

## CopaSac<sup>®</sup> Screen

Sac screening system, screening down to 3mm with no moving parts

### Key features & benefits

- Flexible design suits most sewage treatment applications
- Easily accessible sacs for screenings disposal
- Nose boxes manufactured from durable Glass Reinforced Plastic or Stainless Steel

### How we create value

- Efficient distribution of effluent to the filter bed
- Simple, low cost operation
- Easy installation/retrofit
- Reduces works maintenance



# CopaSac® Screen

The CopaSac® sac screening system provides screening down to 3mm with no moving parts using disposable sacs. The CopaSac modular design can be made to fit into most sewage treatment applications, be it retrofit into an existing works or as part of a new scheme.

## Applications

The primary application of the CopaSac design is to screen settled sewage in a dosing siphon or distribution chamber, improving the integrity of the works by protecting filter sparge arm nozzles from blockage. Proven to dramatically reduce maintenance costs on such applications, the low cost, highly efficient CopaSac screen has become a “backstop” for a number of other applications.

Efficient at capturing and retaining solids, the CopaSac process is a simple, low cost solution perfect for screening stormwater overflows, preventing unsightly pollutants from being discharged into surface waters.

## Typical Applications

- Filter arm protection on trickling filters
- Emergency/storm overflow screen
- Screening of final effluent

CopaSac screens are highly flexible and have been used for a variety of other applications, including:

- Screening river water intakes for nuclear power stations
- Screening sea water intakes for nuclear submarines undergoing refits
- Screening waste from an elephant enclosure
- Screening waste from a yogurt processing plant
- Screening waste from a vegetable processing plant



## How it Works

The CopaSac® screen is installed directly into the flow path of the fluid being screened. Solids are retained in the sac, therefore preventing downstream problems such as clogging of trickling filters, or pollution of surface waters following a storm event.

The CopaSac screen has been proven to reduce works visit frequency and provide better distribution of effluent to the filter bed.

The CopaSac nose boxes are fitted with lifting handles to facilitate easy removal. When installed below ground level or beneath mesh flooring, Ovivo can supply its unique lifting handle attachment to prevent personal strain or injury.



## Features

The CopaSac nose boxes can be manufactured in Glass Reinforced Plastic (GRP) or Stainless Steel. Sacks can be supplied in a variety of mesh sizes: 3mm, 6mm and 12mm. Mesh size is dependent on the application (see table below). The modular CopaSac nose box design allows the screen to be retrofitted into almost any configuration and in most locations on a sewage treatment works.

A disposable CopaSac sac is attached to a GRP/ Stainless Steel nose box by two pins. The molded nose box is situated in a modular slider section for easy removal.

The CopaSac sac should be disposed of when it is about a quarter full. A draw cord ensures that the clean screenings remain in the sac.



### Other Accessories

- Lifting Handles
- Outlet Protection Grid
- Walkways
- Wheelie bins for collection and draining of used CopaSacs screens

### Typical CopaSac<sup>®</sup> Screen Selection

	3mm	6mm	12mm
Settled Primary Sewage	*		
Final Effluent	*		
Discharge from Storm Tanks	*	*	
Storm Overflow	*	*	*
Emergency Overflow	*		*

Recommended Mesh and Application

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