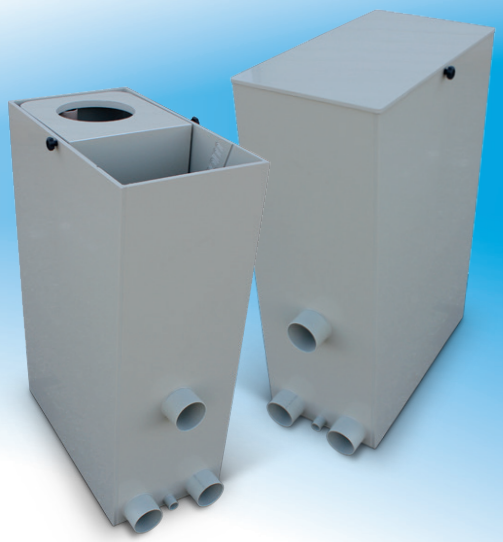
SuperSieve

Compact, Simple, Efficient



The SuperSieve easily removes coarse dirt from water, without electronics and controls.

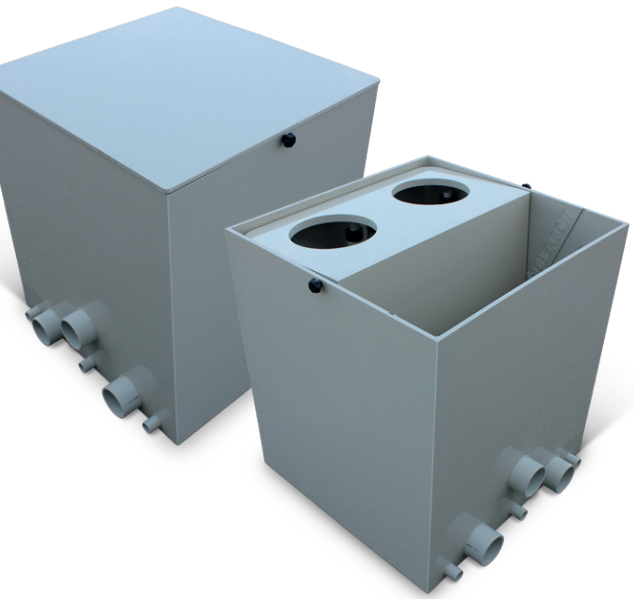
The SuperSieve uses special industrial curved screens with, for example, holes of 300 microns (0.3 mm). This separates dirt particles, which slide downwards on the curved screens. This dirt is collected in the SuperSieve waste chute.

The SuperSieve is designed for ponds with a gravity arrangement. Water flows into the SuperSieve via a bottom drain/skimmer. The SuperSieve removes larger particles of dirt from the water. A valve regulates the quantity of water according to the pump capacity.

- easy operation and extremely reliable
- removes floating/dirt particles up to 300 microns
- dirt is removed immediately from the water
- high internal overflow
- stable water level below curved screen
- high-quality, robust finish
- many inlets (min. 3 x 110 mm) and outlets (min. 2 x 90 mm)
- easy to install a UV lamp

The SuperSieve is available in several models: Medium, Large and eXtra Large. The internal overflow (see frame) is important for a gravity screen, as this largely determines the sieve capacity. The overflow is made as high as possible in all Air-Aqua models, making the SuperSieve extremely flexible in use. If there is a longer distance from the bottom drain to the SuperSieve, a higher flow is available if the internal overflow is high.

SuperSieve Medium and Large both have a 3 x 110 mm inlet and the XL model has a 4 x 110 mm inlet. The curved screen is precision sealed to the casing with rubbers, so that all water must pass through the curved screen. The SuperSieve has two 90 mm pump connectors, enabling the connection of an additional skimmer pump. For each model a coarser screen (700 microns) and a cover are available as an option.



Internal Overflow

The sieve's internal overflow is the distance from the top of the housing to the point where the water internally overflows onto the curved screen. The larger this distance, the greater and more flexible its deployment. When this height differential is 26 cm this corresponds to a water pressure of 0.026 bar. This pressure is required to displace the water from the pond to the sieve. Prior to installation, the SuperSieve must be located 3 cm above the maximum water level and installation must take the pond's fluctuating water levels into account. If the pond's water level drops by 5 cm (for example, when the filter is rinsed), only 0.018 of the 0.026 bar will remain. If a sieve only has a 17 cm height differential, this means that in this scenario only half (9 cm or 0.009 bar) will remain. This often gives rise to critical situations as too little water then reaches the screen. The pump then often takes in air, which causes noise disturbances and cavitation (accelerated wear) of the pump.

SuperSieve-Pump

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The SuperSieve Pump is intended for ponds in which the pump is located in the pond. The dirty water is then first pumped into the SuperSieve after which it flows to a biological filter, for example. Using the SuperSieve Pump as pre-filter ensures that the biological filter remains significantly cleaner.

- removes floating/dirt particles up to 300 microns
- dirt is removed immediately from the water
- small dimensions (l x w x h = 42 x 39 x 60 cm)
- up to 20 m3/hour
- large return connections
- incl. dirt drainage chute and cover
- large curved screen (32 x 47 cm)
- 2x 75/110 mm outlet
- 2x 63 mm inlet
- 2x 75 mm overflow protection
- 2x 63 mm dirt discharge
- connectable on both sides

The SuperSieve Pump is designed in such a way that connections are possible on both sides. The SuperSieve is constructed from 2 sections:
- the front chamber into which the water is pumped
- the chamber in which the curved screen is located

The sealed front chamber ensures that water is directed perpendicular to the curved screen. This results in a better dirt separation. The water passes through the top of the curved screen ensuring that water does not mix with already separated dirt.

The curved screen is precision sealed to the casing with rubbers, so that the water does not pass through unfiltered. The casing comes with a cover to reduce noise and to reduce the growth of algae and bacteria on the curved screen. As connections, the casing has overflow protection, a waste chute with discharge and 2 x discharge of 110 mm. This enables the SuperSieve Pump to process 20 m3/hour with ease.

The SuperSieve Pump is available in white or black marble.

Model	Capacity m^3/hr	internal overflow	intake mm	Outlet mm	Dimensions mm
Medium	5-20	22	3x110	2x90	660x350x745
Large	5-25	26	3x110	2x90	610x350x995
X-Large	10-40	22	4x110	2x90	660x680x745
Pump	20	-	2x63	2x75/110	42x39x60