New

Machclean - Sand Media Filters

Manual & Automatic (20", 24", 30", 36" & 48")

The Machclean Sand Media Filter delivers versatile and efficient filtration solutions for agricultural needs. Engineered with advanced polymer technology and reinforced glass fiber, this filter excels in high humidity environments, providing exceptional durability and performance. It effectively filters out organic contaminants and sediments from various water sources, ensuring that drip and micro-irrigation systems operate without clogging. With user-friendly maintenance and flexible operation modes, it is ideal for any agricultural application. Available in both manual and Automatic versions.



HIGHLIGHTS

- **Corrosion-Free Durability:** Built with advanced polymer technology and reinforced glass fiber, with a lifetime warranty against corrosion.
- **Exceptional Strength:** Durable under-drain flutes made from polypropylene glass-filled material ensure longevity and impact resistance.
- **Anti-Clogging Design:** Innovative flute design minimizes clogging and reduces pressure drop, maintaining optimal flow rates.
- **Lightweight & Durable:** 45-55% lighter than traditional metal filters, yet robust enough to handle high capacity.
- **All-Weather Compatibility:** Operates efficiently even in high humidity, ensuring reliable performance under various conditions.
- **Easy Maintenance:** Large service ports allow for hassle-free cleaning for manual filters and upkeep.

APPLICATIONS

- **Drip and Micro-Irrigation Systems:** Protects emitters from plugging by effectively filtering out impurities and sediments.
- **Surface Water Filtration:** Ideal for filtering water from open sources like wells, ponds, rivers, or lakes, which may contain organic contaminants, silt, and clay.



Technical Specifications

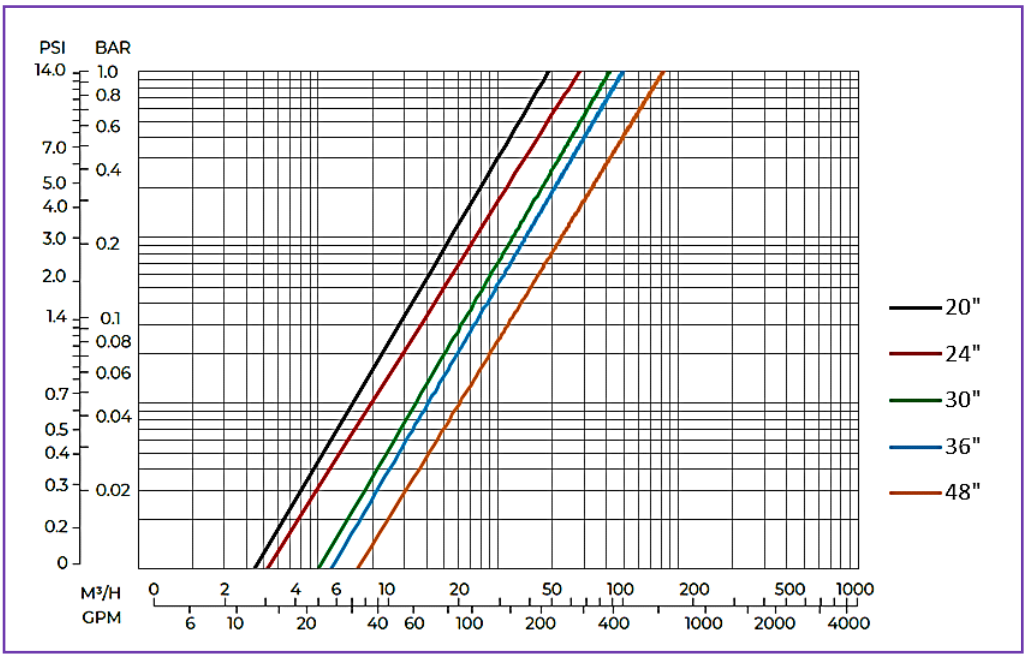
Body Diameter	Inlet/ Outlet Size		Filtration Area / Tank		*Recommended Flow Range / Tank		*Backflush Flow Range / Tank		Empty Tank Weight		Sand Bed Height		Sand Qty Per Tank		End Connections
INCH	MM	INCH	MTR^2	ft^2	M^3/HR	GPM	M^3/HR	GPM	KG	LBS	MM	INCH	KG	LBS	
20	50	2	0.2	2.2	9-15	40-66	12-14	53-62	43	95	400	16	150	330	Flanged /Grooved
24	80	3	0.29	3.1	16-24	70-106	14-16	62-70	52	115	400	16	200	440	
30	80	3	0.45	4.8	25-32	110-141	18-32	79-141	73	160	400	15	350	770	
36	80	3	0.64	6.89	40-45	176-198	17-18	75-80	132	291	400	15.7	450	992	
48	100	4	1.13	12.16	75-80	330-352	17-18	75-80	213	469	400	15.7	650	1763	

- Maximum working pressure: **6 bar (85 psi)**
- Backflush Interval (flushing cycle): **4 hours** *
- Minimum flushing time of each filter station: **90 seconds**
- Minimum pressure during back flushing: **1.5 bar (22 psi)**
- Materials of construction: **FRP, EPDM, PPGF**

Note: Automatic sand media filter flushing is performed on a time basis & DP and the controller is pre-set to 4 hours cycle between flushing.

*Depends on water quality and type of media used.

