

# INSTRUCTION MANUAL

OPERATION AND MAINTENANCE

## MUDSUCKER

CUSTOMER	:	
PLANT	:	
PURCHASE ORDER	:	
MODEL #	:	CS101, CS102

### **WARNING**

FOR YOUR PERSONAL SAFETY, PLEASE READ THIS MANUAL  
CAREFULLY AND COMPLETELY BEFORE OPERATING THIS EQUIPMENT

MSC FILTRATION TECHNOLOGIES, INC.  
ENFIELD, CT 06082

# **DANGER - HIGH VOLTAGE**

BE CERTAIN TO HAVE ALL ELECTRICAL POWER DISCONNECTED WHEN MAKING ANY ELECTRICAL ADJUSTMENTS. EQUIPMENT MUST BE INSTALLED AND CONNECTED ACCORDING TO LOCAL CODES FOR ELECTRICAL EQUIPMENT AND THE NATIONAL ELECTRICAL CODE AS A MINIMUM FOR SAFE OPERATION.

## **LOCKOUT / TAGOUT**

### TABLE OF CONTENTS

1.0	SPECIFICATIONS
2.0	INSTRUCTION MANUAL
2.1	INSTALLATION
2.2	SYSTEM SPECIFICATIONS
2.3	START-UP / OPERATION
2.4	FILTER BAG CHANGEOUT
2.5	SPARE PARTS LIST
3.0	SYSTEM PICTURE
4.0	WARRANTY

**SECTION #** \_\_\_\_\_ : **2.0**  
**MODEL #** \_\_\_\_\_ : **CS-101, CS-102**

## **INSTRUCTION MANUAL**

### **2.1 INSTALLATION**

- LOCATE MUDSUCKER ON SOLID AND LEVEL GROUND
- MUDSUCKER IS PROVIDED WITH ½" COMPRESSED AIR REGULATOR  
CUSTOMER IS RESPONSIBLE FOR DISCONNECT FITTING
- PROVIDE COMPRESSED AIR LINE TO UNIT
- ATTACH SUCTION AND DISCHARGE HOSES USING SUPPLIED QUICK  
DISCONNECT COUPLINGS

### **2.2 SYSTEM SPECIFICATIONS**

SYSTEM FLOW RATES:

CS-101	15 GPM
CS-102	25 GPM

FLOW RATES ARE ADJUSTABLE BY SLOWING OR INCREASING VOLUME OF COMPRESSED AIR GOING TO THE PUMP. THIS IS ACCOMPLISHED USING THE PROVIDED NEEDLE VALVE LOCATED AFTER THE AIR REGULATOR.

SHOP AIR REQUIREMENT:      50-100 psi      3 SCFM

DIMENSIONS:	CS-101	19" X 29" X 42" HEIGHT
	CS-102	19" X 29" X 54" HEIGHT

### **2.3 OPERATION**

TO BEGIN OPERATION OF THE MUDSUCKER MODELS CS-101 AND 102, SIMPLY PLACE THE SUCTION (INLET) HOSE AND DISCHARGE (OUTLET) HOSE INTO THE COOLANT/OIL SUMP TO BE CLEANED. IT IS BEST TO PLACE THESE HOSES AT OPPOSITE ENDS OF THE COOLANT SUMP.

ADJUST THE NEEDLE VALVE FOLLOWING AIR REGULATOR TO THE DESIRED FLOW RATES. ALLOW THE MUDSUCKER TO CIRCULATE ON THE SUMP UNIT UNTIL IT IS CLEAN.

MOVE MUDSUCKER TO THE NEXT SUMP AND REPEAT OPERATION.

### **2.4 FILTER CHANGEOUT/REPLACEMENT**

THE MUDSUCKER IS PROVIDED WITH 5 MICRON FILTER BAGS. SEE SPARE PARTS LIST IN THE MANUAL FOR OTHER AVAILABLE MICRON RATINGS AND BAG TYPES.

