

WATERCO

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MICRON

COMMERCIAL FIBERGLASS FILTERS

Proven Strength and Durability



Setting new global benchmarks in durability, versatility, reliability and longevity, Waterco's Micron fiberglass filters are the preferred choice for commercial and industrial operations that demand superior water quality.

Micron Fiberglass Filters

Weighing two-thirds less than its steel counterpart - making it easier to ship and install - with a material that is resistant to both mechanical and chemical influences, Waterco's Micron commercial fiberglass filter range can be adapted to a wide range of applications including large public swimming pools, aquatic parks, hotel and resort pools, aquaculture, cooling towers, drinking water systems, food and beverage processing, industrial processes, water features, zoos, and aquariums.



Resort World - Singapore



12 Micron MD6500 Commercial fiberglass filters and 11 Micron M5000 Commercial fiberglass filters purify over 4 million gallons of water at Asia's premier destination resort, Universal Studios on Sentosa Island in Singapore. The Micron M5000 filters are used for the water theme park (9,900m³ volume of water), while the Micron MD6500 filters are installed to service three different attractions,

South Australia Country Water Quality Improvement Program - South Australia, Australia



This was a multi-staged project to deliver high quality filtered drinking water to the state's rural and remote communities. Waterco was instrumental in this initiative, installing 8 Micron SMDD2200 Commercial fiberglass filters and 17 Micron SMDD2500 Commercial fiberglass filters filled with granular activated carbon to remove unwanted taste and odours during final filtration stages.

Desalination plant - Faw region in Basrah, Iraq



Like numerous Iraqi governorates, the Al Faw region in Basra experiences severe shortages of drinking and irrigation water. In order to supply potable water to its growing population, millions of dollars are being invested into sophisticated desalination and filtration technologies. Waterco was commissioned to supply 40 Micron SMD2000 Commercial fiberglass filters in four water desalination plants, which each has an output of 26400 US gallons per hour. The combined pre-filtration flow rate is approximately 264100 - 290600 US gallons per hour.

Manufactured from the highest grade of non-corrosive materials, Micron fiberglass filters are ideal for harsh environments including seawater applications. Available in top mount, side mount and horizontal configurations, Waterco has the capability of adapting its fiberglass filters to meet customer specifications.



Mablethorpe Seal Sanctuary - United Kingdom

Coal seam gas filtration - Queensland, Australia

Glen Eira Sports & Aquatic Centre - Victoria, Australia



Micron fiberglass filters have shown themselves to be very effective in catering for sea animals such as seals and various other wildlife parks and zoos all over the world, which made them an obvious choice for the Mablethorpe Seal Sanctuary. Two Micron SMDD1050 Fiberglass Filters were installed with glass media.

The Micron SMDD1050 filter improves the filtration efficiency over standard high-rate filters by providing enhanced in-depth filtration, a superior lateral under drain design and increased dirt capacity.

Waterco Micron fiberglass filters were installed in conjunction with an ion exchange filter media to remove sodium out of the incoming water whilst adding calcium and magnesium. The end result is recycled water that is ideal for soil and plant health.

Glen Eira Sports and Aquatic Center (GESAC) features five separate pools, two water slides, and a fully equipped aquatic wellness area. The aquatic centre has been equipped with Waterco's Micron Air Scour Horizontal filtration system, which has resulted in a saving of between 25 and 35 percent of the backwash water.

Seamless one-piece vessel

Waterco's Micron Commercial fiberglass filters are made from continuous strands of high quality fiberglass filament wound under controlled tension to create a seamless, impervious vessel. This produces a filter that is free from welds or seams, or special tank linings that typically corrode or electrolyze. Waterco's revolutionary winding technology further strengthens the fiberglass structure so it can withstand a working pressure of up to 150PSI.



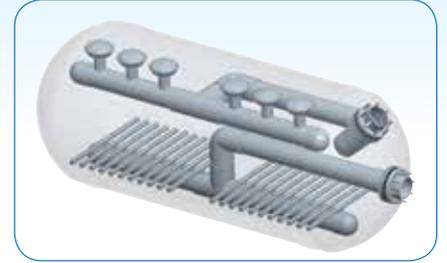
Strict quality control

Waterco's quality control procedures ensure that the structural requisites of the product are achieved at every stage of production. This results in 100% compliance of the end product with the specifications.



Proprietary construction

The design and manufacturing process of the fiberglass vessel, utilizing the latest filament winding machines, incorporation of non-metallic fittings plus reinforced manhole openings with proprietary methods, is unique to Waterco.



Low maintenance

Once installed there are virtually no maintenance or repairs required. Steel vessels require the anti-corrosive coating to be maintained periodically and certified welders to make repairs to the lining with expensive epoxy coating.



1/3 the weight of steel

Fiberglass vessels weigh only 1/3 the weight of steel vessels while maintaining the same level of strength. Their weight makes them easier to ship to the job site, quicker to install, and reduces structural requirements.

High corrosion resistance

Fiberglass vessels are rapidly replacing steel tanks in numerous applications. Firstly, they have a superior mechanical and chemical resistance to steel. Also, they do not rust or corrode and are able to withstand damage from many types of water treatment chemicals. Furthermore, these vessels are ideal for seawater applications, such as pre-filtration for desalination systems.

