

ADMIRAL[®] FILTRATION SYSTEMS

OPERATION AND
SERVICE GUIDE
O-470E
APRIL 2000

Refer to Bulletin F-501.

! SAFETY PRECAUTIONS BEFORE STARTING PUMP

1. Read operating instructions and instructions supplied with chemicals to be used.
2. Refer to a chemical resistance data chart for compatibility of materials in pump with solution to be used.
3. Note temperature and pressure limitations.
4. Personnel operating pump should always wear suitable protective clothing: face mask or goggles, apron and gloves.
5. All piping must be supported and aligned independently of the pump.
6. Always close valves slowly to avoid hydraulic shock.
7. Ensure that all fittings and connections are properly tightened.
8. Flush pump thoroughly with a neutralizing solution to prevent possible harm to personnel from previous use.
9. **⚠** To avoid electrical shock, never handle this equipment when wet or standing in water. When handling equipment for any reason, make sure power supply is disconnected.
10. Do not grab unit by motor. During normal operation, motor becomes "hot to the touch".
11. Keep power supply cord out of contact with hot, sharp, highly corrosive and other potentially damaging objects and solutions.

Admiral Filtration Systems are comprised of CPVC filter chamber and sump pumps constructed of PVDF and CPVC. The filter chamber and pump include a mounting bracket to allow independent mounting, either inside or outside of the tank. Refer to pump and filter operating instructions for installation, priming, service, etc. Refer to chamber and pump parts list for item identification and replacement part number.

PRE-START-UP ADMIRAL SYSTEMS

1. Review accompanying pump-motor and filter chamber Operating Instructions to assure proper start-up and operation.
2. Install all hoses (disconnected for shipping) and tighten hose clamps. Siphon breakers in the suction line to the pump and filter discharge to the tank should be installed as a further precautionary measure to limit and minimize the amount of liquid lost by back siphoning. An effective siphon breaker is a small hole drilled in suction & discharge lines approximately 2" to 4" below normal solution level.
3. Verify that filter chamber cover is securely sealed to shell and vent is closed.
4. Secure hoses to prevent their falling out or pumping out the tank.

START-UP

1. Energize motor and verify correct direction of rotation. If incorrect, refer to pump Operating Instructions.
2. With motor energized and solution flowing through system, carefully open vent to bleed air from filter chamber.

CHANGING FILTER CARTRIDGES

NOTE: For bag chambers, refer to Operating Instructions.

SINGLE COLUMN CHAMBER

1. Stop pump and remove four plastic knobs at cover and lift cover straight up.
2. Remove top used cartridge by lifting straight out. If several 10" cartridges are stacked, the lower cartridges may be removed by lifting the crosspost over which the cartridges are stacked. A ring at the bottom of the crosspost lifts all cartridges.
3. Replace with 10", 20", 30" or 40" cartridges, as appropriate.
IMPORTANT: Use gasket spacer between cartridges if stacked height is insufficient for proper closure and cartridge seal, or if used cartridges have been cleaned and replaced.
4. Replace cover threaded studs, check engagement of cover groove, tighten plastic knobs.

MULTIPLE COLUMN CHAMBER

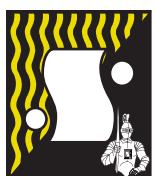
1. Stop pump and loosen four tee handles at cover and lift cover straight up. Remove top seat and spring assemblies.
2. Remove top used cartridge by lifting straight out. If several 10" cartridges are stacked the lower cartridges may be removed by lifting the crosspost over which the cartridges are stacked. A pin at the bottom of the crosspost lifts all cartridges.
3. Replace with 10", 20", 30" or 40" cartridges, as appropriate.
IMPORTANT: Use gasket spacer between cartridges if stacked height is insufficient for proper closure and cartridge seal, or if used cartridges have been cleaned and replaced.
4. Replace top seat and spring assemblies and cover on shell, check engagement of cover groove, tighten tee handles.

REPLACEMENT PARTS

Refer to Pump Parts List and Filter Chamber Parts List for replacement parts and recommended spare parts.

REPLACEMENT FILTER CARTRIDGES

Refer to product bulletin for information and pricing.



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