

CPE Vacuum Filters

Chemical Plant & Engineering is a world leading designer and manufacturer of vacuum filtration solutions with over 50 years of global supply experience.



CPE vacuum filter solutions:

- ROTARY DRUM VACUUM FILTERS
- ROTARY PAN VACUUM FILTERS

We custom design filters to specific process requirements. Our vacuum filters are available in a variety of sizes and are rated in square meters of effective filtration area.

CPE has numerous installations worldwide in various applications from mineral processing and chemical to pharmaceutical and food and beverage.

ROTARY DRUM VACUUM FILTERS



CPE drum vacuum filters consist essentially of a cloth covered drum rotating in a tank filled with the slurry to be filtered.

Available in 5 different cake discharge systems:

- Blow Back Scraper
- Roller
- String
- Belt
- Knife Advance – Pre-Coat

Rotary drum filters are usually used for continuous dewatering of slurries with coarse aggregates and high solids contents (2 to 40 wt. %).

ROTARY PAN VACUUM FILTERS

CPE pan vacuum filters are suitable for continuous filtration of rapid settling, free filtering solids and are designed for ease of installation and simple reliable operation. Pan filters provide rapid dewatering and efficient cake washing at large capacities.

Features include:

- ❑ High throughput per square meter of filtering area.
- ❑ All filtration and wash stages are visible for ease of control.
- ❑ Multiple wash stages including counter current washing.
- ❑ Superior Pan flatness enabling operation to ensure minimum cake heel.

Filter Retrofit Services

CPE has a long history in process optimisation and retrofitting of vacuum filters.

Main offerings include:

- ❑ **Vacuum Valve** designed to reduce vacuum and caustic leakage. Offering high performance and high flow.
- ❑ **Even Flow Feed Through and Wash Arm Assemblies** for Pan Filters
- ❑ **Fume Hood Systems** for Pan Filters: custom designed, suitable for containing caustic fumes during filtration.
- ❑ **Discharge Assemblies** for Drum Filters
- ❑ **Safety Enclosures:** designed for safe processing of hazardous materials.



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