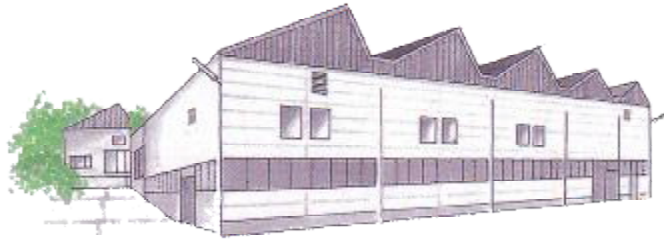


Rainwater Utilization & Benefits



The German Model



**Engineering with
nature**



**Experienced in rainwater
harvesting since 1990**

**Leading developer and manufacturer of
rainwater filters and rainwater
harvesting systems**



**Worldwide unique self-cleaning filter
systems for a better water quality**

RAINWATERHARVESTING

*The most natural resource -
directly from nature*

















Best practice
WISY Vortex Fine Filters



Engineering with nature



Residential building, 6 persons – Hammerbach
Germany, 1,938 ft² of roof area
1 x WFF 100; Toilets / laundry / garden



City- and sports-hall, 2,000 persons
Altenstadt, Germany, 26,910 ft² of roof
area - **4 x WFF 150; Toilets / irrigation**



Monastery with church, 80 persons
Engelthal, Germany; 12,917 ft² of roof area
1 x WFF 300 + 1 x WFF 150; Toilets / garden



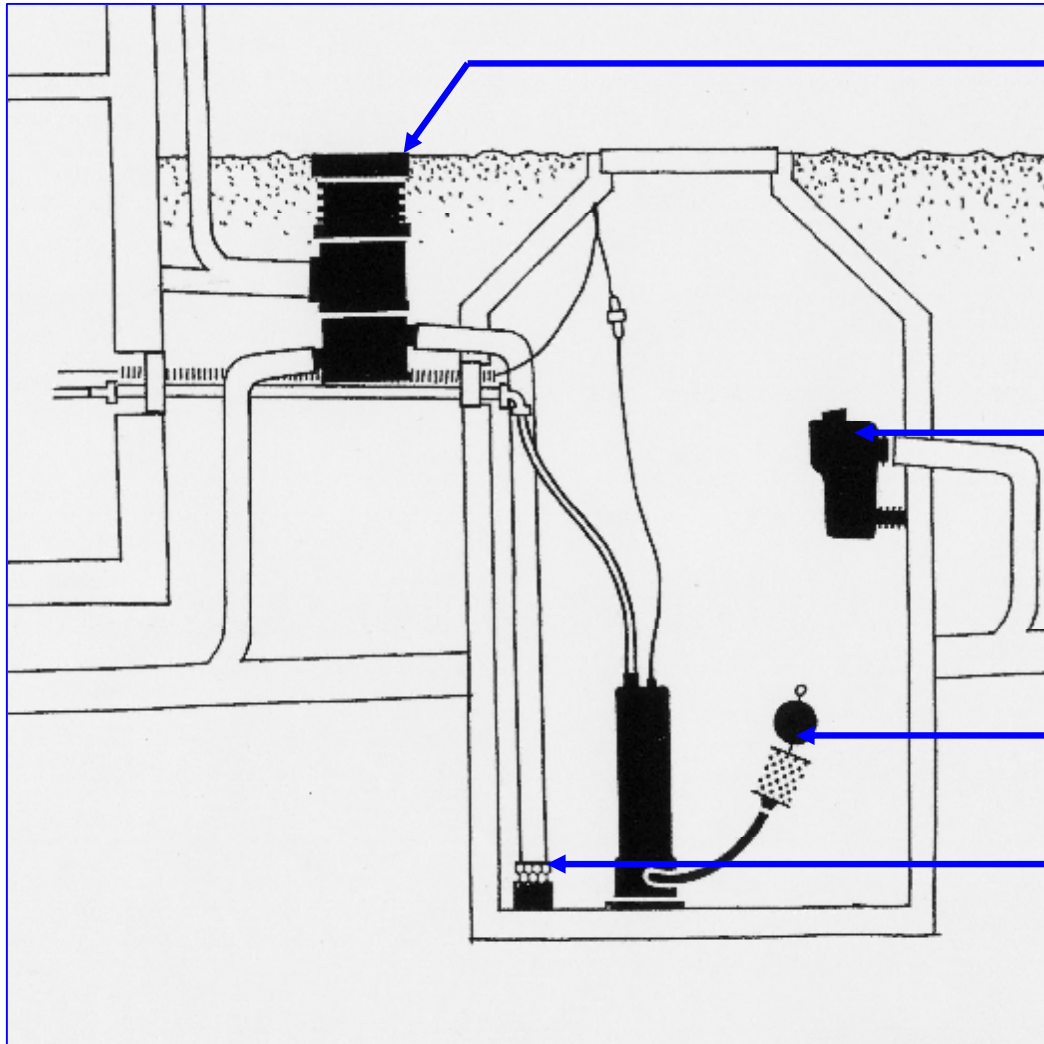
German Industry Lobby, 1,000 persons
Berlin, Germany, 43,056 ft² of roof
2 x WFF 300; Toilets / fire-fighting / irrigation



