



SK-SSM-SERIES

STAINLESS STEEL SKID-MOUNTED
SAND MEDIA FILTERS



SK-SSM-Series Stainless Steel Media Filter (skid-mounted)

The SK-SSM units are enhanced versions of the Everfilt® SSM-Series designs, with a durable carbon steel skid that includes forklift pockets, an industrial epoxy finish, and D-rings. These mobile filtration systems are ideal for fleet or rental use, available in configurations with up to four tanks per skid and diameters from 18" to 54". This unit provides 40-micron filtration with a silica sand and gravel media bed, making them reliable for industrial and agricultural applications. System comes standard with 304SS welded wedge wire underdrains (NO PVC), and magnesium sacrificial anodes to prolong life and performance of your system for years to come.

Options

- 304SS Welded Underdrains
- Auto/Manual Backwash
- Flanged Connections
- Custom Configurations
- Custom Skid Construction
- LCD Display Controls
- Pressure Sustaining Valves
- Solar Power Kit
- Carbon Steel Skid Construction
- Sacrificial Anodes & More...



Features

- Diameter Options:** 12", 18", 24", 30", 36", 48", 54"
- Side Shell Height:** 18"
- Pressure Ratings (psi):**
 - 54" to 36": 80 psi
 - 30" to 24": 100 psi
 - 18" to 12": 125 psi
- Flow Rate (gpm):** 25 (minimum) to 1500+ (maximum)
- Surface Area (ft²):**
 - 12": 0.78 ft²
 - 18": 1.76 ft²
 - 24": 3.14 ft²
 - 30": 4.90 ft²
 - 36": 7.06 ft²
 - 48": 12.56 ft²
 - 54": 15.89 ft²





Automatic Backwash Control

Everfilt designs and manufactures its own automatic backwash controls. User friendly control knobs, panel labeling and display lights make for easy use. Made of solid-state electronic circuits, the automatic controls help assure effective system operation by initiating needed backwash in an efficient manner. The control can be set to trigger backwash when a specified pressure differential or time interval is reached. The control is housed in a water resistant enclosure.

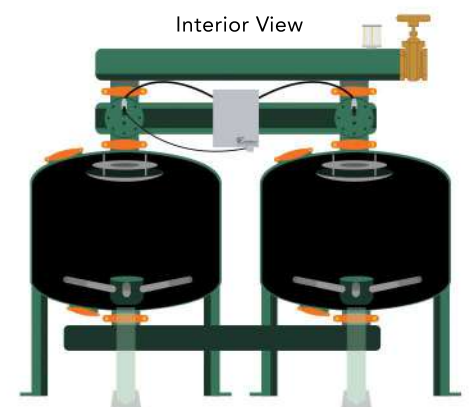
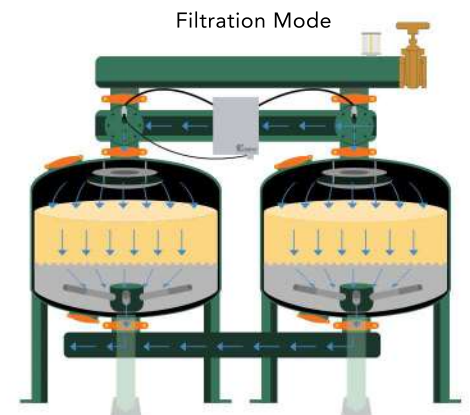
An optional LCD readout indicates when the next backwash cycle is timed to begin, the total number of backwash cycles that have been initiated since last reset, and the number of backwashes that have been triggered by pressure differential. Users find this information very useful in identifying operating conditions requiring their attention. Models are available for 4, 8 and 12 station controls. In some cases it's possible to expand an existing filter installation without the expense of changing controls.

Backwash Operation

The backwash valve is opened by hand or by automatic valve. This shuts off the incoming raw water and opens backwash port to a near atmospheric condition. Pressurized filter water from adjacent filter(s) is forced through the carbon steel underdrain, upward through the gravel pack, expanding the sand bed, forcing the lighter particulate matter out the backwash line. Reversing the backwash valve returns the unit to the filter operation. Everfilt's unique underdrain uniformly spreads the incoming filtered water so that the maximum debris is separated from the sand in the shortest time period.

Automatic Valve Actuation

Valve Actuation is accomplished by using the hydraulic power of the water source to move or actuate the backwash valve in and out. The electrical signal from the electronic control energize a solenoid valve, which allows the hydraulic pressure of the water source to push against a piston compressing a spring, opening the backwash valve. De-energizing the solenoid valve allows the hydraulic pressure to bleed off of the piston, allowing the spring to expand, retracting the piston, closing the valve.



Control Construction

Solid-state computerized control, housed in a water resistant enclosure. No moving parts to wear out or malfunction.