Russky Island Desalination Plant - Vladivostok, Russia

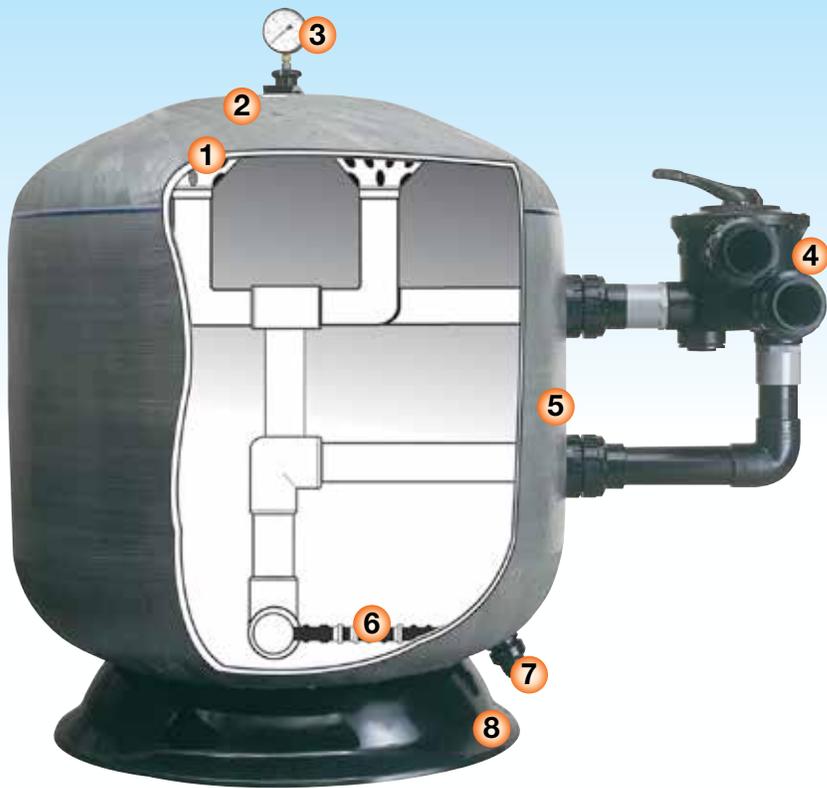
When Russky Island was chosen as the site for the 2012 Asia-Pacific Economic Cooperation Leaders' Week (APEC), the Russian Central Government decided to construct a large-scale desalination plant capable of purifying over 2.6 million gallons of seawater per day. Integral to this was a 10,000 m³/d seawater reverse-osmosis (SWRO) system to support the drinking and processing needs of local residents

and the new Far Eastern Federal University, location of the APEC Summit.

Given the harsh environment and the need for hard-wearing, extreme-weather components, Waterco provided 12 x 7-bar-rated Micron MD10,000 horizontal fiberglass filters for the project. Designed with no metal-to-water contact, they do not suffer from corrosion like steel or stainless steel vessels.



Micron fiberglass filters



Micron Side Mount Filters



Micron Top Mount Filters

** Optional manual drain*

- 1 Inflow diffuser for even distribution of water flow across the filter bed.
- 2 Elliptical positive sealing manways.
- 3 Pressure gauge.
- 4 Six position Multiport valve with sight glass and quick connect half unions.

- Filtration area 9 to 107 Ft²
- Pressure rated up to 150 psi
- 1½", 2", and 3" Water drain w/screen
- Up to 4" Media drain.

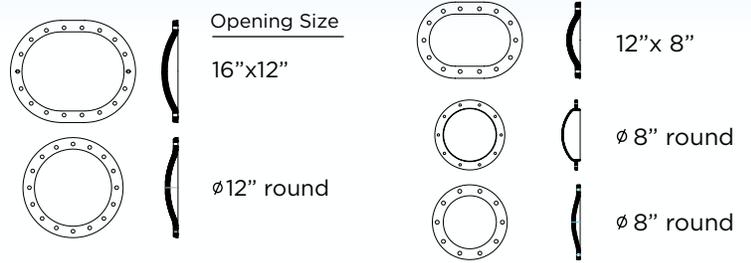
- 5 UV and corrosion resistant fiberglass wound tank.
- 6 Hydraulically balanced laterals to maximize water flow and filtration.
- 7 Manual drain*.
- 8 Large filter base for stable floor mounting.

- Maximum working temperature of 122°F
- SCH. 40 / 80 / equivalent PVC fittings, Polypropylene laterals
- Option of inlet/outlet port connection: quick union up to 4" or flanged port up to 10".

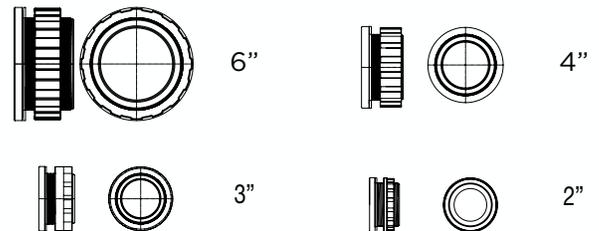
Optional Extras



Lateral / side manhole



Sight Glass



Waterco's advanced manufacturing capabilities have enabled it to incorporate sight glasses and large manholes into its high-pressure fiberglass filters. Waterco Micron Side Mount Deep Bed Commercial filters are available with the option of:

- 1 2", 3", 4" Or 6" sight glasses.
- 2 8", 12" x 8", 12", 16" x 12" lateral manholes.
- 3 Fiberglass reinforced vinyl ester for improved resistance.
- 4 Extra reinforcement to increase the working pressure rating to 87psi and 116 psi.

Micron fiberglass filter construction



Inner shell is constructed from fiberglass reinforced Isothalic polyester approved by NSF.

Resin is of reasonable heat distortion temperature. Option of Vinyl-ester coating is available upon request for ozone applications.