Clean rainwater : WISY- 4-step-System



Engineering with nature



Self-cleaning Filters
for fine filtration
and oxygenation



Multifunction overflow
for a clean water surface
protects water quality

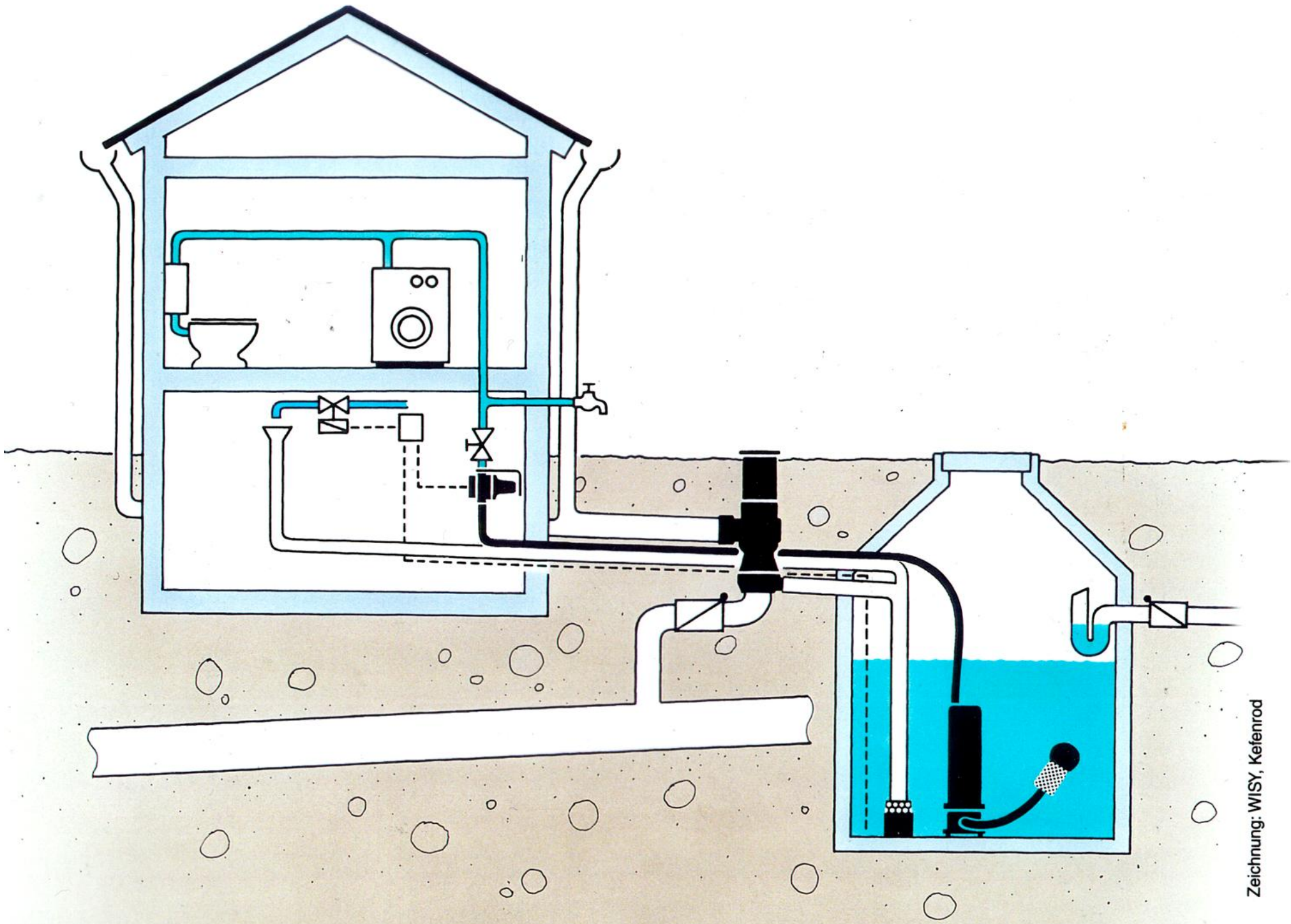


Harvest the cleanest
water by using a **Floating**
Suction Filter



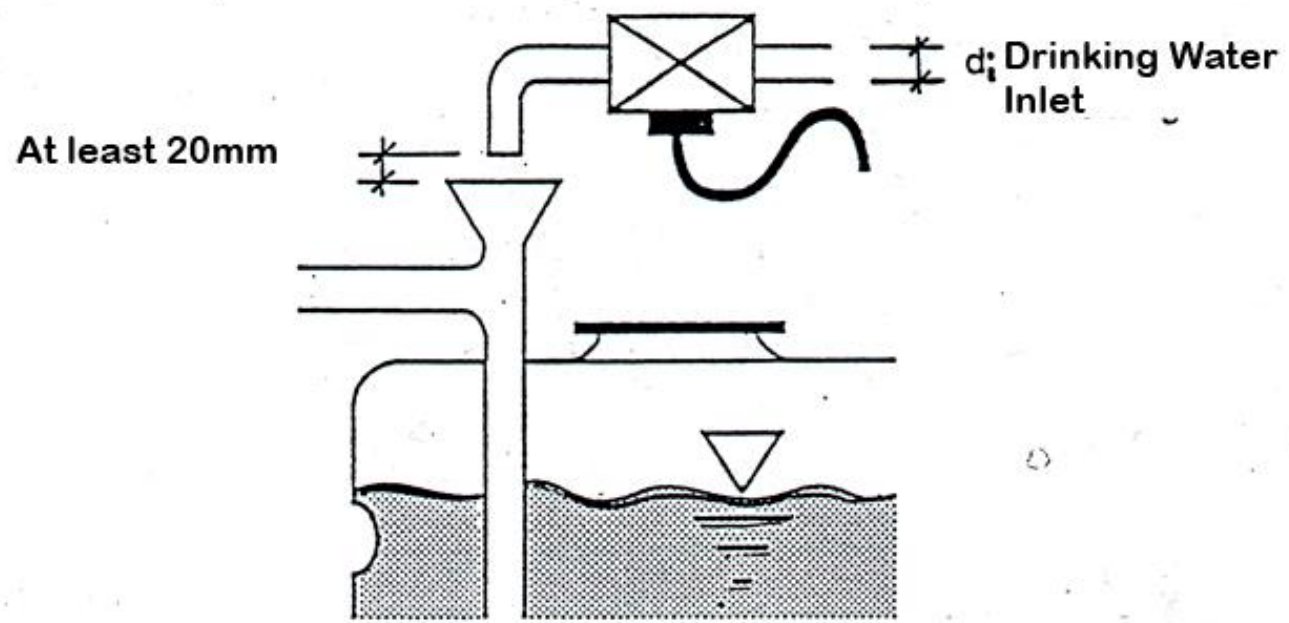
Smoothing Inlet for
stable sedimentation
and oxygenation





