TECHNOL®

TECHNOL
CARTRIDGE FILTERS

TECHNOL CARTRIDGE FILTERS SERIES

Technol presents micronics filters for desalination plants

Low flow series single cartridge filters
Flow rates 0-48 m³/h
GRP body filters
Standard 6 and 10 bar design pressure

Horizontal series for high flows
Horizontal cartridge filters with hi-flow elements
Flow rates 165-2300 m³/h
Max design pressure 10 bar

Vertical cartridge filters for medium flows
Vertical cartridge filters
Flow rates 50-580 m³/h
Standard 6 bar design pressure; max 10 bar design pressure

Vertical cartridge filters for medium and large flows
Vertical cartridge filters
Flow rates 60-2480 m³/h
Standard 6 bar design pressure;
max design pressure 10bar

Technol GRP cartridge filters = the optimal corrosion free solution

Description:

Technol designs and manufactures GRP vertical and horizontal cartridge filters for water treatment.

Advantages:

FRP as a material provides superior chemical resistance to a wide range of fluids and it is ideal for aggressive saline environments
FRP housing offers low maintenance cost and fast repairs in case of damages
Custom designs are available
No metal parts in the vessels

Low flow series single cartridge filter

Key features:

Single cartridge hi-flow element
Flows rates up to 48 m^3/h
Design according EN13121-3, ASME sec. X, BS4994, AD-2000
Designed for 6/10bar
Internals from GRP- lifetime maintenance free
Technol standard vinyl ester liner
Fast service times due to single cartridge elements
Filtration type: inside-out
During cartridge replacement dirt is kept on the dirty side
Design for 40 and 60" elements
Flanged connection

Options:
Optional Derakane 411/470 liner
Viton gaskets
Duplex/titanium external bolts

Horizontal series for high flows - Technol hi-flow series

Key features:

Flow rates 165-2300 m³/h
Design according EN13121-3, ASME sec. X, BS4994, AD-2000
Designed for 6/10bar
Internals from GRP- lifetime maintenance free product
Filtration type: inside-out
Horizontal layout is suitable for containerized plants
Less elements-lower footprint
Technol standard vinyl ester liner

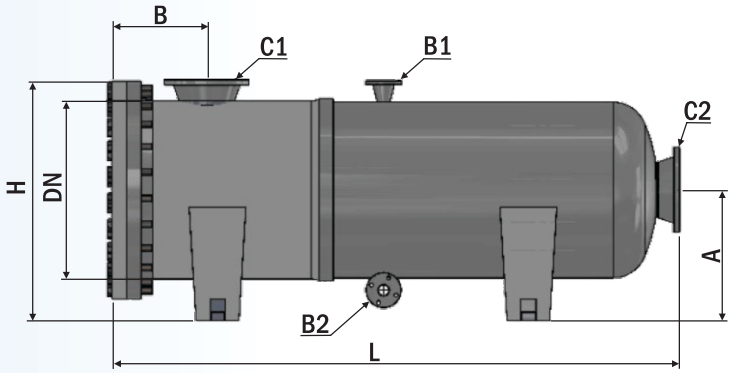
Materials:

GRP body
GRP internal parts
SS316 screws
EPDM gaskets
Legs: GRP
Options:
Davit arm from Ss316
Viton gaskets
Derakane 411/470 liner
Anchor points and lifting lugs
The elements:
Micron rating: 1-100 microns
Recommended flow rates (conservative): 8.25 m³/h per 10" of element; 33 m³/h for 40" and 50 m³/h for 60"
*Flow rates may be higher/lower for particular applications
Materials: plated filter elements with EPDM/Viton gaskets.

Dimensions

Horizontal Filters for 40” elements

DN	No. elements	recomended flow, m³/h	max. Flow, m³/h	C1/C2	H	L	A	B	B1/B2
500	5	165	200	200	800	1875	450	300	DN50
600	7	231	280	200	900	2000	500	350	DN50
800	12	396	480	250	1100	2250	600	450	DN50
900	13	429	520	250	1200	2375	650	500	DN50
1000	19	627	760	350	1300	2500	700	550	DN65
1200	23	759	920	400	1500	2750	800	650	DN65
1300	31	1023	1240	450	1600	2875	850	700	DN65
1400	37	1221	1480	450	1700	3000	900	750	DN65
1600	48	1584	1920	450	1900	3250	1000	850	DN65



