



SK-SM-SERIES

CARBON STEEL SKID-MOUNTED
SAND MEDIA FILTERS



SK-SM-Series Carbon Steel Media Filter (skid-mounted)

The SK-SM units are enhanced versions of the Everfilt® SM-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), two-part epoxy gloss finish, with an exterior UV-resistant additive to prolong life and appearance of your system. Interior of tank comes with a brushed on industrial grade 233H epoxy coating for superior protection and years of continued use.

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

Effortlessly manage filtration with Everfilt's intuitive automatic backwash controls. Solid-state electronics ensure reliable operation, triggering backwash based on pressure differentials or time intervals.

User-Friendly: Easy-to-use knobs, clear labeling, and display lights.

Durable: Water-resistant housing for lasting performance.

Optional LCD Readout: Monitors cycles, backwashes, and pressure events.

Available in 4, 8, and 12-station models with expansion options for cost-effective upgrades.

BACKWASH MODE



Backwash mode in a sand media filter is when water flows backward through the filter to clean out dirt and debris trapped in the sand. This keeps the filter working efficiently.

Backwash Operation

Everfilt's backwash valve, manual or automatic, halts raw water and opens the backwash port. Pressurized water forces debris out of the sand bed, while our unique underdrain ensures even water distribution for faster, more efficient cleaning. Reversing the valve restores normal filtration.

FILTRATION MODE



Filtration mode in a sand media filter is when water flows through the sand to trap dirt and particles, leaving the filtered water clean. This is the normal operation of the filter.

Automatic Valve Actuation

The backwash valve is actuated using hydraulic power from the water source. An electrical signal activates a solenoid valve, which directs hydraulic pressure to push a piston, opening the valve. De-energizing the solenoid releases pressure, allowing the spring to close the valve.

INTERIOR VIEW



The interior of a sand media filter is typically coated with an industrial grade epoxy for carbon steel systems, ensuring safety and durability. Stainless steel systems do not need any interior coating.

WHY CHOOSE AN EVERFILT SAND MEDIA FILTER?

A sand media filter is a simple and effective solution for purifying water. Most commonly used to remove organic and inorganic debris in both Agricultural and Industrial applications. Minimal moving parts and manufactured in the USA means less preventive maintenance for your sand media filter, fewer down times and reduced operational cost.



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-SM SERIES (INLINE)	FT2	TANKS	FLOW RATES					
			MINIMUM			MAXIMUM		
			GPM	M3/HR.	LPS	GPM	M3/HR.	LPS
SK-SM18-2A	3.5	2	35	7.94938	2.2082	85	19.30563	5.36265
SK-SM18-3A	5.25	3	55	12.4919	3.47	56	12.719	3.53304
SK-SM24-2A	6.28	2	60	13.6275	3.7854	130	29.52625	8.2017
SK-SM24-3A	9.42	3	90	20.4413	5.6781	235	53.37438	14.8262
SK-SM24-4A	12.56	4	125	28.3906	7.8863	310	70.40875	19.5579
SK-SM30-2A	9.81	2	100	22.7125	6.309	245	55.64563	15.4571
SK-SM30-3A	14.71	3	150	34.0688	9.4635	365	82.90063	23.0279
SK-SM30-4A	19.62	4	200	45.425	12.618	490	111.2913	30.9141
SK-SM36-2A	14.13	2	140	31.7975	8.8326	345	78.35813	21.7661
SK-SM36-3A	21.95	3	147	33.3874	9.2742	545	123.7831	34.3841
SK-SM36-4A	28.26	4	285	64.7306	17.981	700	158.9875	44.163
SK-SM48-2A	25.12	2	250	56.7813	15.773	625	141.9531	39.4313
SK-SM48-3A	37.68	3	400	90.85	25.236	940	213.4975	59.3046
SK-SM48-4A	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-SM18-2A	3"	3"	27	420	400lbs / 4ft3	150lbs / 1.5ft3	125	8.618
SK-SM18-3A	3"	3"	27	630	600lbs / 6ft3	225lbs / 2.5ft3	125	8.618
SK-SM24-2A	4"	4"	47	540	800lbs / 8ft3	300lbs / 3ft3	125	8.618
SK-SM24-3A	4"	4"	47	810	1200lbs / 12ft3	450lbs / 4.5ft3	125	8.618
SK-SM24-4A	4"	4"	47	1080	1600lbs / 16ft3	600lbs / 6ft3	125	8.618
SK-SM30-2A	4"	4"	74	670	1000lbs / 10ft3	600lbs / 6ft3	100	6.894
SK-SM30-3A	4"	4"	74	1005	1500lbs / 15ft3	900lbs / 9ft3	100	6.894
SK-SM30-4A	6"	6"	74	1340	2000lbs / 20ft3	1200lbs / 12ft3	100	6.894
SK-SM36-2A	6"	6"	107	920	1600lbs / 16ft3	800lbs / 8ft3	100	6.894
SK-SM36-3A	6"	6"	107	138	2400lbs / 24ft3	1200lbs / 12ft3	100	6.894
SK-SM36-4A	6"	6"	107	184	3200lbs / 32ft3	1600lbs / 16ft3	100	6.894
SK-SM48-2A	6"	6"	188	1300	2600lbs / 26ft3	1000lbs / 10ft3	80	5.515
SK-SM48-3A	6"	6"	188	1920	3900lbs / 39ft3	1500lbs / 15ft3	80	5.515
SK-SM48-4A	8"	8"	188	2760	5200lbs / 52ft3	2000lbs / 20ft3	80	5.515



**Buy What You Need,
Pay Over Time**

- Instant credit decisions
- Net 30 terms
- Payment options up to 12 months



**Protect Productivity and Profits
with an Everfilt® Filtration System.**

Everfilt® manufactures complete systems and individual components to meet your demands. Providing solutions that deliver cost-effective alternatives, along with custom replacement options!

**We Offer Solutions
For Many Industries.**