

Gravity Filters

Economical water treatment with gravity filters - using the gravity of the water alone.



Filtration capacity 6.5 – 62.0 m³/h

The automatic gravity filter uses the principle of differential pressure and essentially consists of the cylindrical tank, its fittings, the automatic backwashing system with injector, the

raw water feed and baffle tube, filter nozzles and filter filling unit

Your benefits

- No controls: The filter needs no moving parts, like valves, flow meter, controller or display equipment, for filtering/backwashing and post-rinsing
- No pumps: The required volume of backwashing water is stored in the storage tank below the filter, making a back-flushing pump redundant.
- No compressed air, pressurised water and electrical energy: The filter controls and performs all processes independently
- No operating personnel: The filter works fully automatically, without external intervention
- No wearing parts: No moving parts – no wear and tear.

Field of application

- Cooling water, partial flow filtration
- River water, process water and potable water treatment
- Removal of iron from well water
- Waste water cleaning to reduce the content of suspended matter, CSB, BSB₅ and phosphate (4th cleaning stage)

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Technical Data

Optional additional equipment:

- Cover for cylindrical tank
- Frost protection insulation with supplementary electric heating
- Combined air/water backwashing
- PE-HD backwashing water sump tank
- Other options on request

Type List and Capacity Data

Type	Filter diameter mm	Filter capacity m ³ /h	Back wash Water ~ m ³	Weight empty ~ t	Weight in operation ~ t
SK- 9	900	6.5	1.4	1.2	4.5
SK- 12	1,200	11.5	2.5	1.5	7.1
SK- 15	1,500	18.0	4.5	1.9	10.5
SK- 18	1,800	26.0	5.5	2.3	15.0
SK- 21	2,100	35.0	8.5	2.8	19.5
SK- 24	2,400	46.0	10.0	3.0	25.0
SK- 28	2,800	62.0	14.0	3.5	30.0

Flow rate:	3 ... 10 m/h
Backwash intervals: (depending on type and amount of pollutants)	Approx. 8 ... 36 h
Head loss:	120 ... 150 mbar
Clean water solids figure: (depending on raw water and filter material)	0 ... 3 mg/l
Backwash flow rate::	
At the start	44 m/h
In the middle	37 m/h
At the end	30 m/h
Cylinder height: (same for all types)	4,500 mm
Overall height: Depending on filter diameter	6,500 mm
Backwash and refilling time:	13 ... 15 min.
Filter sand in accordance with EN 12904	
– Height of bed	600 mm
– Grain size range	0.71 ... 1.25 mm
Filter nozzles:	
– Type	Lamellar nozzle
– Material	PPN
– Slot width	0.2 mm

As system components are produced individually according to application, we will inform you of prices on request.

We reserve the right to change components and their construction, as long as these do not affect their performance or function.