FWZ Inverting Filter Centrifuge is a new high performance filtration system that is capable of automatically discharging collected particulates. With advantages such as automatic process controls and recycling capabilities, the filter is suitable for filtering process waste, and meets GMP standards for pharmaceutical, chemical and food filtration requirements.

**Features**

- Complies to Good Manufacturing Practices (GMP) and Clean-In-Place (CIP) requirements
- Innovative discharge method; does not involve scraping or pressing to maintain particulates’ shape
- The filter cloth features excellent filtration and regeneration capabilities with no residual particulates, making it a effective equipment to filter difficult materials
- With a fully enclosed structure that can be opened and dismantled for thorough cleaning and inspection

- Mechanically operated equipment eliminates any contamination found in hydraulic systems
- Unique elastic active shock dampener/absorber for stable and reliable operation
- Equipped with PLC and touch screen controls for a fully automatic process operation

**Process Description**

A filter cloth, shaped as a bag, is fixed to the drum on the outer shaft on one end, and the other end is secured to the push plate on the inner shaft. During the separation process, filtrate passes through the filter cloth, while solids are trapped on the cloth, forming the filter cake.

When the filter cake reaches a set thickness, the feed inlet is closed to begin the washing phase. The drum spins at full speed until the cake is dry to begin discharging. In the discharge phase, the rotating drum pushes forward, inverting the filter cloth to dislodge the cake and regenerate the filter element. Upon retracting and locking, the equipment is ready for the next operating cycle.
Inverting Filter Centrifuge

Applications

- Chemicals: aluminum hydroxide, barium chloride, cobalt acetate
- Pharmaceuticals: penicillin, EDTA
- Food: Carrot flakes, caffeine, sugars, orange juice
- Metallurgy: Magnesium silicate, manganese ore
- Pesticides and bactericides
- Waste treatment
- Pigments

Technical Innovations

The inverting filter centrifuge is structurally similar to a horizontal centrifuge. There are two shafts rotating in sync; the outer shaft is fixed to an axis, while the inner shaft moves mechanically along the axis. The drum attached to the inner shaft spins at high speed to produce sufficient centrifugal force for operation.

Technical Parameters

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Drum Diameter (mm)</th>
<th>Speed (rpm)</th>
<th>Separation Factor</th>
<th>Work Capacity (kg)</th>
<th>Loading Limit (kg)</th>
<th>Main Motor Power (kw)</th>
<th>Dimensions Length* width *height (mm)</th>
<th>Weight (kg)</th>
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<td>8000</td>
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*rmp should be RPM (rounds per minute)