



Akiki Engineering Filtration Series Commercial Sand Filters are constructed based on efficient and economical method for reducing suspended method down to 40 microns in size on various feed water sources. Vessels are composed of fiberglass for maximum corrosion resistance to adapt to specific system requirements.

Akiki Engineering Filtration Series Commercial Sand Filter systems include one fiberglass vessel with one top-mount control valve and reverse osmosis cut-off switch. Duplex systems consist of two vessels and two control valves. Filter media is provided with each system. Duplex systems may be configured to backwash sequentially based on differential pressure.

Applications:

- Drinking Water
- Ice-Making
- Car Wash Water Reclamation
- Rinse Waters
- Biomedical Applications
- Laboratory Applications
- Photography
- Pharmaceutical Production
- Water used in chemical processes
- Cosmetics
- Restaurants
- Metal Plating Applications
- Wastewater Treatment
- Filtration process for industries
- Environmental monitoring of groundwater quality
- Waste-to-Energy incinerators

Features:

- Inlet/Outlet service connections of 1", 1-1/2", 2", or 3"
- Automatic built-in by-pass
- Self-adjusting backwash controller
- Non-clogging underdrain system

Filter model	Pipe Size (in.)	Flow Rate @ 10 gpm/sq.ft. (gpm-min.)	Backwash Rate (gpm)	Media Volume	Overall Dimensions DxH (in.)	Weight Shipping (lb.)
9x40	1	5	8	1	9x50	160
12x52	1.5	8	12	2	12x62	320
14x65	1.5	10	16	3	14x75	460
16x65	1.5	14	21	4	16x75	670
21x62	1.5	24	36	6	21x73	1110
24x72	1.5	31	47	9	24x82	1500
30x72	3	49	70	15	30x82	1570
36x72	3	71	100	21	36x82	2130
42x72	3	96	115	26	42x82	3900
48x72	3	125	150	35	48x82	5150

Operating

Specifications:

- Pressure: 30-110 psig
- Water Temperature: 100°F max
- Electric Rating: 220 VAC, 1Ø, 50Hz, 10 watts

Options:

- Skid - mounted system are preplumbed and wired and include isolation valves on the inlet and outlet
- 7 day time clock
- Differential Pressure
- Separate source backwash
- ASME code stamped vessel



Akiki Engineering Filtration Series Commercial Carbon Filters constructed based on efficient and economical method for chlorine and organics removal from various feedwater sources. Fiberglass vessels provide maximum corrosion resistance and have a five year warranty. Motor driven brass or Noryl control valves are easily programmed to adapt to specific system requirements.

Akiki Engineering Filtration Series Commercial Carbon Filter systems include one fiberglass vessel with one top-mount control valve and reverse osmosis cut-off switch. Duplex systems consist of two vessels and two control valves. Premium carbon with gravel support beds are provided with each system. Duplex systems may be configured to backwash sequentially based on differential pressure.

Applications:

- Drinking Water
- Ice-Making
- Car Wash Water Reclamation
- Rinse Waters
- Biomedical Applications
- Laboratory Applications
- Photography
- Pharmaceutical Production
- Water used in chemical processes
- Cosmetics
- Restaurants
- Metal Plating Applications
- Wastewater Treatment
- Filtration process for industries
- Environmental monitoring of groundwater quality
- Waste-to-Energy incinerators

Features:

- Inlet/Outlet service connections of 1", 1-1/2", 2", or 3"
- Automatic built-in by-pass
- Self-adjusting backwash controller
- Non-clogging underdrain system

Filter model	Pipe Size (in.)	Flow Rate @10 gpm/sq.ft. (gpm-max.)	Flow Rate @ 5 gpm/sq.ft. (gpm-max.)	Backwash Rate (gpm)	Media Volume	Overall Dimensions DxH (in.)	Weight Shipping (lb.)
10x40	1	5	3	5	1	10x50	100
12x52	1.5	8	4	8	2	12x60	140
14x65	1.5	10	5	10	3	14x73	210
16x65	1.5	14	7	14	4	16x73	310
21x62	1.5	24	12	24	5	21x71	490
24x72	2	31	16	30	8	24x82	540
30x72	3	49	24	50	15.0	30x82	1570
36x72	2	70	35	70	20	36x82	2130
36x72	3	70	35	70	20	36x82	2130
42x72	3	110	45	95	30	42x82	2955
48x72	3	131	52	120	35	48x82	3645

Operating**Specifications:**

- Pressure: 30-110 psig
- Water Temperature: 100°F max
- Electric Rating: 220 VAC, 1Ø, 50Hz, 10 watts

Options:

- Skid - mounted system are preplumbed and wired and include isolation valves on the inlet and outlet
- 7 day time clock
- Differential Pressure
- Separate source backwash
- ASME code stamped vessel



Akiki Engineering Filtration Series Sand Filters constructed based on a cost-efficient and effective method for reducing suspended matter down to 40 microns in size on various feed water sources. Akiki Engineering Filtration Series sand units are composed of carbon steel vessels with a front-mounted control unit for ease of service. Backwash of the Akiki Engineering Filtration Series is controlled by a brass pilot stager. The stager directs hydraulic or pneumatic pressure to open or close the diaphragm valves. The stager is controlled by an adjustable backwash cycle timer. The diaphragm valve nest piping assembly contains a self-adjusting backwash flow control. Backwash is initiated on either time or differential pressure.

Akiki Engineering Filtration Series Sand Filters are engineered for 100 psig working pressure and tested at 150 psig. The carbon steel vessels are equipped with a top access port for media loading and 4"x6" hand hole(s) in the side shell. All vessels are painted for protection against corrosion.

