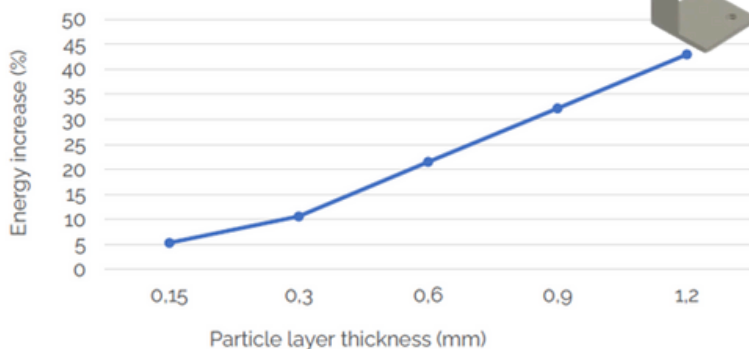


WAYMAKER

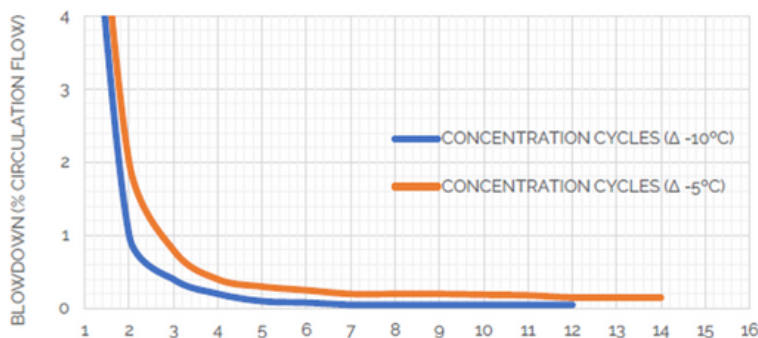
WAYMAKER TECHNOLOGIES
CORPORATION

SYSTEM FEATURES:

- Continuous clean water output; filters 50–130 μm with auto backwash
- Low water/energy use; self-cleans at <2 bar pressure
- Automated controller with minimal power draw
- Dual filtration: centrifugal + media (surface/in-depth)
- Modular, plug-and-play, corrosion-resistant thermoplastics
- No media replacement required
- Heavy Duty
- Uses just 10 L per 6–8 sec flush—up to 99% less water than MMF



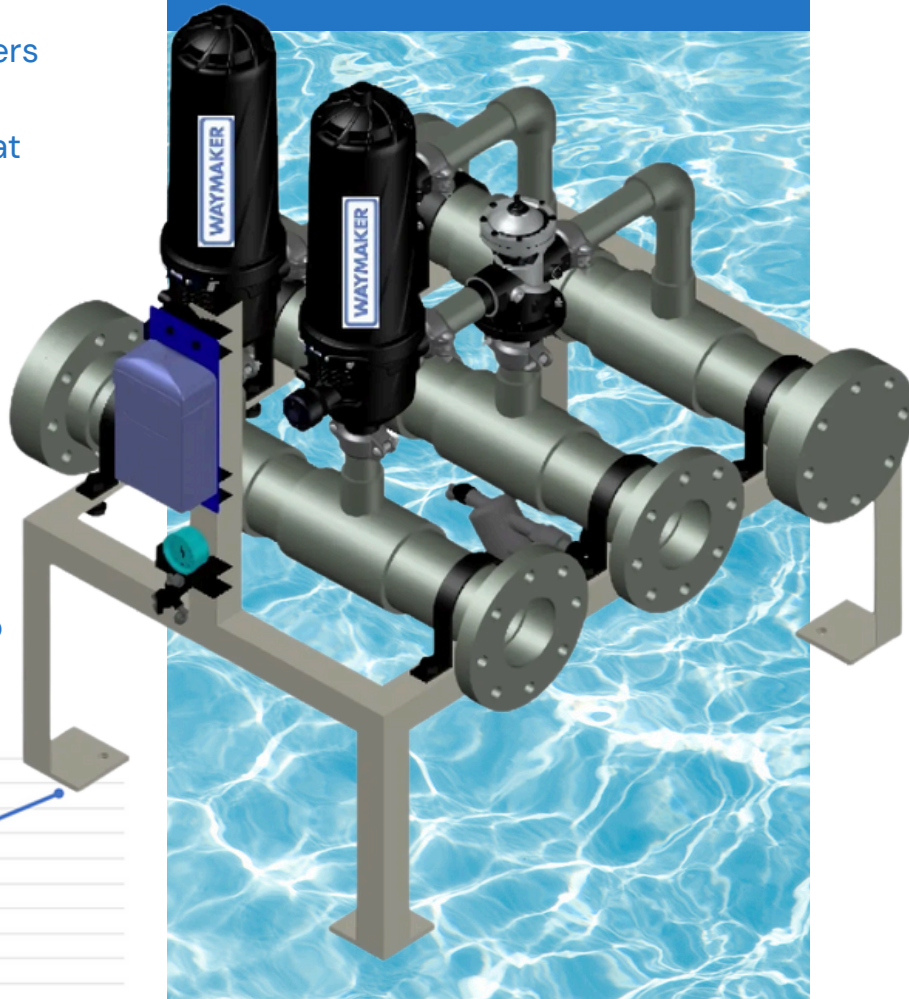
The accumulation of particles in the system increases the thermal gradient between the cold and hot sources, increasing the energy consumption of the pumping and ventilation equipment.