Controls

SEQUENCE LAMP	The lamp lights during the sequencing operation.
168 HOUR TIMER	Min. 1/8 hour. Starts sequencing operation at pre-selected time.
TEST	For testing control operation and output stations.
2 SEC. to 330 MIN. FLUSH TIME	Controls backwash time per filter.
0 SEC. to 90 MIN. DWELL TIME	Controls time between backwash of each filter.
POWER SWITCH	Disconnects power to control.
MANUAL START	Initiates new cycle whenever it is pressed.
P.D. POWER SWITCH	Disconnects pressure differential sensor from control.
CIRCUIT BREAKER	Overload protection for control.
PROGRAMMABLE P.D. DELAY	0 to 360 sec.



94B - 12L

Optional slave cable allows connectivity for up to 24 stations.



Specifications

Voltage Input — 120 VAC/12 VDC

Voltage Output — 12 VDC

Loading:

Dormant Operation — 25 MA

Sequencing Operation — 300 MA

Station Capacity — 2.0 Amps

Number of Station* — One at 1.0 Amp
(this station is active through entire sequence operation)



Options

220-440 VAC

12 VDC Solar Panel

4 Station Control w/o LCD read Out (St'd)


4, 8, or 12 Station Control with LCD Read Out Contact Factory for Details



Dimensional Data & Characteristics


SK-SSM SERIES (INLINE)	FT2	TANKS	FLOW RATES					
			MINIMUM			MAXIMUM		
			GPM	M3/HR.	LPS	GPM	M3/HR.	LPS
SK-SSM18-2A	3.5	2	35	7.94938	2.2082	85	19.30563	5.36265
SK-SSM18-3A	5.25	3	55	12.4919	3.47	56	12.719	3.53304
SK-SSM24-2A	6.28	2	60	13.6275	3.7854	130	29.52625	8.2017
SK-SSM24-3A	9.42	3	90	20.4413	5.6781	235	53.37438	14.8262
SK-SSM24-4A	12.56	4	125	28.3906	7.8863	310	70.40875	19.5579
SK-SSM30-2A	9.81	2	100	22.7125	6.309	245	55.64563	15.4571
SK-SSM30-3A	14.71	3	150	34.0688	9.4635	365	82.90063	23.0279
SK-SSM30-4A	19.62	4	200	45.425	12.618	490	111.2913	30.9141
SK-SSM36-2A	14.13	2	140	31.7975	8.8326	345	78.35813	21.7661
SK-SSM36-3A	21.95	3	147	33.3874	9.2742	545	123.7831	34.3841
SK-SSM36-4A	28.26	4	285	64.7306	17.981	700	158.9875	44.163
SK-SSM48-2A	25.12	2	250	56.7813	15.773	625	141.9531	39.4313
SK-SSM48-3A	37.68	3	400	90.85	25.236	940	213.4975	59.3046
SK-SSM48-4A	50.24	4	500	113.563	31.545	1250	283.9063	78.8625
DIMS	INLET	OUTLET	BW	WEIGHT	#20 SAND	3/4 GRAVEL	PSI	BAR
SK-SSM18-2A	3"	3"	27	320	400lbs / 4ft3	150lbs / 1.5ft3	125	8.618
SK-SSM18-3A	3"	3"	27	530	600lbs / 6ft3	225lbs / 2.5ft3	125	8.618
SK-SSM24-2A	4"	4"	47	440	800lbs / 8ft3	300lbs / 3ft3	125	8.618
SK-SSM24-3A	4"	4"	47	710	1200lbs / 12ft3	450lbs / 4.5ft3	125	8.618
SK-SSM24-4A	4"	4"	47	980	1600lbs / 16ft3	600lbs / 6ft3	125	8.618
SK-SSM30-2A	4"	4"	74	570	1000lbs / 10ft3	600lbs / 6ft3	100	6.894
SK-SSM30-3A	4"	4"	74	905	1500lbs / 15ft3	900lbs / 9ft3	100	6.894
SK-SSM30-4A	6"	6"	74	114	2000lbs / 20ft3	1200lbs / 12ft3	100	6.894
SK-SSM36-2A	6"	6"	107	820	1600lbs / 16ft3	800lbs / 8ft3	100	6.894
SK-SSM36-3A	6"	6"	107	1380	2400lbs / 24ft3	1200lbs / 12ft3	100	6.894
SK-SSM36-4A	6"	6"	107	1640	3200lbs / 32ft3	1600lbs / 16ft3	100	6.894
SK-SSM48-2A	6"	6"	188	1200	2600lbs / 26ft3	1000lbs / 10ft3	80	5.515
SK-SSM48-3A	6"	6"	188	1720	3900lbs / 39ft3	1500lbs / 15ft3	80	5.515
SK-SSM48-4A	8"	8"	188	2560	5200lbs / 52ft3	2000lbs / 20ft3	80	5.515




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