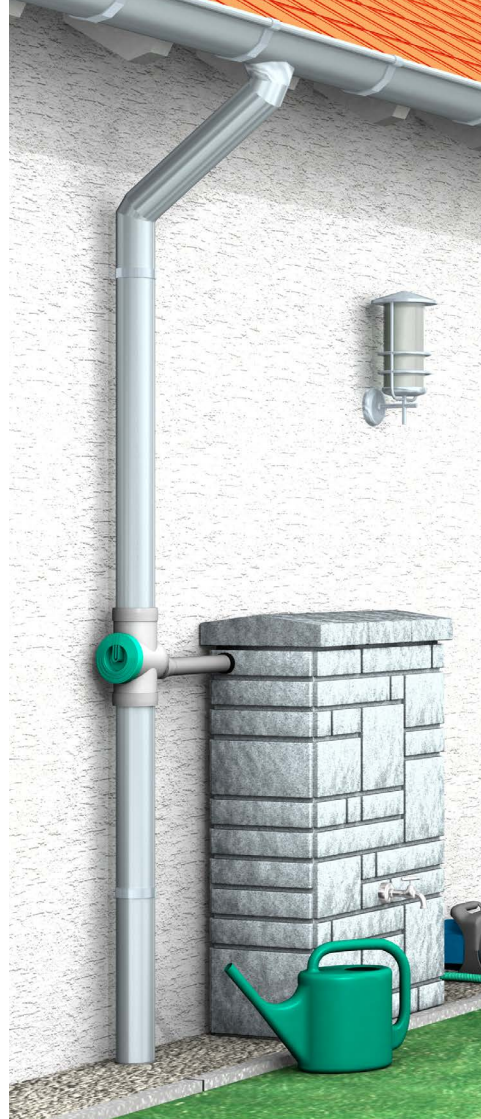
3P Rain collector Inox

brown Art.-No. 2000810
grey Art.-No. 2000820

The 3P rainwater collector Inox collects and filters rainwater for rain barrels and smaller rainwater storage tanks. The filtered-out dirt is flushed into the sewer system with some residual water. It has an overflow function through the backwater principle. The water supply can also be regulated via the green rotating handle (summer/winter operation). The fine filter made of stainless steel is integrated in the rotary handle. With a mesh size of 1.0 x 1.0 mm, the filtered water can also be used in the house.



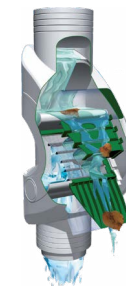
- The universal adapter allows the filter to be installed in all sheet metal downpipes with a Ø of 68 to 110 mm
- Installation is simple and maintenance uncomplicated
- Roof areas up to 70 m² can be connected to one filter
- Dimensions: 260 x 270 x 134 mm
- Outlet: Ø 75 mm, Ø 50 mm, Ø 32 mm



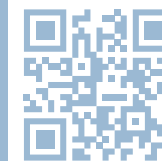
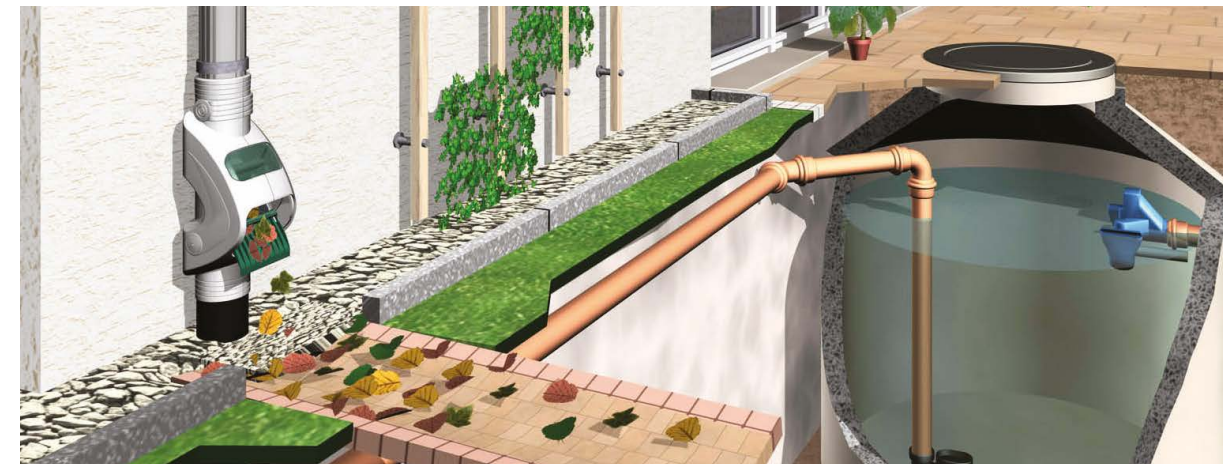
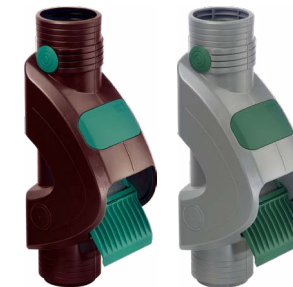
3P Rainus

brown Art.-No. 2000790
grey Art.-No. 2000700

The 3P Rainus is a rainwater filter that is installed in the downpipe. It reliably filters the dirt out of the rainwater and is easy to maintain. The installation can be done by yourself. With this rain filter, the dirt is ejected to the front and the cleaned rainwater is carried on via the downpipe. The 3P Rainus is also ideal for retrofitting systems that do not have a filter.



- For roof areas up to 70 m²
- Max. flow rate of sieve insert: approx. 0.6 l/sec = approx. 2 m³ of purified water per hour.
- Connection option: Installation in standpipes with Ø 80 or 110 mm.
- The upper connection can take 80 or 100 mm sheet metal downpipes.
- The purified water can be used for washing machine, WC and garden irrigation.
- Maintenance interval depending on contamination. If more water escapes to the front, the strainer tongue can be easily removed and cleaned.
- Dimensions: 216.5 x 505 x 170 mm





3P Leaf separator

brown Art.-No. 2000210
grey Art.-No. 2000220

The 3P leaf separator cannot actually be defined directly as a rain filter. Its field of application is rather to be considered as a pre-filter for fine or Basket filters. Gross dirt such as leaves is simply transported to the front over the opening via a chute. Therefore, it can also be used as protection against clogging of sewage pipes.

- Advantage: No more dangerous cleaning of gutters.
- Connection option: for 80 mm as well as 100 mm sheet metal downpipes,
- Reduction is enclosed with the product
- Winter operation: baffle is removed and the green cover is closed
- Guide surface: removable
- Dimensions: 325 mm, 117 mm, 145 mm



3P Leaf separator With filling function brown Art.-Nr. 2000910 grey Art.-Nr. 2000920

The 3P leaf separator with filling function offers the same features as the leaf separator without filling function, but has the additional option of collecting the cleaned water in a rain barrel or other container directly at the downpipe via the connection piece and thus also storing it.

- Advantage: No more dangerous cleaning of gutters
- Connection option: for 80 mm as well as 100 mm sheet metal downpipes,
- Reduction is enclosed with the product
- Winter operation: baffle is removed and the green cover is closed
- Guide surface: removable
- Spacing of guide ribs: approx. 5 mm
- Dimensions: 325 mm, 117 mm, 145 mm



3P Downpipe filter PE

Art.-No. 2000530

Filters and collects rainwater for rain barrels and smaller rainwater tanks.

- For roof areas up to 150 m²
- Connection possibility: Suitable for downpipes DN 100
- High efficiency
- Low maintenance
- With overflow function
- Dimensions: 325 mm, Ø 135 mm



3P Downpipe filter

copper Art.-No. 2000510
titanium zinc Art.-No. 2000520

Filters and collects rainwater for rain barrels and smaller rainwater storage tanks.

- For roof areas up to 150 m²
- Connection possibility: Suitable for downpipes DN 100
- Can be converted to DN 80 and DN 87 with special reduction set.
- High efficiency
- Low maintenance
- With overflow function when filter connection and water level of the rainwater storage tank correspond with each other
- Dimensions: 285 mm, Ø 120 mm
- Outlet: Ø 50 mm



PUMPS

Pumps are used to take the collected water from the cistern and make it available for use in the building or for watering the garden.





Divertron 650

Art.-No. 5003000

The Divertron 650 submersible pressure pump has an integrated electronic control unit. It operates fully automatically and is therefore suitable for various applications, especially for rainwater harvesting.

- Maximum delivery head: 30 m
- Maximum delivery rate: 6.0 m³/h
- Dry-running protection
- Electronic pressure switch and flow detection sensor
- Double ceramic sliding seal
- Without connection pipe for floating discharge
- Maximum installation depth 12 m.

