



WATER FILTRATION SYSTEMS AND EQUIPMENT

***STAK-SERIES***

STAINLESS STEEL SKID-MOUNTED  
'STACKED' SCREEN FILTERS

[WWW.EVERFILT.COM](http://WWW.EVERFILT.COM)



## STAK-Series Stainless Steel Screen Filter (skid-mounted)

### HIGH-VOLUME, AUTOMATIC FILTRATION in a COMPACT PACKAGE.

Everfilt® engineers have developed a unique "stacked" design, that delivers exceptionally powerful filtration and performance. Suitable for both organic and inorganic solids removal. Solids removal is accomplished by an all-welded stainless steel single unit, made of 304SS stainless steel or 316SS wedge wire.

#### Self-Cleaning

- Fast Backwash (15 Sec/Filter)
- Low Pressure Requirement (25 PSI)
- Low Maintenance (one moving part)
- MAX 1,800 GPM @ 200 Mesh
- Organic & Inorganic Solids Removal
- Small Footprint
- Factory Assembled – Skid-Mounted

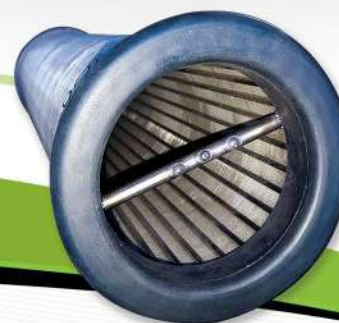
#### Options

- Solar Power
- Stainless Steel or Galvanized
- Stainless Steel Backwash Valves
- Pneumatic Backwash Valves
- Flanged Connections
- NEMA 4X, XP, etc. Enclosures



Solids removal is accomplished by an all-welded single unit made of 304SS or 316SS wedge wire. With a collapse strength of 125 PSI / burst strength of 400 PSI. Filter cartridges can be easily replaced for different mesh sizes.

These are just a few of the outstanding features of the STAK-Series. Everfilt® has incorporated a high-strength profile wedge wire screen, stainless steel, solid-state electronics and proven valve technology into an automated filter system that is easy to operate and maintain.



STAK-Series interior 304SS wedge wire screen cartridge



## Stainless Steel Housing

The housing for the filter cartridge has easy access closure and cartridge aligner for quick removal and inspection of the filter cartridges. The housing is ribbed for collapse strength and fitted for grooved couplings at inlet and outlet.

## Fast Reverse-Flow Backwash

Backwash is accomplished through the use of a quick acting hydraulically operated valve on each filter housing. The clean water from adjacent filters is used to wash one filter at a time. Thus, the unit continues to discharge filtered water even when it is in backwash.

Each filter is cleaned within 15 seconds under normal operating conditions. **(a minimum discharge line pressure of 25 PSI is required)**. Full reverse flow eliminates blind spots common to through-flush systems.

## Heavy-Duty Backwash Valve

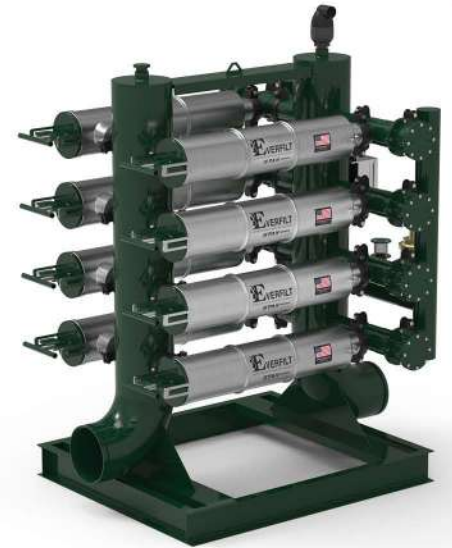
Everfilt's backwash valve body is a three post, two-way valve made of high strength ductile iron and coated with 3M-134 industrial grade epoxy – a material known for its resistance to corrosion. All wetted surfaces are stainless steel or epoxy coated. The hydraulic design prevents valve slamming and eliminates possible damage to the valve manifolding.

Valve design involves few moving parts to assure reliable performance and ease of periodic maintenance. The valve is operated hydraulically by means of a solenoid valve which, when energized, allows pressurized water from the system to enter the actuator chamber of the valve. The hydraulic pressure pushes against a piston, opening the backwash valve. De-energizing the solenoid valve allows the hydraulic pressure to bleed off of the piston, closing the valve.