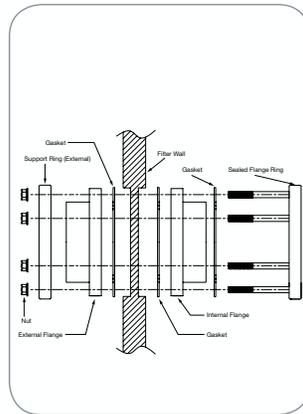


Fiberglass layer is constructed from 18-ounce combination of high tensile strength chopped strand mat and woven mat, which provides superior multi-directional strength.



Patented port boring

Inlet/outlet ports are bored using a digital controlled boring process for absolute precision. The patented boring process creates perfectly flat parallel internal and external surfaces, perfect for gaskets sealing the inner and outer wall of the filter tank.

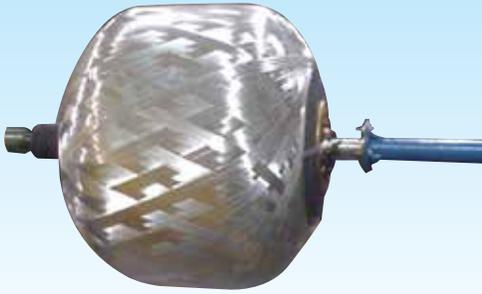


Triple seal with no metal contact

Waterco's unique design does not allow any water contact with its metal flange rings. Three gaskets are incorporated to further guarantee water-tight sealing. Additional lamination reinforcement is provided for large diameter penetrations and man holes.



PVC flange with specialized glass reinforced corrosion-resistant backing ring up to 10" in diameter.



Filament winding

Inner shell is filament wound using a computer controlled four-axis machine. The winding angle for polar winding using non-geodesic calculation was generated by advanced winding software. (circumferential) winding provides circumferential strength to the filter tank. Fiberglass roving of up to 2400tex is impregnated into ortho-phthalic Polyester resin in the winding process.



Proprietary manhole & sight glass construction

Generally, large manholes and sight glasses are harder to incorporate in high pressure filters, because any opening in a filter vessel creates a potential weak point or complicates the manufacturing process. Waterco's proprietary fiberglass manufacturing techniques enable the option of large sight glasses and large manholes for its high pressure filters, capable of withstanding up to a 150psi pressure rating.



Inlet/outlet ports PVC quick connect union, up to 4" for ease of plumbing and servicing.



Positive sealing manways

Waterco's elliptical positive sealing manways provide reliable access to the filter vessel for visual inspections and cleaning. Each manway is constructed out of fiberglass and comes equipped with dual yokes.

Micron fiberglass filter components



Nozzle plate

Micron SPDD filters are fitted with a plate and nozzle system, which ensures uniform flow for both filtering and backwashing. This ensures maximum performance through the media bed.

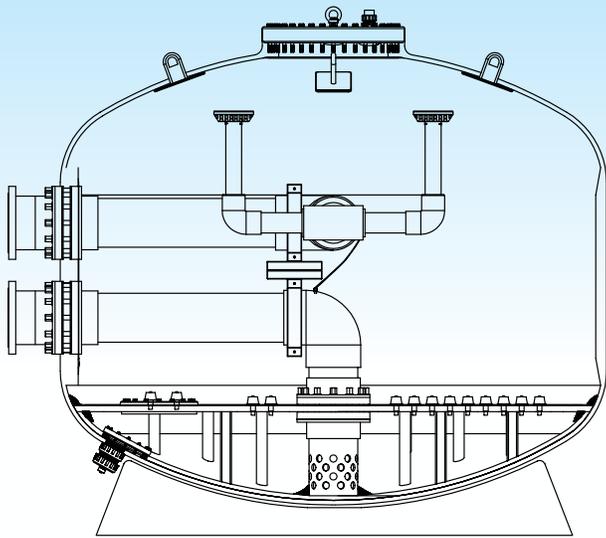
The nozzle plate system also allows the introduction of pressurized air directly into the bottom of the filter media. Uniform introduction of air and water through the nozzle plate provides vigorous agitation and filter media expansion required for an effective air/water backwash leading to reduced backwashing times and reduced volumes of water. This saves up to 25% of backwash water.

Patented nozzle plate filter

Waterco has developed a new method of fabricating a nozzle plate filter, which practically eliminates failure rates experienced in most other nozzle plate filters. This process has been granted a patent in Australia, with patent pending in other parts of the world.

Nozzle plate filters historically have a higher rate of failure, whether they are made of fiberglass, stainless steel or mild steel coated with anti-corrosive material. Nozzle plates are traditionally attached to the wall of the filter, separating the unfiltered water and filtered water of the tank. During filtration mode as well as backwashing mode, the plate has cyclic movement vertically flexing upwards and downwards, whereas the wall of the filter has cyclic movements horizontally flexing inwards and outwards.

That critical joint is the Achilles heel of most nozzle plate filters. Over time, with two different axes of expansion and contraction, the joint weakens and breaks.



Waterco MPV's are available in 1 1/2", 2", 2 1/2", 3" and 4"

Flexible joint

Waterco's unique construction method eliminates this problem, by creating a separate chamber within the filter. Additionally, the nozzle plate is attached to the wall of the filter with a flexible joint, instead of traditionally attaching a rigid joint. This removes the stress typically found in traditional nozzle plate filters, further enhancing the durability of these filters.

Waterco's Micron nozzle plate filters have been installed in a number of commercial projects including the Shoaiba power and desalination plant in Saudi Arabia. An oil-fired combined cycle gas turbine plant, Shoaiba is the world's third largest integrated water and power plant.



Waterco Multiport valves

Constructed from heavy duty ABS and GFPP, Waterco Multiport valves are designed for maximum performance and working pressures. Waterco's entire range of Multiport valves are engineered to withstand a working pressure of up to 58 psi with a test pressure of 87 psi.