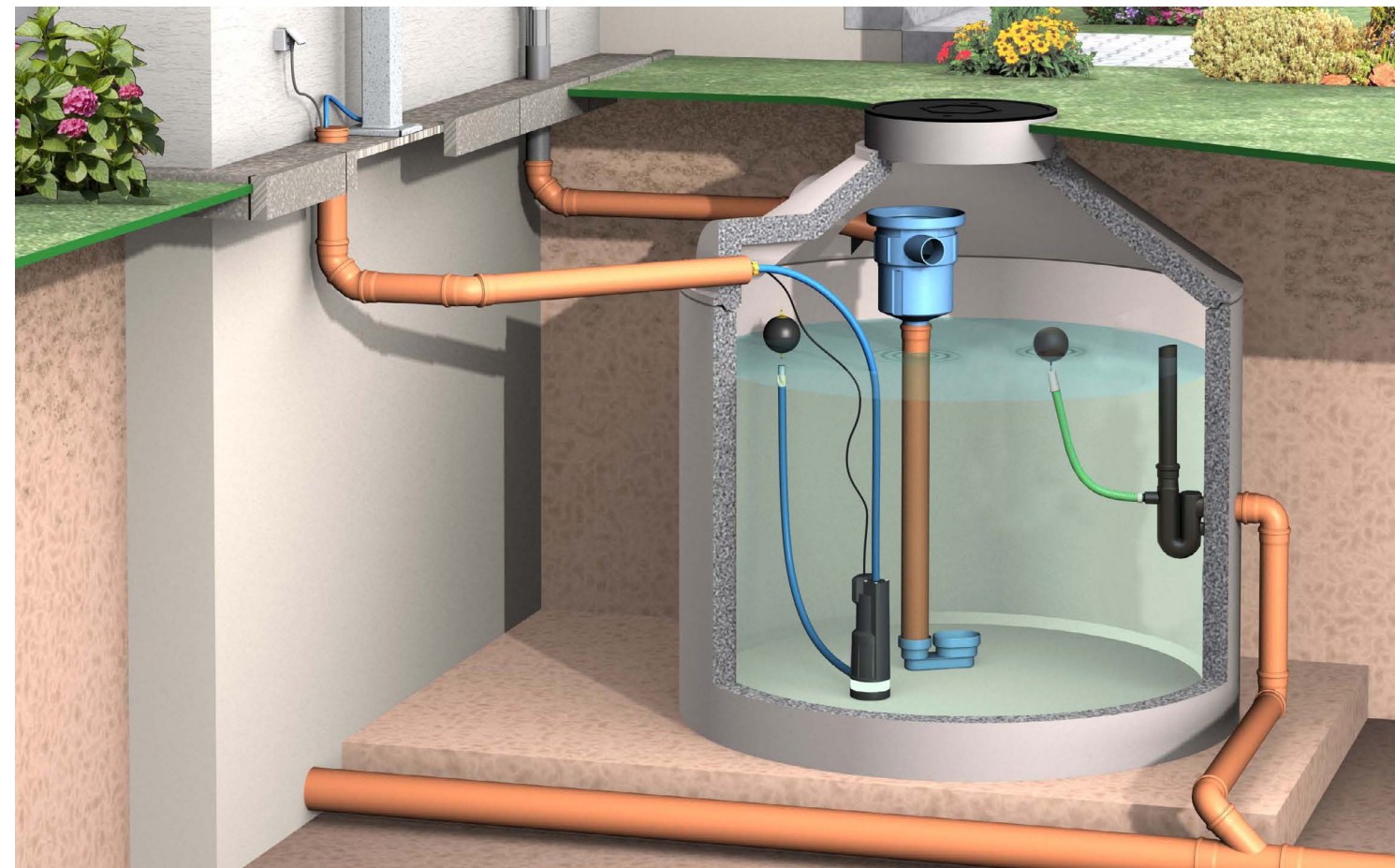


Divertron 900 X

Art.-No. 5003010

The Divertron 900 X submersible pressure pump has an integrated electronic control unit. It operates fully automatically and is therefore suitable for various applications, especially for rainwater harvesting.

- Maximum delivery head: 45 m
- Maximum delivery rate: 6.0 m³/h
- Dry-running protection
- Electronic pressure switch and flow detection sensor
- Double ceramic sliding seal
- With connection pipe for floating discharge
- Maximum installation depth 12 m.



3P BOX Premium

The 3P BOX collects and cleans the rainwater directly at the downpipe and distributes it to the place where you have the necessary space to store it. That is why the 3P BOX is suitable for every application and all local and structural conditions.





3P BOX Premium

Art.-Nr. 2000990

The 3P BOX Premium can deliver water to your storage tank over a distance of 50 m and a height of 6 m.*

Connection and installation

The 3P BOX Premium offers connection options for downpipes from 67 mm to 100 mm in the inlet area; the connection to the sewer can be made via a DN110 double socket. For the connection of the overflow, it is necessary that the standpipe, which represents the drainage into the sewer, is 70 mm above the top edge of the ground, so that the 3P BOX Premium can be connected here.

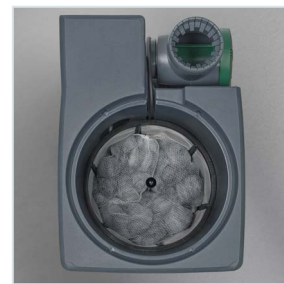
A commercially available hose with a quick coupling can be connected via the side coupling, which is then fed into the storage container.

Function

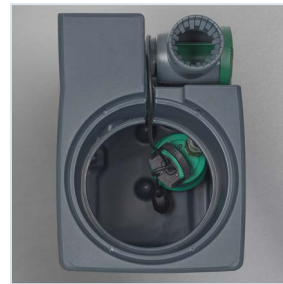
The rainwater flows from the rainwater downpipe via the water diverter into the 3P BOX. There, the water is cleaned of solids and fines by the filter basket with the 3P Filterpillows and reaches the lower area where the pump is installed. This then pump the water via the hose into the storage container. If the amount of incoming rainwater is too large, the water will be discharged into the sewer system via the internal bypass. This reliably prevents backwater and overflow.

*These specifications refer to the use of a 3/4" hose.

View of the filter



View of the pump



Front



Connection situation





3P BOX Premium

The 3P BOX is a total solution for rainwater management. With the 3P BOX installed directly on the downpipe, you can collect the rainwater exactly where it falls, clean it of fine particles, leaves and solids, and then treat it with a water treatment system already integrated in this compact product, solids and can then be pumped to where it is needed with a pump already pump it to where you can best ensure its storage on your property. Here you are independent of the type of storage tank. It can be underground, above ground, made of plastic, concrete, fibreglass or any other sensible material and does not have to be installed in local connection with the downpipe.

This offers significant advantages, especially in the area of retrofitting existing buildings. Storage tanks no longer have to be installed close to the house, but can be installed wherever the local conditions allow.

If your storage tank is full or you do not want to/are not able to pump water in winter, the water will be discharged directly into the canal via the internal bypass. In this case, the installed pre-filter functions as a water switch and with one turn you have your 3P BOX in or out of operation.

Removing the pump in winter is just as easy. You simply disconnect the screw connection and remove the pump through the cover (see illustration).

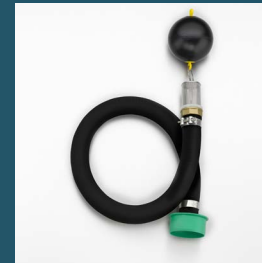


- | | |
|---------------------------------|----------------------|
| ① Downpipe | ⑥ Pump |
| ② Rainwater diverter | ⑦ Filter basket |
| ③ Overflow and bypass | ⑧ Filter inlet |
| ④ Sewer connection | ⑨ Inspection opening |
| ⑤ Water distribution connection | |



FLOW REGULATORS

With these Flow regulators, the outflow is slowed due to rain events in order to protect the sewer or a surface water from excessive inflows.



Report Available
**FULLY
TESTED**

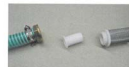
Fachhochschule University of Applied Sciences
Münster

Test Result

Experimental Test of the throttle effect
Product: 3P Retentionsdrossel, small throttle

3P Technik Filtersysteme GmbH, Ochtrstraße 14, 78072 Dondorf, Germany

The subject matter of this test was the effect of the throttle with different opening widths. The throttle is part of a retention system. The outflow is defined by a volumetric method by measuring time taken for filling a 10 liter tank. The measured variable is the time taken for filling the tank. The test is carried out with clear water and same starting conditions for each opening width. The throttle was held constantly 20 cm below water level by a float. The small throttle is adjusted by 7 different apertures, which all have different opening widths and different lengths. Furthermore one test was made without any aperture.



Test Conditions	Particular test water	Opening width	discharge
Test Medium	clear water	5 mm	4,20 l/min
Water level above throttle	20 cm	8 mm	7,00 l/min
Technical Data		10 mm	10,00 l/min
Small throttle	6 to 20 mm	13 mm	13,40 l/min
		16 mm	15,00 l/min
		18 mm	17,00 l/min
		20 mm	20,00 l/min
	no throttle		26,00 l/min

Fachhochschule University of Applied Sciences
Faculty of Civil Engineering
Institute for Water Resources Environment
Conventstraße 25
48149 Münster
Germany

Prof. Dr.-Ing. Matthias Uhl
Münster, den 16.04.2012


Fachhochschule University of Applied Sciences
Münster

Test Result

Experimental Test of the throttle
Product: 3P Retentionsdrossel, big throttle

3P Technik Filtersysteme GmbH, Ochtrstraße 14, 78072 Dondorf, Germany

The subject matter was the effect of the throttle with different opening widths. The throttle is part of a retention system. The discharge is defined by a volumetric method by measuring time taken for filling a 100 liter tank. The measured variable is the time taken for filling a 100 liter tank. The test is made with clear water. The throttle was held constantly 20 cm below water level by a float. The big throttle can be adjusted by the distance between two metal disks. Furthermore one test was made without any throttle.



Test Conditions	Clear water	Opening width	discharge
Test Medium		5 mm	50,00 l/min
Water level above throttle	30 cm	10 mm	75,00 l/min
Technical Data		15 mm	90,00 l/min
Big throttle	3 to 40 mm	20 mm	100,00 l/min
		25 mm	110,00 l/min
		30 mm	120,00 l/min
		35 mm	130,00 l/min
		40 mm	140,00 l/min
	no throttle		200,00 l/min

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Münster, den 16.04.2012

Fachhochschule University of Applied Sciences
Münster

Test Result

Experimental Test of the throttle effect
Product: 3P Retentionsdrossel, medium throttle

3P Technik Filtersysteme GmbH, Ochtrstraße 14, 78072 Dondorf, Germany

The subject matter of the test was the effect of the throttle with different opening widths. The throttle is part of a retention system. The discharge is defined by a volumetric method by measuring time taken for filling a 200 liter tank. The measured variable is the time taken for filling the tank. The test is carried out with clear water. The throttle was held constantly 20 cm below water level by a float. The medium throttle is adjusted by the distance between two metal disks. Furthermore one test was made without the metal throttle.



Test Conditions	Clear water	Opening width	discharge
Test Medium		5 mm	18,47 l/min
Water level above throttle	20 cm	8 mm	23,00 l/min
Technical Data		10 mm	26,00 l/min
Medium throttle	5 to 30 mm	13 mm	30,00 l/min
		16 mm	33,00 l/min
		18 mm	36,00 l/min
		20 mm	40,00 l/min
	no throttle		50,00 l/min

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Münster, den 16.04.2012

H2O Research GmbH

Prüfergebnis

Experimentelle Prüfung der Drosselwirkung
Produkt: 3P Retentionsdrossel 4", 27 bis 87 mm
Firma 3P Technik Filtersysteme GmbH, Robert Bosch Strasse
16-18 73237 Bad Urkingen/Heiden

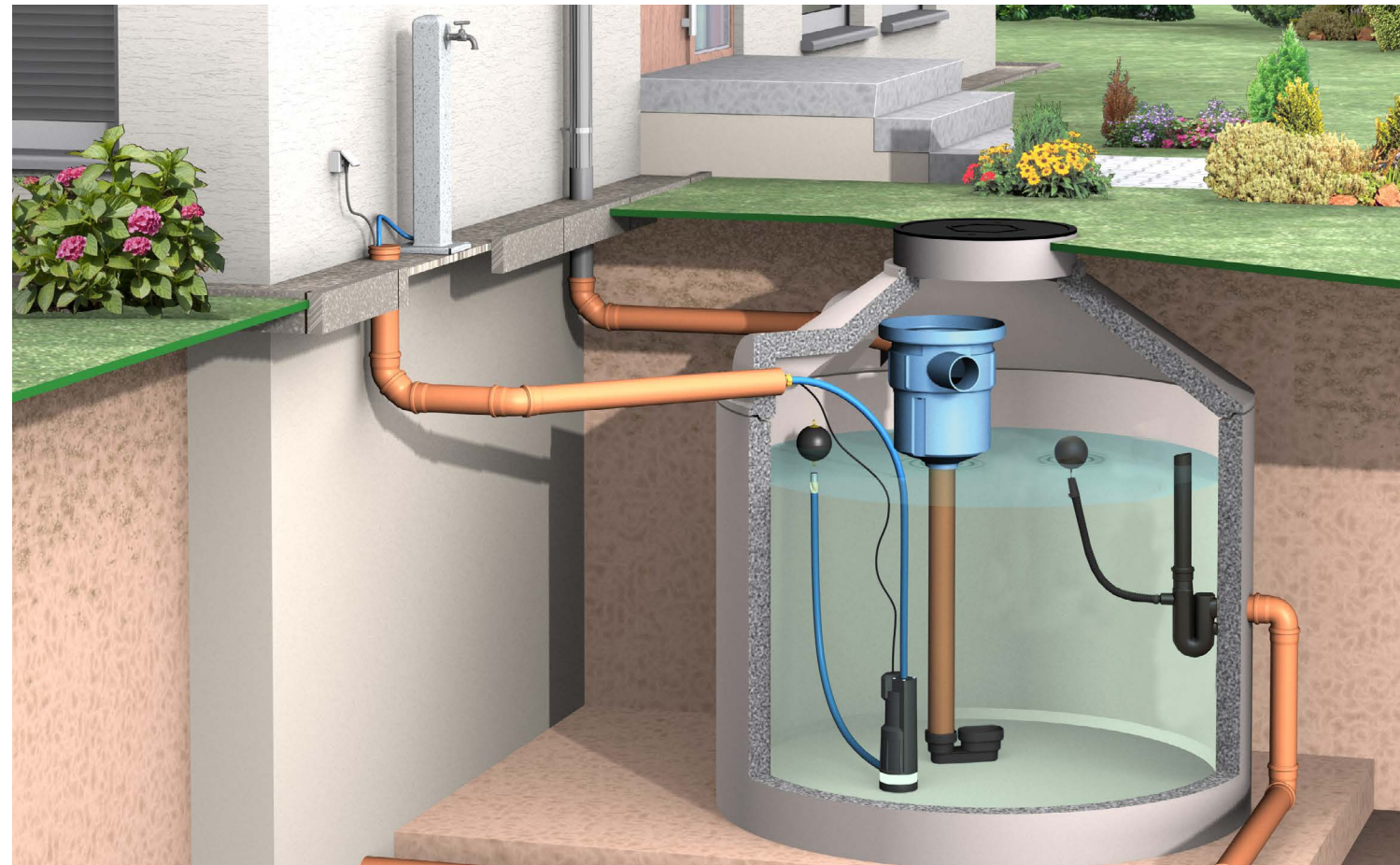
Gegenstand der Untersuchung war die Messung der Durchfluss verschiedener Drosselstufen im Ablauf einer Retentionsanlage zur Regenwasserhaltung. Der Durchfluss wurde volumetrisch ermittelt. Beispielhaft war die Zeit für zum Erreichen eines Abflusses von 100 l. Die Prüfung erfolgte mit heissen Wasser. Die Öffnung der Drossel wurde über einen Schieber konstant 20 cm unterhalb des freien Wasserstandes gehalten. Es wurden 7 verschiedene Öffnungen untersucht, die in die Drosselstruktur eingestuft werden.



Prüfbedingungen	Trinkwasser	Öffnungsweite	Durchfluss
Prüfmedium	Trinkwasser	27 mm	3,05 l/min
Wasserstand		20 mm	4,73 l/min
Über Öffnung der Drossel	20 cm	27 mm	6,02 l/min
Reihe Drossel	27 bis 87 mm	47 mm	7,23 l/min
		52 mm	8,57 l/min
		57 mm	10,25 l/min
		62 mm	12,07 l/min
		67 mm	13,82 l/min
		72 mm	15,67 l/min
		77 mm	17,52 l/min
		82 mm	19,37 l/min
		87 mm	21,22 l/min
		92 mm	23,07 l/min
		97 mm	24,92 l/min
		102 mm	26,77 l/min

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Prof. Dr.-Ing. Matthias Uhl
Münster, den 16.04.2012





3P Attenuation flow regulator 1" Art.-No. 4000320 with overflow siphon

The Attenuation flow regulator ensures a regular, predefined outflow.

Advantage: retention throttle and overflow siphon in one part that adapts to the water level. Due to the flexible hose, the throttle adapts to the water level.

- Hose dimension: 1" x 1.3 m
- Dimensions: 600 x 130 x 850 mm
- Material: Polyethylene DN 100
- Floating ball with 140 mm diameter

Flow rates in litres / second

0,07 0,13 0,17 0,23 0,25 0,29 0,40 0,45



3P Attenuation flow regulator 2" Art.-No. 4000325 with overflow siphon

For description see 3P Attenuation flow regulator 1" with overflow siphon.

- Hose dimension: 2" x 1.5 m
- Dimensions: 600 x 130 x 850 mm
- Material: Polyethylene DN 100
- Floating ball with 140 mm diameter

Flow rates in litres / second

0,66 0,80 0,88 1,00 1,05 1,11 1,14 1,64



3P Attenuation flow regulator 3" Art.-No. 4000330 with overflow siphon

For description see 3P Attenuation flow regulator 1" with overflow siphon.

- Hose dimension: 3" x 1.5 m
- Dimensions: 600 x 130 x 850 mm
- Material: Polyethylene DN 100
- Floating ball with 220 mm diameter

Flow rates in litres / second

0,83 1,25 1,61 1,69 1,89 2,04 2,44 2,94 3,13 3,85



3P Attenuation flow regulator 4" Art.-No. 4000350 with overflow siphon

For description see 3P Attenuation flow regulator 1" with overflow siphon.

