HYDAC INTERNATIONAL

Mobile Filter System - Basic Cart | OFCDBC
Service Manual

Exclusion of Liability

We have used our best endeavours to ensure the contents of this document, however, errors cannot be ruled out. Consequently, we accept no liability for such errors as may exist in this document, nor for any consequential loss.

The information in this operation instructions relates to the operating conditions and applications described. For applications or operating conditions not described, please contact the relevant technical department. Subject to technical modifications.

The content of this manual is checked regularly. Any corrections required will be incorporated in subsequent editions.

This manual is subject to technical modifications without prior notice.

Note:
This symbol marks an important note for the proper use of this equipment. The non-observance of these notes can lead to product damage and/or personal injury.

L-4266 | Created 7.2013

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OPERATING INSTRUCTIONS

Preface

Be careful to minimize flow restrictions. Do not close any downstream valve during normal operation without adding external relief protection. A resulting pressure spike could cause filter damage and/or personal injury. If a downstream valve must be used, this valve must be locked in the open position during OFCDBC operation.

The Mobile Filtration System is to be used solely for the purpose of providing auxiliary filtration. It is not intended to be used as a power unit or in conjunction with other components for the purpose of performing work.

- 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 volative fluids such as gasoline or paint thinners. Please contact factory for uses other than those specified.
- The maximum operating temperature for the OFCDBC 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 1 HP model are as follows:

  - 1 HP electric motor draws 13.6 amps at 115 volts, 60 Hz at full load. Starting current is approximately 16 amps at 115 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.
- The OFCDBC should not be used in areas where there is the potential to get sprayed with water or used/stored outdoors in the elements without some sort of protective covering. This could lead to a potential electrical shock or damage the motor
- Before moving the filter cart remove as much oil from the drip pan as possible to prevent spilling oil on surfaces during transport.

1. Connecting the OFCDBC to the fluid reservoir

Note:
Hoses and connector tubes are supplied with the OFCDBC.

1. Connect the supplied inlet hose to the inlet port on the OFCDBC. 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 OFCDBC. 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 OFCDBC and out of the outlet hose.

2. 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 OFCDBC.

3. Operate the Mobile Filtration System until the total volume of the system fluid passes through the OFCDBC. Cycle the reservoir fluid through the OFCDBC six to eight times to insure the total system fluid is filtered completely.

3. Removing elements from the GH housing

Equipment required: 15/16" box end or socket wrench, a container to hold dirty elements and fluid from the filter housing.

1. Drain the OFCDBC of as much oil as possible. Shut down system and allow it to cool and depressurize before attempting to change the filter element
2. Remove the bowl from the head using 15/16"socket.
3. Once bowl is free of the head, discard bowl oil appropriately.
4. Remove the element from the bushing in the head by pulling down on it.
5. Discard dirty element appropriately

3.1 Installing new or cleaned elements

1. Insert new, clean element into the busing and push it up into the bushing.
2. Place the bowl around the element and insert it into the bushing
3. Twist the bowl clockwise until hand tight.
4. Use a torque wrench with a 15/16"socket to tighten the bowl to 30 ft-lbs.

NOTE: Filter elements require changeout when the Dirt Alarm is registering in the red area

4. Replacement Parts List

Model - OFCDBC Standard Units (1000 SUS)		10 gallon
Item	**Component**	**Part Numbers**
1	Elements	02099361; Element OFCDBC 003 02099362; Element OFCDBC 005 02099363; Element OFCDBC 010 02099364; Element OFCDBC 020 02099365; Element OFCDBC AM
2	Electric Motor	A-ES-10283
3	Gear Pump	RFS-302
4	Suction Hose	HS-10300
5	Discharge Hose	HS-10300
6	Wand	LF-6659
7	Visual Auto-Reset Indicator	A-LF-2547
Notes: 1) The OFCDBC comes standard with polyethelene clear hydraulic hose. 2) The OFCDBC system offers dual filters which can be used for both particulate and water contaminant removal. 3) Please refer to parts list drawing #D-12047 for a complete parts list and illustration of replacement parts.		