Zeichnung: WISY, Kefenrod

Adding Drinking Water



Calming Inlet



Bulkhead Adapter



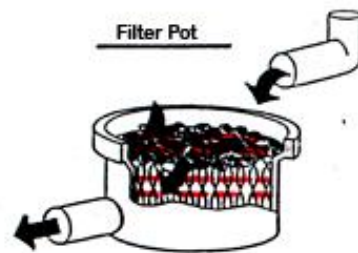
Properly Constructed Overflow



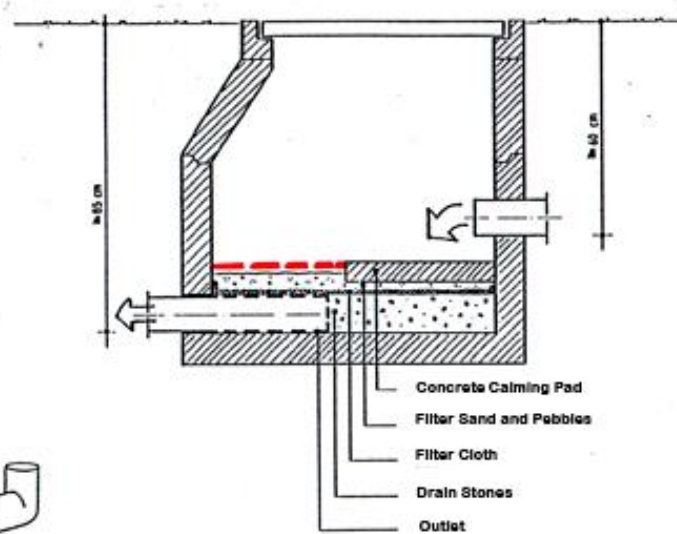
Basic filter design types. "First flush" type filters never "filter".

Marketplace Filter Systems

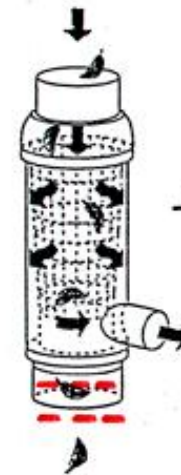
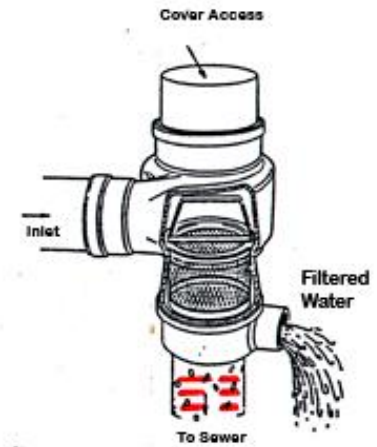
Downpipe with Shutter