- 1 Glass filled thermoplastic.
- 2 Durable lever action handle.
- 3 6-way multiple valve positions.
- 4 High grade stainless steel components.
- 5 Pressure gauge.
- 6 Wear resistant rotor.
- 7 Clear backwash sight glass.
- 8 Metric or imperial quick connect unions.

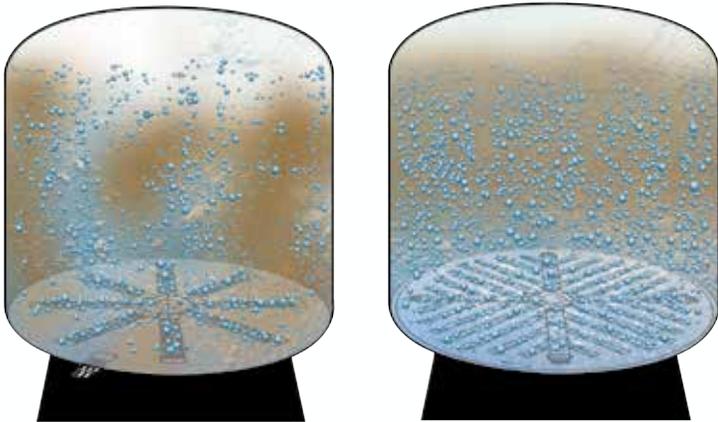
Micron fiberglass filter components



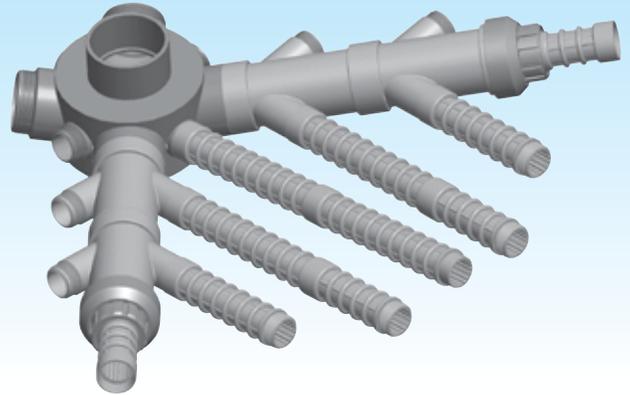
Internal plumbing & laterals

Fiberglass filter vessels are shipped complete - no field installation of internal plumbing is required. All internal plumbing is structurally supported to eliminate potential transit damage.

Waterco laterals and internal plumbing are highly corrosion and chemical resistant. Laterals are constructed from Polypropylene and all internal plumbing constructed from PVC and Polypropylene.

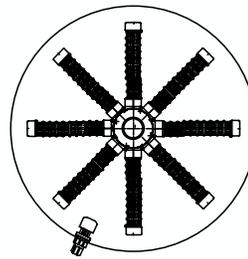


Conventional laterals are not suitable for large-scale commercial filters as “dead legs” exist between the laterals, which compromises water flow through the filter bed. Waterco’s unique “fish tail” or “fish bone” lateral configuration eliminates this problem by providing effective coverage of the filter bed and balanced water flow.

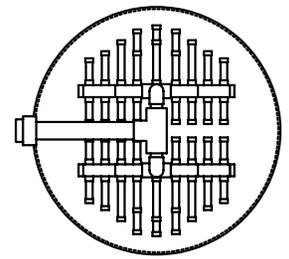


Hydraulically balanced laterals

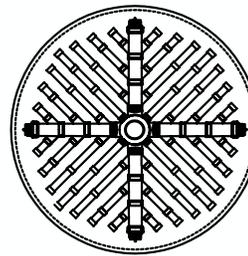
Micron vertical commercial filters are equipped with “Fish tail” or “Fish-bone” hydraulically balanced laterals, to improve its filtration and backwashing hydraulic efficiency.



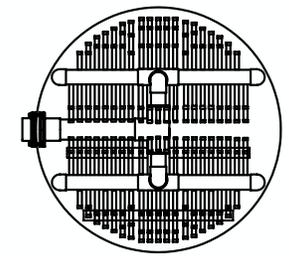
Conventional lateral configuration



Commercial vertical filters with 3" ports



Commercial vertical filters with 2½" as well as the SD1200 and SD1400 with 3" ports



Commercial vertical filters with 4", 6", 8" ports

Top Mount Sand Filters

Proven Strength and Durability



Specifications

Filter Model	Port Size	Bed Depth	Filter Area	Tank Diameter	Overall Height	Filtration Flow Rates		Backwash Flow Rates		Media Volume	Sand 16/30	Sand 8/16	Glass 0.6-0.8
						5 GPM/ft ²	10GPM/ft ²	15 GPM/ft ²	20 GPM/ft ²				
						Flux Rate		Flux Rate					
S900	2.0	16.5	6.85	36	49	34	69	103	137	11.37	849	187	940
S1000	2.0	18.9	8.46	40	54	42	85	127	169	15.48	1199	212	1327
S1050	2.5	20.1	9.33	42	59	47	93	140	187	17.78	1400	221	1549
S1200	2.5	22.8	12.18	48	64	61	122	183	244	26.00	2085	285	2307
S1200	3.0	22.8	12.18	48	77	61	122	183	244	26.85	2070	378	2290



