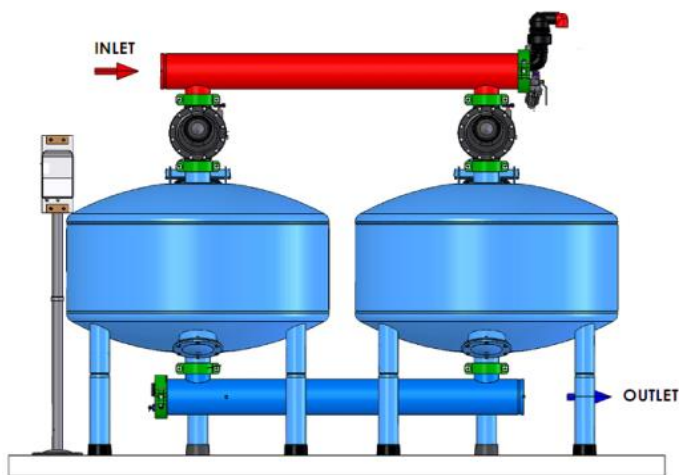
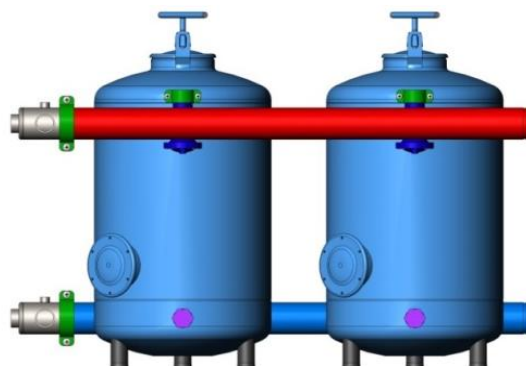


Carbon Steel with Polyester Coating



48"

Carbon Steel Media Filter Systems
Single Chamber



12", 16", 20", 24", 30", 36"

Carbon Steel Media Filter Systems
Double Chamber

Applications:

- The Toro/Yamit Sand Media Filters provide quality filtration for water sources containing high levels of organic matter, algae contamination, sand and silt.
- Effective with all water sources including reservoirs, canals, rivers, wells, and treated effluent water.

Special features:

- **Filter Body is carbon steel with UV protected "Polyester" coating.**
"Polyester" coating will not chalk or fade like epoxy coating, used by most manufacturers.
- **Injected molded polypropylene slotted pipe under-drain design** that covers the entire diameter of the media tank to provide the most uniform lifting of the sand bed during flush mode, ensuring a clean sand bed after every flush.
- **Only one layer of sand media is necessary with any Toro/Yamit system**
- **High Quality Backflush Valve (Reliable and low head loss)**
 - Short overlap from flush mode back to filtration mode wasting much less water
- **Modular manifolds for simple and flexible assembly and expansion.**
- **Maximum Operating Pressure is 120 psi**



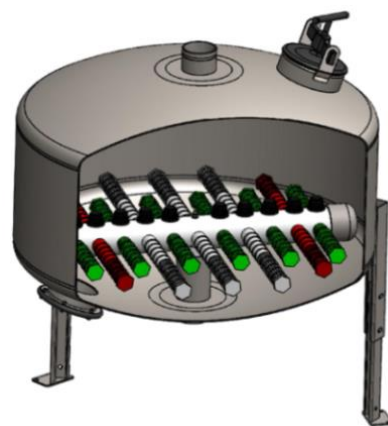
YAMIT
FILTRATION

Sand Media Filter Series F660IVL

Carbon Steel and Stainless-Steel Sand Media Filters



Stainless Steel with “Passivation”



Applications:

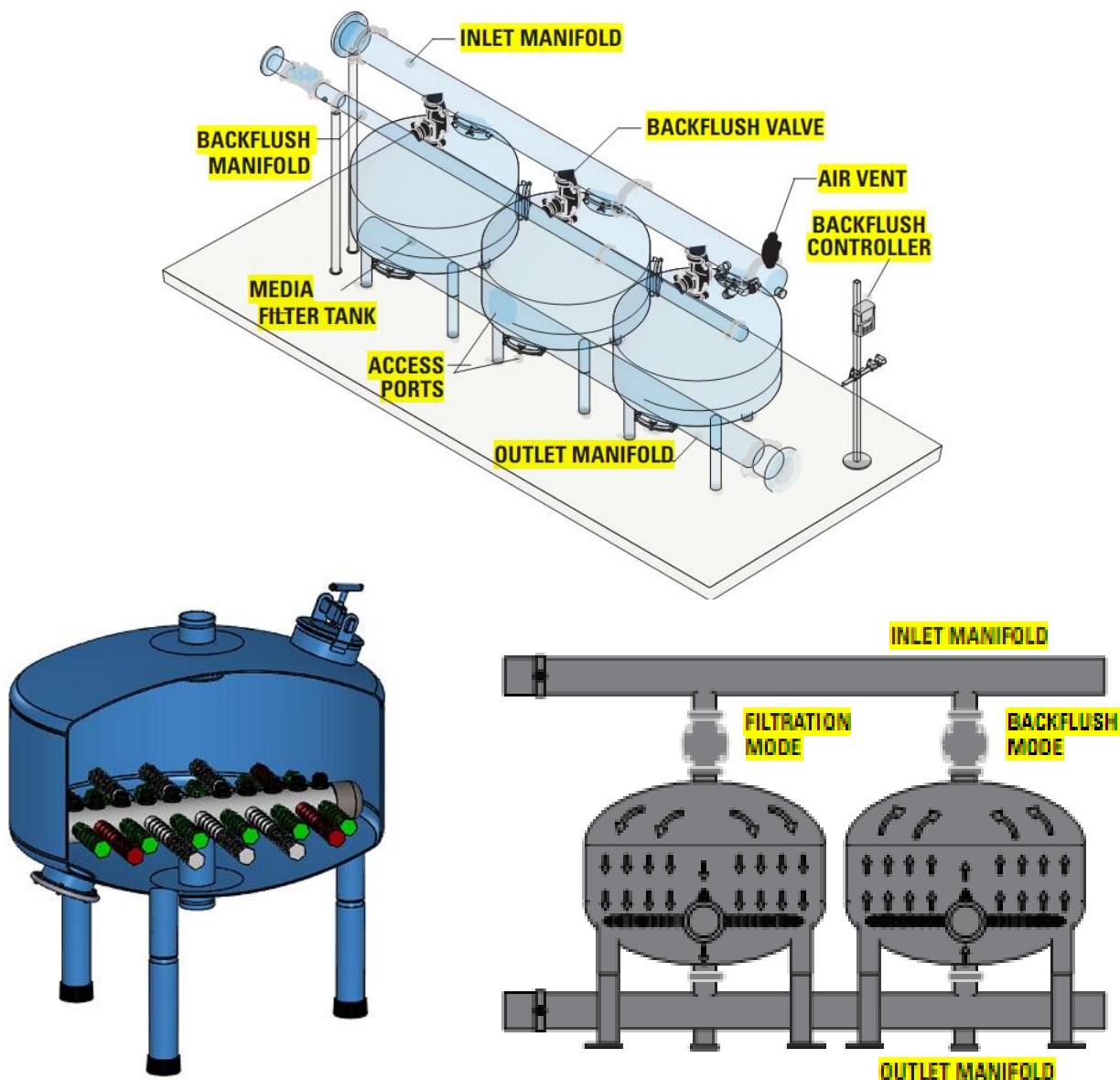
- Suitable for very corrosive water and humid, salty environments for superior protection against rust and corrosion.
- Effective with all water sources including reservoirs, canals, rivers, wells, and treated effluent water containing high loads of algae and organic material.

Special features:

- Filter Body is “**Passivized**” 304L Stainless Steel material.
- **Anti-Corrosion Process**, called “**Passivation**”, is a special finishing process that makes stainless steel more corrosion resistant. The passivation process uses nitric acid to remove free iron compounds from the surface. It also creates a protective oxide layer that reduces any chemical reaction with the air to greatly minimize corrosion, especially at the welds. Prevents pin holes.
- **Injected molded polypropylene slotted pipe under-drain design** that covers the entire diameter of the media tank to provide the most uniform lifting of the sand bed during flush mode, ensuring a clean sand bed after every flush.
- **Only one layer of sand media is necessary with any Toro/Yamit system**
- **High Quality Backflush Valve (Reliable and low head loss)**
 - Short valve overlap from flush mode back to filtration mode wastes very little water compared to other backflush valves with stem/shaft design
- **Modular manifolds for simple and flexible assembly and expansion.**
- **Maximum Operating Pressure is 85 psi.**

