

SIMPLIFIED STEP-BY-STEP OPERATING INSTRUCTIONS



1. PREPARATION

- Refer to the dimensional drawing to identify filter connections: Filter Inlet, Filtrate Outlet, Scavenger Outlet, Tank Drain, Air Vent, Pressure Gauge
- Position the filter and connect to the service piping



2. DISASSEMBLY AND CLEANING

- Remove the Cartridge and place it in a serviceable area
- Loosen and remove Side Tie Rods
- Remove filter plates one at a time and place them on a clean surface. Remove the filter media



3. RE-STACKING AND SECURING FILTER PLATES

- Place clean filter media on the Scavenger Plate and each Filter Plate as it is stacked
- Align all Filter Plates with the blank area facing one side of the bundle, which should face the Filter Inlet when placed in the tank
- Place the Top Ring, insert and tighten Side Tie Rods using a criss-cross pattern and recommended torque values



4. INSTALLING FILTER PLATE BUNDLE

- Use a hoist to place the bundle inside the tank, ensuring the blank area faces the Tank Inlet
- Place the Compression Cap, insert the Center Tie Rod, and tighten as per torque values
- Secure the top Cover, align Swing Bolts, and tighten hex nuts in a criss-cross manner per torque values



5. FILLING AND STARTING FILTRATION

- Close all valves except for the Filter Inlet and Air Vent. Fill the tank until liquid comes out of the Air Vent, then close the Air Vent
- Open the Filtrate Outlet Valve and feed the filter through the Filter Inlet Valve
- For precoat filter aid, open the Scavenger Outlet Valve for a few minutes, then close it



6. MONITORING AND STOPPING FILTRATION

- Monitor the Pressure Gauge to ensure design pressure is not exceeded (standard design differential pressure is 50 PSID)
- Stop feeding the Filter when flow decreases or differential pressure reaches 40-45 PSID. Turn off the feed pump



7. BLOWING DOWN AND OPERATING SCAVENGER PLATE

- Close the Inlet Valve, open the Air Vent Valve and blow down with air or acceptable gas. Open the Filtrate Outlet to filter remaining liquid
- To operate the Scavenger Plate, close Filtrate Outlet Valve, open Scavenger Outlet Valve, then open Filtrate Outlet Valve to force remaining liquid out



8. DRAINING AND DISASSEMBLY FOR CLEANING

- Open the Tank Drain to remove any remaining liquid
- Disconnect air, loosen Swing Bolts, remove the top Cover, Center Tie Rod, and Compression Cap
- Remove the Cartridge, clean each Plate, and inspect filter media for a tight seal. Discard used media, wash Plates, and re-stack with clean filter media



9. REASSEMBLY

- Repeat steps 3 to 4 for reassembly

TECHNICAL SUPPORT AND MAINTENANCE

- Contact Sparkler Filters' Technical Sales for supplies and spare parts.
- Use Spare Bottom Equipment or a Spare Cartridge to reduce cleaning time.
- Proper handling and care will ensure many years of satisfactory service.