

# Water Treatment Systems

SF Series • BF Series • TD Series • PS Series • TWC Series

## Filtration & Water Treatment Equipment

### Benefits:

#### SF Series Strainer Filters

- **High-Efficiency Filtration Range:** Available with screens as fine as 200 mesh (74 micron) and capable of filtering flow rates from 100 to 2,000 gpm (379 to 7,571 lpm) with less than one psi (0.07 bar) pressure drop.
- **Large Conical Screen:** Substantially more screen surface area versus traditional Y-strainers or basket strainers. Available with a variety of screen mesh options.
- **Unique Debris Management System:** Water flows upward through the strainer, while heavier debris and particulate moves downward, away from the conical screen, into the large debris reservoir at the base of the strainer and out through the debris flushport.

#### BF Series Bag Filters

- **High-Capacity Filtration:** Suitable for full flow or side stream filtration of up to 300 gpm (1,136 lpm) with less than one psi (0.07 bar) pressure drop.
- **Durable, User-Friendly Design:** One-piece assemblies with a removable lid and stainless steel filter supports for easy maintenance.

#### TD Series Disc Filters

- **High-Performance Filtration:** Provides 150 mesh (89 micron) full flow filtration up to 200 gpm (757 lpm).
- **Cost-Effective, Flexible Solution:** No filters to replace and can be located at any angle or position making it adaptable to a wide range of processes. It creates a high velocity centrifugal action that spirals heavier particles away from the disc cartridge, down to the filter base.



Protecting the equipment in your system is essential for maintaining peak performance and extending operational life. Thermal Care provides a robust first line of defense with an array of advanced water treatment and filtration systems, including strainer filters, bag filters, turbo disc filters, sand and gravel filters, and water treatment systems. Each filtration option is designed

to have minimal impact on system operation while providing reliable protection for the processing equipment supported by the cooling system.

From design to installation, we offer effective, efficient equipment solutions to remove solids, inhibit scale, and prevent biological growth, safeguarding your process cooling system.

### Additional Benefits:

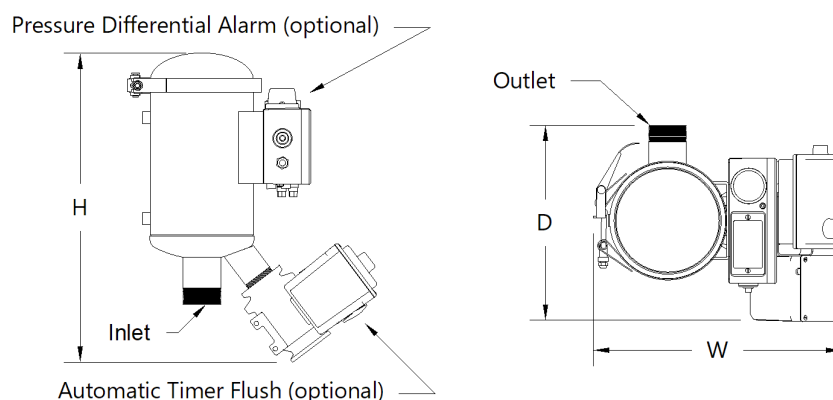
#### PS Series Sand and Gravel Filter System

- **Side-Stream Filtration of Reservoirs:** Designed for side stream removal of suspended solids, 5 micron (2,500 mesh) and larger, with flow rates from 45 to 100 gpm (170 to 379 lpm).
- **Skid-Mounted Filters for Easy Installation:** Completely assembled and includes a pump, NEMA-3R electrical control panel, automatic backwash control system, and pump suction pre-filter to prevent large debris from clogging the filter media.

#### TWC Series Water Treatment System

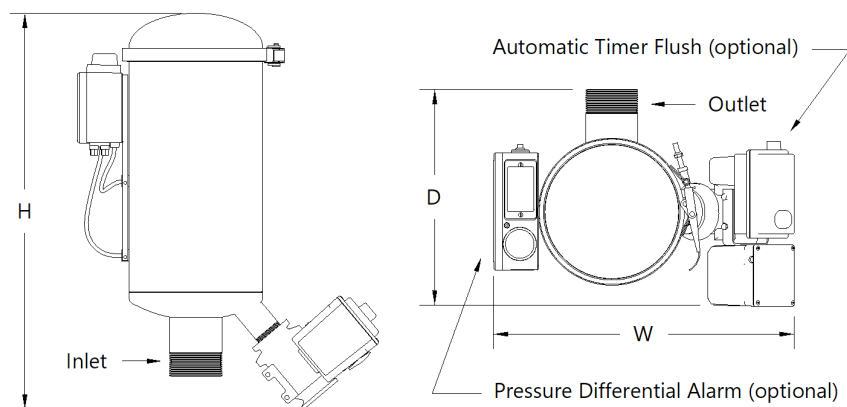
- **Effective Water Treatment Solutions:** Simple solutions for controlling scale, suspended solids, and microbiological growth in cooling system water located on an easy-to-operate single, space saving panel.
- **Single Point Scale Control:** Tower water conductivity is continuously monitored in direct proportion to the concentration of dissolved solids. Once the conductivity levels exceed the predetermined limit, the bleed-off valve opens to purge dirty, scale-producing water from the system.

