

## Description:

Rainwater filter for installation within rainwater tanks made of polyethylene or concrete.

Ideal for conversion of existing tanks, because the 3P Sinus Filter has no height difference between rainwater inlet and outlet to the wastewater sewer. The filter cartridge lies diagonally in the housing, therefore even more water can be safed in comparison to convential filters.

Retro-fitting with 3P Backwashing Device PF + SF is possible. The 3P Sinus Filter is ideally suited for use in combination with a 3P Overflow Siphon Duo and the 3P Calmed Inlet. Connection capacity after DIN 1986:

for roof areas up to 213 m<sup>2</sup> at a rainfall capacity of 300l/(sxha)

All connections: DN 100

Height difference of 0 mm between rainwater inlet and sewerwater outlet

Mesh size of filter cartridge: 0,7 x 1,7 mm

The cleaned water can be used in washing machines, toilet flushing and garden watering. Maintenance several times during a year depending on the contamination.

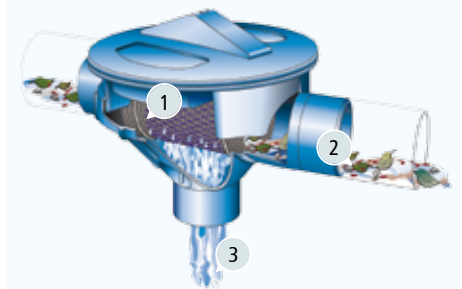


## How it works:

1. Rainwater is led onto the filter cartridge and because of its inclination the water is slowed down
2. Because of the smooth surface structure of the filter the dirt is quickly rinsed away into the sewer
3. The cleaned rainwater is led through the plastic netting into the tank

## Advice:

Due to the horizontal position of the filter cartridge, the filter gets dirtier more rapidly as a filter cartridge with steep inclination. We therefore recommend using the 3P Backwashing Device and constant cleaning with detergent and brush in order to degrease the filter netting (Pollen are containing much grease thus the water rolls off on the surface)



## Technische Daten:

Filter according to DIN 1989-2, Typ C

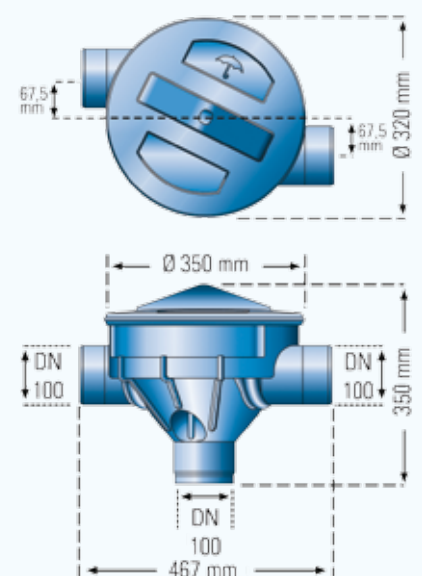
Inlet rainwater: DN 100  
 Outlet to storage: DN 100  
 Outlet to sewer: DN 100

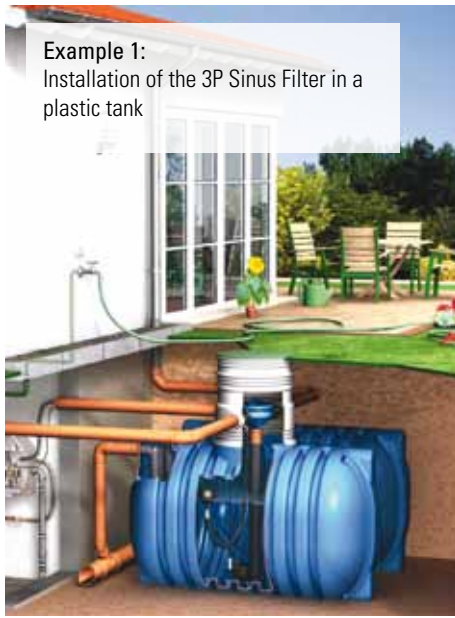
Height difference between rainwater inlet and outlet: 0 mm

Housing material: Polyethylene  
 Material filter cartridge: Stainless steel 1.4301  
 Material Poly-Net: Polyethylene

Mesh size: 0,7 x 1,7 mm

Weight: 2,1 kg

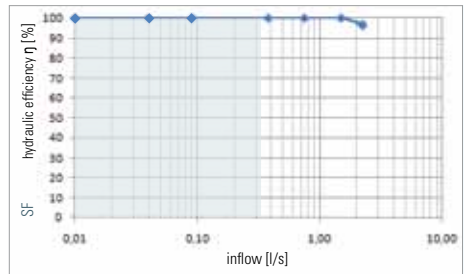




**Example 1:**  
Installation of the 3P Sinus Filter in a plastic tank



**Example 2:**  
Installation of a 3P Sinus Filter in a concrete tank in conjunction with a 3P Overflow Siphon Duo and a 3P Calmed Inlet



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

80% of the average intensity of rainfall in Germany is under 15 l/(sxha), resulting a volume flow rate of 0,32 l/s with a roof area of 213 m<sup>2</sup>.

Diameter of tube	maximum flow rate	connectable area max. 200 l/(sxha)	connectable area max. 300 l/(sxha)
DN	l/s	m <sup>2</sup>	m <sup>2</sup>
100	6,4	320	213

**Text for invitation of tenders:**

Pos.	Quantity	Article	Price in €
1.1	_____	3P Sinus Filter Rainwater filter for installation within rainwater tanks, without height difference between inlet and outlet Inlet rainwater: DN 100, Outlet to sewer: DN 100, Outlet to storage: DN 100  Filter cartridge: made of stainless steel, Mesh size: 0,7 x 1,7 mm  Integrated backwashing device possible  Connection capacity according to DIN 1986: for roof areas up to 213 m <sup>2</sup> at a rainfall intensity of 300l/(sxha)	_____

**Accessory 1:**

3P Backwashing Device PF + SF  
Art.-Nr. 1000355  
consisting of: 10 m of PE hole 16 mm with connection fittings and the 3P Backwashing Device, retro-installation possible



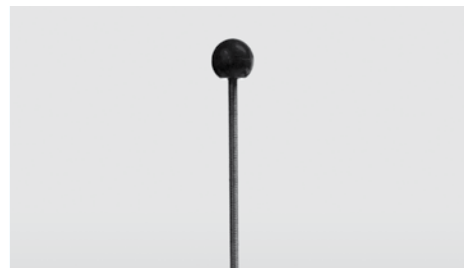
**Accessory 2:**

3P Automatic Backwashing Device  
Art.-Nr. 1000356  
consisting of: 3P Backwashing Device, Profi Connection Set and Programmable Timing Device



**Accessory 3:**

3P Removal Handle Art.-Nr. 1000550  
For filter removal in deeper installations  
Length: 50 cm



**Packing unit 3P Sinus Filter:**

m<sup>3</sup>-Carton: 18 pieces  
Pallet: 36 pieces