- Hose dimension: 4" x 1.5 m
- Dimensions: 600 x 130 x 850 mm
- Material: Polyethylene DN 150
- Floating ball with 220 mm diameter

Flow rates in litres / second

3,68 4,73 6,92 7,33 8,57 10,53 12,07



Report Available
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Report Available
**FULLY
TESTED**


Fachhochschule Münster University of Applied Sciences

Test Result

Experimental Test of the throttle effect
Product: 3P Retentionsdrossel, small throttle

3P Technik Filtersysteme GmbH, Ochtrstraße 14, 78072 Dornsdorf, Germany

The subject matter of the test was the effect of the throttle with different opening widths. The throttle is part of a retention of rainwater system. The outflow is defined by a volumetric method by measuring time taken for filling a 100 liter tank. The measured variable is the time taken for filling the tank. The test is carried out with clear water and same starting conditions for each opening width. The throttle was held constantly 20 cm below water level by a float. The small throttle is adjusted by 7 different apertures, which all have different opening widths and different lengths. Furthermore one test was made without any aperture.



Test Conditions	Opening width	discharge
Test Medium	0 mm	4,20 l/min
Water level above throttle	5 mm	7,00 l/min
Technical Data	10 mm	10,00 l/min
Small throttle	15 mm	13,40 l/min
	20 mm	15,00 l/min
	25 mm	17,00 l/min
	30 mm	20,00 l/min
	no throttle	26,00 l/min

Prof. Dr.-Ing. Matthias Uhl
Münster, den 16.04.2012


Fachhochschule Münster University of Applied Sciences

Test Result

Experimental Test of the throttle
Product: 3P Retentionsdrossel, big throttle

3P Technik Filtersysteme GmbH, Ochtrstraße 14, 78072 Dornsdorf, Germany

The subject matter was the effect of the throttle with different opening widths. The throttle is part of a retention of rainwater system. The discharge is defined by a volumetric method by measuring time taken for filling a 100 liter tank. The measured variable is the time taken for filling a 100 liter tank. The test is made with clear water. The throttle was held constantly 20 cm below water level by a float. The big throttle can be adjusted by the distance between two metal disks. Furthermore one test was made without any throttle.



Test Conditions	Opening width	discharge
Test Medium	0 mm	50,00 l/min
Water level above throttle	5 mm	75,00 l/min
Technical Data	10 mm	86,77 l/min
Big throttle	15 mm	102,00 l/min
	20 mm	113,33 l/min
	25 mm	122,45 l/min
	30 mm	146,36 l/min
	35 mm	176,47 l/min
	40 mm	182,56 l/min
	no throttle	230,77 l/min

Prof. Dr.-Ing. Matthias Uhl
Münster, den 16.04.2012


Fachhochschule Münster University of Applied Sciences

Test Result

Experimental Test of the throttle effect
Product: 3P Retentionsdrossel, medium throttle

3P Technik Filtersysteme GmbH, Ochtrstraße 14, 78072 Dornsdorf, Germany

The subject matter of the test was the effect of the throttle with different opening widths. The throttle is part of a retention of rainwater system. The discharge is defined by a volumetric method by measuring time taken for filling a 100 liter tank. The measured variable is the time taken for filling the tank. The test is carried out with clear water. The throttle was held constantly 20 cm below water level by a float. The medium throttle is adjusted by the distance between two metal disks. Furthermore one test was made without the metal throttle.



Test Conditions	Opening width	discharge
Test Medium	0 mm	18,47 l/min
Water level above throttle	5 mm	43,00 l/min
Technical Data	10 mm	52,00 l/min
Medium throttle	15 mm	60,00 l/min
	20 mm	64,50 l/min
	25 mm	66,67 l/min
	30 mm	68,58 l/min
	no throttle	98,36 l/min

Prof. Dr.-Ing. Matthias Uhl
Münster, den 16.04.2012

H2O Research GmbH

Prüfergebnis

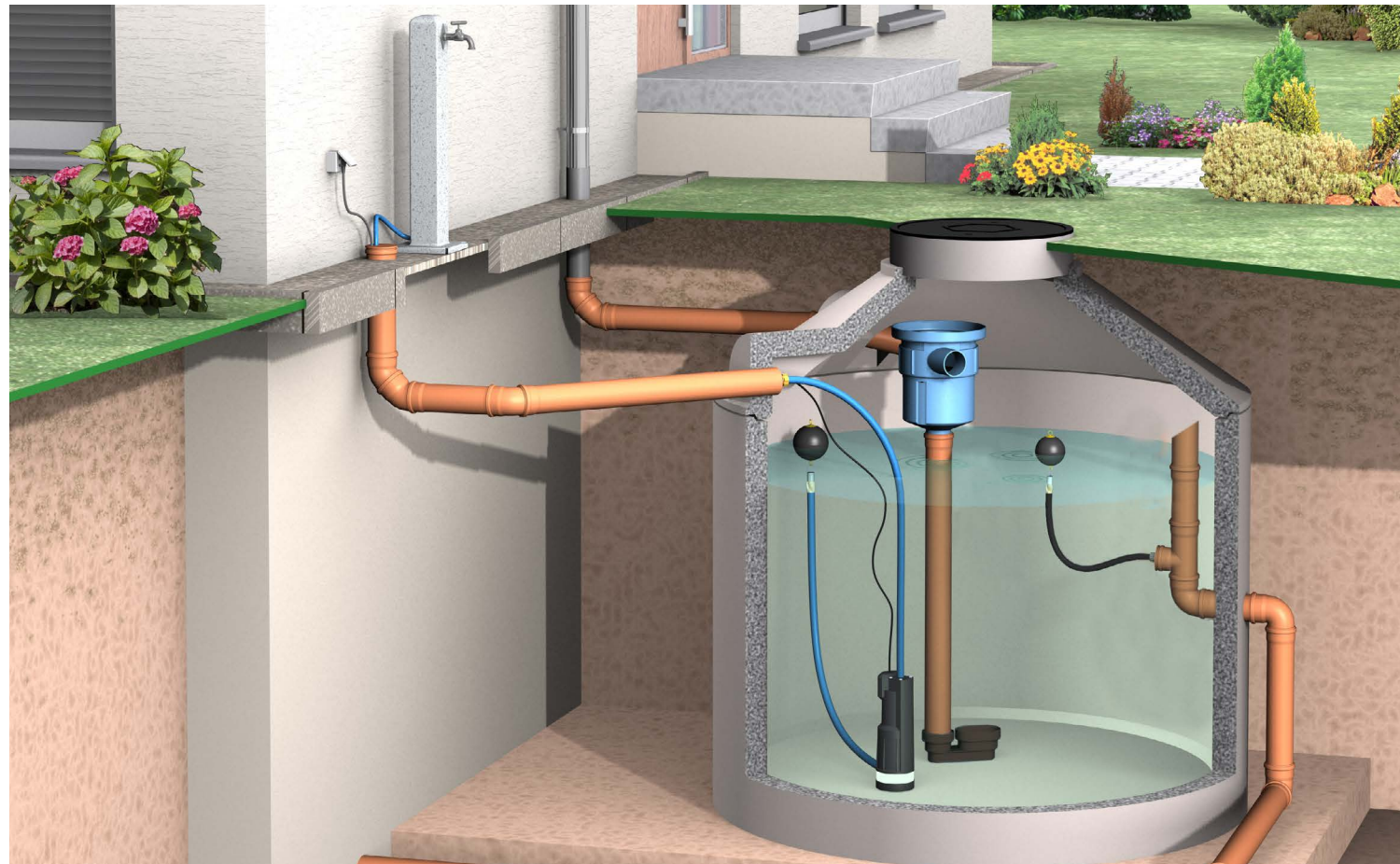
Experimentelle Prüfung der Drosselwirkung
Produkt: 3P Retentionsdrossel 4", 27 bis 87 mm
Firma 3P Technik Filtersysteme GmbH, Robert Bosch Strasse 16-18/2337 Bad Überkingen/Heiden

Gegenstand der Untersuchung war die Messung des Durchflusses verschiedener Drosselstärken im Ablauf einer Retentionsanlage zur Regenwasserhaltung. Der Durchfluss wurde volumetrisch ermittelt. Beispielhaft war die Zeit für zum Erreichen eines Abflusses von 100 l. Die Prüfung erfolgte mit heissen Wasser. Die Öffnung der Drossel wurde über einen Schieber konstant 20 cm unterhalb des freien Wasserstands gehalten. Es wurden 7 verschiedene Öffnungsweiten untersucht, die in die Drosselstärke eingeteilt werden.



Prüfbedingungen	Öffnungsweite	Durchfluss
Prüfmedium: Trinkwasser	27 mm	3,05 l/min
Wasserstand über Öffnung: 20 cm	32 mm	4,73 l/min
Retentionsbehälter: 27 bis 87 mm	37 mm	6,00 l/min
	42 mm	7,23 l/min
	47 mm	8,57 l/min
	52 mm	10,25 l/min
	57 mm	12,07 l/min
	62 mm	13,92 l/min
	67 mm	15,87 l/min
	72 mm	17,92 l/min
	77 mm	19,97 l/min
	82 mm	22,02 l/min
	87 mm	24,07 l/min
	no throttle	26,12 l/min

Prof. Dr.-Ing. Matthias Uhl
Münster, den 16.04.2012





3P Flow Regulator 1"

Art.-No. 4000810

3P Flow regulator for retention reservoir. Constructed like a floating withdrawal with floating ball and filter basket. The throttle element is located between the filter basket and the hose nozzle. The throttle volume is adjusted at the throttle element.

- Hose dimension: 1"
- Hose length: 1.3 m
- Sleeve plug: KG 2000 DN 100
- Floating ball with 140 mm diameter

Flow rates in litres / second

0,07 0,13 0,17 0,23 0,25 0,29 0,40 0,45



3P Flow regulator 2"

Art.-No. 4000830

For description see 3P Flow regulator 1".

- Hose dimension: 2"
- Hose length: 1.5 m
- Sleeve plug: KG 2000 DN 100
- Floating ball with 140 mm diameter

Flow rates in litres / second

0,66 0,80 0,88 1,00 1,05 1,11 1,14 1,64



3P Flow regulator 3"

Art.-Nr. 4000840

For description see 3P Flow regulator 1".

- Hose dimension: 3"
- Hose length: 1.5 m
- Sleeve plug: KG 2000 DN 125
- Floating ball with 220 mm diameter

Flow rates in litres / second

0,83 1,25 1,61 1,69 1,89 2,04 2,44 2,94 3,13 3,85



3P Flow regulator 4"

Art.-Nr. 4000850

For description see 3P Flow regulator 1".

- Hose dimension: 4"
- Hose length: 1.5 m
- Sleeve plug: KG 2000 DN 150
- Floating ball with 220 mm diameter

Flow rates in litres / second

3,68 4,73 6,92 7,33 8,57 10,53 12,70



Report Available
**FULLY
TESTED**



3P Inox attenuation flow regulator

Art.-No. 4000800

Device for installation in the retention tank. The 3P Inox attenuation flow regulator ensures a regular, predefined outflow. The flow rate is adjustable (5 levels). The movable arm and brushes attached to the regulator ensure that the regulator opening does not become dirty and thus requires little maintenance.

Compared to a conventional static outflow regulator, the outflow from the 3P Inox attenuation flow regulator adapts to the current water level in the retention facility, so that the maximum permissible outflow is already reached at the beginning of the reservoir filling. With conventional regular elements, the maximum permissible discharge is usually only reached at the highest water level in the retention facility; at lower water levels, the throttle capacity decreases accordingly. Thus, when using the 3P retention throttle Inox, the required retention volume can be reduced by approx. 30 %.

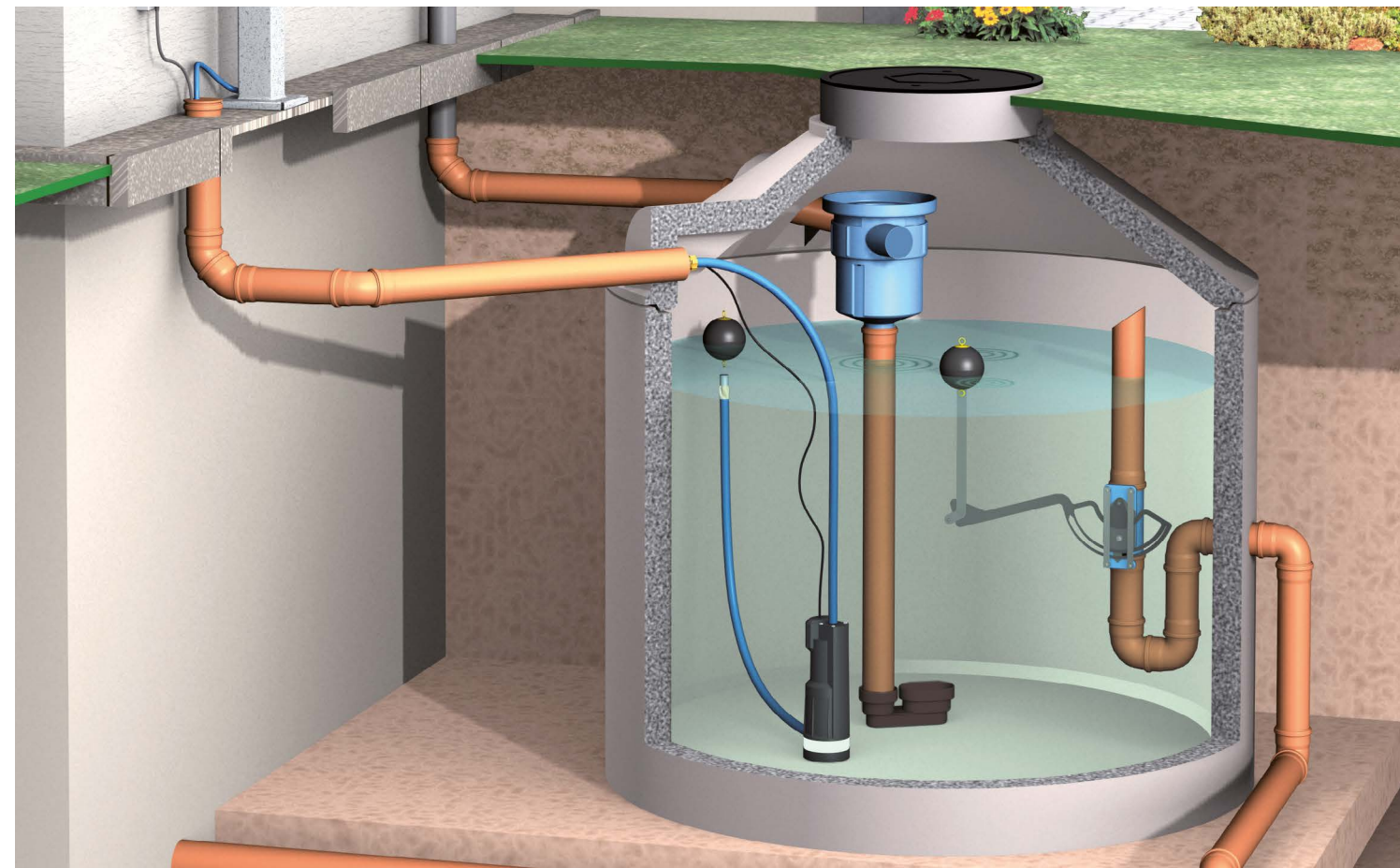
The 3P retention throttle Inox also has the advantage over a static throttle that blockage or clogging of the outlet opening cannot occur. Depending on the water level, the sickle-shaped orifice plate in front of the opening is moved so that any impurities that may be present are permanently sheared off with the help of a pair of brushes. This ensures that decentralised retention of private properties is guaranteed in the long term without any maintenance effort.

- Blue flow regulator body: DN 100
- Dimensions: 390 x 515 mm
- Material: Polyethylene
- Material crescent orifice and arm:
- Stainless steel of different alloy
- Material floating ball: polyethylene
- Material brushes: PVC and polyethylene



Flow rates in litres per second

Aperture	A	B	C	D	E
Q l/sec	0,40	0,35	0,30	0,20	0,10





3P Flow regulator 1,0 - 30 l/s

Construction method:
The dynamic opening of the orifice plate in conjunction with the float adjusts the flow to the water level. Thus, a continuous flow is achieved even if the retention level should be higher or lower. Tested action height: up to 1.75 m

Individual parts:
The plastic body performs the function of the load-bearing component. A connection of DN 200 is possible here. Furthermore, the retention height can be adjusted individually by attaching an overflow pipe.