Filter Basin

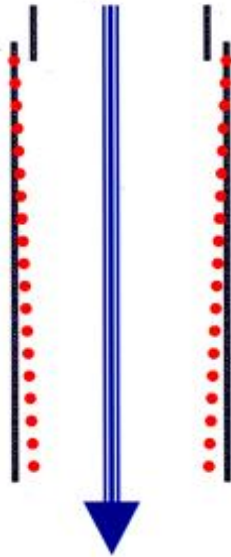


Vortex Fine Filter

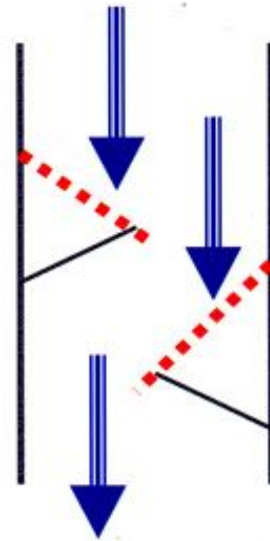


Downspout Filter

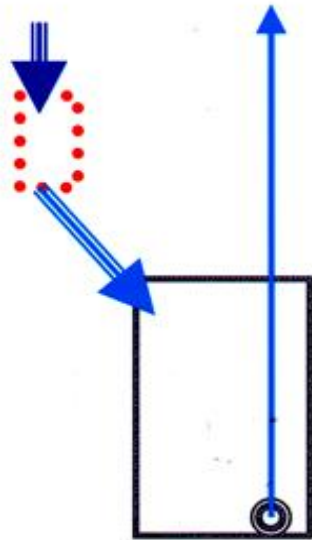
Open Drainage



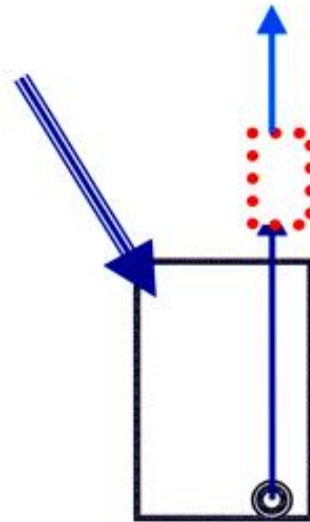
Restricted Drainage



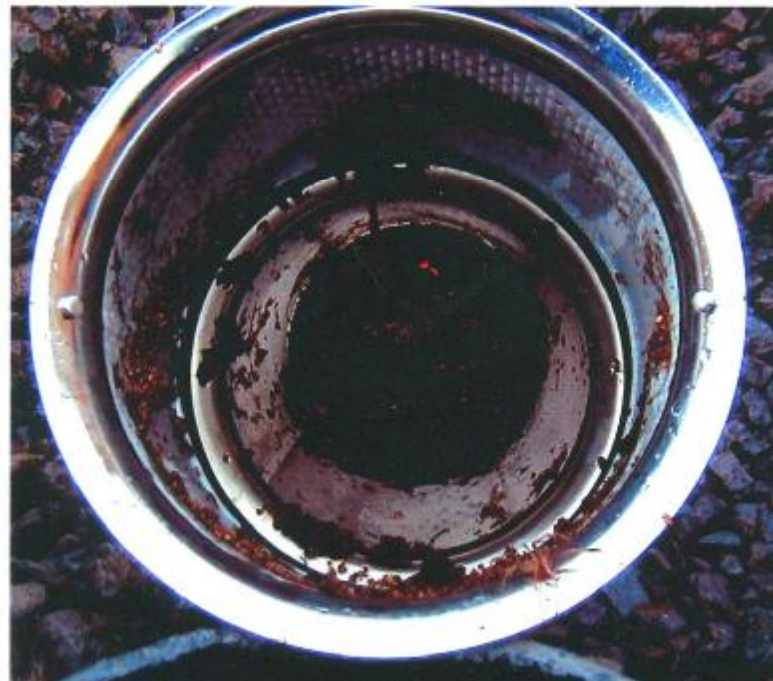
Filter before Storage



Filter after Storage



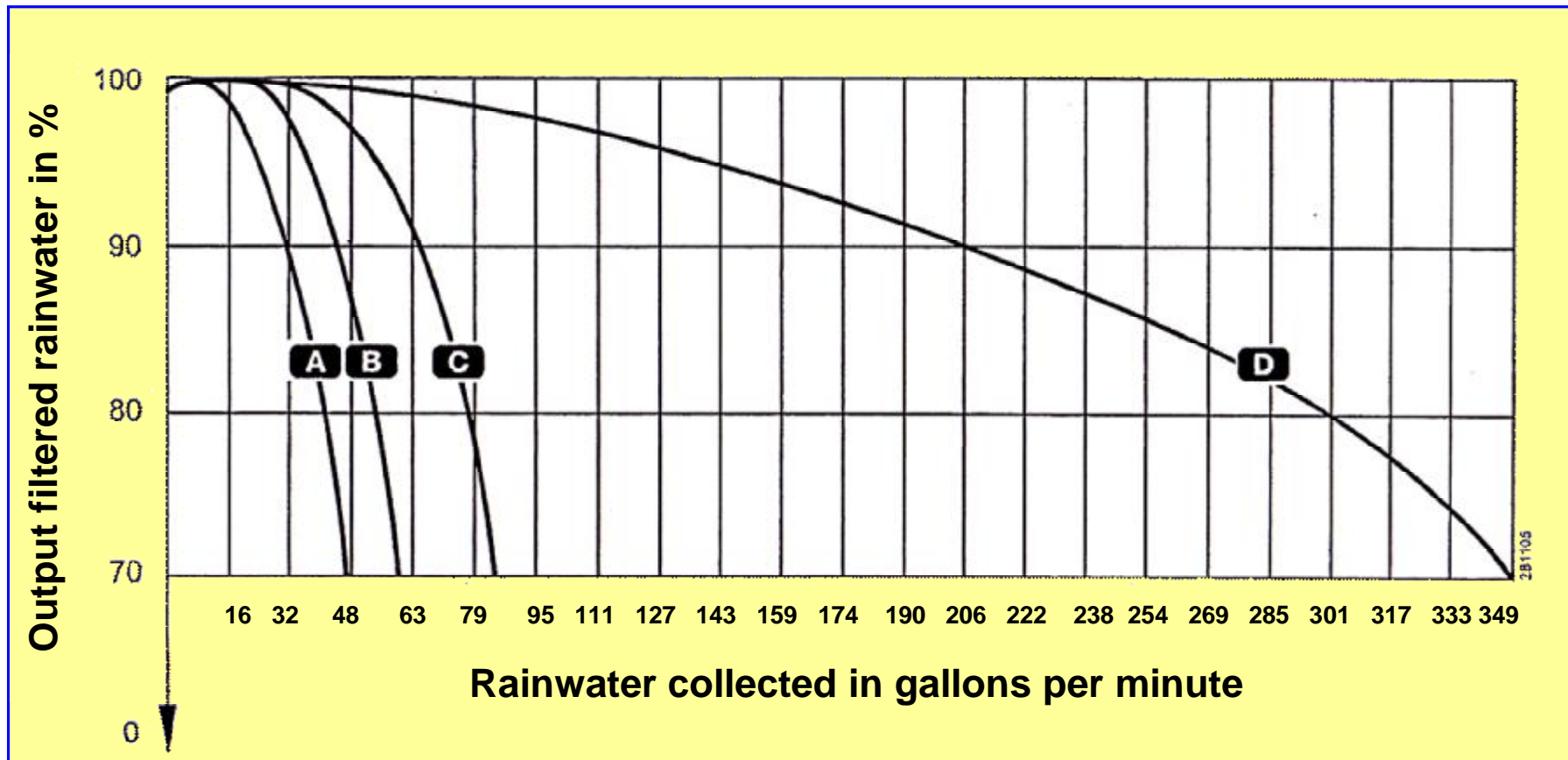
After 3 years, still
70% of original
efficiency