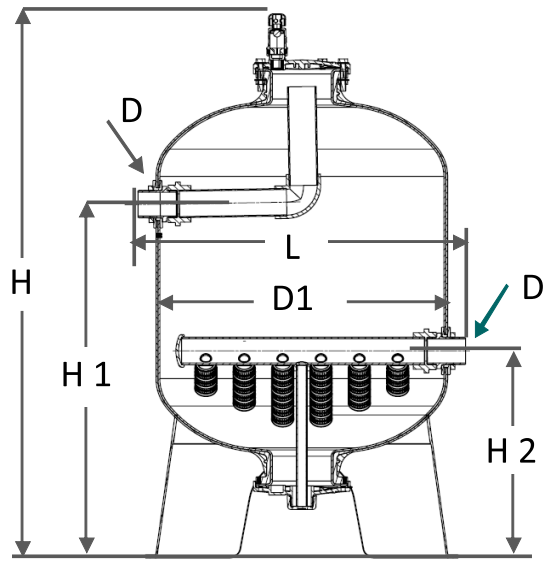
Head loss Curve (Tank Only)



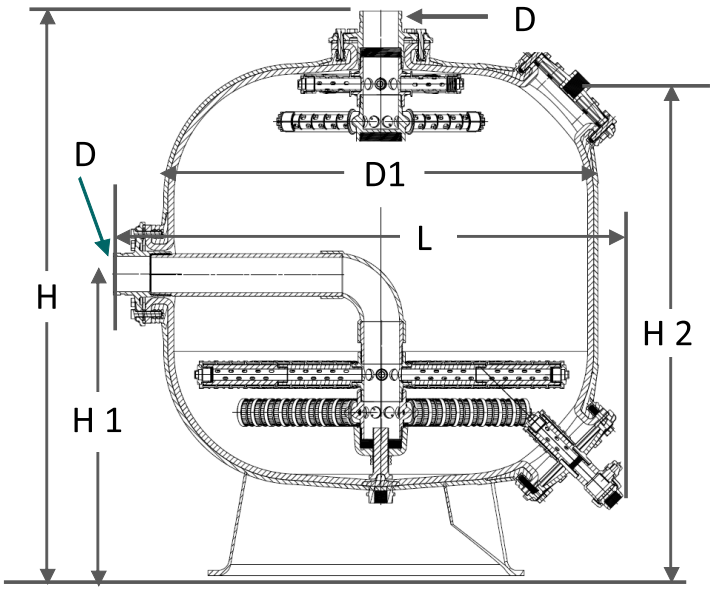
Creating a Green World®

Dimensions

TANK SIZE	NUMBER OF TANKS	H		H1		H2		D		D1		L	
		MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH
20"	2	1260	50	930	36	510	20	63	2	506	20	600	23.6
	3												
24"	2	1310	52	940	37	520	21	90	3	608	24	702	27.6
	3												
	4												
30"	2	1360	54	950	38	570	22	90	3	760	30	853	33.6
	3												
	4												
36"	2	1196	47	639	25	1055	42	90	3	917	36	1075	42.3
	3												
	4												
48"	2	1388	55	746	29	1189	47	110	4	1205	48	1442	56.7
	3												
	4												
	6												
	8												



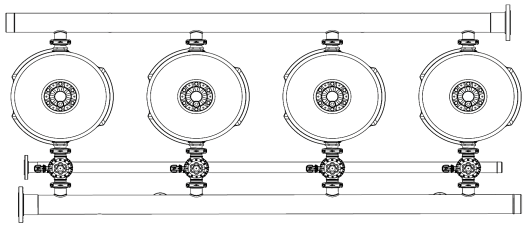
20", 24" & 30"



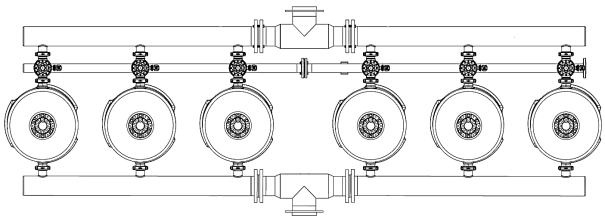
36" & 48"

Multi Unit Configurations: 20”, 24” & 30” Tanks

Straight Line Tank System



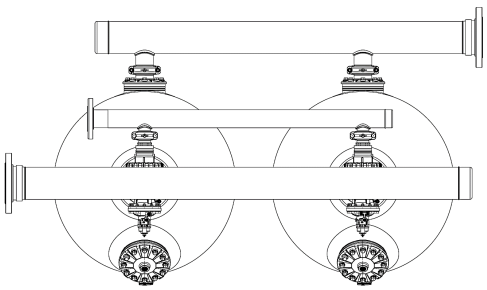
Side Feed

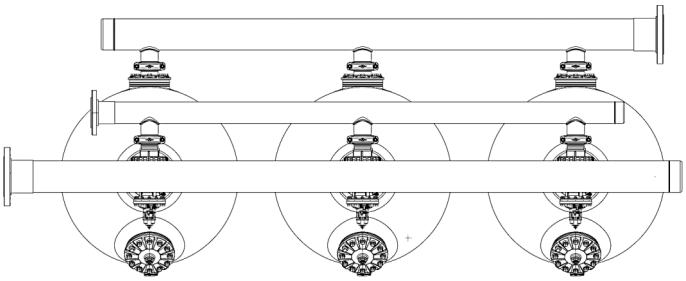


Center Feed

Multi Unit Configurations: 36” & 48” Tanks

Straight Line Tank System





H – Shaped Centre Feed System

