



www.kurita.com.sg

Frills-free Filter is Save Save Save!



Did you know filtering your system can save you money?

Biofouling & Scalings are just of the many troubles that will reduce your cooling water system's efficiency. Your Standard Plate Count (SPC) result might be good, but that does not simply imply that your system is running at its optimal.

Suspended solids accumulation in heat exchangers reduces heat exchange efficiency – wastage of energy, waste of money!

- Choking of strainers, damage to pumps, seals, piping, spraying nozzles, etc. - undesirable downtime and additional maintenance cost
- *Under-deposit corrosion* - particles settled act as a barrier between the metal surface and the corrosion control chemicals applied to the system
- Suspended contaminants in the cooling water *promote bacterial growths*. Uncontrolled growth of these organisms results in microbiological slime and biofilm- biomass as well as *health threats* from biological pathogens (Legionella and others)
- Unsightly Cooling Water pond

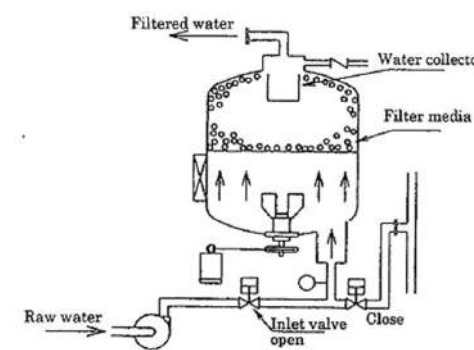


Remedy With Peace of Mind!

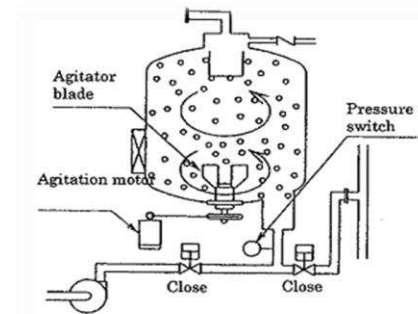
- SAND-FREE Filtration Media!**
- Does not need fresh water for backwash!**
- Less Pressure needed for filtration!**
- High Tech with Compact Design!**

How it Works?

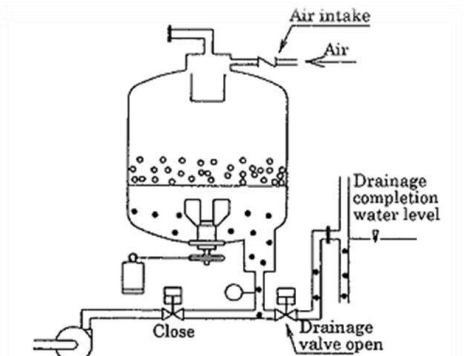
With Kurita's solution, you may see tangible savings from less energy and water used:



The raw water sucked up by the pump flows into the tank from the bottom, and is filtered by the filter media. The filtered water passes through the water collector and is sent to the filtered water tank.



After filtering for a certain time, or when the filter media becomes clogged, the pressure in the tank will reach the pressure switch's specified pressure. At this time, the pump stops and the system starts agitation to clean the filter media.

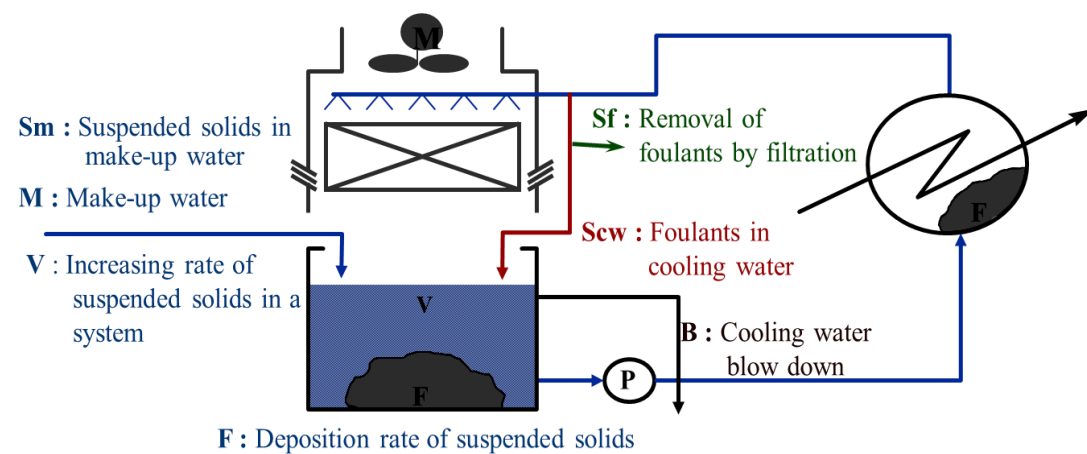


After the system remains in a static state for a certain time, the drainage valve opens to drain the sedimented SS to the drainage-complete water level. At the same time, air flows into the tank from the air intake.

UFI – Uchida Fouling Index

$$UFI (F) = (S_m \times M + V) - (S_{cw} \times B + S_f)$$

(g/hr)
(g/m³)
(m³/hr)
(g/hr)
(g/m³)
(m³/hr)
(g/hr)



UFI versus Corrosion Rate

