Float Purger™ Stock Cleaning System

Coarse stock cleaning of heavy debris

Fiber free rejects
Application
The Float Purger stock cleaning system concentrates plastics and other low density contaminates completing the defibering of accept material. It is usually used in the coarse screening loop of any furnish that is heavily contaminated and not fully defibered.

Operation
The Float Purger system is a vertical pressurized machine which performs three main functions to treat coarse screen rejects following a continuous pulping system.

1. Concentration of light contaminants.
The action of the bottom rotor sets up a strong vortex forcing light contaminant to the center of the air core. The reverse dish at the top of the unit ensures that the contaminants are removed at the lowest pressure point, providing high removal efficiency.

2. Defibering of undeflaked stock.
A defibering action occurs between the bottom rotor and the extraction plate. The accepted pulp usually is returned to the pulper tub.

Centrifugal force pushes heavy contaminants into a tapered reject channel around the periphery of the extraction plate. This debris is removed through a continuous bleed.

Results
The design and operating characteristics of the Float Purger system separate three distinctive streams: stock accepts, light rejects, and heavy rejects. Each stream typically needs further processing, requiring accessory equipment, to recover water and remove coarse screen contaminants from the system.

This energy-efficient system offers continuous and reliable operation with excellent rejects removal efficiency and high accepts quality. As a result, contaminant build-up in the system is reduced and productivity is increased.

Benefits

- **High Reject Removal**
  Traps heavy debris for periodic or continuous removal of rejects that are virtually fiber free

- **Energy Efficient**
  Applying power only where required

- **Low Maintenance**
  Built tough withstand high volumes of debris and optimally designed with very few moving parts

- **Reduces Contaminant Buildup**
  Removes more than 90% of light contaminants such as plastics, polystyrene, and styrofoam

Fiber-free rejects including troublesome styrofoam and plastics
Coarse stock cleaning of heavy debris

Three models of Float Purger system are available

<table>
<thead>
<tr>
<th>Model</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>Accept Diameter</th>
<th>Inlet Diameter</th>
<th>Light Rejects Diameter</th>
<th>Rotor Diameter</th>
<th>Nominal Motor HP</th>
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General dimensions - not certified for construction or installation. Guards are omitted for clarity; but perimeter guards are recommended.

Float Purger rotor and bed plate
A Trusted Partner
Stock preparation is in our blood. We know this industry like few others – your equipment, your processes, and your challenges. We have the know-how and tools to elevate the efficiency of your production. Our team can help monitor, maintain, and upgrade your line, providing process improvements, replacement parts, rebuilds, and comprehensive maintenance plans.

We understand what it takes to remain competitive, protect your investment, and extend the life of your stock preparation assets. To that goal, we offer:

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- Upgrades and modernizations
- Maintenance and service contracts
- Process control solutions
- Replacement upgrades and spare parts

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Get You Running, Keep You Running
Our technical service and support teams are ready. We provide superior guidance in the planning, design, engineering, installation, and start-up of your systems. Our products and expertise cover the full range of stock preparation and pulping, including:

- Pulping
- Screening
- Cleaning
- Thickening
- Deinking
- Detrashing
- Refining and dispersing
- Reject handling
- Recovery systems
- Heat transfer
- Pulp washing
- Recausticizing

Kadant offers a full range of fiber processing equipment and services

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