## Automatic Backwash Controls

Everfilt designs and manufactures its own automatic backwash controls. User friendly control knobs, panel labeling and display lights make for easy use. The LCD display 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.

Made of solid state electronic circuits, the automatic controls help assure effective system operation by initiating needed backwash in an efficient manner. The control is field-adjustable and can be set to trigger backwash either when a specified pressure differential or time interval is reached. The control is housed in a weather resistant enclosure.



94B-12L  
Control Panel

## Control Construction

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

### Controls

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



### Specifications

Display — LCD

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 Stations — 4, 8, 12

Field Valve Station\* — One at 1.0 Amp  
(this station is active through entire sequence operation.)



### Options

220-440 VAC

12 VDC Solar Panel



**Protect productivity and profits with an Everfilt® filtration system.**

## Standard Specifications

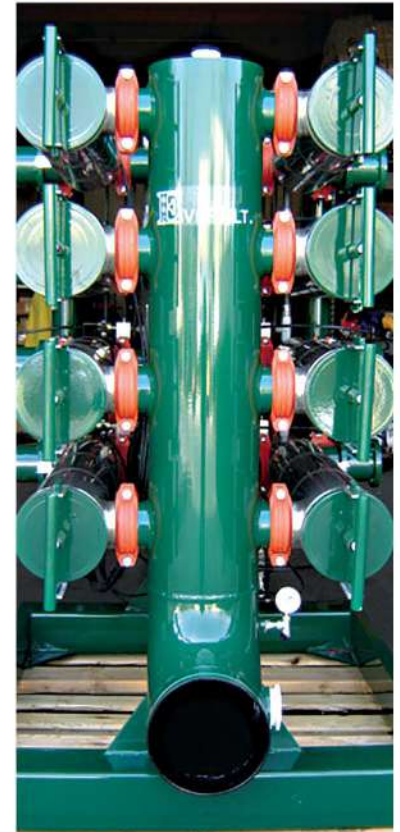
Filter screen cartridges shall be a single piece unit of all welded 304 stainless wire construction with 25 PSI collapse strength and 400 PSI burst strength. Filter housings shall be constructed of all welded and ribbed 304 stainless and rated for 125 PSI operating pressure.

Each filter housing is to be equipped with an individual 3 port, two-way backwash valve which is constructed of ductile iron and is hydraulically operated. Wetted surfaces of the backwash valve shall be coated with 3M-134 industrial grade epoxy.

Backwashing is to be accomplished by full reverse flow of water through the screen cartridge. Normal backwash cycle time shall be 18 seconds per filter. A minimum 25 PSI is required for inlet and discharge lines. Filters are to be manifolded together with carbon steel manifolds whose interior surfaces have been sand blasted and epoxy coated. Manifolds shall have grooved connections for Victaulic couplings.

Automatic backwash shall be initiated by pressure differential or time interval through a solid state controller with status lights and LCD backwash record display. Controls shall be housed in a weather resistant enclosure. The controller shall operate from 120 VAC or 12 VDC power source.

The complete system shall be factory assembled, tested. And skid mounted with an appropriate lifting eye. It shall include filter units, inlet, outlet and backwash manifolds, continuous acting air/vacuum relief valve, pressure gauges, automated backwash valves with associated hardware, and backwash control. The system shall be wired and ready for hook up to power and supply lines.



### Solenoid Valve

3 Port, 2 Way Manual Override Solenoid Valve

Voltage — 12 VDC/24 AC

Operating Wattage — 10 Watts

Manual Override — On-Override

Manual Override — Off-Normal Operation

#### WHY CHOOSE AN EVERFILT SCREEN FILTER SYSTEM?

A screen filter system provides exceptional filtration, capable of processing high flow rates and requires minimal space or footprint to do so. Interchangeable filter screens allow for quick and easy customizable filtration requirements. From easy to use manual flushing or fully automatic flushing, single unit or multi-manifolded units, big or small screen filter systems are a solid choice for industrial and agricultural professionals.



MADE IN THE U.S.A.

