# Filtration Systems & Sump Sweeper Piping

# For Improved System Hygiene and Safety

Product Report

During cooling tower operation, airborne impurities including dust, sand, organic matters or other contaminants are drawn into the cooling tower. These concentrate in the circulating water and contaminate the system piping and heat exchanger, but mainly settle in the cooling tower sump. This may cause corrosion and promote bacteria growth which can lead to hygiene problems.

In order to sustain optimal performance, it is essential to maintain system hygiene. This can be achieved through proper maintenance and a suitable water treatment programme but also through the use of filtration to assist in keeping the circulating water clean.

BAC offers a complete range of filtration systems together with BAC designed cooling tower sump sweeper piping

BAC filtration systems are specifically designed to remove dirt, sand, silt precipitates and suspended solids from process fluids. They are recommended for use in combination with factory installed BAC sump sweeper piping which generates increased water circulation and agitation inside the cooling tower basin.

The effective combination of filtration with sump sweeping prevents sediment from collecting in the cold water basin of the tower and reduces nutriments for biofilm growth. This results in increased system efficiency, reduced operating costs and is an effective measure in reducing the risk of uncontrolled growth of legionella bacteria.

## BENEFITS

- Less maintenance and down time
- Reduced water and chemicals consumption
- Improved system hygiene

Keeping water clean is a key

element for safe operation

of cooling towers. This can be

achieved with well designed side stream

filtration.

- Clean system year round
- Specifically designed and sized for all BAC product ranges



# **BAC FILTRATION SYSTEMS**

#### **SEPARATOR PF 64 SERIES**



- Separation down to 40 micron
- Solids separation using centrifugal forces within the separator body

#### **MEDIA FILTER PF 30 SERIES**



- Filtration down to 5 micron
- Particulates removed by passing through a silica sand media

#### **Features**

- Media Filter or Separator
- Integral pump and piping
- Control cabinet with single point electrical connection
- Automatic backwash cycle
- Fully assembled skid package



## **SUMP SWEEPER PIPING**



#### **Features**

- Factory installed or site refrofit kits for every BAC unit model
- Increased agitation generated by eductors located in the sweeper piping
- Reduced settling of solids and particulate matter

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