Collecting efficiency of *WISY - Filters*



Engineering with nature



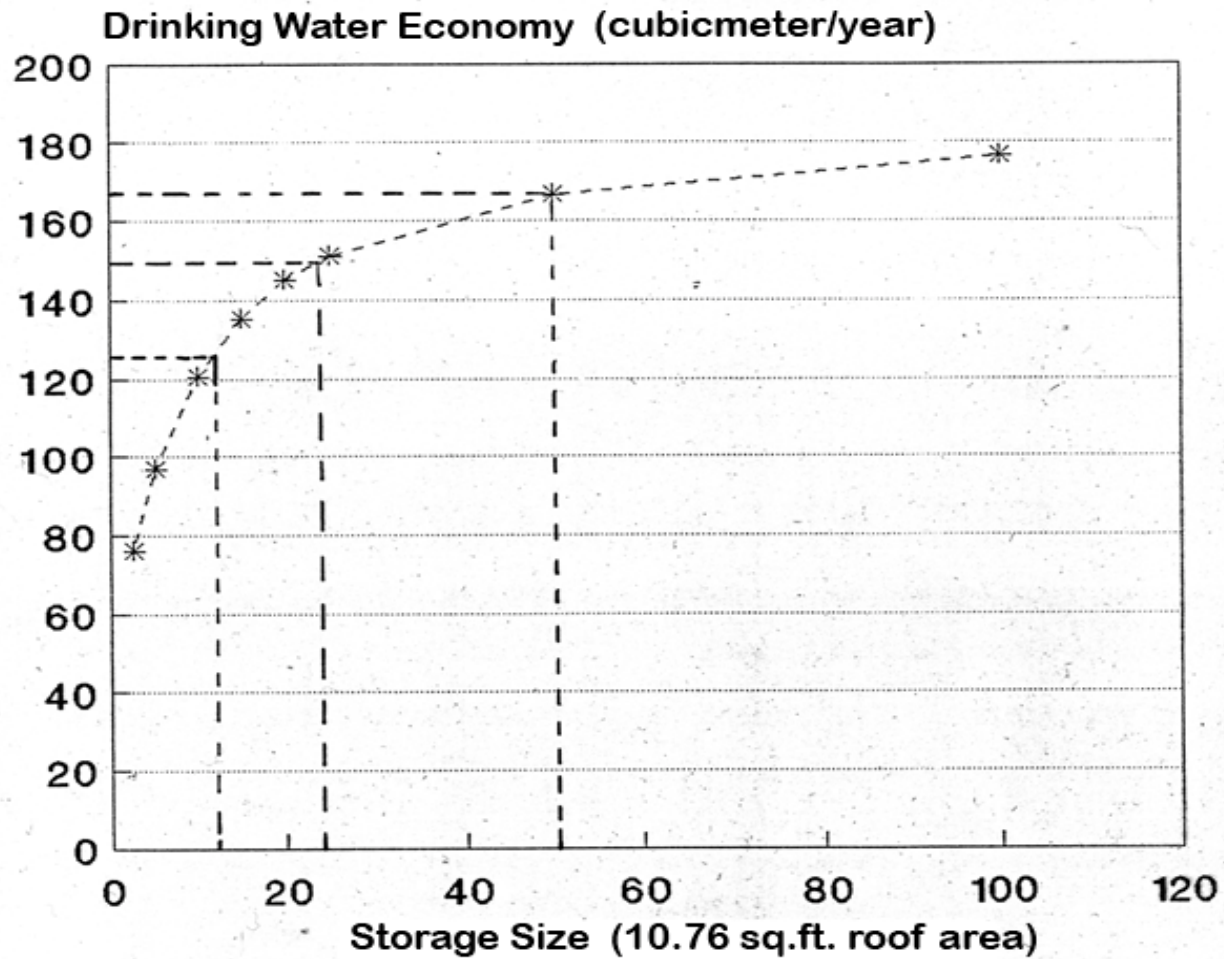
A Filter Collector FS

B Standpipe Filter Collector and
Vortex Fine Filter WFF 100

C Vortex Fine Filter WFF 150

D Vortex Fine Filter WFF 300

Drinking Water Economy and Storage Size



--*-- Average rain per year

Simulation Calculation



Engineering with nature

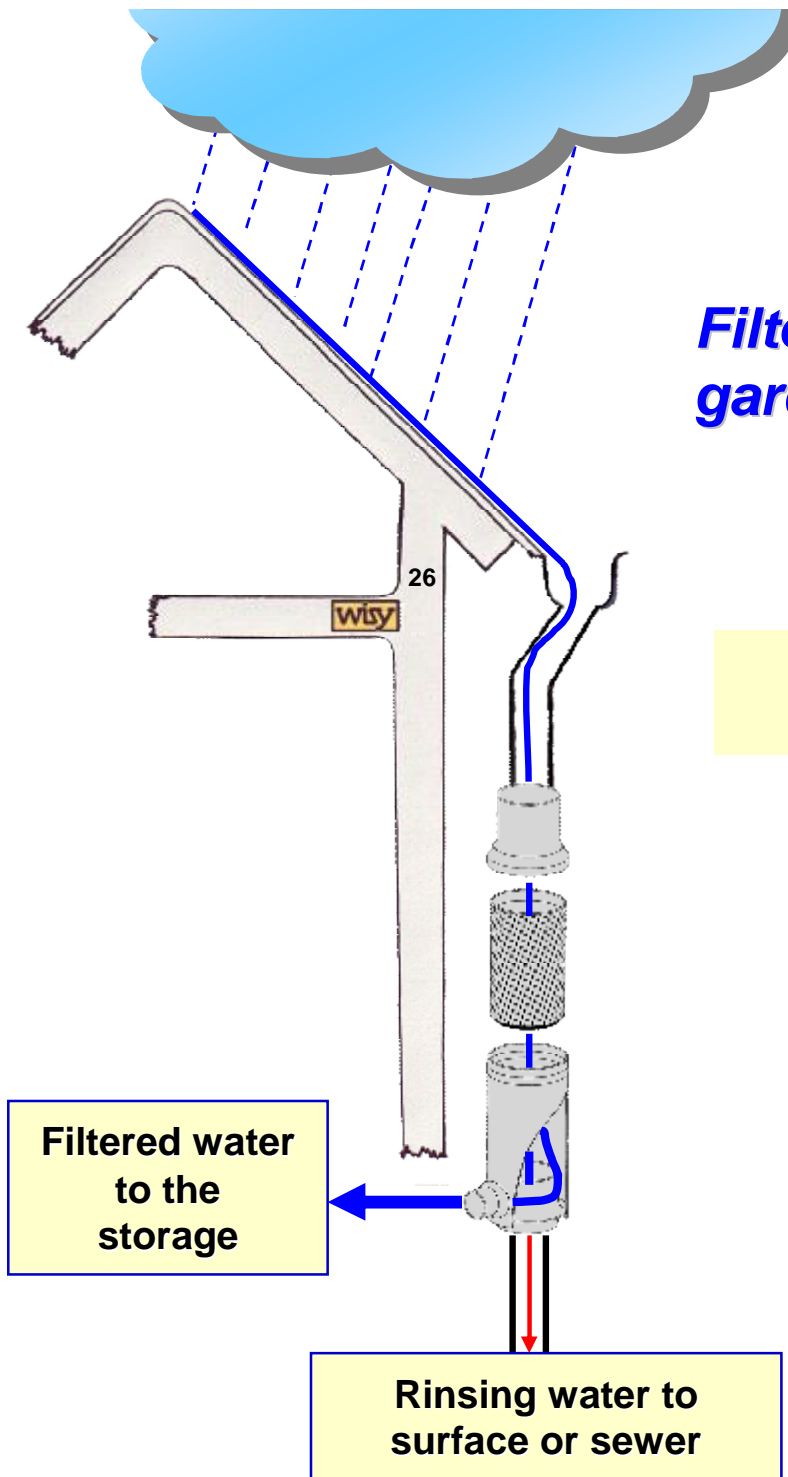
Filtered rainwater for home and garden.