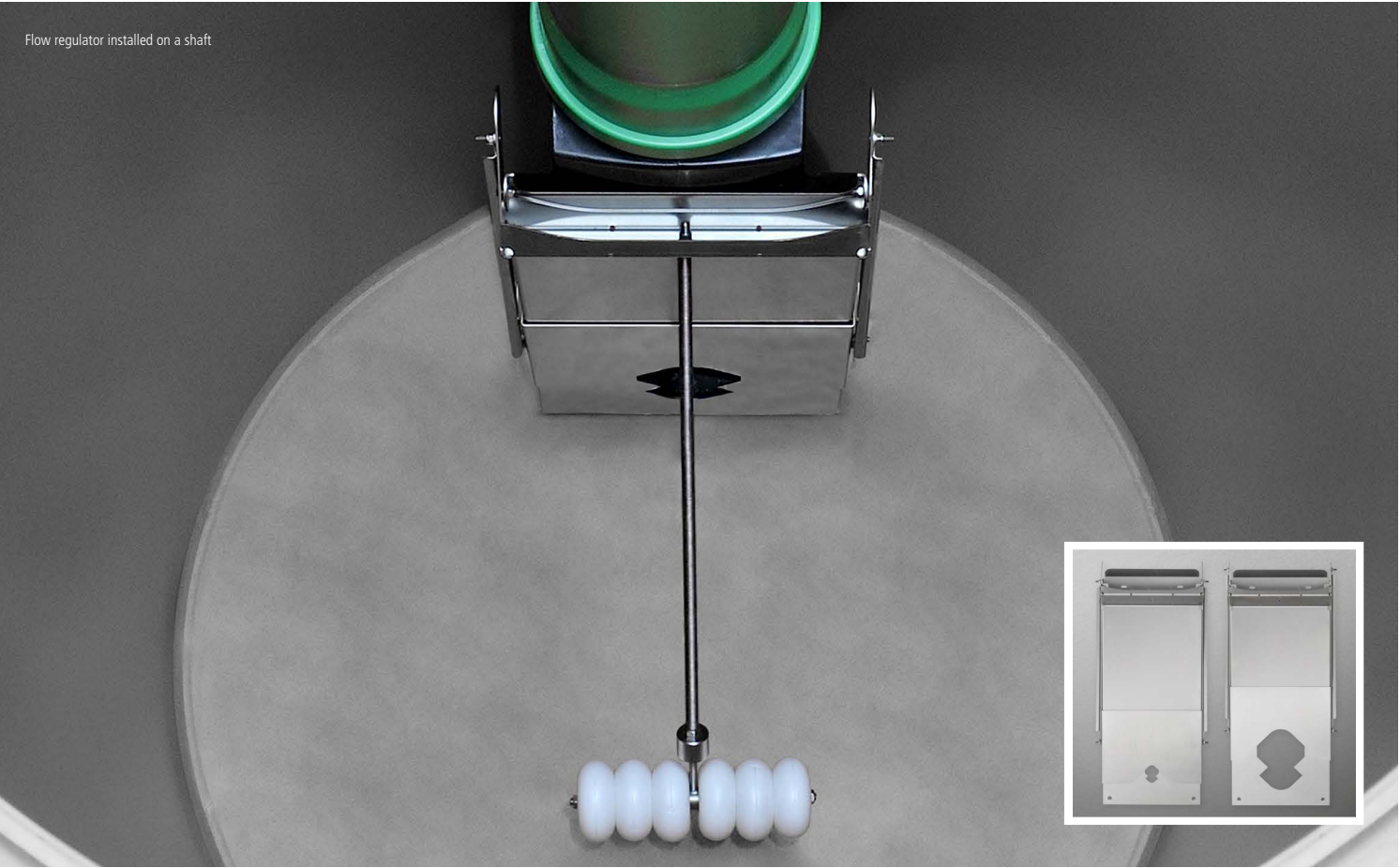
The orifice plates are individually defined and tested for each flow.

Drainage values:
The Flow values were tested and defined for discharges at an impoundment height of up to 1.75 m. defined. This means that the throttles can be offered with a dynamically adjusted constant flow rate in various capacities.



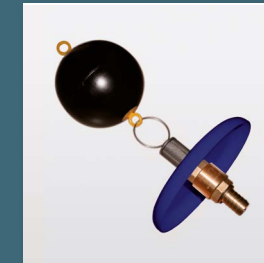
Art.-No. 4000443	3P Drainage throttle	1,0 l/s	Art.-No. 4000436	3P Drainage throttle	15,0 l/s
Art.-No. 4000430	3P Drainage throttle	2,5 l/s	Art.-No. 4000437	3P Drainage throttle	17,5 l/s
Art.-No. 4000431	3P Drainage throttle	4,5 l/s	Art.-No. 4000438	3P Drainage throttle	20,0 l/s
Art.-No. 4000444	3P Drainage throttle	5,0 l/s	Art.-No. 4000439	3P Drainage throttle	22,0 l/s
Art.-No. 4000432	3P Drainage throttle	7,0 l/s	Art.-No. 4000440	3P Drainage throttle	24,0 l/s
Art.-No. 4000433	3P Drainage throttle	9,0 l/s	Art.-No. 4000446	3P Drainage throttle	25,0 l/s
Art.-No. 4000445	3P Drainage throttle	10,0 l/s	Art.-No. 4000441	3P Drainage throttle	26,5 l/s
Art.-No. 4000434	3P Drainage throttle	11,5 l/s	Art.-No. 4000442	3P Drainage throttle	30,0 l/s
Art.-No. 4000435	3P Drainage throttle	13,5 l/s			

Flow regulator installed on a shaft



COMPONENTS 4 STEPS CLEANING

To ensure optimum water quality,
rely on the four purification stages: Filter;
Calmed inlet; Siphon; Floating withdrawal.





3P Overflow siphon UNO DN100

Art.-No. 4000260

for plastic cisterns

Overflow with odour trap and suction of surface water. With special threaded connection DN 100, ideal for thin-walled rainwater storage tanks.

- With integrated rodent barrier
- Dimensions: 540 x 190 x 270 mm
- Material: polyethylene
- Union nut: DN 100 with O-ring



3P Overflow siphon UNO DN100

Art.-No. 4000265

for concrete cisterns

Overflow with odour trap and extraction of surface water.

- DN100, ideal for concrete rainwater storage tanks
- With integrated rodent barrier
- Dimensions: 660 x 190 x 270 mm
- Material: polyethylene



3P Backwater flap UNO

Art.-No. 4000930

Features like the 3P backwater flap DN 100 (p.146), additionally with special overflow siphon UNO, overflow with odour trap and suction of surface water.

- Dimensions: 850 x 260 mm



3P Backwater flap DUO

Art.-No. 4000940

Features as the 3P backwater flap DN 100, additionally special overflow with odour trap and suction of surface water. The 3P DUO backwater flap is installed between the filter and the overflow connection in the rainwater storage tank. This eliminates unnecessary installation time and fittings. The fixed height offset in the overflow siphon prevents installation errors and thus ensures function. Overflow siphon with a snorkel on both sides of the surface water in the rainwater storage tank, no passage for rodents.

- Dimensions: 850 x 480 mm



Operating principle:

Dirt particles that are lighter than water (e.g. pollen) slowly rise and float on the water surface. This floating layer is removed by the special shaped overflow siphon with skimmer effect. DN 50 connection pipe to use a HT pipe as a support pipe. Is supported on the rainwater storage wall. The overflow siphon is filled with water (odour trap). If the storage tank has a low water level the support helps to keep the overflow siphon in the correct position.



3P Overflow siphon DUO DN100 Art.-No. 4000200

Overflow with odor trap and suction of surface water. The 3P overflow siphon DUO DN 100 is mounted between the filter and the overflow connection in the rainwater storage tank. This eliminates unnecessary installation time and fittings. The fixed height offset in the overflow siphon prevents installation errors and thus ensures proper functioning. Overflow siphon with a snorkel on both sides of the surface water in the rainwater storage tank.

- Height offset: 125 mm
- No passage for rodents
- Connection pipe for support tube available
- Connection: DN 100
- Material: polyethylene
- Dimensions: 500 x 360 x 480 mm

Operating principle:

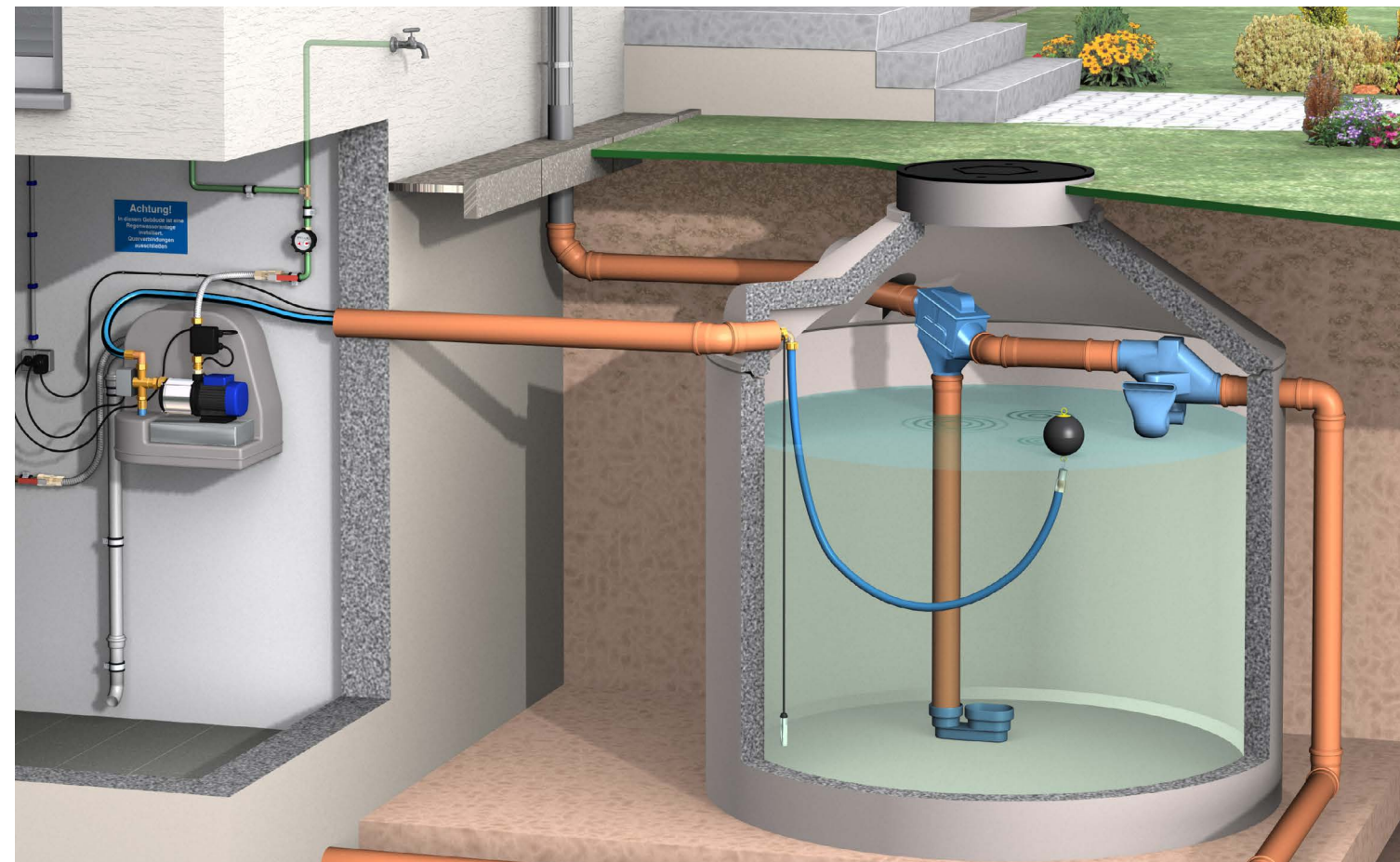
Particles that are lighter than water (e.g. pollen) slowly rise and float on the water surface. This floating layer is removed when the cistern overflows by the specially shaped overflow siphon with skimmer effect. DN 50 connection pipe to use a HT pipe as a support pipe. Is supported on the rainwater storage wall. The overflow siphon is filled with water (odour trap). If the storage tank has a low water level, the support helps to keep the overflow siphon in the correct position.



