

Akiki Engineering Est.

 $Water \ \mathcal{E} \ Steam \ Experts$



1.1. Filtration Catalogue

Contents

Commercial Sand Filter	3
Commercial Carbon Filter	5
Industrial Sand Filter	7
Industrial Carbon Filter	g

Commercial Sand Filter



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

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:

sequentially based on differential pressure.

- 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

• Pressure: 30-110 psig

 \bullet Water Temperature: 100F max

• Electric Rating: 220 VAC, 1, 50Hz, 10 watts

- 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

Commercial Carbon Filter



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

• Pressure: 30-110 psig

 \bullet Water Temperature: 100F max

• Electric Rating: 220 VAC, 1, 50Hz, 10 watts

- 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

Industrial Sand Filter



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

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.

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

- 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

Industrial Carbon Filter



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

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.

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

- 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