Horizontal Filters for 60” elements

DN	No. elements	recomended flow, m³/h	max. Flow, m³/h	C1/C2	H	L	A	B	B1/B2
500	5	240	300	200	800	2375	450	300	DN50
600	7	336	420	250	900	2500	500	350	DN50
800	12	576	720	250	1100	2750	600	450	DN50
900	13	624	780	250	1200	2875	650	500	DN50
1000	19	912	1140	350	1300	3000	700	550	DN65
1200	23	1104	1380	400	1500	3250	800	650	DN65
1300	31	1488	1860	450	1600	3375	850	700	DN65
1400	37	1776	2220	500	1700	3500	900	750	DN65
1600	48	2304	2880	550	1900	3750	1000	850	DN65

Technol Vertical cartridge filters

Models:
TECH-V-222-F for medium flows
TECH-V-222-S for large flows

TECH-V-222-F

Key features:

Flow rates 70-1960 m³/h
Design according EN13121-3, ASME sec. X, BS4994, AD-2000
Designed for 6/10bar
Filtration type: outside-in
Available for SOE plated elements with 222 O-rings and spring
Available for DOE string wound or melt blown elements with knife system inserts
Designed for 40", 50" and 70" elements
Technol standard vinyl ester liner
Standing on ring support
During cartridge replacement piping stays assembled
Fast installation

Materials:

GRP body
GRP supporting ring or GRP supporting legs
Knife system from thermoplastics, coated spring for maximum lifetime service

Options:

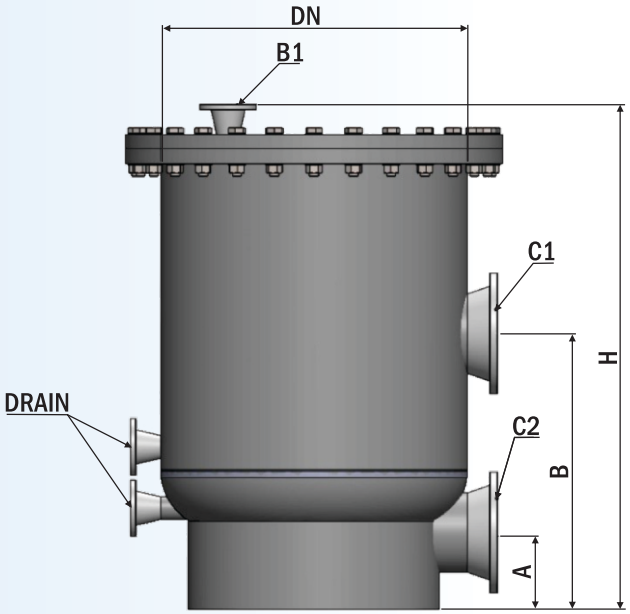
Davit arm
Anchor points for round supported filters
Legs from GRP ready for anchoring
Outlet on the bottom
Optional Derakane 411/470 liner

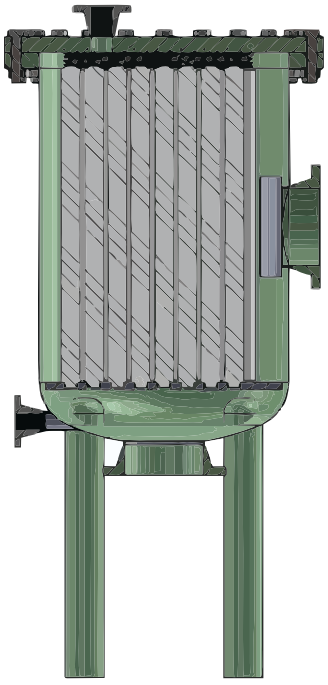
The elements:

Micron rating: 0.5-400 microns
Recommended flow rates(conservative): 0.8 m³/h per 10" max flow rate at 1.2 m³/h per 10"
*Flow rates may be higher/lower for particular applications
Materials: string wound/melt blown elements

Dimensions (for 40” elements)

DN	No. elements	Q (average) m³/h	Q (max) m³/h	H	B2 (drain)	B1	C1/C2	B
400	16	57	207	1450	40	40	100	800
500	19	68	114	1475	50	50	125	825
600	36	129	216	1500	50	50	150	850
800	52	187	312	1650	50	50	200	1000
900	95	342	570	1675	50	50	250	1025
1000	116	417	696	1700	65	65	250	1050
1200	183	659	1098	1750	65	65	300	1100