3P Overflow siphon MONO DN100 Art.-No. 4000250

Overflow with odour trap and suction of surface water. Overflow siphon with a snorkel on both sides of the surface water in the rainwater storage tank. Regular overflowing of the cistern is important for consistently good water quality to prevent the water from „rotting“. The floating layer could seal off the water surface in such a way that no oxygen can get into the water and therefore an anaerobic decomposition process could take place.

- No passage for rodents
- Connection: DN 100
- Dimensions: 500 x 360 x 480 mm





3P Flat tank siphon DN100 (32cm) 3P Flat tank siphon DN100 (36cm)

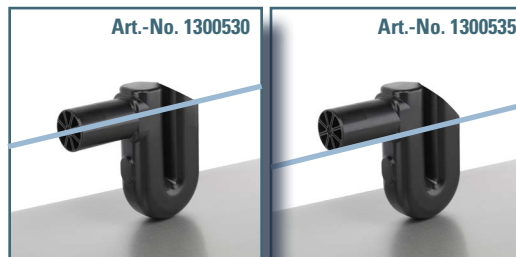
Art.-No. 1300530
Art.-No. 1300535

with plastic rodent barrier

The siphon for shallow tanks offers the possibility of achieving optimum water quality even with low tank heights. By cutting the outlet to the appropriate length, the siphon can safely drain off the upper water layer and prevent unpleasant odours. The siphon offers you the option of storing the water up to 50% of the height of the drain pipe or discharging it directly at the level of the bottom.

- Dimensions: 390 x 430 x Ø 110 mm
- Material: polyethylene
- Ready to plug in component

Water level



3P Overflow siphon DN100

Art.-No. 4000218

without height offset

Siphon trap to the sewer without rodent barrier.

- Dimensions: 425 x 560 x 110 mm
- Material: polyethylene
- Ready to plug in component



3P Overflow siphon DN100 with stainless steel rodent barrier

Art.-No. 4000310

Trap to the sewer with integrated rodent barrier made of stainless steel.

- Dimensions: 425 x 560 x 110 mm
- Material: polyethylene
- Ready to plug in component



3P Overflow siphon DN100

Art.-No. 4000315

with plastic rodent barrier

Trap to the sewer with rodent barrier made of plastic.

3P Overflow siphon DN100

Art.-Nr. 4000210

Standard without rodent barrier

- Dimensions: 425 x 560 x 110 mm
- Material: polyethylene
- Ready to plug in component





3P Overflow siphon DN150

Art.-No. 4000360

Standard without rodent barrier

Overflow siphon with odour trap DN 150 to be installed in the drain to the sewage system.

- Dimensions: 785 x 385 x 470mm
- Material: polyethylene
- Ready for connection
- Without rodent barrier



3P Overflow siphon DN150

Art.-No. 4000365

without height offset

Overflow siphon with odour trap DN 150 which is installed between the filter and the sewage system.

- Dimensions: 785 x 385 x 470mm
- Material: polyethylene
- Ready for connection
- Without rodent barrier



3P Overflow siphon

DN200 Art.-No. 4000285

DN250 Art.-No. 4000295

with stainless steel rodent barrier

Overflow with odour trap and suction of surface water. No passage for rodents due to stainless steel sheet cover. Regular overflowing of the The regular overflowing of the cistern is important for a consistently good water quality in order to prevent the water from „rotting“.

The floating layer can seal off the water surface in such a way that no oxygen can get into the water and an anaerobic decomposition process can take place. Specially designed for use in large systems. The 3P overflow siphon DN 200 / DN 250 can be connected with a plastic pipe DN 200 / DN 250. The overflow siphon must be securely mounted in the cistern as it has a considerable weight when filled. When the water level is low, the buoyancy force is missing. For this reason, the overflow siphon is fixed in the cistern via several eyelets. It can also be supported on the wall of the rainwater storage tank with a 50 mm HT pipe.

- Connection: DN 200 / DN 250
- Material: Polyethylene
- Rodent barrier: stainless steel
- Dimensions: 375 x 659 x 765 mm

Operating principle:

Dirt particles that are lighter than water (e.g. pollen) slowly rise and float on the water surface.

This floating layer is removed when the cistern overflows by the specially shaped overflow siphon with skimmer effect. The floating layer could close off the water surface in such a way that anaerobic decomposition would take place.

- 1 Inlet with rodent barrier
- 2 Eyelets for suspension
- 3 Connection spigot DN 50, to use a HT pipe as a support pipe as a support pipe
- 4 Drain DN 200 / DN 250



DN 250



DN 200

3P Floating Suction fitting 1"

Art.-No. 4000600

The floating intake fitting is the fourth purification stage in rainwater harvesting. The rainwater should not be taken directly from the lowest point in the cistern, as otherwise sediment particles will be stirred up and carried along. Therefore, it is recommended that the water be taken from higher regions in the cistern.

Consisting of:

- Floating ball: Ø 140 mm
- Filter basket mesh size: 1.2 mm
- Check valve: 1" with hose nozzle and washer



3P Floating Suction fitting 1"

with 1,5m hose Art.-No. 400061
with 2,0m hose Art.-No. 400062
with 2,5m hose Art.-No. 400062
with 3,0m hose Art.-No. 400063

3P Floating suction fitting with suction hose for extracting rainwater from the rainwater storage tank, for connecting PE pipes, Ø 32 mm.

Consisting of:

- Floating ball: Ø 140 mm
- Filter basket mesh size: 1.2 mm
- Check valve: 1" with hose nozzle and washer
- Connection angle for 1" PE pipes
- Suction hose: 1.5 - 3 m



3P Pump base with floating suction fitting

Art.-No. 4000680

Consisting of:

- Pump foot (PE) for submersible pressure pumps Ø 130 mm (not included)
- Floating ball: Ø 140 mm
- Filter basket
- Suction hose 1": 1 m
- Double socket



3P Suction fitting for submersible pumps

Art.-No. 4000908

3P Floating suction fitting for submersible pumps for extracting rainwater from the rainwater storage tank.

Consisting of:

- Floating ball: Ø 140 mm
- Filter basket
- 1.5 m suction hose Vacu-Press
- Spacer
- Connection: Spout brass 1" AG



3P Calm inlet DN100

Art.-No. 4000180

The 3P Calmed Inlet ensures a calm inlet of rainwater within the storage tank. rainwater. The calmed inlet of water prevents the sediment layer from being stirred up, and at the same time oxygen is supplied to the lower part of the storage water. The water remains fresh.

- Dimensions: L: 400 x W: 175 x H: 110 mm
- Material: polyethylene
- Connection possibility: for pipes DN100



3P Calm inlet DN125

Art.-No. 4000100

Ensures a calm inlet of rainwater within the storage tank. Fine dirt particles remaining in the water slowly sink to the bottom, forming a Sediment layer. sediment layer, which has been proven to have a positive influence on the stored rainwater. Rainwater storage tanks with a sediment layer have clearer water. The calm inlet of water prevents this sediment layer from being stirred up. At the same time, oxygen is supplied to the lower part of the stored water. The oxygen prevents anaerobic decomposition in the cistern. The water remains fresh. The 3P Calmed Inlet is the 2nd cleaning stage in the rainwater storage tank.

- Dimensions: L: 320 x W: 155 x H: 100 mm
- Material: polyethylene
- Connection possibility: for pipes DN125



3P Calm inlet DN150 round

Art.-No. 4000190

The 3P Calmed Inlet ensures a calm inflow of rainwater within the storage tank. rainwater. The calmed inflow of water prevents the sediment layer from being stirred up, and at the same time oxygen is supplied to the lower part of the stored water. The water remains fresh. At the same time, the round shape of the 3P Calmed Inlet DN 150 stabilises the installation of the entire filter system.

