

## 3P Hydrosystem 400 roof

The Connected Area is a function of the local rainfall intensity and amounts for each country. 3P will advise.

The filter function is an up-flow process and this allows for a design with minimal height difference between inlet and outlet.

The cleaned water has an excellent water quality.

The rainwater is cleaned by basic operation of the following processes: Sedimentation, Adsorption, Filtration, and Chemical Precipitation.

Incoming rainwater is led down to the basal section of the filter shaft.

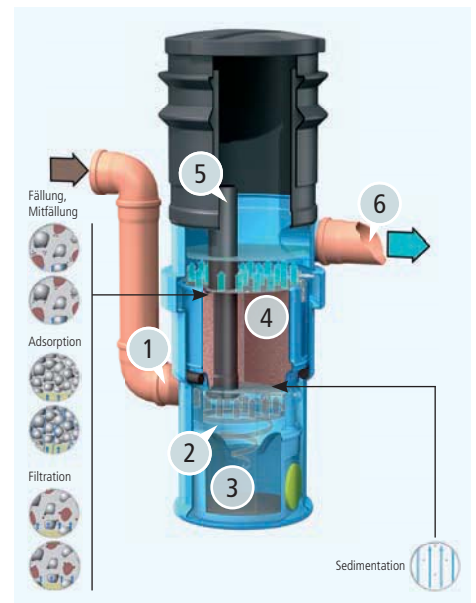
A hydrodynamic separator built in the base section promotes particulate sedimentation.

The water is led into this separator tangentially and generates a radial flow pattern. Particles settle into the silt trap located below the separation chamber. As there is no current there is little remobilisation (washout) of the retained sediment. Above the separation chamber is the filter element, occupying the full shaft width and so all water must flow up through it. The Siltation of this filter is slowed due to the upwards flow, and the fact that the filter is below the water level. The filter is easily exchanged. The complete single filter element is removed using the handle inside the overflow pipe. Under normal conditions the filter will last for 2 years, maintenance free.



## Function Principles:

1. The rainwater from the connected area is fed into the basal section of the filter housing.
2. The hydrodynamic separator converts turbulent waters into a radial laminar flow pattern, generating particle sedimentation, particularly of the sand fraction.
3. The sediment is retained in a silt trap chamber below the separator. The silt trap can be withdrawn for cleaning, and has an integral cleaning port to the side to ease dirt removal.
4. The actual filter is situated in the central section of the filter. The filter element filters out the fine materials in an up-flow process and dissolved materials are precipitated and adsorbed. The filter can be backwashed and can be exchanged easily in the case of a complete sealed surface.
5. Bypass with overflow.
6. Outlet for the cleaned water.



## Technical Data:

Rainwater filter complying with DIN 1989-2, Type b.  
Connectable area determined from local rainfall conditions.  
Connections at DN110, 110mm spigots.

Filter Element:  
Material: Filter Substrate roof.  
Weight: 25 kg.

Housing:  
Material: Polyethylene.  
Housing: 7 kg.

Telescopic Extension Tube:  
Material: Polyethylene.  
Weight: 5 kg.

Total weight: 37 kg

For installations directly in the ground the 3P Telescopic Extension can be used (see Plate opposite). The 3P Telescopic Extension can be used between a minimum of 250 mm and a maximum of 750 mm.

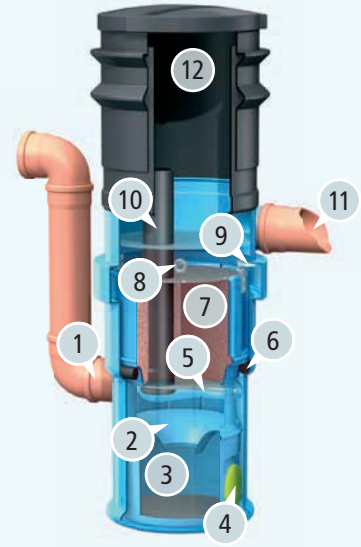


## Installation Example 1:

The 3P Hydrosystem 400 roof, installed before a rainwater tank. To further reduce the maintenance intervals you can use a pre-filter(s). For example a 3P Leaf Separator or 3P Rainus.



1. Rainwater Inlet.
2. Separator.
3. Silt Trap.
4. Opening for cleaning of Trap.
5. Removal handle of the silt trap.
6. Rubber seal (Ø 30 mm).
7. Filter Element with substrate and
8. Removal handle of the filter element.
9. Locking buoyancy control system (2pieces)
10. Overflow/Bypass pipe.
11. Outlet to rainwater tank and or soakaway system.
12. Telescopic extension.



## Specifications Text:

Number	Quantity	Description	Price in € / £
1.1	_____	3P Hydrosystem 400 roof Special rainwater filter for installation before rainwater tanks or infiltration system.. Cleaning steps with special substrate. No height difference between inlet and outlet. Connections DN110. For roof areas until 175 m <sup>2</sup> Filter compliant with DIN 1989-2 with foreign particle retention.	_____
1.2	_____	3P Telescopic Extension. Plastic extension shaft (PE) for installation with 3P pre-tank filters The 3P Telescopic Extension can be connected either to the filter direct or onto other extension tube using the bayonet connection system.	_____

## Accessories 1:

3P Telescopic Extension,  
Art. No.: 1000560

Plastic telescopic extension shaft for installation direct in the ground.  
Material: Polyethylene.



## Accessories 2:

3P Filter Element Roof:  
Art. No.: 3100415

For the 3P Hydrosystem 400 roof.



## Packaging Information:

6 units per pallet  
(without telescopic extension).

EAN: