

• **Temperature Control Units**

Water & Oil
30° - 500°F

• **Portable Chillers**

Air & Water-Cooled
20° - 70°F

• **Central Chillers**

Air & Water-Cooled
Packages & Modules
20° - 70°F

• **Pump Tank Stations**

Chilled or Tower Water
200 - 3600 gallons

• **Cooling Tower Cells**

45 - 540 tons

• **Filters**

• **Heat Exchangers**

• **Blown Film Coolers**

WARRANTY

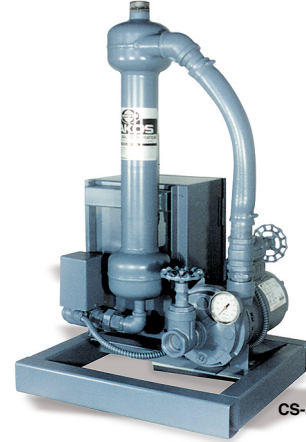
• **1 Year:**

Covering parts and labor

CS SERIES

- **Light & Heavy Solid Filtration**
- **Filter to 74 microns**
- **No Backflushing Required**
- **Minimum Pressure Loss**

Centrifugal Separators are suited for small applications, side-stream installations and individual equipment protection for removing sand, grit and other fine solids from source or process water/liquid systems. Centrifugal Separators removing 98% of such particles 200 mesh (74 microns) and larger. With heavier solids (metal chips, lead, etc) expect even better results.



CS-50 shown

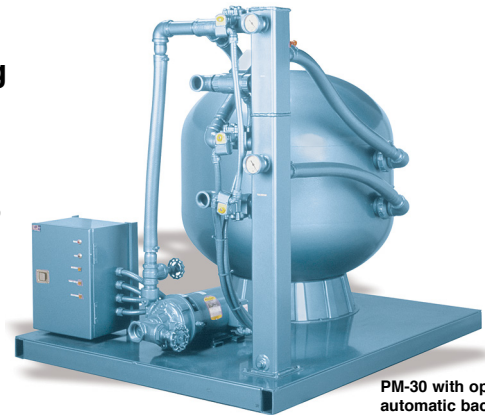
PM SERIES

- **High Quality Fiberglass Construction**
- **High Flow**
- **Manual or Automatic Backflush**
- **Structural Steel Base with Decking**

Permanent media sand and gravel filters remove free floating solids from plant circulating liquids, preventing blockage in manifolds and orifices located in process equipment. Three sizes are offered to allow tailoring to specific process requirements.

APPLICATION RANGE:

Cooling Capacity	Recommended Filter
20-99 tons	PM-24
100-199 tons	PM-30
200-300 tons	PM-36

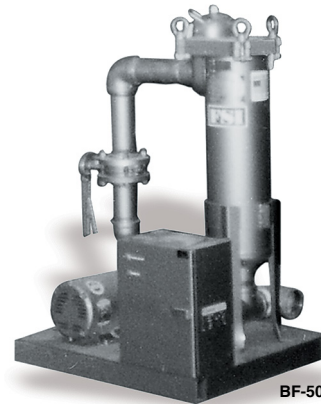


PM-30 with optional automatic backwash and pump

BF SERIES

- **Carbon Steel Construction**
- **Rated to 150 PSI**
- **Filter to 5 - 100 Microns**
- **Optional Filter Pump & Structural Steel Base with Decking**

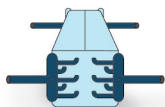
Bag Filter vessels are constructed of heavy duty carbon steel (stainless steel is optional) with a 304 stainless steel perforated basket. The vessel is rated at 150 PSI.



BF-50 shown

APPLICATIONS

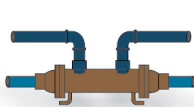
Filters are effective on a variety of process applications.



