

Phoenix WX Belt Filter

[Inventory ID #1377305]



Phoenix WX Belt Filter

- Make: Phoenix Process Equipment
- Model: WX-2.0 Belt Filter
- Size: 2.0 Meters
- Condition: Used
- Comes with:
 - Control Cabinet
 - Air Compressor
 - Spare Belts
- Features:
 - Heavy All-Welded Main Frame
 - Modular Construction
 - Continuous Automatic Operation
 - Open Design
 - Epoxy Over Zinc Coated Frame
 - Pneumatic Belt Tracking/Tensioning
 - Standard, Extend, Independent or Dual Gravity Zone
- Description:
 - 1. Preconditioning (Flocculation): Most applications require the addition of polymers to the slurry prior to dewatering. The addition of these flocculants

results in the agglomeration of solids, releasing free moisture. An inline mixer is provided for proper dispersal of polymer into the feed.

- 2. Feed Distribution: The slurry is fed to a specially designed head box, where the material is evenly distributed for more efficient use of the filtering area.
- 3. Gravity Drainage: Free moisture is separated from the solids by drainage through the moving filter belt.
- 4. Wedge Pressure: Material advancing from the drainage zone is deposited into the adjustable wedge zone. Pressure is gradually applied as the upper and lower belts converge to form a “cake sandwich.”
- 5. Compression/Shear: The belts then follow an “S” path through a series of compression rollers. The surface pressure created by belt tension squeezes additional moisture from the solids. Simultaneous shearing of the material opens additional voids for moisture release. The belts part, leaving a dry cake.
- 6. Solids Discharge: Cake is separated from the belts by doctor blades and discharged.

- Applications:

- Coal Refuse
- Scrubber Effluent
- Pulp and Paper Effluent
- Domestic Biological Waste
- Textile Wastewater
- Grease Trap Waste
- Water Treatment Sludge
- Aggregate Tailings
- Food Process Waste
- Chemical Waste
- Municipal Wastewater
- Dredging Slurries

- Location: Eastern USA

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