

Cartridge filter

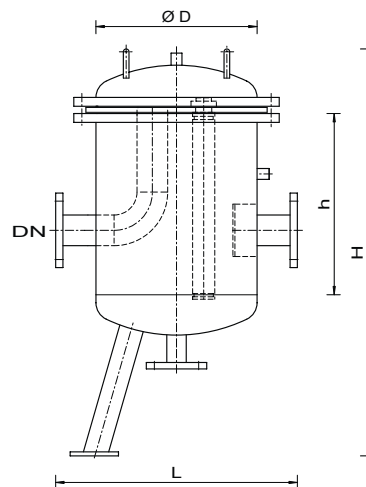
RWT manufactures cartridge filters for flow rates up to 200 m³/h. The cartridge filters are used to hold back dirt and suspended substances and as fine filters to protect sensitive units.

RWT cartridge filters can be cleaned via back-flushing. When a defined maximum permissible differential pressure is reached, the filters must be flushed. The filter cartridges must be changed when the back-flushing intervals become increasingly shorter.

Design RWT cartridge filters consist of

- an upper torispherical head with vessel flange, ventilation connection pieces and cover handles
- a cylindrical section with a lower torispherical head and a vessel flange
- flange tubes for raw water input, pure water output, flushing water output and draining
- screwed-in filter cartridges made of Polypropylene (PP) with exchangeable filter cloth
- three vessel support feet

Layout



Data

Type	KEF 1	KEF 2	KEF 3	KEF 4	KEF 5	KEF 6	KEF 7	KEF 8
Capacity [m ³ /h]	14	20	25	35	55	90	125	200
Diameter Ø D [mm]	273	324	324	356	406	508	600	700
Cylind. mantle height h [mm]	450	450	450	450	450	450	450	450
Total height H [mm]	1000	1000	1000	1000	1000	1000	1000	1000
Empty weight [daN]	80	100	105	150	200	220	245	280
Vessel connection [DN]	50	65	65	80	100	125	150	200
Installation length L [mm]	450	500	500	550	600	700	800	1000
Filter cartridges [No./Pieces]	4	4	6	8	10	16	16	24
Filter fineness [µm]	250	250	250	250	250	250	250	250

Design The cartridge filters were designed for the following conditions:

- Max. operating pressure 10 bar (g)
- Max. operating temperature 40 °C

A customer-specific design with deviating values for pressure and temperature is possible upon request.

Technical Data

Differential pressure measurement Loading of the filter cartridges can be indicated by an additional differential pressure measurement.

Materials Steel:
Boiler plate pursuant to EN 10028 T2, with APZ 3.1b if necessary
Sheet steel pursuant to EN 10025, with APZ 3.1b if necessary

Stainless steel:
Austenitic, non-corroding steels
304 / 321 and 316 Ti, with APZ 3.1b if necessary

Corrosion protection Steel version:
• Internally and externally steel-corundum blasted SA 2.5
• Internal threefold epoxy resin coating, using different colours
• External primer and top coat

Stainless-steel version:
• Internally and externally glass-bead blasted and passivated

Accessories (optional)

- Automatic air release valves
- Manometer at input and output
- Differential pressure measurement equipment

Approvals

- Leak test with factory certification
- Manufactured pursuant to AD specifications and pressure equipment directive 97/23/EC

Additional tests, e.g. x-raying welding seams or approval by technical supervisory association are possible on request.

Special versions or versions deviating from the norm are possible on request.