RUN THE MUDSUCKER PUMP UNTIL IT IS RUNNING VERY SLOW OR STOPS. THIS CONDITION IS CALLED DEAD-HEADED. CLOSE THE NEEDLE VALVE, SUPPLING AIR TO THE PUMP.

OPEN THE 1/4" CONNECTION LOCATED ON THE LID OF THE HOUSING AND VENT THE HOUSING TO ATMOSPHERIC PRESSURE.

LOOSEN ALL THREE OF THE SWING BOLT CLOSURES AND "SWING" LID TO THE SIDE OF THE VESSEL.

REMOVE THE FILTER BAG; REPLACE WITH A NEW BAG OR CLEANED BAG. MAKE SURE THE BAG IS SEALED PROPERLY IN THE BASKET. REPLACE LID, TIGHTEN SWING BOLTS AND REPLACE 1/4" FITTING ON LID AND START PUMP.

THE DOUBLE DIAPHRAGM AIR PUMP CAN BE RUN DRY OR DEAD-HEADED WITH NO DAMAGE TO THE PUMP.

## **2.5 SPARE PARTS**

<u>DESCRIPTION</u>	<u>PART NUMBER</u>
PUMP	E1AA6
HOSES	SU-CL075-WQDC

AIR REGULATOR	AZK90
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### FILTER BAGS