Akiki Engineering Filtration Series Sand Filters include on carbon steel vessel complete with piping, valves, controller, one media layer and gravel support bed. Duplex systems include two carbon steel vessels with piping, valves, controller, media and gravel support bed.

Applications:

- Drinking Water
- Ice-Making
- Car Wash Water Reclamation
- Rinse Waters
- Biomedical Applications
- Laboratory Applications
- Photography
- Pharmaceutical Production
- Water used in chemical processes
- Cosmetics
- Restaurants
- Metal Plating Applications
- Wastewater Treatment
- Filtration process for industries
- Environmental monitoring of groundwater quality
- Waste-to-Energy incinerators

Filter model SF	Filter Area (sq.ft.)	Media Volume (cf.)	Pipe Size (in.)	Standard Service Ratings Flow (gpm)	Standard Service Ratings DP (psi)	Backwash Flow (gpm)	Backwash Volume (gal)
20x48	2.18	5	1-1/2	21	4.2	30	660
24x48	3.14	8	1-1/2	30	5.3	45	990
30x48	4.79	12	1-1/2	48	9.1	75	1650
30x48	4.79	12	2	48	7.3	75	1650
36x60	6.92	18	2	69	5.8	105	2310
36x60	6.92	18	2-1/2	69	4.3	105	2310
42x60	9.45	24	2-1/2	94	4.8	150	3300
42x60	9.45	24	3	94	4.1	150	3300
48x60	12.4	32	3	122	4.4	180	3960
48x60	12.4	32	4	122	3.9	180	3960
54x60	15.7	40	3	155	4.2	240	5280
54x60	15.7	40	4	155	3.6	240	5280
60x60	19.3	50	3	193	6.5	300	6600
60x60	19.3	50	4	193	5.9	300	6600
66x60	23.4	60	4	237	5.5	350	7700
66x60	23.4	60	6	237	4.9	350	7700
72x60	27.9	70	4	227	5.7	420	9240
72x60	27.9	70	6	227	5.1	420	9240
78x60	33.16	85	6	330	4	500	11000
84x60	38.46	95	6	385	4	580	12760
90x60	44.15	110	6	440	4	665	14630
96x60	50.24	125	6	500	4	750	16500
102x60	56.71	145	6	570	4	850	18700
108x60	63.58	160	8	640	4	950	20900
120x60	78.5	200	8	800	4	1175	25850

Operating

Specifications:

- Pressure: 30-110 psig
- Water Temperature: 100°F max
- Electric Rating: 220 VAC, 1Ø, 50Hz, 5 Amps

Options:

- Skid - mounted system are preplumbed and wired and include isolation valves on the inlet and outlet
- Carbon steel or PVC pipe
- 7-day time clock or differential pressure back wash initiation
- 220 V controller
- Separate source backwash with raw water fast rinse
- ASME tank



Akiki Engineering Filtration Series Carbon Filters constructed based on cost-efficient and effective method for reducing suspended matter down to 40 microns in size on various feed water sources. Akiki Engineering Filtration Series sand units are composed of carbon steel vessels with a front-mounted control unit for ease of service. Backwash of the Akiki Engineering Filtration Series is controlled by a brass pilot stager. The stager directs hydraulic or pneumatic pressure to open or close the diaphragm valves. The stager is controlled by an adjustable backwash cycle timer. The diaphragm valve nest piping assembly contains a self-adjusting backwash flow control. Backwash is initiated on either time or differential pressure.

Akiki Engineering Filtration Series Carbon Filters are engineered for 100 psig working pressure and tested at 150 psig. The carbon steel vessels are equipped with a top access port for media loading and 4"x6" hand hole(s) in the side shell. All vessels are painted for protection against corrosion.

Akiki Engineering Filtration Series Carbon Filters include one carbon steel vessel complete with piping, valves, controller, one media layer and gravel support bed. Duplex systems include two carbon steel vessels with piping, valves, controller, media and gravel support bed.

Applications:

- Drinking Water
- Ice-Making
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Filter model SF	Filter Area (sq.ft.)	Media Volume (cf.)	Pipe Size (in.)	Standard Service Ratings Flow (gpm)	Standard Service Ratings DP (psi)	Backwash Flow (gpm)	Backwash Volume (gal)
20x48	2.18	5	1	20	8	20	440
24x48	3.14	8	1	32	11	30	660
30x48	4.79	12	1-1/2	48	8	45	990
36x60	6.92	18	1-1/2	70	10	65	1430
42x60	9.45	24	2	90	11	85	2040
48x60	12.4	32	2	120	13	115	2530
54x60	15.7	40	3	160	9	140	3080
60x60	19.3	50	3	190	8	175	3850
66x60	23.4	60	3	235	9	210	4620
72x60	27.9	70	3	280	11	250	5500
78x60	33.16	85	4	330	5	330	6600
84x60	38.46	95	4	385	5	385	8470
90x60	44.15	110	4	440	5	440	9680
96x60	50.24	125	6	500	4	500	11000
102x60	56.71	145	6	570	4	570	12540
108x60	63.58	160	6	640	4	640	14080
120x60	78.5	200	6	800	4	800	17600

Operating Specifications:

- Pressure: 30-110 psig
- Water Temperature: 100°F max
- Electric Rating: 220 VAC, 1Ø, 50Hz, 5 Amps

Options:

- Skid - mounted system are preplumbed and wired and include isolation valves on the inlet and outlet
- Carbon steel or PVC pipe
- 7-day time clock or differential pressure back wash initiation
- 220 V controller
- Separate source backwash with raw water fast rinse
- ASME tank