Lateral under drain system

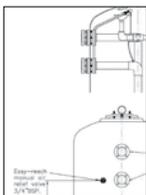
Sidemount Sand Filters

Proven Strength and Durability



Specifications

Filter Model	Port Size	Bed Depth	Filter Area	Tank Diameter	Overall Height	Filtration Flow Rates		Backwash Flow Rates		Media Volume	Sand 16/30	Sand 8/16	Glass 0.6-0.8
						5 GPM/ft ²	10GPM/ft ²	15 GPM/ft ²	20 GPM/ft ²				
						Flux Rate		Flux Rate					
SM750	2.0	15.7	4.76	30	38	24	48	71	95	6.89	553	76	611
SM900	2.0	17.3	6.85	36	43	34	69	103	137	10.64	878	92	971
SM1050	3.0	18.5	9.33	42	49	47	93	140	187	15.24	1268	122	1402
SM1200	3.0	22.8	12.18	48	58	61	122	183	244	24.91	2055	216	2273
SM1400	3.0	26.4	16.58	57	63	83	166	249	332	39.91	3235	403	3579
SM1600	3.0	26.4	21.66	65	74	108	217	325	433	52.37	4236	538	4686
SM1600	4.0	26.4	21.66	65	74	108	217	325	433	52.37	4236	538	4686



Easy Reach Air Release System

Waterco are the first to introduce the benefits of the “easy reach” air bleed system for commercial filters.

Located directly under the sight glass, a valve may be fitted to the tank, which is connected directly to an internal air bleed system allowing any air to be simply bled from the filter without the need to manually bleed the air from filter lid or to use additional plumbing.

Sidemount Deep Bed Filters

Proven Strength and Durability



Micron Sidemount Deep Bed Filters

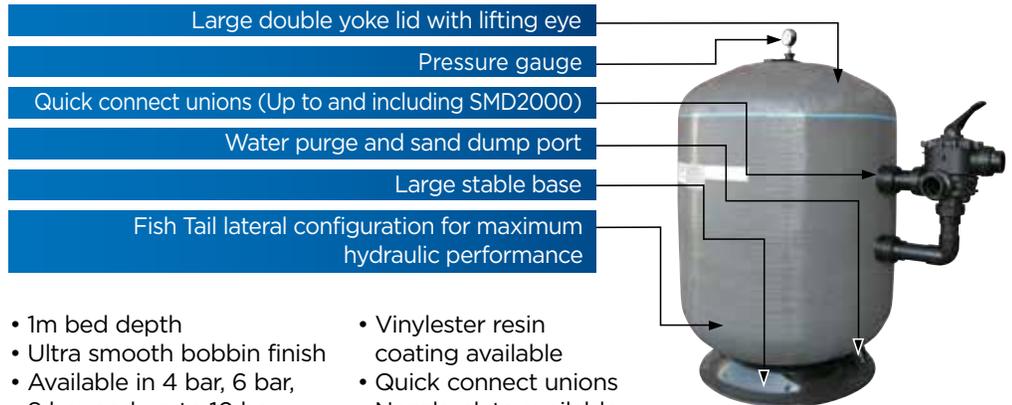
(SMD - 3280 feet filter bed depth)

The effect of deep media bed improves the filtration efficiency over standard High-rate filters by providing enhanced in-depth filtration and increased dirt capacity. In addition, the greater bed depth permits efficient use of mixed bed filter media and water treatment media such as granular activated carbon.

The filter's 1000mm media bed ensures that finer dirt particles and colloidal substances are retained to a far greater level than a filter with a shallower bed depth.

COMMERCIAL SIDEMOUNT DEEP BED FILTERS (SMD)

3280 feet filter bed depth ranges from 4 up to 10 bar



- 1m bed depth
- Ultra smooth bobbin finish
- Available in 4 bar, 6 bar, 8 bar and up to 10 bar pressure ratings
- Vinylester resin coating available
- Quick connect unions
- Nozzle plate available upon request

Specifications

Filter Model	Port Size inches	Bed Depth inches	Filter Area Feet	Tank Diameter inches	Overall Height inches	Filtration Flow Rates		Backwash Flow Rates		Media Volume Cubic Ft	Sand 16/30 lb	Sand 8/16 lb	Glass 0.6-0.8 lb
						5 GPM/ ft ²	10GPM/ ft ²	15 GPM/ ft ²	20 GPM/ ft ²				
						Flux Rate		Flux Rate					
SMD750	2.0	39.4	4.76	30	66	24	48	71	95	16.21	1402	76	1550
SMD900	2.5	39.4	6.85	36	75	34	69	103	137	25.64	1997	340	2210
SMD900	3.0	39.4	6.85	36	75	34	69	103	137	24.67	1998	251	2211
SMD1050	3.0	39.4	9.33	44	76	47	93	140	187	34.11	2717	392	3005
SMD1200	3.0	39.4	12.18	48	75	61	122	183	244	41.60	3576	216	3956
SMD1200	4.0	39.4	12.18	48	75	61	122	183	244	42.09	3529	308	3903
SMD1400	3.0	39.4	16.58	57	77	83	166	249	332	60.83	4861	685	5377
SMD1400	4.0	39.4	16.58	57	77	83	166	249	332	57.81	4825	445	5337
SMD1600	3.0	39.4	21.66	65	78	108	217	325	433	76.68	6373	617	7050
SMD1600	4.0	39.4	21.66	65	78	108	217	325	433	74.02	6330	417	7002
SMD1600	6.0	39.4	21.66	65	78	108	217	325	433	74.98	6219	617	6879
SMD1800	4.0	39.4	27.41	72	78	137	274	411	548	101.71	8542	730	9449
SMD1800	6.0	39.4	27.41	72	78	137	274	411	548	102.56	7906	1443	8746
SMD2000	4.0	39.4	33.84	80	81	169	338	508	677	124.33	9908	1426	10960
SMD2000	6.0	39.4	33.84	80	81	169	338	508	677	123.24	9808	1426	10850