#### SF Series Strainer Filters



#### TECHNICAL DATA

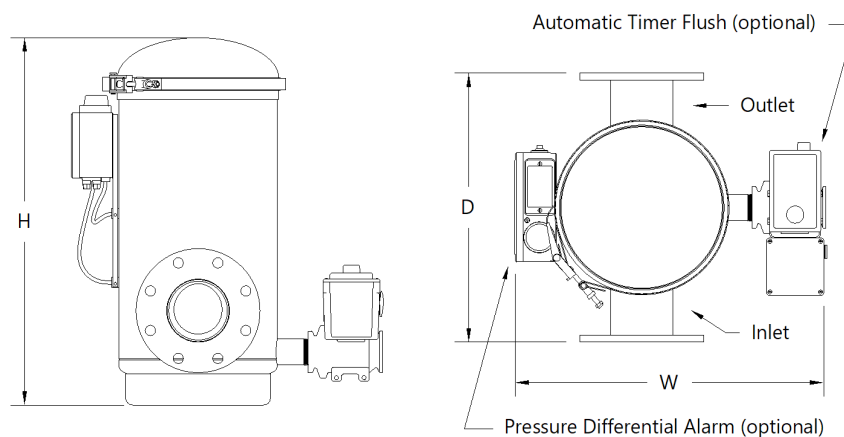
Model	Dimensions H x W x D inch (mm)	Connection Size (in)		Flush Port (in)	Holding Capacity gal (liter)	Dry Weight lbs (kg)	Operating Weight lbs (kg)
		Inlet	Outlet				
SF100	21½ x 13 x 16½ (546 x 330 x 419)	2	2	1½	2 (8)	16 (7)	33 (15)



#### TECHNICAL DATA

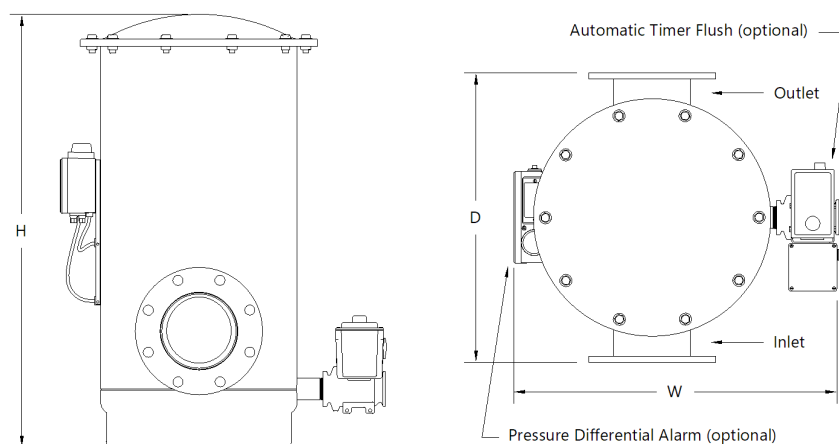
Model	Dimensions H x W x D inch (mm)	Connection Size (in)		Flush Port (in)	Holding Capacity gal (liter)	Dry Weight lbs (kg)	Operating Weight lbs (kg)
		Inlet	Outlet				
SF200	29 x 21¾ x 14½ (737 x 553 x 368)	3	3	1½	5 (19)	33 (15)	75 (34)