WISY Filter Collectors

Integrated into the downpipes – filters and collects the rainwater

- 1. Fine filtering 0.28 or 0.44 mm**
- 2. Collects up to 99% of rainwater**
- 3. Self-cleaning, low maintenance**
- 4. Absolutely safe function**
- 5. Easy to fit and to maintain**
- 6. Long life, 100% Recyclable-materials***

* Stainless steel, copper, zinc



Filter Collector

installed in a downpipe, section view



Engineering with nature

Rainwater from roof

rainwater

1. upper housing

2. filter insert

3. Main housing

4. Collecting space

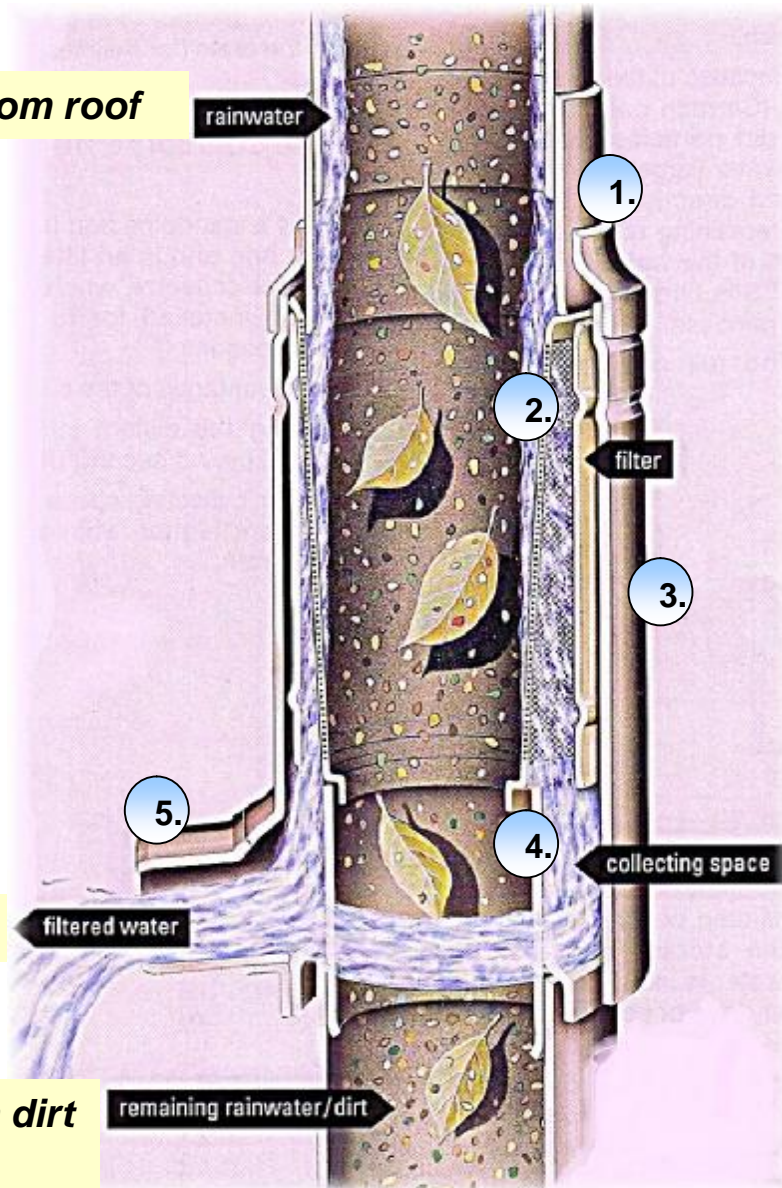
5. filtered water connection

Filtered water

filtered water

Rinsing water with dirt and debris

remaining rainwater/dirt

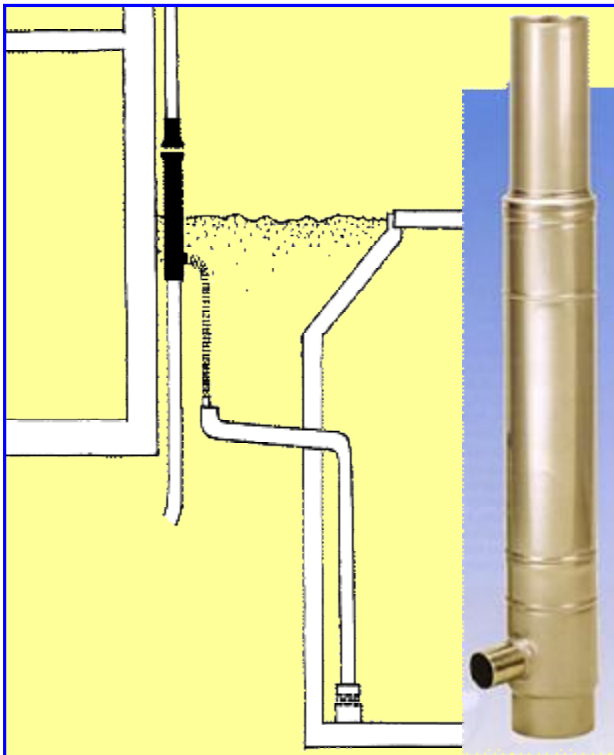


The patented, unique
WISY Filter Collectors



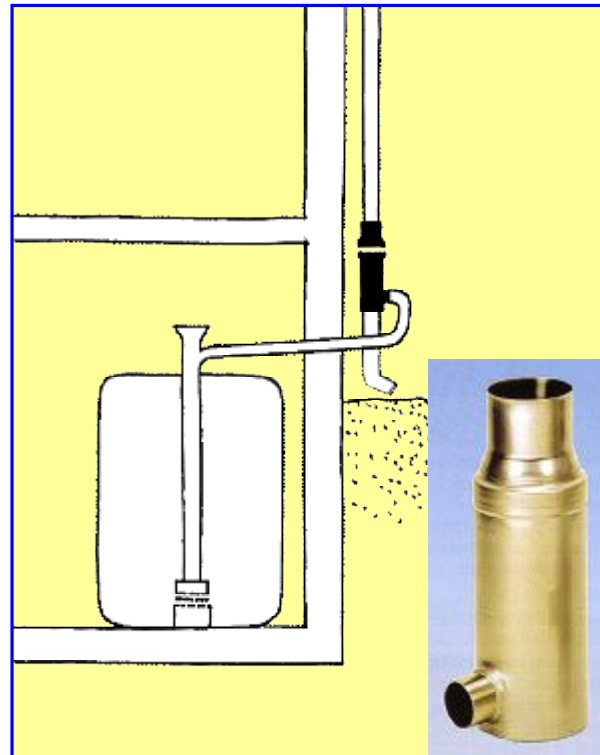
Engineering with nature

available for different styles and sizes of downpipes
