

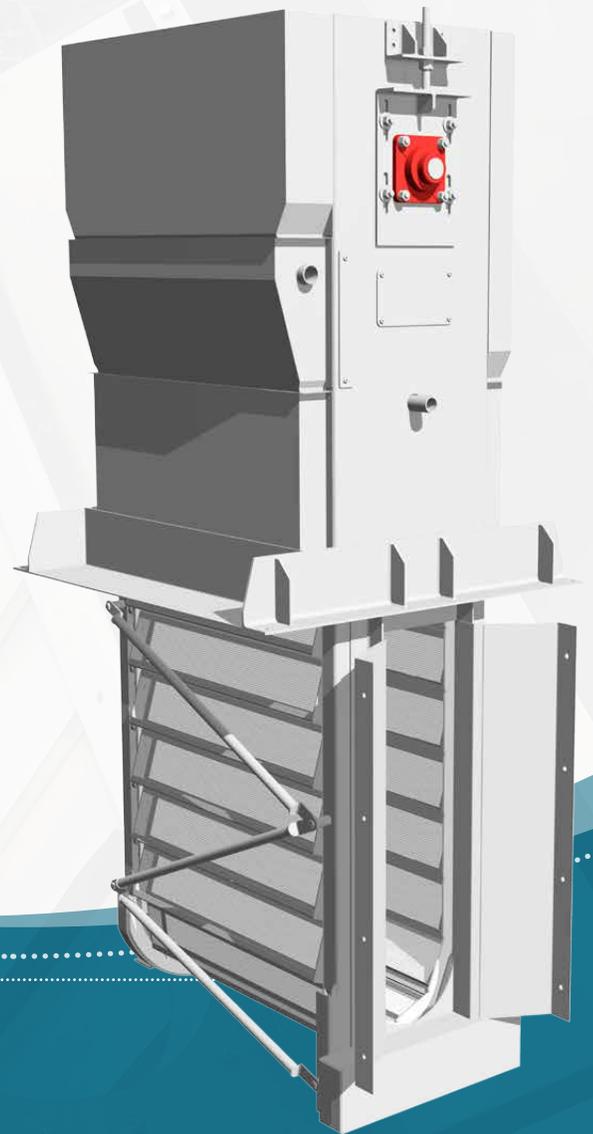


SPIRAC[®]

Solid Handling Solutions

BANDGUARD™

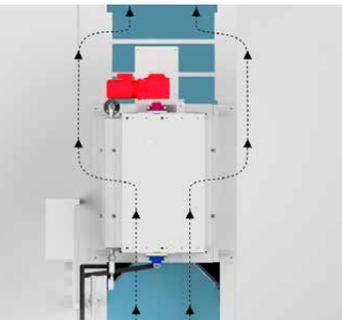
CENTER FLOW BAND SCREEN



FEATURES AND BENEFITS

- ▶ Screen widths of up to 13ft and depths of 65ft can be provided.
- ▶ Typical hydraulic flow of 1MGD and higher.
- ▶ UHMW panels with 2mm to 6mm diameter holes.
- ▶ Highest Screen Capture Ratios (SCR%) of any screen in the world:
 - 3mm perforated panel has a certified average SCR of 95% [UK Water Industry Research (UKWIR) National Screen Evaluation Facility (NSEF)].
 - 6mm perforated panel has a certified average SCR of 85% [UKWIR- NSEF].
- ▶ Carry over and hairpinning has been eliminated.
- ▶ Stainless steel construction.
- ▶ Available with integral washing compactor.
- ▶ Highly efficient side sealing arrangement.
- ▶ All maintenance can be accomplished at the operating floor level.
- ▶ 200mm and 300mm chain options.

BANDGUARD™ is a high efficiency center flow fine screen used in headworks of a wastewater treatment plant. The high efficiency fine screen prevents screenings accumulation and its exceptional capture rate significantly reduces maintenance costs in downstream equipment. The BANDGUARD™ screen can also be used for MBR protection.

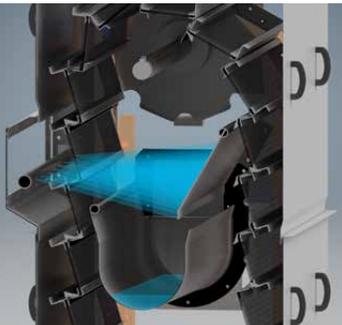


Wastewater flow

With the BANDGUARD™ screening is achieved by passing the sewage through a vertical band shaped screen curtain. It comprises an assembly of UHMW perforated panels are held in place by a stainless steel frame, which is bolted to the stainless steel chain on each side.

The screenings enter the centre of the screen, inside of the screen curtain where solids are retained and transported out of the flow by driving the band, moving the dirty panels from the screening zone to the panel cleansing area.

The band is sprocket driven via a motor and gearbox. A spray system is used to clean the panels before they are re-submerged in the flow. The spray system is orientated to achieve full panel cleaning, while depositing the debris in the internal sluiceway or compactor, which takes the debris out of the screen.



Spray bar to clean panels

Each panel has replaceable side seals manufactured from UHMWPE fitted between the chain and panel to effect a close tolerance seal with the chain guide fitted to the screen structure.

The main structural side plates are designed and manufactured for strength and rigidity.

The high strength chains run in UHMWPE guides and are driven by sprockets attached to the head shaft running in adjustable bearing units.

The drive is from a close coupled motor and gearbox. Single, dual or variable speed and explosion proof, Class I, Division 1, Group D motors are optional.

The BANDGUARD™ is fully guarded by covers fastened to the main screen structure thus encasing odours and wash water aerosol. The screen can be supplied with odour extraction pipework flanges where requested.



TALK TO US ABOUT YOUR SCREENING NEEDS.
Our wide range of screens guarantees we have the right solution for you.

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