

Brief Description

Application

Colortronic sand and gravel filters and centrifugal separation systems are offered for use on cooling tower or chilled water systems requiring large capacity, heavy-duty suspended solids removal.

Filters are shipped complete with:

- Tank
- Valve manifold
- Gauges
- Initial charge of sand and gravel

The system switches valves automatically. Two backwash control mechanisms are available. Backwash cycles can be based on a time cycle (SG-250A) or pressure differential across the unit SG-250P.

Filters must be installed in a bypass line so that plugging of the filter or temporary shutdown required for backwashing does not hinder process operation. The Centri-Separator System (CSS-150) is designed to handle up to 150-ton (453,600 Kcal/hr) tower systems. The CSS-150 includes centrifugal separator, 1/3 hp (0.25 kW) pump, 1/2" PVC electrically activated ball valve, and a 115 volt single-phase 60 hertz control station. The CSS-150 can be mounted on a pump tank or piped in a bypass line. The system performs all operations, including separator purging, automatically. The CSS-400 has been designed for larger tower water system applications. BF Series bag filters can be used in full flow or bypass configurations. A bypass configuration is recommended for chilled water systems.

Centri-Separator Systems

Note: Not to be used for closed-loop or chilled water systems; back flushing eliminates chemicals added to the system.

Model Number	Description	Dimensions in. (cm)			Shipping weight lbs. Kg	Pressure differential backwash
		L in. cm	W in. cm	H in. cm		
CSS-150	150-ton (453,600 Kcal/hr) tower maximum	29 74	19.5 50	26 66	130 60	Not available ①
	300-ton (907,200 Kcal/hr) chiller maximum	29 74	19.5 50	26 66	130 60	
CSS-400	400-ton (1,209,600 Kcal/hr) tower maximum	26 66	20 51	41 104	150 69	
	800-ton (2,419,200 Kcal/hr) chiller maximum	26 66	20 51	41 104	150 69	

Sand and Gravel Automatic Backwash Filters

- SG-250A sand and gravel automatic backwash filters are available in 250-ton (756,000 Kcal/hr) tower (Model SG-250A) and 500-ton (1,512,000 Kcal/hr) chiller (Model SG250P) maximum capacity. Please specify when ordering.
- Model SG-250A is equipped with automatic valves operated from a time device so that backwash is accomplished periodically on an automatic basis.



Model Number	Dimensions in in. (cm)					Shipping Weight		Pressure differential backwash ①
	L in. cm	W in. cm	H in. cm	lbs.	Kg			
SG-250A	40 101	48 122	39 99	1,800	818	-available-		

① Model SG-250P. Automatic valves are operated from pressure switch. Pressure switch monitors the pressure drop in the filter media and activates backwash cycle at preset pressure drop.

BF Series Bag Filters

✓ denotes availability

Note: Can be used for full flow or bypass.

Model ①	Max. flow		No. filter bags		Pipe size		Differential pressure alarm Ⓜ	Additional filter bags
	gpm	lpm	required	supplied	inches	mm ②		
BF-30	30	113	1	3	1.5" NPT	38 mm	✓	✓
BF-65	65	246	1	3	2.5" NPT	63 mm	✓	✓
BF-90	90	340	1	3	2.5" NTP	63 mm	✓	✓
BF-200	200	757	1	3	3" (flanged)	76 mm (flanged)	✓	✓
BF-300	300	1,135	2	6	4" (flanged)	102 mm (flanged)	✓	✓
BF-450	450	1,703	3	12	5" (flanged)	127 mm (flanged)	✓	✓

① Single cell filters bypass, pressure gauges and 25 micron filter bags. Multi-cell filters include pressure gauges and 25 micron filter bags.

② Size is approximate; customer is responsible for converting to metric.

③ Operates on 115/1/60 supply, with a 10 ft. (3 m) power cord. Includes 20 ft. (6 m) of poly tubing, differential pressure switch, audible and visual alarms, and silence button for audible alarm.

WF Series Full Flow Stainless Steel Filters

Filter housing, filter elements, and flanges are constructed from **304 stainless steel**.

- Maximum working pressure is **100 psi** (689.5kPa/6.895 bars); 150 psi (1,034.25kPa/10.343 bars) is available.
- **Maximum operating temperature is 110° F** (43° C). Consult factory for higher temperatures.

Additional stainless steel strainer basket available at extra cost. ①

Model ②	Maximum flow		Connection size/flange	
	gpm	lpm	inches	mm ③
WF-100	100	378	2" flange	51 mm flange
WF-200	200	757	3" flange	76 mm flange
WF-350	350	1,325	4" flange	102 mm flange
WF-750	750	2,839	6" flange	152 mm flange
WF-1300	1,300	4,920	8" flange	203 mm flange
WF-2000	2,000	7,570	10" flange	254 mm flange

① 80 mesh screen size is standard for stainless steel strainer basket. 40 mesh can be used for tower water. **Specify mesh size.**

② Valving and bypass are **not** included with WF Series steel filters.

③ **Size is approximate; customer is responsible for converting to metric.**

WF Series Option Availability

ΔP pressure alarm and automatic dump valve with timer.



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