Sand Media Filter Series F660IVL

Carbon Steel and Stainless-Steel Sand Media Filters



Operation principles:

Water enters the filter via the inlet and spreads equally on the media. Dirt particles and organic matter is trapped on and in the media. Water passes through the media and flows out via the filter elements free of dirt. The cleaning backwash process is carried out by shutting off the inlet of the filter with a 3-way backwash valve and opening the flush water outlet.

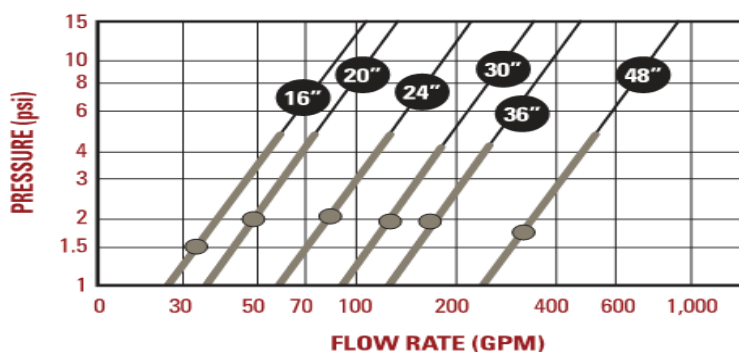


Sand Media Filter Series F660IVL

Carbon Steel and Stainless-Steel Sand Media Filters

Flow Range (gpm)							
UNITS	12"	16"	20"	24"	30"	36"	48"
1	15-22	23-39	35-59	59-88	88-132	140-193	242-348
2	21-31	31-47	78-132	114-192	123-282	175-350	400-600
3			117-198	171-288	293-452	350-525	600-900
4						--	800-1,200
5						--	1,000-1,500
6						--	1,200-1,800
8						--	1,600-2,400

HEADLOSS (FLOW VS. PRESSURE)



● AVERAGE POINT - HEADLOSS / FLOW RATE

Silica Sand Media Requirements and Flushing Flow Rates

Tank Size (in)	Required Sand (lb)	Flushing Flow Rate (gpm)
12	110	26
16	165	45
20	250	70
24	360	95
30	500	125
36	800	155
48	1,300	190

TANK SIZE	MUSHROOMS PER TANK
12"	8
16"	11
20"	14
24"	21
30"	30
36"	42
48"	Underdrain Slotted Pipes

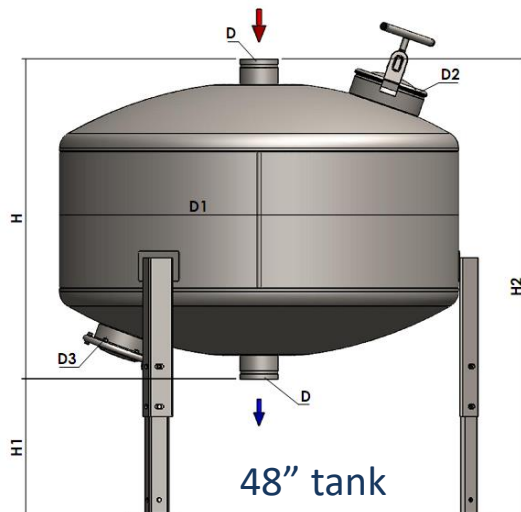
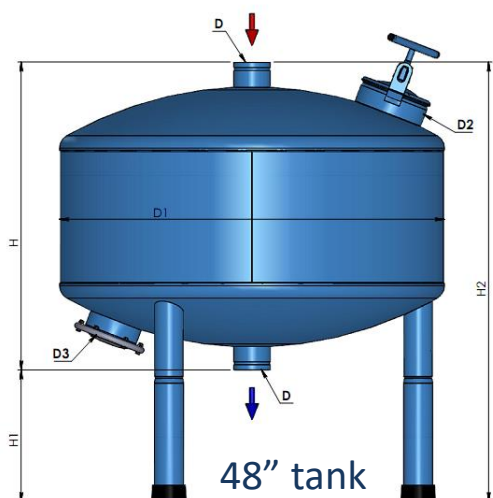
Silica Sand Media Data