Sidemount Deep Bed Filters

Proven Strength and Durability

Micron Sidemount Deep Bed Filters

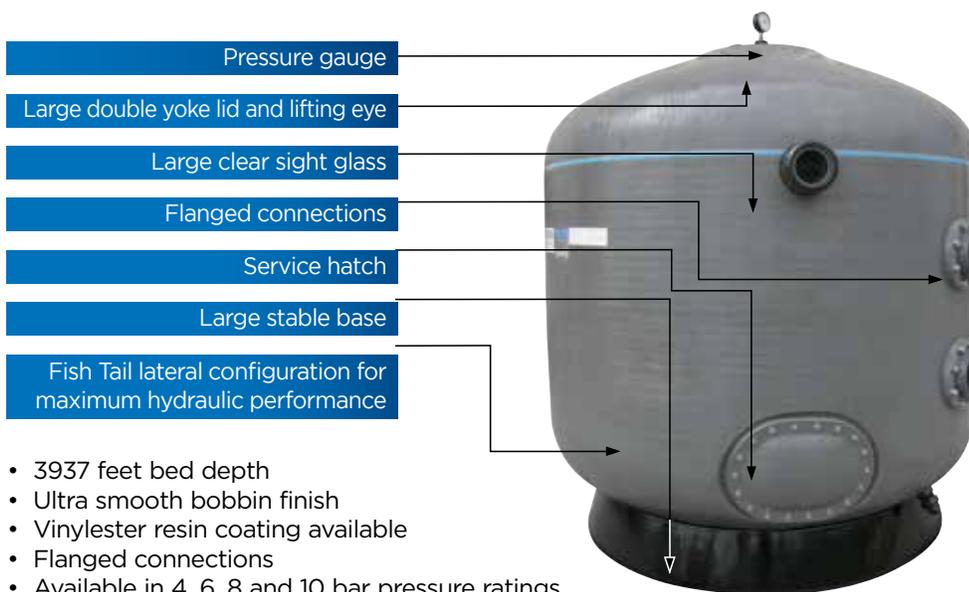
(SMDD - 1200mm filter bed depth)

The effect of deep media bed improves the filtration efficiency over standard High-rate filters by providing enhanced in-depth filtration and increased dirt capacity. In addition, the greater bed depth permits efficient use of mixed bed filter media and water treatment media such as granular activated carbon.

The filter's 3937 feet media bed ensures that finer dirt particles and colloidal substances are retained to a far greater level than a filter with a shallower bed depth.

COMMERCIAL SIDE MOUNT DEEP BED FILTERS (SMDD)

1200mm filter bed depth ranges from 2.5 to 10 bar



- Pressure gauge
- Large double yoke lid and lifting eye
- Large clear sight glass
- Flanged connections
- Service hatch
- Large stable base
- Fish Tail lateral configuration for maximum hydraulic performance

- 3937 feet bed depth
- Ultra smooth bobbin finish
- Vinylester resin coating available
- Flanged connections
- Available in 4, 6, 8 and 10 bar pressure ratings
- Nozzle plate version (SPDD)

Specifications

Filter Model	Port Size	Bed Depth	Filter Area	Tank Diameter	Overall Height	Filtration Flow Rates		Backwash Flow Rates		Media Volume	Sand 16/30	Sand 8/16	Glass 0.6-0.8
						5 GPM/ft ²	10GPM/ft ²	15 GPM/ft ²	20 GPM/ft ²				
						Flux Rate		Flux Rate					
SMDD750	2.0	47.2	4.76	30	80	24	48	71	95	19.23	1677	76	1855
SMDD900	2.5	47.2	6.85	36	89	34	69	103	137	27.70	2185	340	2417
SMDD900	3.0	47.2	6.85	36	89	34	69	103	137	29.03	2395	251	2650
SMDD1050	3.0	47.2	9.33	42	89	47	93	140	187	40.27	3279	392	3627
SMDD1200	3.0	47.2	12.18	48	88	61	122	183	244	49.46	4293	216	4749
SMDD1200	4.0	47.2	12.18	48	88	61	122	183	244	49.95	4245	308	4696
SMDD1400	3.0	47.2	16.58	57	91	83	166	249	332	71.72	5853	685	6474
SMDD1400	4.0	47.2	16.58	57	91	83	166	249	332	68.69	5817	445	6435
SMDD1600	3.0	47.2	21.66	65	90	108	217	325	433	89.98	7665	538	8479
SMDD1600	4.0	47.2	21.66	65	90	108	217	325	433	89.13	7613	512	8421
SMDD1800	4.0	47.2	27.41	72	89	137	274	411	548	112.72	9637	638	10661
SMDD1800	6.0	47.2	27.41	72	89	137	274	411	548	120.34	9527	1443	10538
SMDD2000	4.0	47.2	33.84	80	94	169	338	508	677	146.46	11925	1426	13191
SMDD2000	6.0	47.2	33.84	80	94	169	338	508	677	147.31	11813	1616	13067
SMDD2200	6.0	47.2	40.95	88	95	205	409	614	819	184.43	14321	2492	15841
SMDD2350	6.0	47.2	46.72	94	96	234	467	701	934	205.12	16353	2345	18089
SMDD2500	6.0	47.2	52.88	101	99	264	529	793	1058	230.88	18542	2505	20511
SMDD3000	8.0	47.2	76.14	120	114	381	761	1142	1523	230.88	15919	5128	17609

SPDD Nozzle Plate Filters

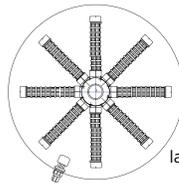
Proven Strength and Durability



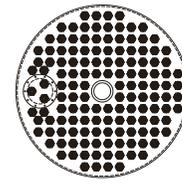
NOZZLE PLATE SIDE MOUNT DEEP BED FILTERS

3937 feet filter bed depth ranges from 4 to 10 bar

The nozzle plate system also allows the introduction of pressurised air directly into the bottom of the filter media. Uniform introduction of air and water through the nozzle plate provides vigorous agitation and filter media bed expansion required for an effective air/water backwash leading to reduced backwashing times and reduced volumes of water. Save up to 25% of backwash water.