Higher water quality increases the concentration cycles, reducing the number of purges needed to maintain the salts concentration in the system and avoid precipitates

WayClean™

SIDE STREAM FILTER SYSTEM



OVERVIEW:

Waymaker's side-stream filters are compact mechanical filtration packages for the removal of grit, airborne dirt and scale from cooling tower water to prevent system fouling by capturing and removing them before it accumulates in the basin and spread to other parts of the system and reducing system design efficiencies.

Areas of Application:
Cooling Towers, Data Centres, Heat Exchanger, Evaporative Condensers

FILTER EQUIPMENT SIZING & DIMENSION

Note: Power is only required if a pump installation is included.

Equipment Model	2x2inch ATD	2x3inch ATD	3x3inch ATD	4x3inch ATD	5x3inch ATD
Water Flow Rate	20-30 m ³ /hr	30-45 m ³ /hr	40-60 m ³ /hr	50-80 m ³ /hr	60-100 m ³ /hr
Space Required/ Dimension	1.0 m ²	1.4 m ²	1.8 m ²	2.0 m ²	2.5 m ²
Power Required, 3phase, 480V 60Hz	4 kW	11 kW	15 kW	22 kW	22 kW

Other factors, conditions will affect the system performance, water analysis also affects the micron sizing and selection to be further advice.

FILTER OPERATION PRESSURE

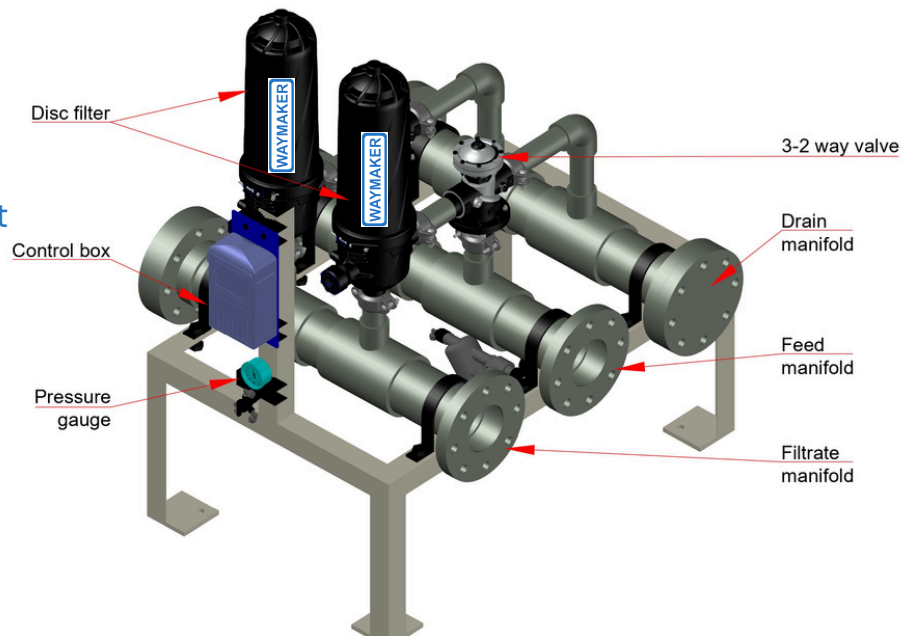
Maximum working pressure	10 Bar (145 psi)
Minimum backwash pressure	2.0 Bar (29 psi)
Minimum backwash flow rate	10 m ³ /hr (36 GPM)
Maximum working temperature	60°C (140°F)
Maximum feed water Total Suspended Solids	100 ppm
pH Range	3-12
Back-Flush Water Volume	12-22 (L) per single filter

MATERIAL OF CONSTRUCTION

Filter Housing & Lid	Polyamide, Polypropylene
Disc Elements	Polyamide, Polypropylene
Backwash Valves	Polyamide, Polypropylene
Manifolds	HDPE
Seals	NBR
Control Tubing	PE or PA

