



# Fluid Service

## OFCS & OFCD Series Manual

### Connection the OFCS/OFCD Series to the fluid reservoir

Note: Hoses and connector tubes are supplied with the OFCS/OFCD.

1. Connect the supplied inlet hose to the inlet port on the OFCS/OFCD. Then connect the inlet hose to the reservoir, or connect the connector tube to the inlet hose and place tube inside reservoir opening.
2. Connect the supplied outlet hose to the outlet port on the OFCS/OFCD. Then connect the outlet hose to the reservoir, or connect the connector tube to the outlet hose and place tube inside reservoir opening.
3. Check that the power source being utilized complies with the requirements of the filtration cart motor before actual hook-up.
4. Switch on the Mobile Filtration System's motor. Visually check that the fluid is actually being pumped through the OFCS/OFCD and out of the outlet hose.

### Achieving the best Filtering Efficiency

1. In order to ensure the proper cleaning of the reservoir fluid, position the ends of both the inlet and the outlet hose or tube as far apart as possible inside the reservoir - preferably on different sides of the existing baffles.
2. Cycle the hydraulic system thoroughly in order to flush the contaminated fluid from the lines and system components so all the fluid in a system will be filtered through the OFCS/OFCD.
3. Operate the Mobile Filtration System until the total volume of the system fluid passes through the OFCS/OFCD. Cycle the reservoir fluid through the OFCS/OFCD six to eight times to insure the total system fluid is filtered completely.

### Removing elements from the Filter housing

Equipment required: 1 ½" box end or socket wrench, a container to hold dirty elements and fluid from the filter housing, and a small cup of grease.

1. Remove filter housing cap using the 1 ½" wrench and inspect the O-ring.
2. Remove element(s), compression spring and spring plate. Separate elements (if there are stacked elements) and retain the element connector. Discard the elements with synthetic or cellulose media. Clean thoroughly and dry metal re-usable elements.
3. Drain Filter Housing.

### Installing new or cleaned elements

1. Lubricate grommets located at each end of the replacement element(s).  
NOTE: DO NOT USE GREASE LUBRICANT IF FIRE RESISTANT FLUIDS ARE UTILIZED IN THE SYSTEM.
2. If required, install connectors between elements. Then install spring plate and compression spring.
3. Install element(s) into the filter housing, making sure elements are positioned correctly on the bushing in the porting head.
4. Secure filter cap to filter housing using the 1 ½" wrench.  
NOTE: Filter elements require change-out when the Dirt Alarm is registering in the red area.

### Servicing the Strainer

Under normal operating conditions, the strainer should be removed from the line, cleaned and re-installed after every 100 hours of operation. The strainer should be cleaned more often however, if the fluid is heavily contaminated.

## Precautionary Measures

- Never start up or run a dry pump. This will cause galling, seizing or destructive wear between the rotors, end plates and casting.
- The Mobile Filtration System is designed for the transfer and filtering of hydraulic and lubrication oils only. It is not to be used for highly volatile fluids such as gasoline or paint thinners. Please contact factory for uses other than those specified.
- The maximum operating temperature for the OFCS/OFCD is 150°F. Higher temperatures could damage the hoses.
- Since minimum repair service is generally required on these units, it is recommended that any failed parts be replaced with new parts. See the following parts lists.
- Electric motor warnings for the 3/4 and 1 1/2 HP models are as follows:
  - 3/4 HP electric motor draws 10.6/5.3 amps at 115/230 volts, 60 Hz at full load. Starting current is approximately 70/35 amps at 115/230 volts, 60 Hz. A proper circuit breaker should be installed to protect the motor and meet national and local electric codes. Recommended size for an extension cable is 12-3 conductor with a maximum length of 25 feet.
  - 1 1/2 HP electric motor draws 12.6/6.3 amps at 115/230 volts, 60 Hz at full load. Starting current is approximately 88/44 amps at 115/230 volts, 60 Hz. A proper circuit breaker should be installed to protect the motor and meet national and local electric codes. Recommended size for an extension cable is 12-3 conductor with a maximum length of 25 feet.

## Replacement Elements

Model Code	Part Number	Model Code	Part Number
5.03.09D03BN	02060528	5.03.27D03BN	02065003
5.03.09D03BN/-V	02056713	5.03.27D03BN/-V	02082855
5.03.09D05BN	02060529	5.03.27D05BN	02065004
5.03.09D05BN/-V	02056714	5.03.27D05BN/-V	02073488
5.03.09D10BN	02060530	5.03.27D10BN	02065005
5.03.09D10BN/-V	02056715	5.03.27D10BN/-V	02056493
5.03.09D20BN	02060531	5.03.27D20BN	02065006
5.03.09D20BN/-V	02056716	5.03.27D20BN/-V	TBD
5.03.09D10AM	02075265	HK/HJ (connector element)	02056730

## Replacement Parts

Model Item	Component	7 gallon Part Numbers	14 gallon Part Numbers
1	Electric Motor	LF-6544	LF-6472
2	Pneumatic Motor	GAST4AM-NRV-50C	GAST6AM-NRV-11A
3	Vane Pump Cartridge	LF-6468V	LF-6478V
4	Strainer	LF-6570	LF-6561
5	Suction Hose	LF-6545	LF-6522
6	Discharge Hose	LF-6546	LF-6521
7	Wand	LF-6558	LF-6559
8	Bypass Valve	A-LF-2427-30	
9	D5 Indicator	A-LF-2547	

### Notes:

OFCS-P & OFCD-P models use a pneumatic motor - see item 2 above. The OFCS/OFCD comes standard with Polyethylene clear hydraulic hoses.

OFCS systems feature a single filter housing. OFCD systems offer dual filters which can be used for both particulate and water contaminant removal.