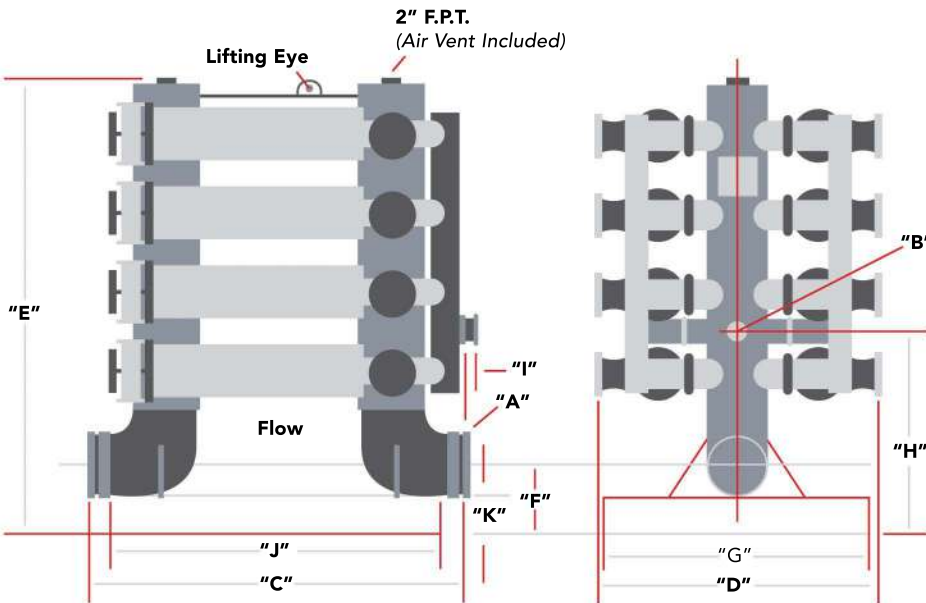
Protect **Productivity and Profits** with an Everfilt® Filtration System.

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.

STAK-SERIES (INLINE)	CANISTERS	MATERIAL	FLOW RATES					
			100 MESH			200 MESH		
			GPM	M3/HR.	LPS	GPM	M3/HR.	LPS
STK63-30-4A-SS	4	SS	1200	272.55	75.7	600	136.275	37.854
STK84-36-4A-SS	4	SS	1440	327.06	90.8	720	163.53	45.425
STK63-30-6A-SS	6	SS	1800	408.83	114	900	204.413	56.781
STK84-36-6A-SS	6	SS	2160	490.59	136	1080	245.295	68.137
STK63-30-8A-SS	8	SS	2400	545.1	151	1200	272.55	75.708
STK84-36-8A-SS	8	SS	2880	654.12	182	1440	327.06	90.85
STK84-36-10A-SS	10	SS	3600	817.65	227	1800	408.825	113.56

DIMS	INLET	OUTLET	BW	WEIGHT	PSI MIN - MAX	BAR MIN - MX
STK63-30-4A-SS	6"	6"	3"	675	25 - 125	1.723686206 - 8.618431032
STK84-36-4A-SS	6"	6"	4"	875	25 - 125	1.723686206 - 8.618431032
STK63-30-6A-SS	6"	6"	3"	875	25 - 125	1.723686206 - 8.618431032
STK84-36-6A-SS	8"	8"	4"	1175	25 - 125	1.723686206 - 8.618431032
STK63-30-8A-SS	8"	8"	3"	1125	25 - 125	1.723686206 - 8.618431032
STK84-36-8A-SS	10"	10"	4"	1625	25 - 125	1.723686206 - 8.618431032
STK84-36-10A-SS	12"	12"	4"	2032	25 - 125	1.723686206 - 8.618431032



"A" INL/OUT | "B" B.W.

Dimensions (inches)									WT. (lbs.)
"C"	"D"	"E"	"F"	"G"	"H"	"I"	"J"	"K"	
50.3	42.6	36.3	8.3	42.0	25.8	6.5	42.3	5.0	675
56.5	47.1	38.3	8.3	44.8	26.8	3.4	48.5	5.0	875
50.3	42.6	47.3	8.3	42.0	25.8	6.5	42.3	5.0	875
60.5	49.1	54.3	9.3	46.8	29.9	5.4	52.5	5.0	1175
54.3	44.6	60.3	9.3	44.0	28.8	4.5	46.3	5.0	1125
64.5	51.2	71.3	11.4	48.8	33.9	3.4	56.5	6.0	1625
64.5	51.2	91.13	12.4	48.8	33.9	3.4	56.5	6.0	2032

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