

VACUUM BELT FILTER

The Vacuum Belt Filter (VBF), designed by Roymec Technologies for the separation of liquids and solids, has demonstrated unsurpassed reliability and efficiency in the most difficult of applications.

The success of this filter can be attributed to the careful attention to fit for purpose design and engineering, simplicity and the robust construction of our equipment.

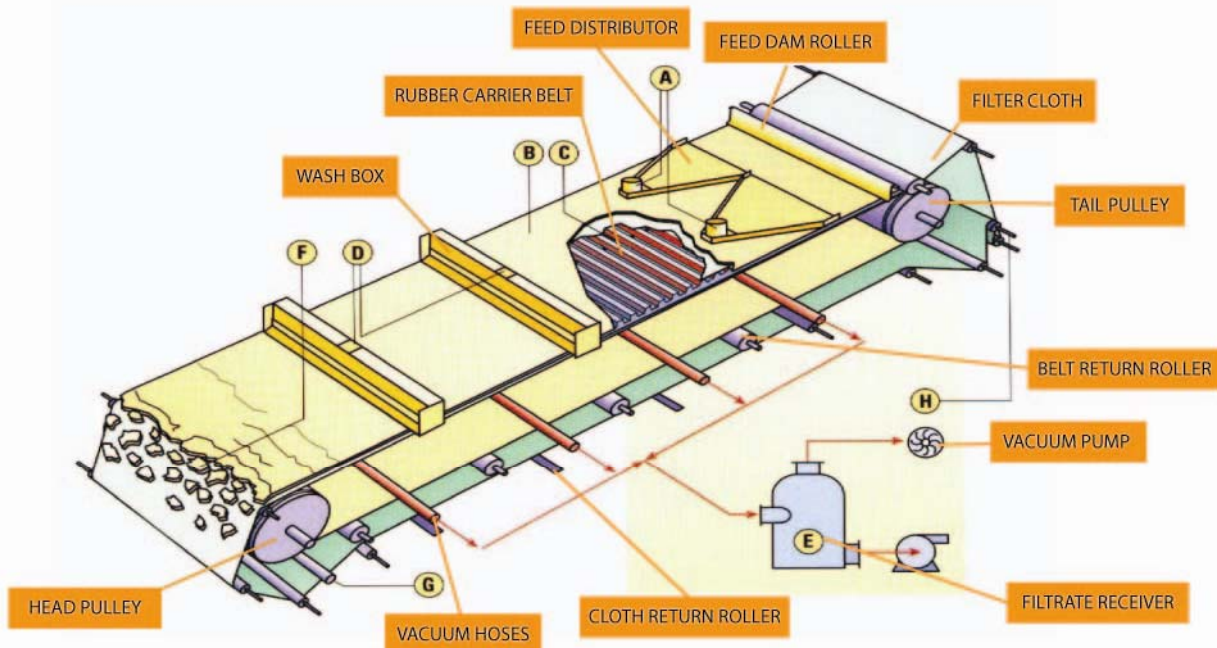
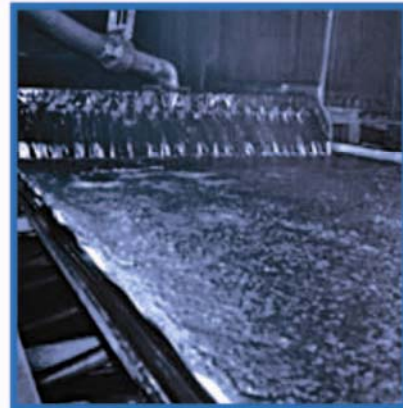
VBFs have an endless carrier rubber belt that rides in a flat horizontal plane. An endless filter cloth travels together with the support carrier belt, providing mechanical support to the filter cloth.

This filtering surface (filter cloth) moves from a point where slurry is introduced onto the belt (feed end), liquor is sucked through the cloth under vacuum and a cake formed on the cloth surface.

The cloth travel continues to the cake drop off point where the cake is discharged (discharge end) and then back to the point of feed slurry application.

BENEFITS

- VBF units are versatile and ideally suited for cake washing applications.
- The benefits displayed by this equipment in wash efficiency is unrivalled.
- VBF units provide the best wash efficiencies with the least water because they have a plug flow of wash water through the horizontal cake formation on the cloth surface.
- Wash water is recirculated to increase liquor tenor.



Excellence in process engineering from concept to commissioning

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The configurations of our VBF units are endless as shown on the table below, and each unit is specifically tailored to the application. An in-depth knowledge of the options available and the expertise to select the most appropriate design ensure the most cost effective solution that will operate trouble free and efficiently for many years.



Process	Mechanical	Carrier Belt		Filter Cloths	Drive
		Rubber	Support		
Dewatering	Carbon steel	Natural Rubber (NR)	Water lubricated	Polyester	Hydraulic
Co-current washes	Stainless steel	Styrene Butadiene Rubber (SBR)	Induced Air support	Polyamide	Electric
Counter-Current washes	Lined Steel	Ethylene Polypropylene Rubber (EPDM)	Wear belt support	Polypropylene	
Squeeze	Polyethylene	Butyl Rubber			
Drying	Polypropylene	Neoprene			
Steam introduction		Hypalon			



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