## SF Series Strainer Filters (continued)



### TECHNICAL DATA

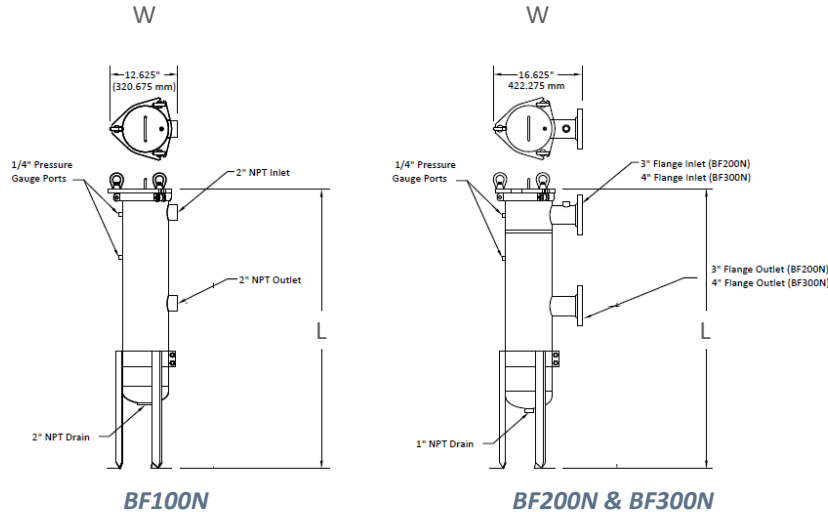
Model	Dimensions H x W x D inch (mm)	Connection Size (in)		Flush Port (in)	Holding Capacity gal (liter)	Dry Weight lbs (kg)	Operating Weight lbs (kg)
		Inlet	Outlet				
SF350	28¾ x 23 x 19¼ (730 x 584 x 489)	4	4	1½	11 (42)	65 (30)	160 (73)



### TECHNICAL DATA

Model	Dimensions H x W x D inch (mm)	Connection Size (in)		Flush Port (in)	Holding Capacity gal (liter)	Dry Weight lbs (kg)	Operating Weight lbs (kg)
		Inlet	Outlet				
SF750	38 x 29 x 24½ (965 x 737 x 622)	6	6	1½	35 (133)	129 (59)	420 (191)
SF1300	48¾ x 34¾ x 31½ (1,226 x 870 x 800)	8	8	1½	83 (314)	219 (99)	910 (413)
SF2000	59½ x 41¼ x 39¾ (1,511 x 1,048 x 1,010)	10	10	1½	172 (651)	431 (196)	1,865 (846)

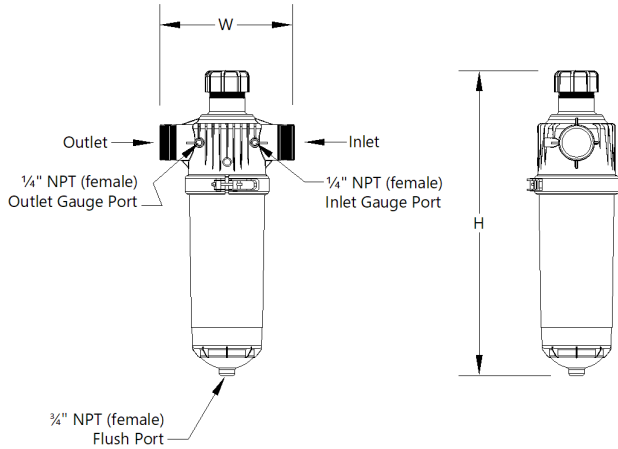
BF Series Bag Filters



TECHNICAL DATA

Model	Standard Filter Mesh (Micron)	Shipping Weight lbs (kg)
BF100N	60 (250)	140 (64)
BF200N	60 (250)	150 (68)
BF300N	60 (250)	160 (73)

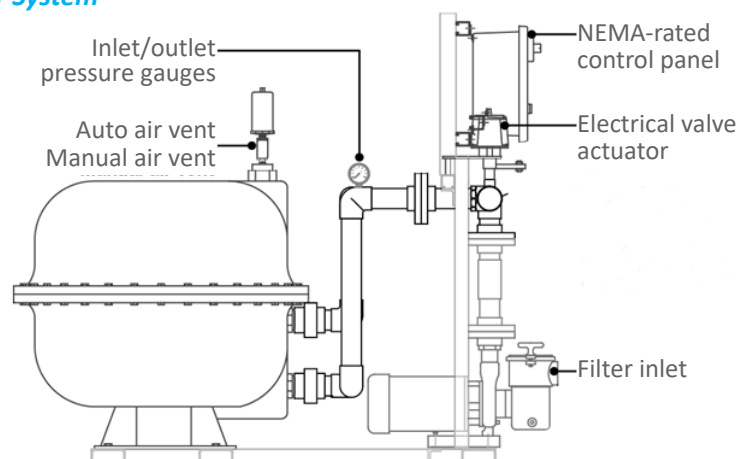
TD Series Disc Filters



TECHNICAL DATA

Model	Filter Mesh (Micron)	Dimensions H x W inch (mm)	Connection Size — Female NPT (in)			Weight lbs (kg)
			Inlet	Outlet	Flush Port	
TD100	80 (177)	23 3/8 x 12 1/8 (587 x 308)	2	2	3/4	17 (8)
TD200	80 (177)	30 x 13 1/4 (762 x 337)	3	3	3/4	20 (9)