Conventional lateral configuration



Nozzle plate configuration

Micron SPDD Nozzle Plate Filters

Micron SPDD filters are fitted with a plate and nozzle system, which ensures uniform flow for both filtering and backwashing, ensuring maximum performance through the media bed.



Nozzle Plate under drain system



Internal Nozzle Plate Service Hatch

Specifications

Filter Model	Port Size	Bed Depth	Filter Area	Tank Diameter	Overall Height	Filtration Flow Rates		Backwash Flow Rates		Media Volume	Sand 16/30	Sand 8/16	Glass 0.6-0.8
						5 GPM/ft ²	10GPM/ft ²	15 GPM/ft ²	20 GPM/ft ²				
						Flux Rate		Flux Rate					
SPDD1050	3"	1077	9.33	42	89	47	93	140	187	35.92	2882	392	3188
SPDD1200	3"	1229	12.18	48	88	61	122	183	244	46.68	4039	216	4468
SPDD1400	4"	1442	16.58	57	91	83	166	249	332	63.86	5376	445	5947
SPDD1600	4"	1644	21.66	65	90	108	217	325	433	83.57	7106	512	7860
SPDD1800	6"	1839	27.41	72	89	137	274	411	548	104.73	8105	1443	8965
SPDD2000	6"	2042	33.84	80	94	169	338	508	677	129.65	10203	1616	11286
SPDD2350	6"	2390	46.72	94	96	234	467	701	934	179.72	14038	2345	15528

Horizontal Filters

Designed and built for high performance and reliability



COMMERCIAL HORIZONTAL FILAMENT WOUND FILTERS

ranges from 4 to 10 bar (10 bar not available in all models)



- 1 Elliptical positive sealing manways.
- 2 Flanged port of up to 10”.
- 3 Hydraulically balanced distribution and lateral system.
- 4 Fiberglass wound tank, UV and corrosion resistant.
- 5 Large stable filter base for stable floor mounting.
- 6 Manual drain.



Internal plumbing & laterals

Micron Horizontal Filters

The Micron Horizontal Filter is a space-saving high performer; its compact horizontal design allows installation with minimum waste of space. The shape of the Micron horizontal filter is both attractive and functional. The spherical ends are designed to give uniform flow from both inlet and outlet collection assemblies. Micron Horizontal filters are available with a 20” (M) filter media bed and a 47” (MD) filter media bed.

Micron Horizontal's lateral system reduces backwash run times, saves water and produces flatter more uniform filter media bed after backwashing.

Micron Horizontal vessels are also available with a nozzle plate. The nozzle plate provides even distribution of air scouring and backwashing.

Specifications

Filter Model	Port Size	Bed Depth	Filter Area	Tank Diameter	Overall Height	Filtration Flow Rates		Backwash Flow Rates		Media Volume	Sand 16/30	Sand 8/16	Glass 0.6-0.8
						5 GPM/ft ²	10GPM/ft ²	15 GPM/ft ²	20 GPM/ft ²				
						Flux Rate		Flux Rate					
M2500	4.0	19.7	26.91	92	50	135	269	404	538	50.38	3760	832	4160
M3750	4.0	19.7	40.36	130	50	202	404	605	807	77.68	6249	832	6913
M3750	6.0	19.7	40.36	130	50	202	404	605	807	77.68	6119	962	6768
M5000	6.0	19.7	53.82	169	50	269	538	807	1076	107.11	8801	962	9736

Filter Model	Port Size	Bed Depth	Filter Area	Tank Diameter	Overall Height	Filtration Flow Rates		Backwash Flow Rates		Media Volume	Sand 16/30	Sand 8/16	Glass 0.6-0.8
						5 GPM/ft ²	10GPM/ft ²	15 GPM/ft ²	20 GPM/ft ²				
						Flux Rate		Flux Rate					
MD5500	6.0	47.2	59.20	131	79	296	592	888	1184	230.10	19467	1509	21533
MD5500	8.0	47.2	59.20	131	79	296	592	888	1184	230.10	19467	1509	21533
MD6500	8.0	47.2	69.97	153	79	350	700	1049	1399	279.11	23821	1623	26350
MD8000	8.0	47.2	86.11	183	79	431	861	1292	1722	346.24	29940	1623	33119
MD10000	10.0	47.2	107.64	222	79	538	1076	1615	2153	442.26	38363	1953	42436

Filter Model	Port Size	Bed Depth	Filter Area	Tank Diameter	Overall Height	Filtration Flow Rates		Backwash Flow Rates		Media Volume	Sand 16/30	Sand 8/16	Glass 0.6-0.8
						5 GPM/ft ²	10GPM/ft ²	15 GPM/ft ²	20 GPM/ft ²				
						Flux Rate		Flux Rate					
42 x 75	4.0	16.0	19.60	82.6	42.8	98	196	294	392	26.88	2000	450	2244
42 x 91	6.0	16.0	24.00	103.8	42.8	120	240	360	480	34.01	2200	900	2552
42 x 106	6.0	16.0	28.20	118.9	42.8	141	282	423	564	40.59	2600	1100	2992
42 x 120	6.0	16.0	32.20	132.8	42.8	161	322	483	644	47.17	3000	1300	3476
48 x 75	4.0	18.0	22.10	81.7	48.8	111	221	332	442	34.01	2250	850	2596
48 x 91	6.0	18.0	27.60	102.5	48.8	138	276	414	552	43.33	2850	1100	3256
48 x 106	6.0	18.0	32.40	117.5	48.8	162	324	486	648	52.11	3400	1350	3872
48 x 120	6.0	18.0	37.00	131.5	48.8	185	370	555	740	60.33	3900	1600	4488

Hydron Split Tanks



Designed for water treatment and commercial swimming pool facilities, built using the lasts in gel coated fibreglass technology.