5. Service

If you have any questions, please contact our Customer Service Department or your HYDAC agent / distributor. If after eliminating possible errors, the device still does not function correctly, it must be checked by the manufacturer.

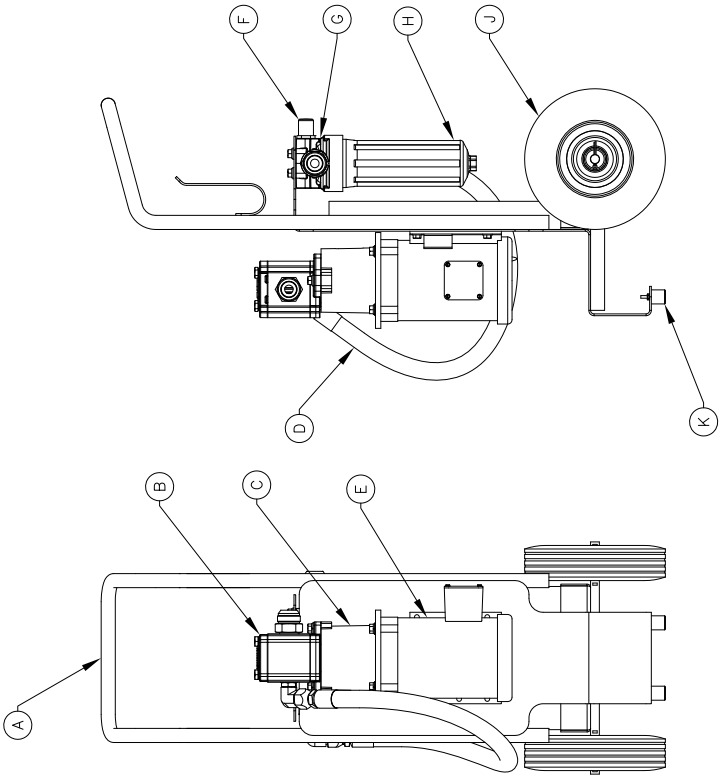
Shipping Instructions

Shipping Address for Recalibration and Repair Work:

HYDAC Technology Corp,
580 West Park Road
Leetsdale, PA 15056-1025
USA
Phone: 610.266.0100
Fax: 610.266.5825

Appendix A: OFCDBC Parts List Drawing

ITEM NO.	QTY.	DESCRIPTION	PART NUMBER
A	1	FRAME, OFCDBC FILTER CART	A-FR-10092
B	1	PUMP, GEAR, 9.5GPM, S12, S10	RFS-302
C	1	ADAPTOR, HOUSING, 56/145TC FRAME	RFS-123
D	1	HOSE, 0.75", FJX-FJX, 25" LG	HS-10300
E	1	MOTOR, 1HP, 115V/1/60, FOR 10GPM PUMP	A-ES-10283
F	2	DIFFERENTIAL VISUAL POP-UP INDICATOR	00303191
G	2	HEAD, FILTER MFX-S12-DO	GF-109
H	2	BOWL, 9.1" ELEMENT	3401613
J	2	WHEEL, SEMI-PNEUMATIC	LF-6510
K	2	BUMPER, FILTER CART	A-FR-10092



PARTS LIST DRAWING OF OFCDBC FILTER CART

HYDAC

REV. DRAWING NO. D- 122235

SCALE: 1/4=1 SHT. 1 OF 1

MATERIAL:

DEC. TOLERANCES ALL DIMENSIONS IN INCHES [MM] REV. CARD:
2 PL. ± APP. A. SEITZ 07/16/13 REV. DATE:
3 PL. ± CHK. A. SEITZ 07/16/13 B/M
ANG. ± DWN. D. CONDER 07/16/13 P/N

HYDAC INTERNATIONAL

Internet: www.hydac.com
E-Mail: filtersystems@hydac.com