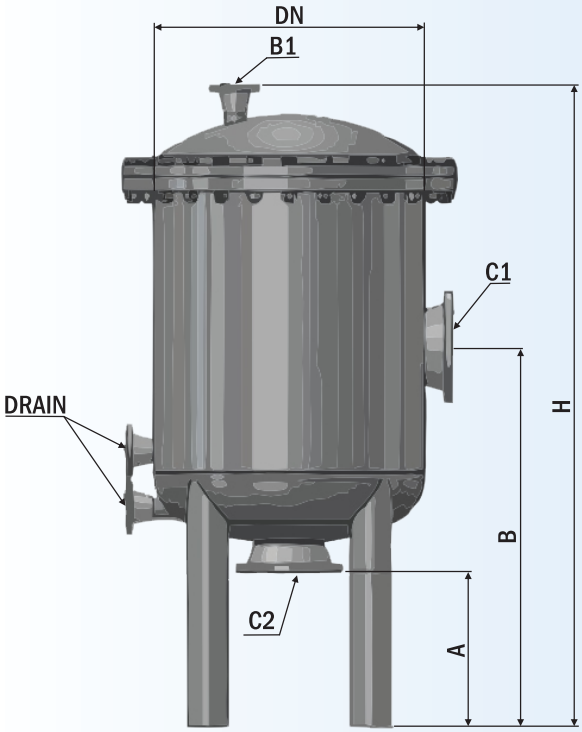


Technol Vertical cartridge filters

TECH-V-222-S

Key features:

Flow rates 70-2480 m³/h
Design according EN13121-3, ASME sec. X, BS4994, AD-2000
Designed for 6/10bar
Filtration type: outside-in
Available for SOE plated elements with 222 O-rings and spring
Available for DOE string wound or melt blown elements with knife system inserts
Designed for 40", 50" and 70" elements
Technol standard vinyl ester liner
Standing on GRP leg support
Side inlet, bottom outlet
During cartridge replacement piping stays assembled
Fast installation



Materials:

GRP body
GRP supporting ring or GRP supporting legs
Knife system from thermoplastics, coated spring for maximum lifetime service

Options:

Davit arm
Anchor points for round supported filters
Outlet elbows
Optional Derakane 411/470 liner

The elements:

Micron rating: 0.5-400 microns
Recommended flow rates(conservative): 0.8 m³/h per 10" max flow rate at 1.2 m³/h per 10"
*Flow rates may be higher/lower for particular applications
Materials: string wound/melt blown elements

Dimensions

for 40” elements

DN	No. elements	Q (average) m³/h	Q (max) m³/h	H	B2 (drain)	B	B1	C1/C2	A
500	19	60	91	1925	50	1275	50	150	500
600	36	115	172	1970	50	1300	50	150	500
800	52	166	249	2210	50	1500	50	250	650
900	95	304	456	2255	50	1525	50	250	650
1000	116	371	556	2300	50	1550	65	250	650
1200	183	585	878	2515	50	1725	65	350	775
1300	204	652	979	2635	50	1825	80	350	850
1400	245	784	1176	2680	65	1850	80	400	850
1600	339	1084	1627	2870	65	2000	80	400	950
1800	427	1366	2049	2960	65	2050	80	400	950
2000	546	1747	2620	3050	65	2100	80	500	950

for 70” elements

DN	No. elements	Q (average) m³/h	Q (max) m³/h	H	B2 (drain)	B	B1	C1/C2	A
500	19	86	133	2425	50	1275	50	150	500
600	36	163	252	2470	50	1300	50	150	500
800	52	236	364	2710	50	1500	50	250	650
900	95	432	665	2755	50	1525	50	250	650
1000	116	527	812	2800	50	1550	65	250	650
1200	183	832	1281	3015	50	1725	65	350	775
1300	204	928	1428	3135	50	1825	80	350	850
1400	245	1114	1715	3180	65	1850	80	400	850
1600	339	1524	2373	3370	65	2000	80	400	950
1800	427	1942	2989	3460	65	2050	80	400	950
2000	546	2484	3822	3550	65	2100	80	500	950