- Durable
- Easy to maintain
- Flanged tank port connections
- Perfect for retrofit
- Easy transport
- Flexible configurations available
- Sight glass available

HYDRON SPLIT TANKS

Ideal for retrofitting

Hydron Split tank can be delivered in two parts and assembled on site in the plant room. The two halves seal perfectly using a double o ring and are held together by a flange using bolts and nuts. The filter is specifically designed to fit through existing standard size plant room doors.

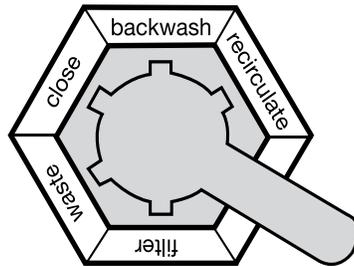
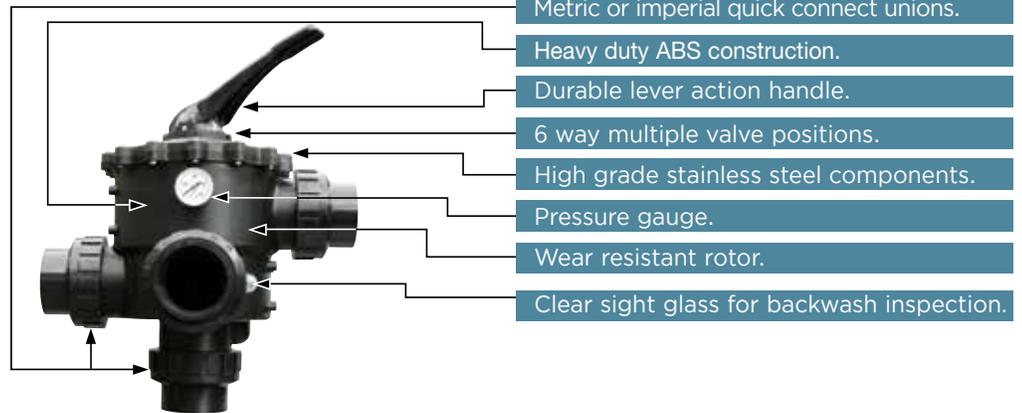


Specifications

Filter Model	Port Size	Bed Depth	Filter Area	Tank Diameter	Overall Height	Filtration Flow Rates		Backwash Flow Rates		Media Volume	Sand 16/30	Sand 8/16	Glass 0.6-0.8
						5 GPM/ft ²	10GPM/ft ²	15 GPM/ft ²	20 GPM/ft ²				
						Flux Rate		Flux Rate					
SMDDT1200	3.0	47.2	12.18	60	88	61	122	183	244	49.46	4293	216	4749
SMDDT1400	4.0	47.2	16.58	68	92	83	166	249	332	68.69	5817	445	6435
SMDDT1600	4.0	47.2	21.66	76	90	108	217	325	433	89.13	7613	512	8421
SMDDT1800	6.0	47.2	27.41	83	93	137	274	411	548	120.34	9527	1443	10538

Multiport Valves

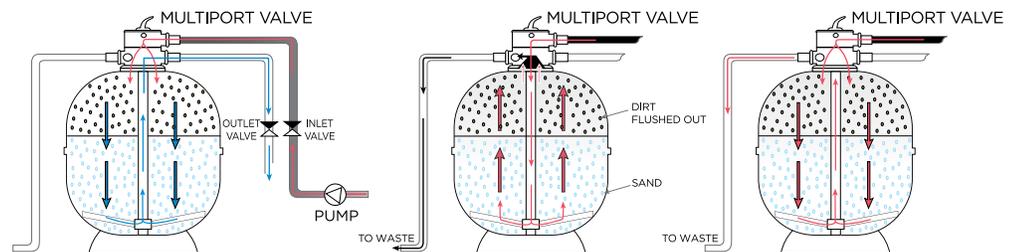
Heavy duty construction



Multiport Valve Main Functions

- Filter** - downward flow through the filter bed to outlet
- Backwash** - upward flow through the filter bed to waste
- Rinse** - downward flow through the filter bed to waste
- Waste** - bypass the filter bed to waste
- Re-circulate** - bypass the filter bed to outlet
- Closed** - no flow to the filter

Cleansing a filter simply requires shifting the Multiport lever from the “filter” position to the “backwash” position, which reverses the flow of water in the filter, flushing the filter bed.



Waterco Limited

Established since 1981, Waterco is an Australian publicly listed company involved in the manufacture and distribution of swimming pool and spa equipment and chemicals, domestic water filters, softeners and purifiers, and commercial and industrial water treatment equipment.

Waterco's research and development team has created an innovative range of award-winning products. The company's advanced fiberglass winding and pioneering plastic moulding techniques have delivered premium quality products to over 40 countries via its branches operating in Australia, New Zealand, Malaysia, China, the United Kingdom, United States of America, Canada, Indonesia and Singapore.

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