#### CS-101

##### MICRON RATING

1	6-KE1
5	6-KE5
10	6-KE10
25	6-KE25
50	6-KE50
100	6-KE100
OIL ABSORBENT BAG	6-OC25

#### CS-102

##### MICRON RATING

1	12-KE1
5	12-KE5
10	12-KE10
25	12-KE25
50	12-KE50
100	12-KE100
OIL ABSORBENT BAG	12-OC25

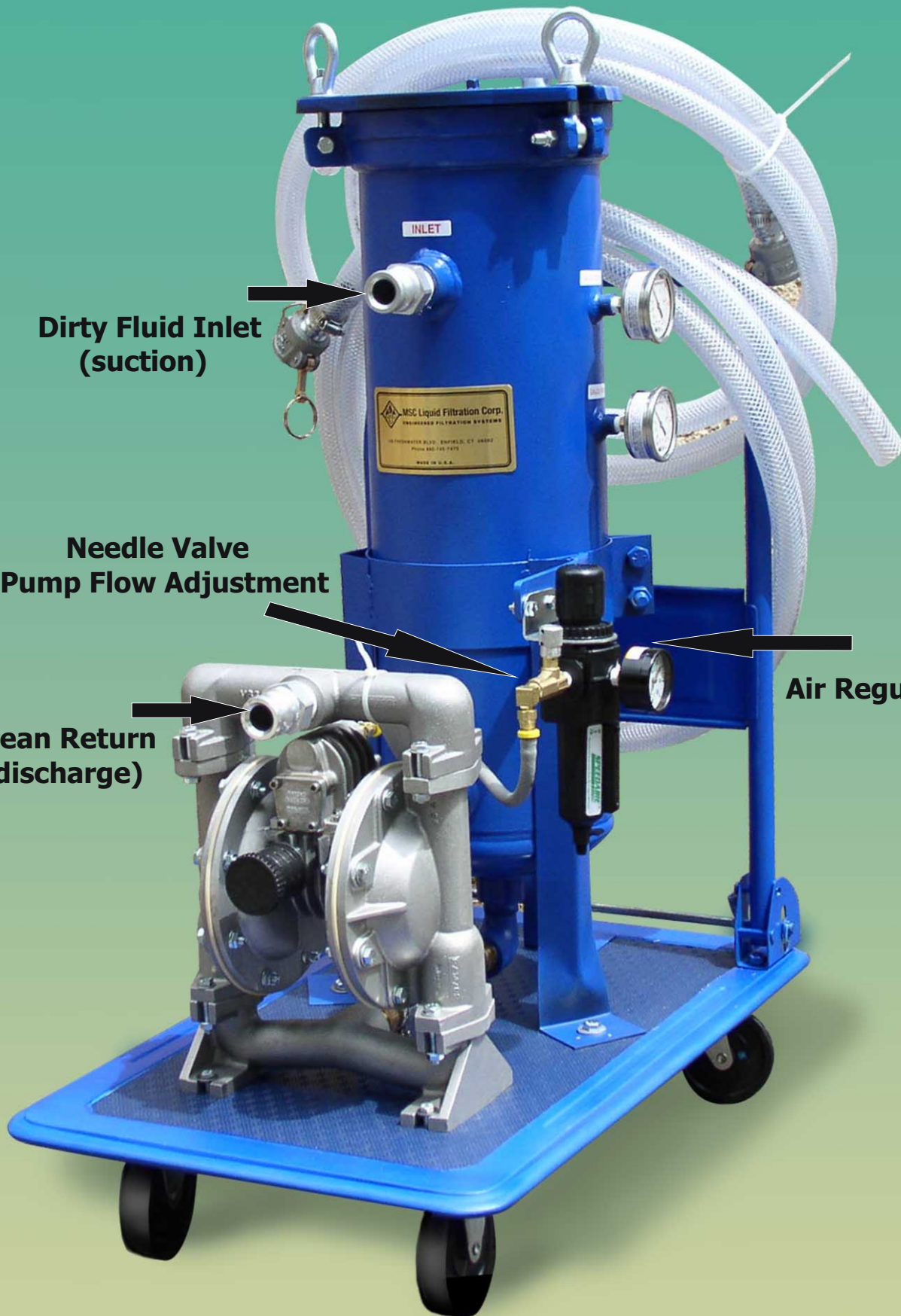
**Model CS-101**

**Dirty Fluid Inlet  
(suction)**

**Needle Valve  
Pump Flow Adjustment**

**Clean Return  
(discharge)**

**Air Regulator**



## **4.0 WARRANTY**

### **WARRANTY CERTIFICATE**

MSC FILTRATION TECHNOLOGIES, INC., WARRANTIES ALL THE PARTS MANUFACTURED BY MSC FILTRATION TECHNOLOGIES, INC. TO THE ORIGINAL PURCHASER AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP UNDER NORMAL USE FOR A PERIOD OF (1) ONE YEAR.

PURCHASED COMPONENTS WILL CARRY ORIGINAL MANUFACTURERS WARRANTY.

PUMP SEALS, GASKETS, FILTER ELEMENTS, ELECTRIC BULBS AND FUSES ARE NOT WARRANTED.

ALSO PARTS WHICH HAVE BEEN SUBJECTED TO LACK OF MAINTENANCE, NEGLIGENCE, DAMAGE BY ACCIDENT OR TRANSIT WILL NOT BE COVERED UNDER THIS WARRANTY.

ANY LIABILITY FOR CONSEQUENTIAL AND INCIDENTAL DAMAGES IS EXPRESSLY DISCLAIMED. IN ALL EVENTS THE LIABILITY IS LIMITED TO AND SHALL NOT EXCEED THE PURCHASE PRICE PAID.

ANY FIELD REPAIRS OR ALTERATIONS AND THE RELATED COST HAS TO BE APPROVED BY MSC FILTRATION TECHNOLOGIES, INC PRIOR TO SUCH REPAIRS AND OR ALTERATIONS.

DEFECTIVE COMPONENTS WILL BE RETURNED TO MSC FILTRATION TECHNOLOGIES, INC., REPLACEMENTS OF SUCH COMPONENTS WILL BE SHIPPED BACK TO THE CUSTOMER WITHIN (48) HOURS. THE CUSTOMER WILL BE RESPONSIBLE FOR ALL FREIGHT CHARGES.