

CTF Series

Cooling Water Filtration

General Information

The CTF-Series automatic self-cleaning filter skid provides solutions for full stream, side stream, and basin cleaning for cooling tower separation of solids from water. The removal of all solids to the micron rating selected can be achieved in a matter of hours not days. When used in conjunction with a turbulator eductor nozzle system, a side stream system can provide an efficient method for keeping tower basins clean without interrupting the facilities processes.

Reduce Legionella habitat and food source by filtering organics, algae, silts, and iron oxide that often settle in a cooling tower basin. Significantly reduce maintenance costs, energy costs, chemical usage, and most important, reduce the consumption of what is quickly becoming our most valuable resource: water. Backed by Xylem's decades of filtration experience, the CTF-Series filter skid provides performance and reliability at a cost effective price.

Variations in flow, pressure, installation may change the design of the filter skid. Multiple pump and micron options are available. The filter throughput is generally sized for 5-10% of cooling tower recirculation rate. The table below is based on 5% side stream and a 25 micron filter element.

CT Recirculation Rate(GPM)	Tower Tonnage	Skid Flow Rate (GPM)	Model	Pumps(HP)
2000	500	100	CTF200	5 / 7.5 / 10
2800	700	140	CTF250	5 / 7.5 / 10 / 15
5400	1000	270	CTF500	10 / 15 / 20 / 25
10400	2300	520	CTF1000	15 / 20 / 25 / 30
15600	3500	780	CTF1500	25 / 30 / 50 / 60



Filter Specifications

Construction

- Filter Body: 316L SS
- Screens: 316L SS sintered
- Flanges: AWWA Class D
- Seals: Nitrile, viton, silicone

Operating information

- Filtration: 10 to 1500 micron
- Flow: 60 to 5,812 gpm per filter
- Max Pressure: 150 psi (Higher pressure available)
- Min Pressure: 30 psi
- Max Temperature: 80° C (176° F)

Flush Cycle

- 7 psi dp
- 12 to 15 seconds