SYSTEM BENEFITS

- Reduce energy consumption
- Higher Concentration Cycles
- Reduced Pathogen Development
- Reduced Operational Costs
- Higher Productivity
- Prolongs Lifespan of Equipment
- Reduces Chemical Usage

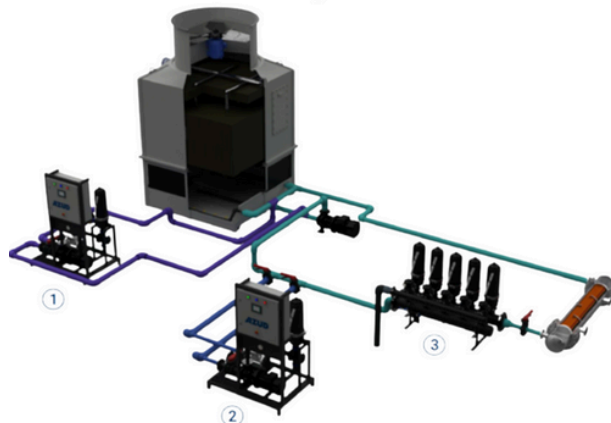


DISCLAIMER NOTE: THE INFORMATION AND TECHNOLOGY SOLUTION OFFERED IS SUBJECT TO CHANGE/UPDATE WITHOUT NOTICE. IT IS UP TO THE USER/OWNER TO CONDUCT THEIR OWN DUE DILIGENCE TO CHECK AND DECIDE AND SELECT THE SUITABLE TECHNOLOGY AVAILABLE TO SUIT THEIR NEEDS AND REQUIREMENTS, WAYMAKER TECHNOLOGIES CORPORATION ACCEPTS NO LIABILITY/DAMAGES/LOSSES IF ANY INCURRED FOR THE EQUIPMENT INSTALLED OR PROVIDED.

SYSTEM CONFIGURATION

CONFIGURATIONS

Side Stream Filtration System



CONFIGURATION 1. BASIN SWEEPING

- Utilizes 20–50 μm filtration to clean the cooling tower basin, with a nozzle system that keeps settled particles suspended.
- Ideal for setups where access to the cooling circuit is limited or where avoiding hydraulic work is preferred.

CONFIGURATION 2. SIDE STREAM FILTRATION

- Uses a 50–130 μm filtration range to capture incoming contaminants from the system.
- Uses just 10 L per 6–8 sec flush—up to 99% less water than MMF

CONFIGURATION 3. FULL FLOW FILTRATION

- Filters 100% of the system's circulating water.
- Employs 100–200 μm filtration to remove larger particles that could damage heat exchangers or other sensitive components.
- Best for high-capacity filtration needs that directly impact the cooling circuit operation.

TYPICAL INSTALLATIONS

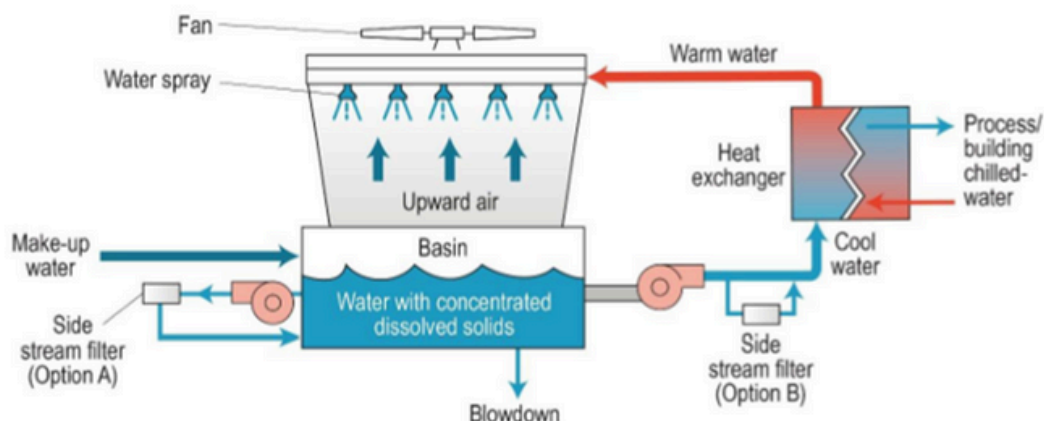


Figure 1. Cooling Tower with Two Possible Locations for Side Stream Filtration



Side stream filtration in the cooling tower of thermal power plant.

Automatic Self-Cleaning Filter 200 μm

Flowrate = 200 m³/h



River water filtration for refinery cooling towers.

Automatic Self-Cleaning Filter 50 μm AA

Flowrate = 160 m³/h