## PS Series Sand and Gravel Filter System

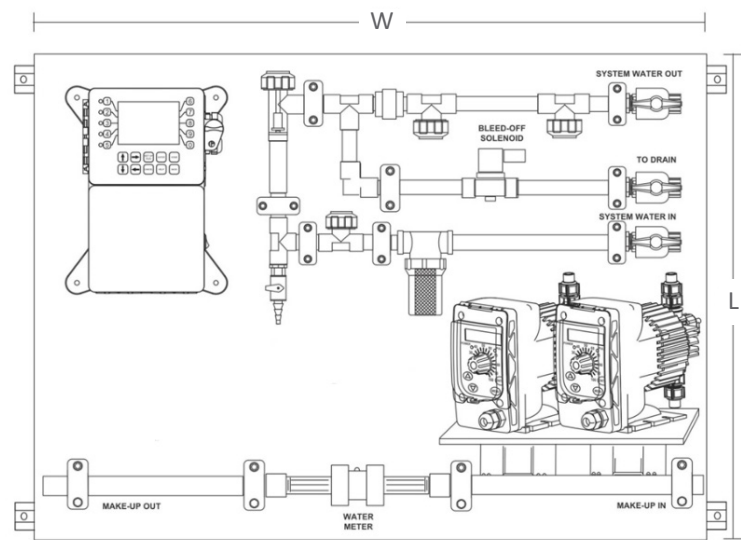


### TECHNICAL DATA

Model	Cooling Tower System Size Tons (kW)	Dimensions L x W x H inch (mm)	Connections (in)			Pump Performance			Shipping Weight lbs (kg)	Operating Weight lbs (kg)
			Inlet	Outlet	Drain	hp (kW)	Flow gpm (lpm)	Pressure psi (bar)		
PS20F	20 to 400 (70 to 1,407)	57 x 29 x 53 (1,448 x 737 x 1,346)	2.5	2	2	1 (0.7)	43 (163)	50 (3.4)	560 (254)	615 (279)
PS24F	400 to 600 (1,407 to 2,110)	58 x 29 x 53 (1,473 x 737 x 1,346)	2.5	2	2	2 (1.5)	63 (239)	50 (3.4)	620 (281)	770 (349)
PS30F	600 to 1,000 (2,110 to 3,517)	66 x 30 x 53 (1,676 x 762 x 1,346)	3	2	2	3 (2.2)	98 (371)	50 (3.4)	855 (388)	1,165 (528)
PS36F	1,000 to 1,400 (3,517 to 4,924)	76 x 39 x 61 (1,930 x 991 x 1,549)	3	3	3	3 (2.2)	142 (538)	50 (3.4)	1,500 (680)	1,895 (860)
PS42F	1,400 to 1,900 (4,924 to 6,682)	88 x 42 x 61 (2,235 x 1,067 x 1,549)	4	3	3	5 (3.7)	192 (727)	50 (3.4)	2,275 (1,032)	3,005 (1,363)
PS48F	1,900 to 2,500 (6,682 to 8,792)	93 x 48 x 61 (2,362 x 1,219 x 1,549)	4	3	3	5 (3.7)	252 (954)	50 (3.4)	2,655 (1,204)	4,355 (1,975)

### ELECTRICAL DATA

Model	Rated Voltage FLA @ 208/3/60	Rated Voltage FLA @ 230/3/60	Rated Voltage FLA @ 460/3/60	Rated Voltage FLA @ 575/3/60
PS20F	N/A	N/A	2.0	N/A
PS24F	N/A	N/A	2.7	N/A
PS30F	N/A	N/A	3.7	N/A
PS36F	N/A	N/A	3.7	N/A
PS42F	N/A	N/A	5.9	N/A
PS48F	N/A	N/A	8.5	N/A



TECHNICAL DATA

Water Connection Sizes — Female NPT (in)					Dimensions L x W x H inch (mm)	Shipping Weight lbs (kg)	Nameplate Amps (120/1/60)
System In	System Out	Make-Up In	Make-Up Out	Drain			
3/4	3/4	1	1	3/4	39 x 30 (991 x 762)	70 (32)	2

Thermal Care is ISO 9001 Certified  
Manufacturer reserves the right to change specification  
or design without notification or obligation.