Media Type	Mesh range	Recommended Size
Crushed Silica 12	80-130	1.1 – 1.2 mm
Crushed Silica 16	155-200	0.6 – 0.7 mm
Crushed Silica 20	170-230	0.45 – 0.5 mm

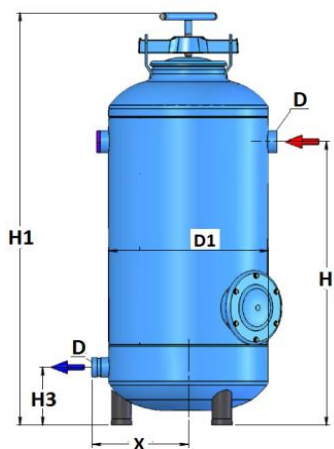
Sand Media Filter Series F660IVL

Carbon Steel and Stainless-Steel Sand Media Filters

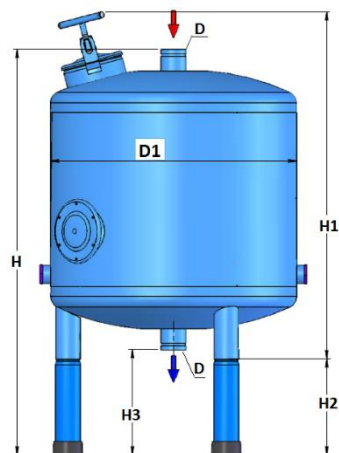
Model	D (in)	D1 (in)	D2 (in)	D3 (in)	H (in)	H1 (in)	H2 (in)
YF660IVL	4	48	8	6	37.8	16.1	53.9



Model	D (inch)	D1 (inch)	H (inch)	H1 (inch)	H2 (inch)	H3 (inch)	X (inch)
YF605	1	12	30.91	45.65		5.91	7.01
YF610	2	16	34.25	46.07		7.09	9.65
YF620	2	20	34.65	50.32		7.09	11.34
YF635	2	24	34.65	50.44		7.09	13.98
YF640	3	30	53.51	48.01	10.59	12.13	
YF650	3	36	57.56	49.21	13.66	15.00	



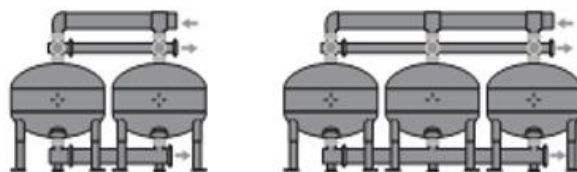
12", 16", 20", 24" tanks



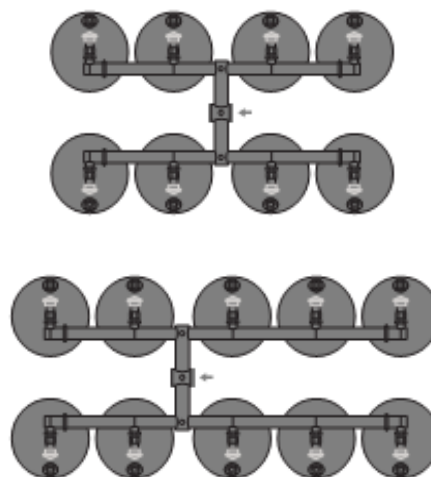
30" and 36" tanks

Size	Configuration
12" 2-unit	Straight
16" 2-unit	Straight
20" 2-unit	Straight
24" 2-unit	Straight
24" 3-unit	Straight
24" 4-unit	Straight
30" 2-unit	Straight
36" 2-unit	Straight
36" 3-unit	Straight
36" 3-unit	Straight
36" 4-unit	Tee Pattern
36" 5-unit	Tee Pattern
36" 6-unit	Tee Pattern
48" 2-unit	Straight
48" 3-unit	Straight
48" 4-unit	Straight or Tee Pattern
48" 5-unit	Tee Pattern
48" 6-unit	H Pattern
48" 8-unit	H Pattern
48" 12-unit	H Pattern

Straight End Feed



H Pattern



Tee Center Feed Configuration

