

MICROSCREEN DRUM FILTER – Tertiary Filtration

Continuous gravity microfiltration for tertiary treatment, process and intake water.

Mesh from 10 microns, capacity up to 4,750 GPM.



Mesh from
10 microns



Gravity flow,
no feed pumps



Click-in filter
cartridges



Call Us Today
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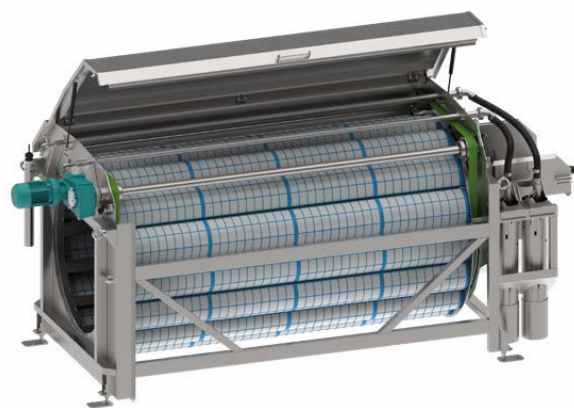
OPERATING MODE

Treated water flows by gravity into a rotating drum carrying CLI-CLO filter cartridges. Filtration runs from the inside out: solids larger than the mesh opening are held on the inner face of the cloth while clean water passes through to the outlet.

As solids build up, flow through the cloth drops and the level inside the drum rises. At the set level the drum turns and high-pressure nozzles backwash the cloth from outside, washing the solids into the sludge trough. When the level falls, rotation stops.



FBO — self-contained steel tank



FBB — built into a concrete channel

1 IN to OUT filtration

Water enters the drum and passes outward through the cartridges, so solids stay inside

2 Level-triggered backwash

A level probe starts rotation and the nozzle bar when head loss builds

3 No interruption

Filtration continues while the cloth is being washed, so the stage never stops

Head loss of 4 to 10 in across the cloth is what carries the flow, so no feed pump is needed and energy cost stays low. Sizing follows the peak hydraulic flow, the solids load and particle size, and then the mesh needed for the effluent quality you have to meet.



FEATURES & BENEFITS



1 CLI-CLO click-in cartridges

The cartridge is a patented click-in segment with the seals built into it, so cloth is replaced without screws or loose hardware. Segments are one size across the range, so the same spare fits any filter in the plant, from 1FB to 6FB.

2 Nothing to fail under water

The drum is hung on Kevlar belts and no bearings sit below the water line, which removes the usual contamination and corrosion path. Drum seals are abrasion resistant.

3 Backwash nozzles that stay clear

High-pressure nozzles are shaped to resist blocking, so backwash energy stays even across the drum and the cloth recovers its full open area on every cycle.

4 Effluent quality

The filter removes suspended solids, algae and parasites, and reduces BOD and COD. With chemical dosing upstream, phosphorus can be taken down to 0.1 mg/L.



5 Materials and versions

Wetted parts in AISI 304, 316L, 316Ti or duplex, in a self-contained steel tank (FBO) or set into a concrete channel (FBB). Insulated and heated for outdoor sites.

6 Options and control

Automatic cover opening, UV lamp, CIP and insulation are available, and several filters can run in parallel under one PLC.



APPLICATIONS

The drum filter polishes treated effluent and protects downstream equipment, and it also recovers valuable material from process water in industry.

Tertiary treatment

Polishing of treated effluent

Pre-treatment before UV

Protects UV transmittance

Potable water

Pre-treatment of drinking water

Aquaculture

Recirculation and intake water

Pulp, paper and food

Process water and material recovery

Cooling and irrigation

Inlet process and irrigation water

SPECIFICATIONS

FILTRATION

Mesh openings from 10 microns

Head loss 4 to 10 in maintains capacity

Capacity up to 4,750 GPM (300 L/s)

CONFIGURATION

FBO self-contained steel tank, or FBB concrete channel

1FB to 6FB segment lengths

MATERIALS

AISI 304, 316L, 316Ti or duplex alloys



2FBO unit in a municipal plant

Sizing depends on peak hydraulic flow, solids loading and particle size, and on the mesh needed for the effluent quality required. Send your flow and water data and we will size the filter and confirm the model.

ALSO FROM AQUALITEC

Screening equipment

Screenotec, Raketec, Drumtec, Spiraltec, Compactec, Washtec, Grittec

DAF units

Altec, Deltec, Gamtec, Sigtec

Sludge equipment

Omega belt filter presses, decanter centrifuges, screw presses



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