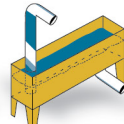
Molds & Dies



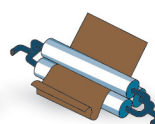
Nozzles, Barrels & Tools



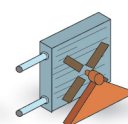
Heat Exchangers



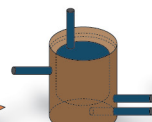
Troughs & Tanks



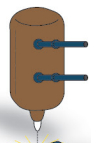
Rolls



Radiators & Air Coils



Jacketed Vessels & Mixers



Lasers

CS SERIES SPECIFICATIONS

Additional Features:

- **NO MOVING PARTS TO WEAR OUT:** eliminates mechanical failures and troublesome replacement parts (applies to separator only).
- **NO SCREENS, CARTRIDGES, CONES OR FILTER ELEMENTS TO CLEAN OR REPLACE:** saves labor, reduces downtime and eliminates the ordering and stocking of spare parts.
- **NO BACKFLUSHING:** minimizes water/liquid loss.
- **MINIMIZE DOWNTIME:** all units are designed to operate continuously with no routine shutdowns for cleaning or maintenance. Purging of separated solids may be performed during full operation with no loss of performance.
- **LOW PRESSURE LOSS:** consistent with the system's flow rate, the centrifugal separators require no more than 5-15 psi for effective solids removal without troublesome pressure fluctuations.

		CS-50PV	CS-50
Flow	GPM	50	50
Pump	HP	3	n/a
Inlet / Outlet Size	Inches	1 1/2	1/2
Weight	with Water	100lbs	70lbs
	without Water	120lbs	90lbs
Electrical	230/3/60	9.6	n/a
	460/3/60	4.8	n/a
Dimensions (inches)	Height	40"	40"
	Width	25"	25"
	Depth	20"	20"

PM SERIES SPECIFICATIONS

Additional Features:

FILTER CONSTRUCTION: Seamless fiberglass shell, multiport switching valve assembly, Radial water distributor, Sand and gravel media, Lateral collecting system

PRESSURE GAUGES: Filter pressure gauge, Supply pressure gauge (with automatic backwash option), Return pressure gauge (with automatic backwash option)

AUTOMATIC BACKWASH: (optional) Timer controlled - housed in NEMA rated cabinet, Supply and return manifolds, Solenoid and motorized switching valves

CIRCULATING PUMP: (optional) Centrifugal, Motor driven, Suction valve, Discharge valve, Motor contactor with overload relay housed in NEMA rated cabinet

WARRANTY: 1 year parts and labor

		PM-24	PM-30	PM-36
Maximum Capacity	GPM	40	70	100
Application Range	Tons	20 - 99	100 - 199	200 - 300
Media Required (LPS)	Gravel	100	175	250
	Sand	160	400	500
Process Connections	Inches	1	1 1/4	1 1/2
Optional Pump HP	HP	1 1/2	2	3
Dimensions (Inches - without pump)	Height	42	46	52
	Width	32	32	48
	Depth	40	40	48
Weight (LPS - without pump)	Weight	400	700	900
Dimensions (Inches - with pump)	Height	42	46	52
	Width	32	48	48
	Depth	40	48	48
Weight (LPS - without pump)	Weight	425	730	935

BF SERIES SPECIFICATIONS

ADVANTAGE bag filter vessels and systems include a 100 micron polypropylene felt bag. Polypropylene felt filter bags are available in 5, 10, 25, 50 and 100 micron sizes. Other micron ratings are available in different material types.

The **BF-25**, **BF-50** and **BF-120** can be supplied with a dedicated filter pump. When the pump is supplied, the system is skid mounted and includes a pump motor starter and system valves.

	BF-25	BF-50	BF-120	BF-300	BF-405	BF-600
Maximum Rated Flow (GPM)	25	50	120	300	405	600
Process Connection (Inches)	1 1/2	2	3	4	4	6
Connection Type	NPT	NPT	NPT	FLA	FLA	FLA
Bag Size	4	4	2	2	2	2
Number of Bags	1	1	1	2	3	4

Note: FLA = Flanged Connection.



Phone: 317-887-0729 Web: www.AdvantageEngineering.com

TEMPERATURE CONTROLLERS • PORTABLE CHILLERS • CENTRAL CHILLERS • PUMP TANK STATIONS • TOWER SYSTEMS • FILTERS
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