

SURFSEP



The perfect solution to surface water treatment



The Copa SurfSep operates continuously at any flow providing non blinding screening to 3mm in two dimensions.

Utilising **Continuous Deflective Separation (CDS)** Technology

- ✓ Fully designed and packaged for easy installation
- ✓ New/retrofit installations
- ✓ Ideal for the protection of wetlands and other SUDS
- ✓ Suited to -
 - Highways run off
 - New developments
 - Industrial areas
 - Car Parks
 - Shopping Centres
- ✓ Pre-treatment of oil/water Separation
- ✓ Catchments from 0.5 to 500 ha

Copa 
LIMITED

SURFSEP

The removal of litter and debris from surface waters is an important step in achieving a clean and environmentally appropriate discharge quality. With ever increasing pressure to reduce the impact of urbanisation on our waterways it is important to apply proven technologies and products. SurfSep has a worldwide reputation in achieving the highest quality standards.

The CDS Technology

The principle that underpins the patented CDS technology is **indirect screening**. This is an improvement, over conventional or direct screening, because of the way that the fluid is presented to the screen.

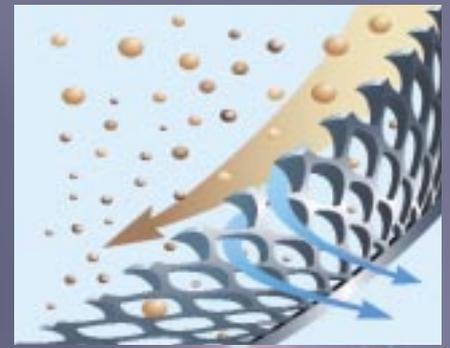
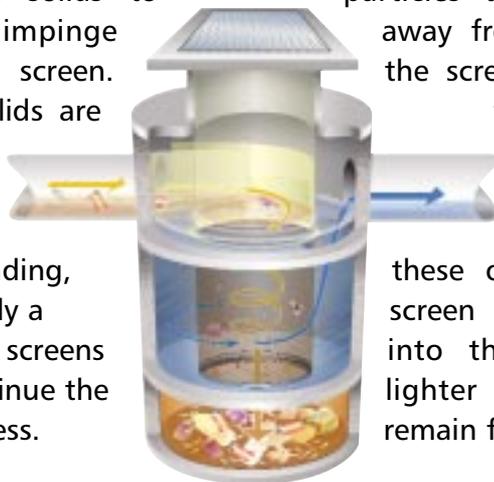
In most conventional screening operations, the solids to be separated impinge directly on the screen. Whilst these solids are separated out from the flow, this soon causes blinding, and consequently a reduction in the screens capacity to continue the separation process.

The patented CDS technology is **not** a direct separation system - fluids are not introduced directly onto the screen face.

Rather, the fluid flow is introduced tangentially to the screen and coupled with the screen design, means that the incoming solids cannot see the screen apertures.

The raised lips of the mesh apertures cause the solid particles to be deflected away from the face of the screen. Once inside the separator, the solid particles are carried past these openings in the screen and are settled into the sump or, if lighter than water, remain floating.

The accumulated debris can then be periodically removed by standard methods.



Indirect screening technology

Flow tangential to screen retains solids without blinding

- ✓ Non-mechanical self-cleaning screen
- ✓ Captures and retains all material greater than 3mm in two dimensions
- ✓ Optional screening to 1mm in two dimensions
- ✓ Low pressure drop (Headloss)
- ✓ Low visual impact
- ✓ Applicable for all surface water pollutants

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A **Copa** PRODUCT

STORM