- Dimensions: Ø 340 mm x H: 105 mm
- Material: polyethylene
- Component ready for connection



3P Calm inlet

DN200/DN250/DN300

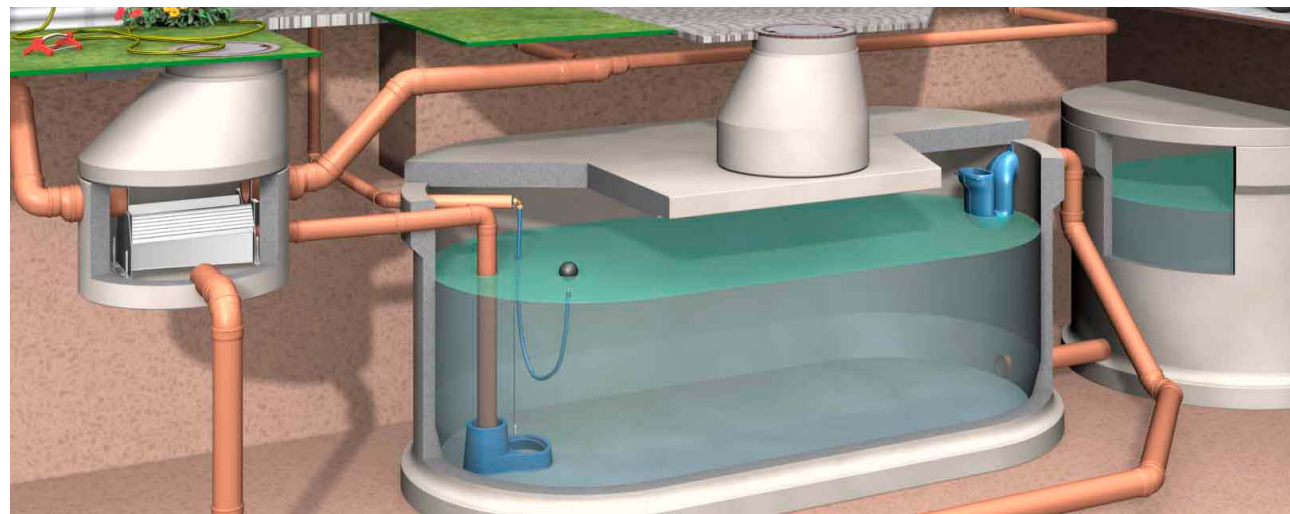
DN200 Art.-No. 4000155

DN250 Art.-No. 4000160

DN300 Art.-No. 4000165

Ensures a calm inflow of rainwater within the rainwater storage tank. Fine dirt particles remaining in the water slowly sink to the bottom. A sediment layer forms, which has a proven positive influence on the stored rainwater, because rainwater storage tanks with a sediment layer have clearer water. The calmed inflow of water prevents this sediment layer from being stirred up, and at the same time oxygen is added to the lower part of the stored water. Ideal for use in large systems. The 3P Calmed Inlet can be connected with a plastic pipe DN 150 / 200 / 250 / 300.

- Dimensions: 725 x 527 x 360 mm





3P Suction hose Vacu-Press food-safe

Art.-No. 4000642

The 3P Vacu-Press suction hose consists of two layers and has an internal stainless steel spiral that prevents the hose from kinking.

- Rubber suction hose: Ø 36 mm
- Meter goods suitable for 1" grommets



3P Pump bracket

Art.-No. 5000100

Because the support plate for the pump is suspended and not supported on rubber buffers, vibrations are optimally absorbed and not transferred to the fastening elements.

- Absolutely vibration-damping pump bracket
- For quiet pump operation
- Can be used for various pump types
- Right-left mounting possible



3P Filter Pillows for depth filtration

Set of 2 Art.-No. 4000710

Set of 3 Art.-No. 4000720

Set of 5 Art.-No. 4000730

Specially developed polymer fibre for cleaning rainwater. The combination of different polymer fibres and the deliberately chosen spherical shape guarantees an enormously large filter surface. The resulting 3D filtration enables deep filtration in addition to surface cleaning. Due to the excellent dirt absorption capacity, even the finest dirt particles in the micrometre range can be unerringly removed from the rainwater. Due to the large surface area, semi-annual or annual maintenance or replacement of the 3P Filterpillows is completely sufficient.

- Highest water quality
- Easy filter change
- Easy handling
- For almost all filter types
- Universally applicable
- Low own weight
- High separation efficiency of 8 micrometres
- Fibres certified according to ÖKO-TEX® Standard 100
- Can be retrofitted or extended at any time
- Easy to dispose of
- Durable
- Easy maintenance
- Recycled product



ACCESSORIES



3P Automatic water make-up system

Art.-No. 5000700

The automatic water make-up system is a control system that has been specially developed for monitoring and controlling rainwater tanks and connected domestic waterworks. control The system consists of a control unit, a probe and a solenoid valve.

The control unit is microprocessor-controlled and enables continuous drinking water replenishment in rainwater tanks. The system has dry-running protection and a safety cut-out to prevent damage to the system.

There are two selectable programme times, for normal or increased water consumption. This means that the system can automatically switch between different programme times to optimise the consumption of drinking water while maintaining the rainwater supply in the tank. The automatic replenishment system is easy to use and can be installed quickly.

The 3P automatic water make-up system a very practical solution for monitoring and controlling rainwater tanks and connected domestic waterworks, which enables continuous drinking water make-up and optimises water consumption at the same time.



3P Backwater flap DN100

Art.-No. 4000910

The 3P backwater flap DN 100 prevents wastewater from entering the rainwater storage tank in the event of backwater. It is suitable for installation in DN 100 pipes and consists of a commercially available backwater protection from the wastewater sector. The backwater flap allows the water flow to flow in one direction only. If the water flows in the opposite direction, the flap closes and prevents dirt from entering the rainwater storage tank. The flap is fitted with a special seal.



- Dimensions: W: 500 mm x H: 260 mm

3P Wall bushing DN100

2x Ø 32 mm, 1x Ø 16 mm **Art.-No. 5000300**
 1x Ø 36 mm, 1x Ø 16 mm **Art.-No. 5000310**
 1x Ø 32 mm, 1x Ø 16 mm **Art.-No. 5000320**

Wall bushings seal cables at bushing points. Depending on the application, different wall ducts are required depending on the application.

Usually Ø 32 mm for 1" PE pipe, Ø 36 mm for 1" suction hose, cable for power supply of submersible pumps and for water level measurement Ø 16 mm for the PE pipe of the backwash device.

This opening is always included in our wall ducts, but can be closed with the enclosed plug if not required. A wall duct consists of a 30 mm thick rubber plate with 2 stainless steel plates and screw connections.



3P Pneumatic remote indicator

Art.-Nr. 5000500

Universal, pneumatic level measuring device for remote measurement up to 20 m, with capsule spring measuring mechanism

- Water level height continuously adjustable from 1 m to 2.5 m
- Measuring accuracy $\pm 3\%$ of full scale value
- Zero point correction and overpressure protection
- Adjustable pointer for easy consumption control
- Housing made of impact-resistant plastic for wall mounting
- Display in % filling level



3P Pipe clamp set DN100

3P Pipe clamp set DN150

Art.-No. 4000331
Art.-No. 4000334

For fastening the retention throttles consisting of:

- 2 pcs. V2A threaded rods
- 2 pcs. M8 brass dowel
- 2 pcs. Pipe clamps DN 100 / DN 150



3P Labelling set

Art.-No. 4000700

Labelling set for rainwater utilisation systems according to DIN 1989. Each rainwater utilisation system should be labelled accordingly with information signs.

According to DIN 1989 rainwater utilisation systems consisting of:

- Sign: „Attention! A rainwater system is installed in this building.“ Exclude cross connections.“ Plastic, 2 mm thick, 200 x 150 mm, blue background, white lettering
- Notice sign: „No drinking water“ Plastic, 1 mm thick, 120 x 60 mm, white background, red lettering
- Route warning tape: „No drinking water“ 0.14 mm thick, 10 m x 40 mm, yellow background, black lettering
- Pipe marking tape: „No drinking water“ Width: 76 mm, green background, white lettering
- Prohibition and instruction sign, diameter: 100 mm, white background, red symbol



3P Lip seal NW 100

Art.-No. 7000598

Rubber lip seal DN 100 for producing tight pipe penetrations in plastic cisterns with wall thicknesses of 8 to 12 mm.

- For plastic cistern



3P hole saw set Ø 64 - 127 mm

Art.-No. 9000274

The 3P hole saw set for professional drilling of holes in plastic cisterns.

- With diameters of 64 mm, 76 mm, 89 mm,
- 102 mm and 127 mm
- For plastic cisterns



3P BOX

Collect rainwater everywhere,
filter and use it in a targeted manner.

3P BOX

- ✓ 3D depth filtration
- ✓ Manual first throw
- ✓ Integrated pump
- ✓ Summer and winter operation
- ✓ Integrated overflow
- ✓ Automatic start function
- ✓ Easy installation and maintenance
- ✓ Retrofittable to any downpipe 868mm-100mm)
- ✓ Conveys rainwater upwards
- ✓ Independent of the location of the rainwater tank

NEW

...no more wasting valuable rainwater!

Further information
about the 3P BOX
p.108 -113





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