Gravity sand filters

autonomous and valveless

Iron and manganese removal

Make-up water for cooling systems

Plant and process supply water

Side-stream filtration of sea and ground water cooling systems

Tertiary treatment and final effluent filtration

applications are.

Potable water

AGF the simplest automatic sand filter

AGF is a fully automatic gravity sand filter that is used in a number of differing industries to remove suspended solids from water. Among its

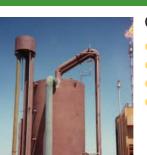


Municipal drinking water



Mining industry

Oil & gas industry



Operation

- Extremely simple operation
- Autonomous mechanical operation
- Automatic backwash only when necessary on loss of head principle
- No backwash pumps or automatic valves needed for operation
- No pressurised water required
- Minimal running costs and operator involvement
- Larger flow rates through a single unit compared to other designs
- For standard applications no air required for backwashing

Benefits

- Covers a wide range of flow rates
- Constant efficient operation
- Configuration as per customer requirements
- Twice the flow for the same footprint
- More manageable backwash
- More cost efficient
- Fit and forget filters
- Ideal for use in zoned hazardous areas
- No electrical requirements for operation
- Human error eliminated as filters can not backwash too early or too late, too fast or too slow
- Stores own reservoir of backwash water for backwashing purposes when required
- Either gravity flow or low lift pumps to get feed to inlet tank
- Lifetime costs lower than other systems
- Less units required
- Manual or automatic air scour facility can be built in when required, e.g. final effluents

Maintenance

- Minimum wear and tear, reduced maintenance
- Less manpower required

Features

Construction and installation

- Supplied in a wide range of diameters
- Optimised design parameters
- Straightforward installation
- Double bed version available

Municipal drinking water

Application

Side-Stream Filtration of re-circulating ground water cooling system

Location Power Station, South Africa

Operating data 1 x 4.2m diameter, single bed, maximum flow 140m3/hr



Application

Bore-Hole water, iron, manganese and solids removal for drinking purposes

Location

Application

Location

Treatment Works, UK

Operating data

Municipal Water Treatment Works, UK

Final Municipal Effluent solids removal to

Municipal Waste Water (Sewage)

meet consent levels before discharge to river

3 x 4.5m diameter, single bed, maximum combined flow 480m³/hr

Operating data 2 x 7.5m diameter, single bed, maximum combined flow 890m³/hr



ASE SIUD

Application

River water solids removal for process requirements



Operating data

2 x 3.0m diameter, single bed, maximum combined flow 140m3/hr



Technical Data

- Areas of application
- Flow rates Single Bed Units
 - Double Bed Units
- Nominal line sizes
- Flange connections
- Filtering levels
- **Operating pressures**
- Temperature -At sea level At 3000m Intermediate
- Materials of construction
- Manufacturing
- Corrosion protection
- Filter medium
- Backwashing medium
- Controls

Filtration of water, final effluents and process liquids Up to 1130m³/hr Up to 2260m³/hr (Unlimited in multiple units) 50 to 800 mm As per requirement Influent max. ± 50 mg/l Atmospheric Up to 70°C Up to 30°C Between above Carbon steel, Stainless Steel Sound engineering practice Painting as per requirement Sand, Anthracite and others as per application Filtrate For standard cooling, drinking and process applications - none. Where biological containments are present, for example in final effluents, manual or fully automatic air-scouring available.

Technical details above are typical.

Automatic backwashing / No hassles / Low maintenance - Sound interesting?

If you are looking for filters with a difference that give all of the above and more, together with proven track records, backed up by solid references and many years of product history then...

For all your water filtration and purification needs contact the specialists

CASE STUDY

Gold mine, West Africa