



# FILTRATION SYSTEMS & SUMP SWEEPER PIPING



## Reduce water treatment costs and improve your system hygiene and safety

**OPTIMAL FILTRATION RATE**  
Eliminates **97 %** of the total particle volume!



During cooling tower operation airborne impurities including **dust, sand, organic matters or other contaminants** are drawn into the cooling tower, and mainly settle in the cooling tower sump. This can promote bacterial growth which can lead to hygiene problems and under deposit corrosion.

To sustain optimal performance, it is essential to **maintain good system hygiene**. This can be achieved through proper maintenance, suitable water treatment and the use of **filtration** to assist in keeping the circulating water clean.

## A filtration system with BAC designed cooling tower sump sweeper piping ... **THE PERFECT COMBINATION**

### Save money

- ✓ Reduce chemical consumption by **25% typically**
- ✓ Increase the **service life** by reduced under deposit corrosion
- ✓ Reduce **water usage** by operating at higher cycles of concentration
- ✓ Increase **efficiency** by
  1. keeping the heat transfer surfaces/chiller tubes clean
  2. keeping the spray system / nozzles clean
 hence **reducing overall energy consumption** of the process/chiller\*
- ✓ Reduce **cleaning** intervention and **down time** for tower basin, spray nozzles and chiller tubes.

**BEST PRACTICE & RESPONSE**  
for regions subject to **sandstorm** pollution

\* biggest and most energy consuming component on your system

### Improve hygiene & safety

- ✓ Reduce development of bacterial growth and biofilm
- ✓ Keeps the surface **cleaner**

### Respect the environment

- ✓ Reduce **chemical** usage
- ✓ Less **CO<sub>2</sub>-emission** through improved system efficiency
- ✓ Reduce **water** consumption on dirty systems

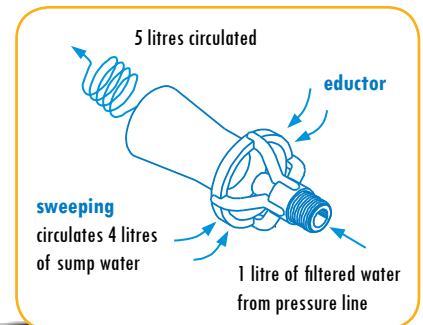
## ➤➤➤ BAC Filtration System

- ✓ Cyclonic separator
- ✓ Separation down to 40 micron which typically represents more than 97 % of the total particle volume
- ✓ Solids separation using centrifugal forces within the separator body
- ✓ Fully assembled skid package including
  - integral pump and piping
  - control cabinet with single point electrical connection
  - automatic purge



## ➤➤➤ BAC Sump Sweeper Piping

- ✓ Factory installed or site retrofit kits for every BAC unit model
- ✓ Designed to match each specific cooling tower for optimal basin sweeping effect
- ✓ Increased agitation generated by eductors located in the sweeper piping
- ✓ Reduced settling of solids and particulate matter



Combining filtration with sump sweeping prevents sediment from collecting in the cold water basin of the tower and reduces nutrients for biofilm growth. This perfect combination will increase **system efficiency**, **reduce operating costs** and **reduce the risk** of uncontrolled growth of legionella bacteria.

Combine BAC's filtration system with cooling tower sump sweeper piping and you will

Save money



Improve hygiene & safety



Respect the environment



**BEST PRACTICE**  
for cooling tower application



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