



Topic: Cooling Tower Treatment by Hafiz

980ils Products	Greenex R&S F1 and Greenex CSD
Applications	Flushing and Water Treatment
Customer /Location	Organon Pharma Indonesia, Pandaan
Lube/Fluids Existing	Kurita M-Towerclean S-570
Process/Machines	Cooling Tower for AHU in production lines
Tank Capacity	12000 liters
Customer Requirements	Less consumption of feeder water. Using only one type of chemical.

Issue/Problems :

- Using Kurita, they blowdown every day (conductivity up to 800 from 200 µS)
- Many scales on filler of cooling tower.

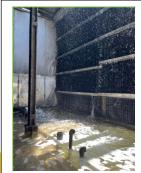


Solutions :

- Flushing CT using Greenex R&S F1 to clean up the scale from filler. Using 6 pails Greenex R&S F1 to circulate for 2 weeks (add 3 pails/ week) during flushing process. There is no need to shut down the production machine or in this case AHU line.
- After 2 weeks blow down everything, fill with fresh water and add Greenex CSD 6 liters/ week.
- 3) Using Greenex conductivity parameter standard at 3500 μS , it can maintain longer water cycle time.







Ca<mark>se Studies</mark>



Summary :

- Compare with using Kurita after we flushing using Greenex R&S F1, filler is very clean and customer very happy.
- Since November 2023, using Greenex CSD to CT treatment using less feeder water (before blowdown almost every day compare once a week now. And possible to reduce it more in the near future).
- Cost reduction more than 20%.
- Greenex CSD will be implemented at other CT chiller line from next month.
- Customer want to add optional microorganism water sample check.

