

# SludgeScreen™ *Advanced Pressurised In-line Sludge Screen*

## A Superior Screen with *Reverse Function Versatility*

### Applications

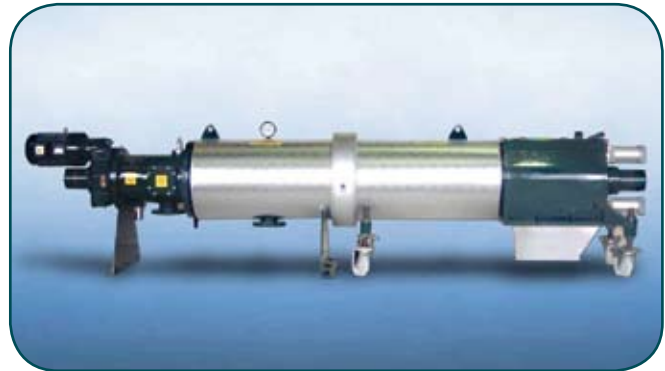
- Designed for either direct tanker, pumped feed or combination.

#### Wastewater Screening

- Ship-board preliminary treatment.

#### Sludge Screening

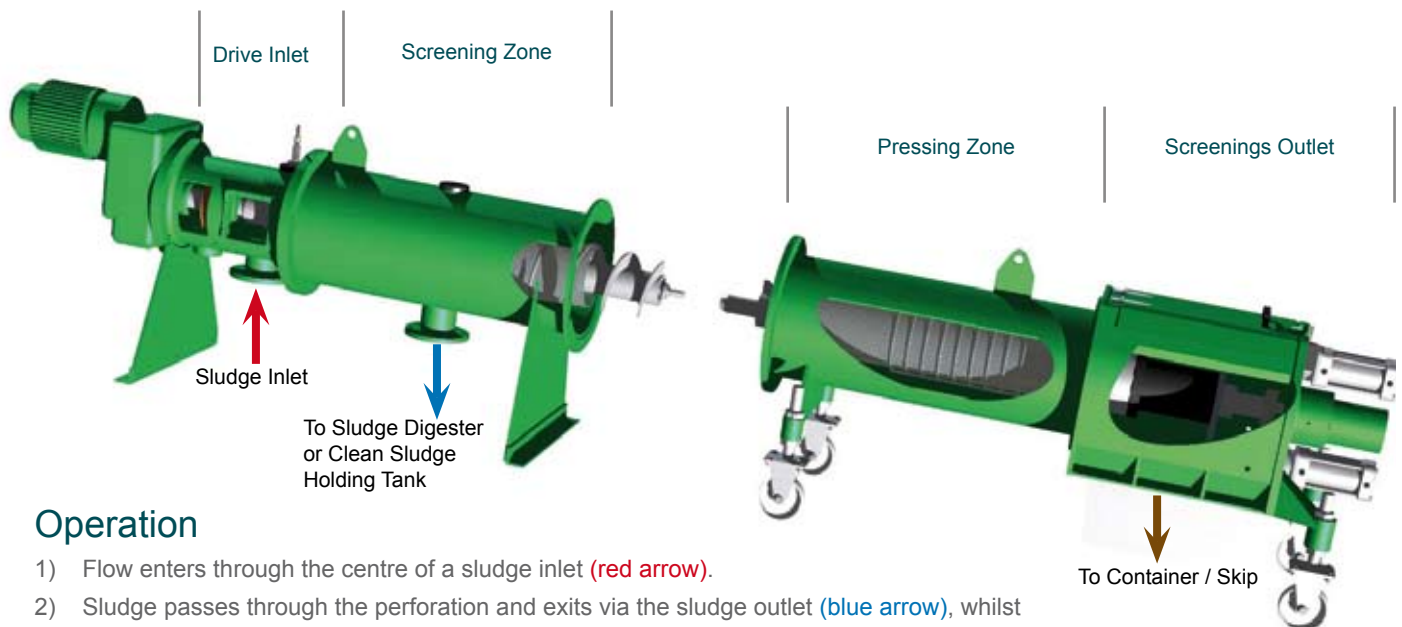
- Primary
- Secondary
- Imported



*The SludgeScreen™ is an inline pressurised device that screens and dewateres sludge in one operation. The enclosed system reduces odour problems and has no washwater requirements.*

### Advantages

- Enclosed system, reducing odour problems.
- Screening, dewatering and coarse material discharge in one operation.
- No washwater requirement.
- Fully automatic for either continuous or intermittent screening of sludges with varying dry solids content.
- Continuous coarse material separation under pressure with loss of pressure dependent on sludge thickness only.
- Reverse function in manual mode to allow the retention cone to be backed off without disconnecting the air supply.
- Manufactured from impact resistant SG Iron to BS 2789 Grade 420/12.
- Screening section screw manufactured from low carbon steel with stellite tipped flights.
- Combined testing of control panel and machine before delivery.
- Machine and control panel connected and fitted to platform prior to despatch to minimise installation time.



### Operation

- 1) Flow enters through the centre of a sludge inlet (red arrow).
- 2) Sludge passes through the perforation and exits via the sludge outlet (blue arrow), whilst the screenings are trapped inside.
- 3) A rotating screw moves the screenings off the inside of the drum to the pressing zone.
- 4) In the pressing zone the screenings are pressed against a retention cone which is balanced against the drive load of the screw.
- 5) Dewatered screenings are discharged by gravity via the screenings outlet (brown arrow).

## Specifications

- 3 mm to 10 mm diameter screen perforations.
- Stainless steel components.
- Robust spheroidal cast iron housings at inlet and outlet ends.
- Manufactured in the UK.
- Comprehensive Factory Assessment Test of machine and control panel prior to despatch.
- Fully compliant, user friendly WIMES 3.04 control panel.
- Empty weight 1100 kg.
- Standard coating system life 7-10 years.

## Options

There are two units available, the SludgeScreen™ and the SludgeScreen™ Compact.

Whilst both can be used at wastewater treatment plants the SludgeScreen™ Compact has proved to be especially popular for use on cruise liners.

### SludgeScreen™

% Dry Solids Content	Throughput (m <sup>3</sup> /hr)
0 - 1	120
2	90
3	75
4	65
5	60
6	50 - 55
Dimensions	670 mm x 950 mm x 4050 mm

### SludgeScreen™ Compact

% Dry Solids Content	Throughput (m <sup>3</sup> /hr)
0 - 1	15
2	12
3	9
4	8
5	7
6	5
Dimensions	670 mm x 1113 x 2710 mm

The figures in the tables above are based on flows through a two directional 5 mm perforated screen and should be used as a guide only as other factors such as the content of the coarse material, mineral content, etc. which are site specific will influence the final performance.



SludgeScreen™ Units Mounted in Parallel



SludgeScreen™ Control Panel

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