

STATIC SCREENS



STATIC SCREEN is the curve stainless wedge wire hydrostatic screen used for solidliquid separation. The specially designed non-clog hydrostatic screen, with great opening area, offers an economical separation process with more hydraulic capacity, higher efficiency and needs low maintenance. It is used in many different industries and for many different applications.

Principle of Operation

Static Screen head box reduces turbulence of wastewater or processed slurry and delivers flow to the wire. A swing baffle distributes flow across the width of the screen surface and the liquid is then separated out of the slurry as it passes across the upper part of the screen panel. Most of the solids are captured on the curved face of the screen while the liquid is drained to the bottom part via the back of the screen. This screen provides excellent liquid/solid separation at a low capital cost and low maintenance.

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Industrial Applications

- **Vegetable and Fruit Products:**

Separate pumped product from the water flow. Remove waste matter such as stems, peels, and pulp from irrigation systems and processing lines.

- **Meat Processing:**

Removal of chicken feathers, cleaning the scald system and discharge filtering.

- **Pasta Industry:**

Dewatering of product after rehydration in order to lower further cooling loads.

- **Chemical Industry:**

Recovery of Fiberglass, plastics, rubber, resins, fertilizers and similar matter from process flows.

- **Waste water treatment**

- **Sea food industry**

- **Sugar industry**

- **Tapioca starch**

- **Poultry industry**

- **Pharmaceutical**

- **Breweries**

- **Paint & paper industry**

Standard Unit Construction:

A stainless steel frame holds the weir box with a customer specified water inlet connection. Attached to the top of the weir box is the hinged stabilizer gate. The wedge wire screen is attached to the frame with the water collection tank seated below. On each side of the water collection tank are inspection ports. At the bottom of the screen is a solids discharge lip.

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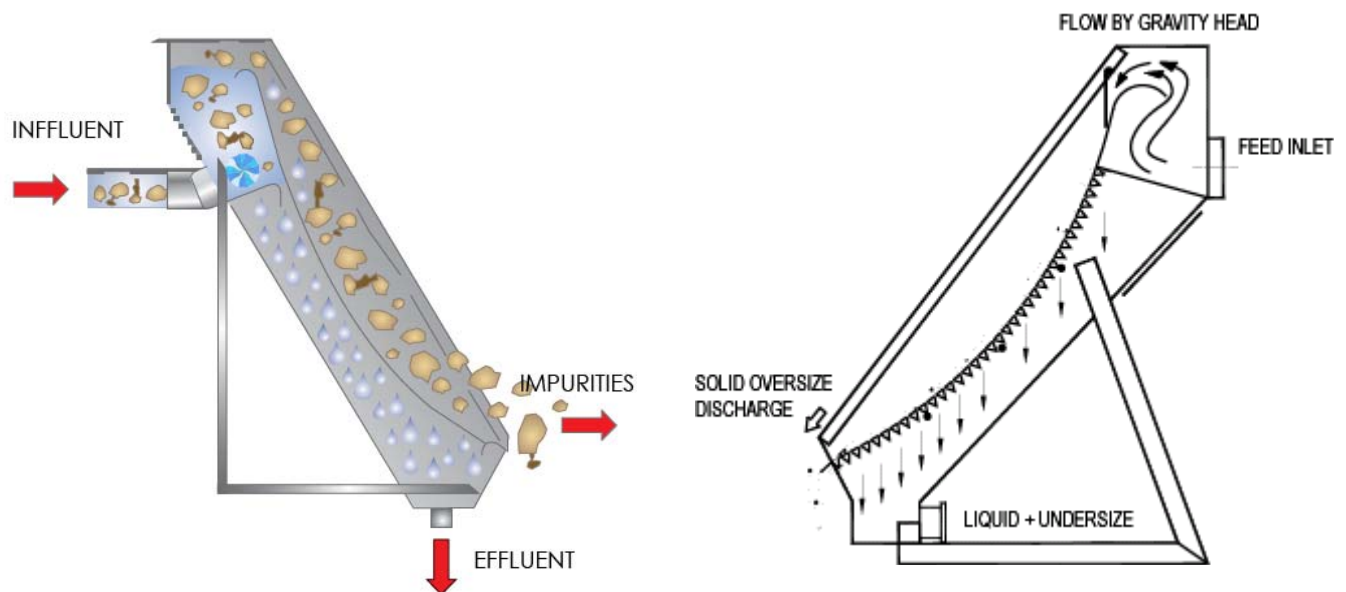
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Advantages:

- Efficient solid removal
- Reduce BOD, COD of waste water
- Long wear life
- High capacity
- Low maintenance
- Non clog design

Removal of the wedge wire screen is achieved without the use of tools for easy cleaning.

Flow Chart:



FLOW CAPACITY SELECTION:

Model	Opening Screen (mm)				
	0.5	0.75	1.0	1.5	2.5
	Flow rate (m3/h)				
SC 050	8-30	12-35	15-40	18-45	20-50
SC 100	20-70	25-85	27-110	30-120	35-130
SC 130	40-120	50-140	60-160	65-180	70-200
SC 190	60-180	70-220	80-240	90-260	100-300

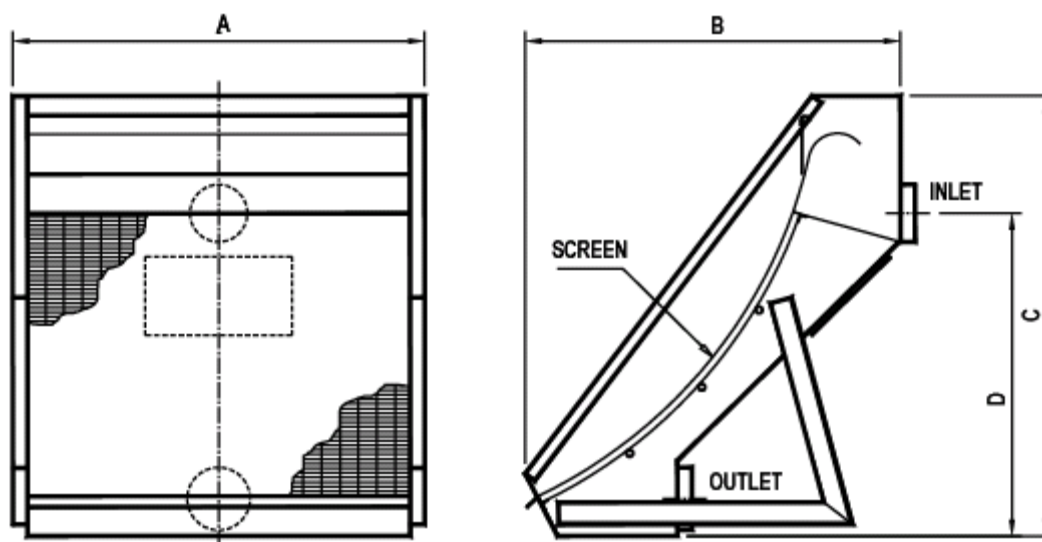
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DIMENSIONS OF STATIC SCREENS:



DIMENSIONS

Model	A (mm)	B (mm)	C (mm)	D (mm)	Inlet (mm)	Outlet (mm)	Approx. Weight (kgs.)
SC 050	500	1100	1300	850	100	150	140
SC 100	1000	1100	1300	850	100	200	250
SC 130	1350	1300	1500	1150	150	250	400
SC 190	1950	1300	1500	1150	200	250	600

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