

# POLISHING CERAMIC FILTERS

[www.delkorglobal.com](http://www.delkorglobal.com)

Filtration Equipment

The treatment of process solutions for all metallurgical, chemical, industrial and toxic waste flow sheets require the most efficient and cost effective equipment.

The Delkor Polishing Ceramic Filter responds to that challenge and offers the best practice liquid/solid separation filter.

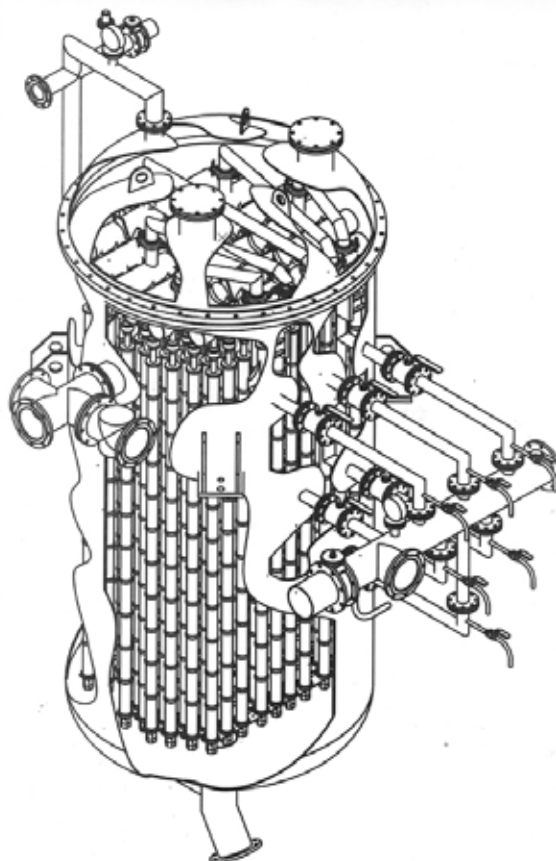
The Polishing Ceramic Filter design is based upon leading ceramic cartridge technology and the design of the canister to provide a fully automated filter operation.

The Delkor Polishing Ceramic Filter is a heavy duty, vertical pressure vessel designed to pressure vessel international standards.

The canister consists of a fabricated bottom housing with a bolt-on top flange. The ceramic cartridges are suspended from an upper collection plate. The cartridges are held in place by easily detachable connectors. All inlet and outlet flanged nozzles are designed to international standards.

#### Benefits

- High capacity – 1.9 m<sup>3</sup>/m<sup>2</sup>
- 99.98% solids removal from solutions
- Filtrate is used for looped water cycles as its solids content does not exceed 0.001 g/dm<sup>3</sup>
- Membranous coating allows removal of fine insoluble calcium compounds
- Continuous non-stop applications
- High heat endurance allows filtering of hot solutions
- High mechanical strength (57MPa)
- And acid and alkali resistance of filtering
- Elements provide the minimum filter replacement age of 12 months
- Custom design pore size of ceramic elements to meet specific process requirements
- High regeneration ability
- Membrane coating technology guarantees 100% solids removal





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## Applications

Purification of Electrolyte Solutions

- base metals electro winning solution purification
- precious metals solids recovery
- solids removal in solution recycle loops

Cleansing of industrial cooling waters and waste waters

- filtering of unbalance waters with the aim to return valuable solid particles to the production cycle
- filtering of concentrate thickener overflow in order to return the valuable floating fraction components (solids) for further dehydration at VDFC Filters

Filtration of Acids and Alkalies from admixtures

- Cleansing of rinsing sulfuric acid and its return to the process

Cleaning of hot gases from solid aerosols

- thickening of suspensions up to 40-60% using wet method of gas purification and further pipelining of thickened product for dehydration at VDFC Filters including subsequent production of pallets or rolled briquettes. It allows to reduce areas of slurry ponds
- the filtrate obtained at the PCF Units can be used for closed water cycle;

Cleansing of Amine solutions in the gas production industries

## Industries

- Mineral and Hydrometallurgical
- Chemical and Petrochemical
- OIL-GAS with higher hydrogen sulphide composition
- Housing and Communal Services
- Building
- Other branches of Industry

**DELKOR**

IT PAYS TO TALK TO A SPECIALIST



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