

GRP VACUUM DRUM FILTER FOR CORROSIVE APPLICATIONS

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Vacuum drum filters are the state-of-the-art choice of filtration equipment in highly corrosive applications such as filtering titanium dioxide solids from sulfuric acid or filtering solids in slurries with a high content of hydrochloric acid. To save cost, these filters are conventionally made of out of rubber-lined carbon steel to protect the wetted components against corrosive attack. The disadvantage of rubber lining is embrittlement with crack formation tendency leading to the risk of unscheduled production interruptions.

ANDRITZ newly developed metallic-GRP sandwich design vacuum drum filters are designed to withstand chemical attack. Structural design is based on a metal shaft and headwalls structure, GRP drum body and chemically-resistant thermoplastic covering layer. All wetted parts are covered with the most suitable chemically-resistant thermoplastic such PP or PVDF. The new filter offers enhanced corrosion resistance of wetted parts, but offers the same performance and functions in all other aspects.