

# CAMAC CARBON PACK FILTRATION SYSTEMS

## INSTALLATION

Location of system should be as close to the tank as practically possible. The suction line feeding the pump should be as straight and short as possible. When installing a filter in a more distant location the suction line size should be increased to reduce friction losses. For additional information, see also pump installation guidelines.

### Filter System Start-Up Procedure

Prior to turning on the flow to the inlet service, please make the following checks:

1. Check inside filter unit to be sure cartridges, carbon pack, and O-ring seals are in proper position.
2. Check that filter unit cover is securely fastened to housing.
3. Open the valve into the pump suction line.  
NOTE: When in operation, the pump suction valve should always be in the fully open position. Never attempt to regulate any pump by closing the pump suction valve.  
**DO NOT RUN PUMP DRY**
4. Open the valve between pump and filter chamber approximately half way.
5. Start pump and check rotation  
NOTE: If operated in reverse pump flow and pressure is greatly reduced.
6. After filter unit is pressurized and vented (if applicable), slowly open outlet service line valve until completely open. If reduced flow is required, gradually close chamber discharge valve until desired flow is achieved.
7. The filter cartridge change out pressure is typically determined by the feed pump selected. When using positive displacement (such as gear, roller, piston) or air operated pumps, provisions must be made to avoid over-pressurizing the chamber. The maximum non-metallic chamber pressure rating is 60 psig which is reduced with elevated temperature. Consult with factory for your specific application.

To prevent excessive drop through the filter unit, regular inspection of the filter media is required. Monitoring of differential pressure with a pressure gauge through the housing is the typical means of determining whether or not the filter media needs cleaning or replacement. A flow meter on the chamber discharge is a good secondary means of determining when an element change is necessary.

### Element Changing

1. Stop the pump.
2. Close valves between pump and chamber and on discharge of filter.  
NOTE: In some applications closing flow to outlet is not required.
3. Relieve the pressure from the filter unit (if applicable).
4. Drain chamber if equipped with a drain valve.
5. Remove cover by loosening clamp assemblies sufficiently to allow them to swing free. Remove cover O-ring and keep with cover.
6. Remove plastic tube cover and O-ring.
7. Remove cartridge core with cartridges.
8. Remove plastic tube sheet and O-ring.
9. Remove, recharge, and replace carbon pack.
10. Replace plastic tube sheet and O-ring.
11. Clean core, replace media, reassemble and insert into tube sheet.
12. Replace plastic tube cover and O-ring.
13. Inspect cover O-ring for cuts or other signs of failure and make sure it is properly seated.
14. Move cover back into position and alternately tighten the clamp assemblies evenly to ensure a leak proof seal between cover and housing body. Hand tight is adequate. Avoid over tightening.

Repeat start-up procedures.