available for all kinds of metal or plastic pipes **



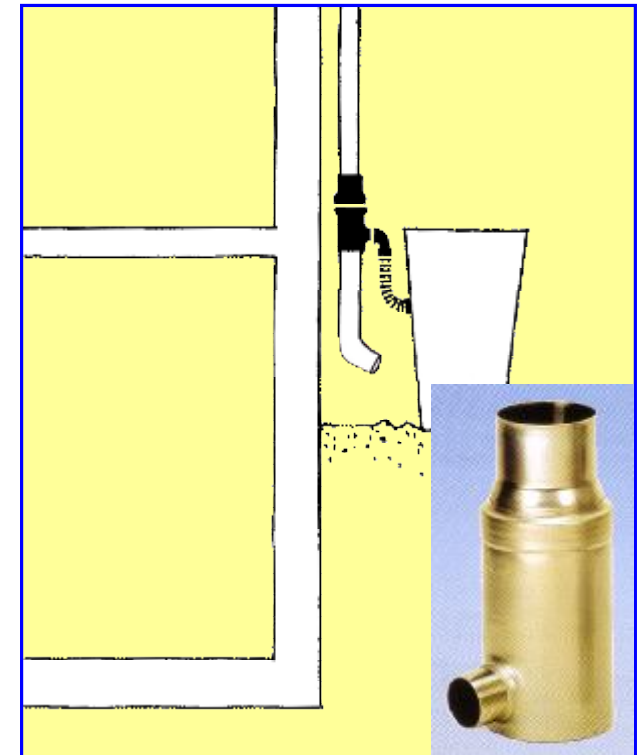
**Standpipe Filter Collector
STFS**

household + irrigation /
garden water, up to 2,153 ft² of
roof surface area *



**Filter Collector
FS**

household + irrigation /
garden water, up to 1,614 ft²
of roof surface area *



**Garden Filter Collector
GRS**

irrigation / gardening water,
861 ft² of roof surface area *

** Housing: Stainless steel, copper, zinc

* depends on local average rainfall

© 2006 WISY AG / WISY-Consult



Engineering with nature

Clean rainwater for residential,
public and commercial buildings

WISY Vortex Fine Filters

integrated into groundpipes - filter and collect the rainwater

1. fine filter sizes 0.28 / 0.38 / 0.44 m
2. Collect up to 99% of rainwater
3. Self-cleaning, low maintenance
4. Absolutely safe function
5. Up to 32,292 ft² for one filter
6. Long life, 100% Recyclable-materials *

