

High-bed (multi)media filters



Advantages of high-bed filtration:

Large dirt/waste-retaining capacity. Deep filtration. Simple and constant action with good results. Filtering out of suspended solids. Durability of the filter material.

Advantages of UDI®:

The strength of steel and the resistance of plastic jointly allow a wide range of applications. In this respect high working pressures (up to 8 bar) do not constitute an obstacle.

UDI® high-bed (multi)media filters have a filter bottom with removable mushroom diffusers. The filter bed is completely utilized. This effectively prevents dirt/waste inclusions. Perfect backwashing is possible in which all dirt/waste captured is flushed out of the filter media. The raised filter bed results in more contact time with the medium and so provides the possibility of realizing increased capacities. In addition, it is possible to use more layers as a filter medium, which increases capacity and/or enhances quality. These special filters are provided with enough manholes to easily enable inspection or changing charges of filter material.

All models can be modularly joined, in conjunction with appropriate flush valves, to form units of any shape and capacity and for continuous service. To this end a comprehensive range of fittings, connectors and rapid couplings of the same make is available.

UDI® high-bed (multi)media filters have a filter bottom with removable mushroom diffusers.

The filter bed is completely utilized so that perfect backwashing is possible. This can be carried out manually as well as be automated.

These special filters are provided with enough manholes to easily enable inspection to be carried out or charges to be changed.

Coating:

In preparation for the coating, the filters are provided with a special layer of zinc phosphate. This treatment ensures proper adhesion of the coating and protects against rusting through from the inside.

The polyester coating is subsequently applied electrostatically, both internally and externally, before being furnace-hardened. The whole process involves 7 steps, and results in a perfect coating having a thickness of approx. 100 microns.



High-Bed (Multi)media Filter Series 4000

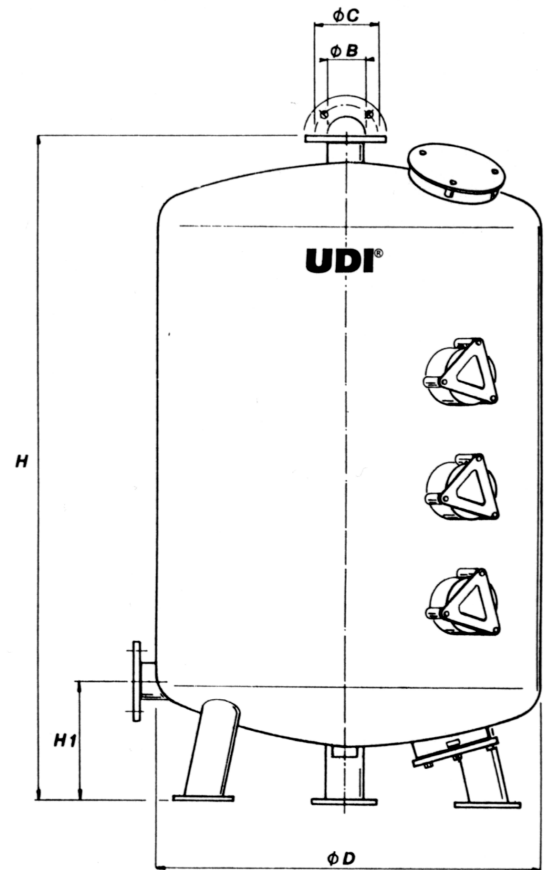
Technical data

Applications:

- Prefiltration of disinfection equipment
- Prefiltration for micro and ultrafiltration
- Swimming-pool filtration
- Groundwater purification
- Separation processes using flocculants
- Water treatment plants
- Suitable for various filter media (activated carbon, neutralizing media)

Materials:

- Polyester-coated steel
- Neoprene rubbers
- Polypropylene mushroom diffusers



Type	Unit	K41615	K4202	K4242	K4303	K4363	K44231	K44841	K46042
Diameter D	Inch	16"	20"	24"	30"	36"	42"	48"	60"
Flange (ISO 7005 PN 16)									
Connection B	inch	1.5"	2"	2"	3"	3"	3"	4"	4"
Bolt circle dia. C	mm	-	-	-	160	160	160	180	180
Holes	mm				8xØ18	8xØ18	8xØ18	8xØ18	8xØ18
H	mm	1680	1750	1800	1660	1660	1750	1750	1830
H1	mm	220	250	270	280	280	320	320	400
Weight	kg	57	85	107	190	245	330	420	600
Mushroom diffusers		8	14	20	31	42	58	72	106
Filter-bed height	mm	900	900	900	800	800	800	800	800
Media filling	litre	110	175	250	350	500	700	900	1400
Manholes		1x8"	1x8"	1x8"	1x8"	1x8"	1x8"	2x8"	6x8"
		3x6"	3x6"	3x6"	4x6"	4x6"	5x6"	5x6"	6x8"
Working pressure	bar	8	8	8	8	8	8	8	8
Max. pressure	bar	10	10	10	10	10	10	10	10

Multimedia Filters Technical data

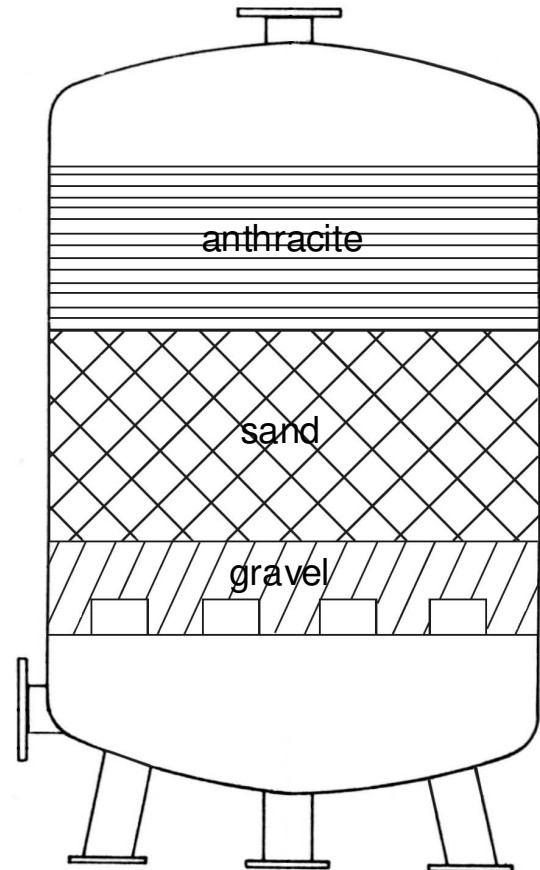


Advantages of UDI[®] multimedia filters:

UDI[®] high-bed multimedia filters filled with a multimedia charge in combination with a lower filtering rate provide practically complete filtering of all suspended organic matter. The filtering layers of gravel, sand and anthracite adapted to one another can be cleared of the dirt retained by backwashing.

Applications:

- Prefiltration of disinfection equipment
- Prefiltration for micro and ultrafiltration
- Surface-water intake
- Prefiltration of underground water storage



Multimedia filling for 4000 Series high-bed multimedia filters:

Type	Unit	M41615	M4202	M4242	M4303	M4363	M4423	M4484	M4604
Service	m ³ /h	1.5	2.0	3.0	5.0	7.0	9.0	11.0	18.0
Anthracite N 0.8-1.6	liter	40	50	100	100	150	250	300	500
Sand 0.5-1mm	kg	75	125	175	250	375	500	650	1000
Gravel 1-2 mm	kg	25	50	50	75	100	150	200	400
Backwashing approx.	m ³ /h	4.4	6.7	9.8	15.4	22.0	30.0	39.5	63.0



UVAR

Subject to changes and/or misprints