Technol horizontal cartridge filter for water treatment

Technol vertical cartridge filter for water treatment

Company Technol – a trustworthy partner

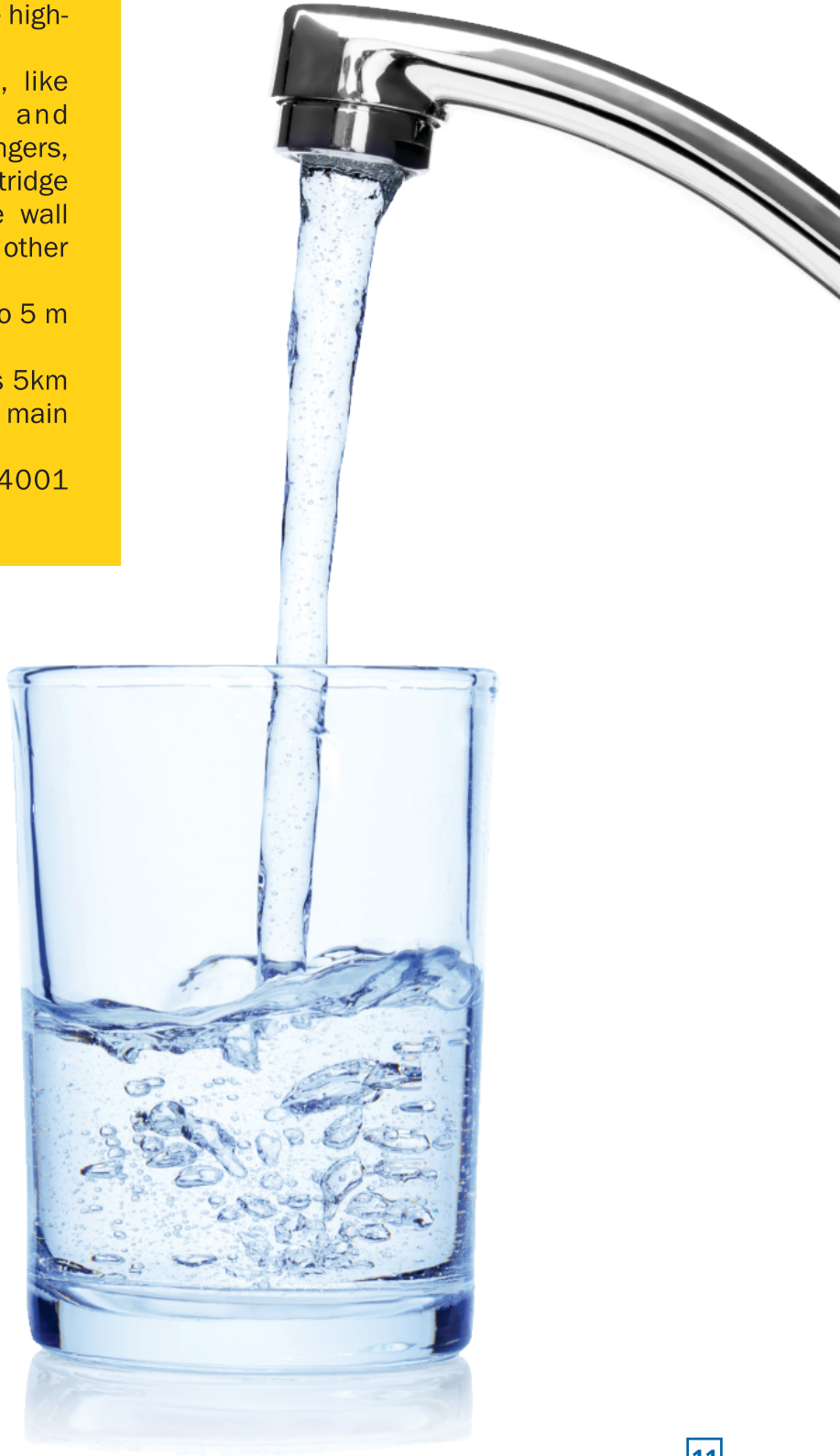
Since 1990 we have been manufacturing GRP products for the water treatment, chemical, energy, chemical and other sectors, where is a demand for high quality GRP products. Satisfied customers throughout the World and successful projects confirm that we manufacture high-quality and reliable GRP products.

We produce a variety of products, like pressure vessels from vertical and horizontal media filters to ion-exchangers, strainers, UF/RO compact units, cartridge filters, sedimentation tanks, double wall storage tanks, scrubbers and also other products by request.

Our products have a diameter of up to 5 m and are up to 20 m long.

The company location is ideal as it is 5km away from the port of Koper and all main road and train transportation routes.

We work according ISO 9001/14001 quality standards.



Water treatment
by Technol cartridge filters

Technol, Portorož d.o.o.
Industrijska cesta 6e
6310 Izola, Slovenia

www.technol.si
e-mail: info@technol.si
Tel.: + 386 5 66 25 340

Send inquiry