

# BANDGUARD™

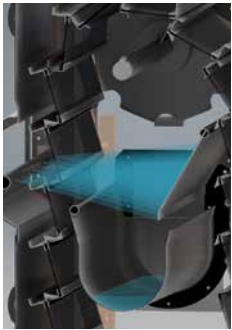
## CENTRE FLOW AND DUAL FLOW



### FEATURES AND BENEFITS

- ▶ Designed to suit channel of up to 4m wide and up to 20m in depth.
- ▶ Suitable for flows of  $\geq 40$ l/sec to  $\leq 5,250$ l/sec.
- ▶ Thick UHMW panels with 2mm to 6mm diameter holes prevent carry over and hair-pinning.
- ▶ 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].
- ▶ Stainless steel and carbon steel construction.
- ▶ Available with integral washing compactor.
- ▶ Highly efficient side sealing arrangement.
- ▶ All maintenance can be undertaken above coping level.
- ▶ Complete aftermarket support available.

BANDGUARD™ is a high efficiency dual flow traveling fine screen used in inlet works 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.

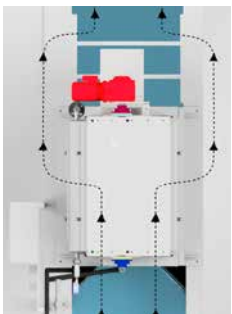


Spray bar to clean panles

With the BANDGUARD™ screening is achieved by passing the sewage through a vertical band shaped screen curtain. It comprises an assembly of plastic perforated panels, clipped and fastened into stainless steel frames which are fastened to stainless steel conveyor chains that form two endless loops.

#### In-to-Out BANDGUARD™

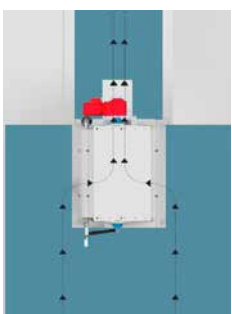
The screenings enter the centre of the screen, inside of the screen curtain where solids are retained and transported out of the flow by driving the band, moving the dirty panels from the screening zone to the panel cleansing area.



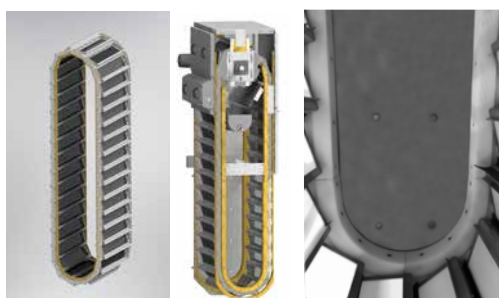
Wastewater flow In-to-Out

#### Out-to-In BANDGUARD™

The BANDGUARD™ 'Out to In' type of band screen whereby the influent flows into the outside of the screen, through the screening panels to the inside of the screen. The screen is normally provided with stainless steel wire mesh panels.



Wastewater flow Out-to-In



Panel screen curtain

The band is sprocket driven via a motor and gearbox. A spray bar fed by final or primary effluent is used to clean dirty panels before the panels are re-submerged. The cleaning system is orientated to achieve full panel cleaning whilst depositing all debris in the internal launder system, which feeds out through the side of the screen.

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 steel and 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. Variable or Dual speed drives are available as options and the screens can be supplied to suit ATEX Zone 1 environments.

The BANDGUARD™ can be inched forward and reverse, in case of mechanical stoppage.

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.



AUSTRALIA  
**SPIRAC Pty Ltd**  
Western Australia (Perth)  
+61 8 9434 0777  
info@spirac.com.au

NETHERLANDS  
**SPIRAC BV**  
Maarheeze  
+31 495 430 203  
info@spirac.nl

SWEDEN  
**SPIRAC AB**  
Limhamn  
+46 40 36 22 00  
info@spirac.se

UNITED KINGDOM  
**SPIRAC Limited**  
Banbury  
+44 1 295 270 335  
info@spirac.co.uk

USA  
**SPIRAC (USA) Inc**  
Newnan GA  
+1 770 632 9833  
sales@spirac.com