* Stainless steel, Polypropylene

Rinsing water to
surface or sewer

Filtered water
to the storage

Vortex Fine Filter

section and function view

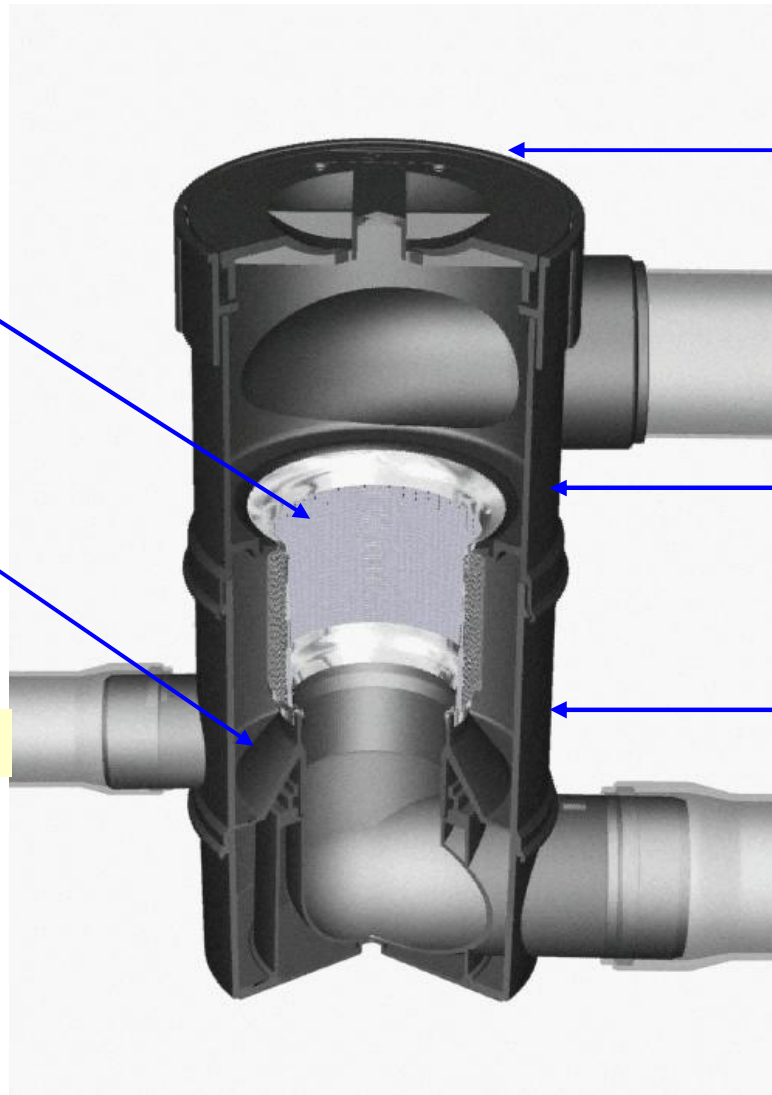


Engineering with nature

Removable filter insert stainless steel

Collecting space

Filtered water



Housing Lid up to 60 t

Rainwater from all groundpipes

Upper housing rotates a full 360°

Housing PE UV-resistant

Rinsing water with dirt and debris

The patented
WISY Vortex Fine Filters

are available with adapters for different styles, sizes and materials of pipes



Engineering with nature



ATV-certified
up to **30t**



WFF 100 for roof areas up to **2,153 ft²** *



WFF 150 for roof areas up to **5,382 ft²** *

ATV-certified
up to **60t**



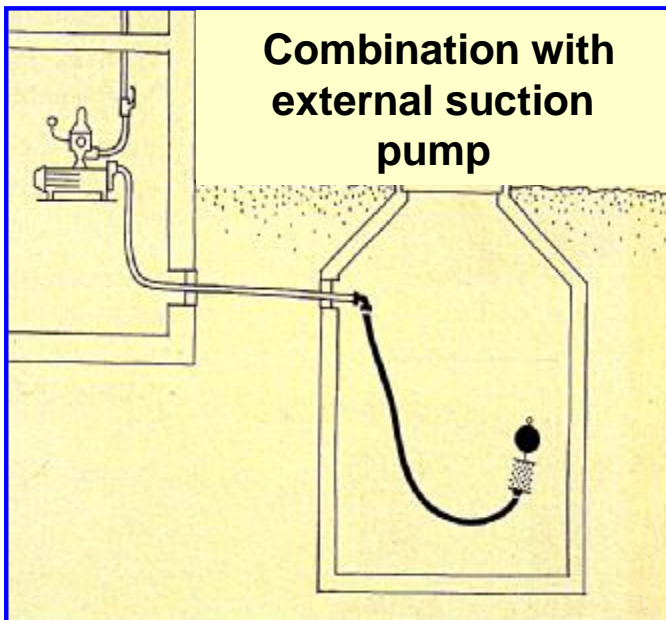
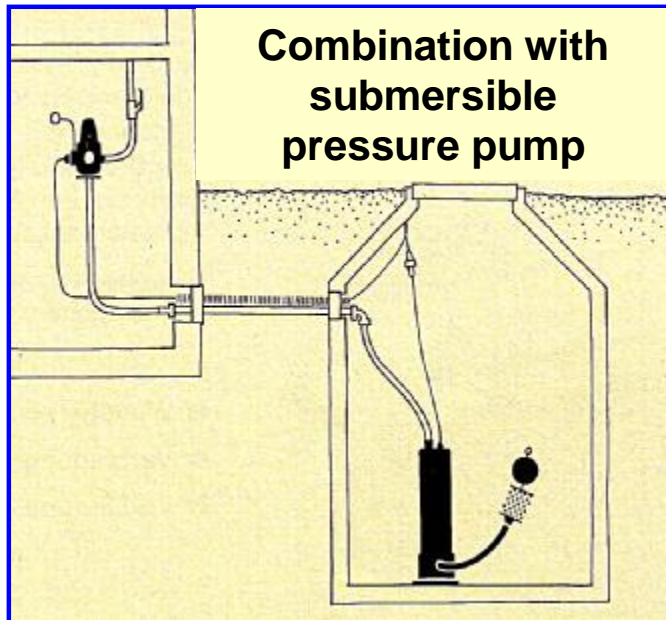
WFF 300 for roof areas up to **31,292 ft²** *

* depending on the average local rainfall

Drawing the cleanest water from the storage
WISY Floating Suction Filters



Engineering with nature



1. Harvesting water from the cleanest storage-zone
2. Fine or coarse filtering
3. Safeguards your pump
4. Low maintenance
5. For cisterns, tanks, ponds, wells

The patented
WISY Floating Suction Filters



available with fine or coarse filters, in different sizes
with different hose connections also connectable to
WISY's flexible hoses

Floating Suction **Fine** Filter

S A F F



normal size



Up to 2" intake

Floating Suction **Coarse** Filter

S A G F



for pre-filtered
water