



CERAMIC DISC FILTERS (CDF)



www.delkorglobal.com

Filtration Equipment

Through continuous focus on product improvement, the Delkor CDF filter now provides the industry with the next generation of best of class vacuum ceramic disc filter technology.

These improvements maximize the operating performance, reduce the maintenance & operating costs, and provide the best design and technology to our valued partners in the mineral industry. These improvements provide ease of maintenance and access to the filter working areas (due to shaft design), ease of assembly, and maximizing the availability and operation reliability.

Benefits

Dry Cake

- Concentrate filter cake moisture content 7 – 8 wt %

Power Consumption Economy

- 10-20 times less power consumption, compared to vacuum and pressure filter designs
- Concentrate driers eliminated
- Reduction of heavy duty electrical components

Maintenance and Operating Costs Savings

- Higher availability than any other dewatering system
- Filter media replacement cost
- No component wear from abrasive solids in filtrate system,
- Minimal Operating & Maintenance manpower required
- Heavy Duty corrosion resistant filter design

Continuous Operation

- Cost reduction in conveyance equipment
- Reduction in 'operator' man power
- Highest Capacity per installed filter area
- Highest availability compared to the alternatives

High Specific Output

- 1.5-5 times higher than other vacuum and pressure filters

Ceramic Filtering Elements

- Continuous improvements
- Ceramic filtering elements' life is 36 months
- Redesign of filter elements construction
- High thermal resistance and strength
- High abrasion resistance
- Membrane coating to optimize performance
- Maximum hydraulic capacity through pore size technology

Operation Advantages

- Major reduction in maintenance costs
- Simple design and ease of assembly and operation
- Compactness and minimum operation space
- Continuous Operation & Automated Control

Plant Environmental and Safety

- No aerosol blowouts and reduction in man power leads to improved safety record
- No filtrate solids allows to use the filtrate in the looped water cycle

Clear Filtrate, Raw Materials Economy

- Allows filtrating without losses the fine-grained -0.040mm concentrates up to 99%
- No losses of solids with filtrate (content of filtrate solids: 0.001-0.005 gram/liter)
- Use of the filtrate in the looped water cycle for reduction of water consumption to 30-50%
- Reduction of polymer consumption in thickener

DELKOR

IT PAYS TO TALK TO A SPECIALIST



CERAMIC DISC FILTERS (CDF)

www.delkorglobal.com



Filtration Equipment

Applications

Dewatering

- Copper, Nickel, Lead, Molybdenum and other base metal concentrates
- Iron-ore Concentrates and Tailing in the Ferrous Industries
- Fine Aluminum oxide Dewatering
- Slurries in water recycling systems

Industries

- ALUMINA PRODUCTION pulp dehydration
- ORE-DRESSING PLANTS slurries and tails dehydration
- MUNICIPAL ENGINEERING dehydration of slurries in water recycling systems
- FERROUS AND NONFERROUS METALLURGY concentrates dehydration after flotation processes



DELKOR

IT PAYS TO TALK TO A SPECIALIST



For further information, contact your regional Delkor office.

americas@delkorglobal.com
 europe.cis@delkorglobal.com
 centralasia.nthafrika@delkorglobal.com
 subsahara.africa@delkorglobal.com
 asia.pacific@delkorglobal.com

- Delkor Belt Filters
- **Ceramic Disc Filters (CDF)**
- Automated Filter Presses
- Bond Indexing Filters
- Tipping Pan Filters
- Gravity Sand Filters
- Polishing Ceramic Filters