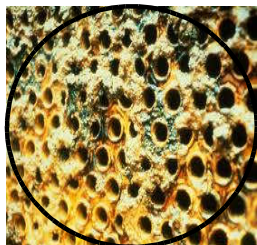
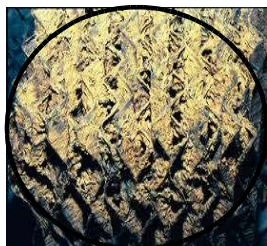


Hydrocyclone Separators



Adverse effects of suspended solids in cooling tower systems

- System fouling
- Increased system head pressure
- Increased unscheduled maintenance
- Decreased equipment life
- Increased chemical usage
- Increased system corrosion
- Increased biological growth (Legionella)
- Time and money spent changing filters regularly

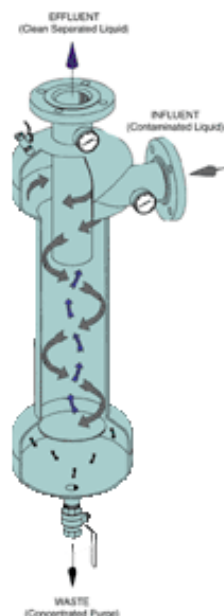


A CLEAN SYSTEM WILL HELP MAINTAIN DESIGN EFFICIENCY AND LOWER OPERATING COSTS



Puroflux's complete line of separator and separator packages lend themselves to a wide range of applications for removing suspended particulate. Our standard equipment can handle flow ranges from 5 to 20,000 gpm and operating pressures up to 150 psi. Constructed from carbon steel, these rugged units can be installed in the harshest of environments. Custom separator systems can be designed and fabricated to meet specific requirements.

The basis for solid-liquid separation is the centrifugal forces created in the body of the separator. As the pressurized process carrying fluid enters tangentially into the entrance chamber of the separator, it starts a downward helical flow. This downward spiral motion causes high centrifugal forces to act on the carrying fluid. The solids in suspension are pushed to the wall of the separator and then move downward to the accumulation chamber at the bottom of the separator. The clean process fluid then reverses its axial direction and moves upward in a helical flow exiting the separator.



Cooling Tower Applications

- Open sump/basin with sweeper jets and a side stream
- Slip stream within piping
- Full flow



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