

## **OPERATION MANUAL & PARTS LIST**

# MODELS: SE15 HORIZONTAL TANK SERIES 90, 140, & 200 GALLON



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## **SECTION 1 – SAFETY INFORMATION**

### 1.1 - CAUTION



THIS EQUIPMENT IS INTENDED FOR USE WITH STANDARD MACHINE-TOOL COOLANT (WATER-BASE AND CUTTING OILS) ONLY. IT SHOULD NOT BE USED WITH FLAMMABLE FLUIDS (I.E. FUELS, PAINT, SOLVENTS, ETC.), CORROSIVE, TOXIC OR REACTIVE MATERIALS. DO NOT USE IN EXTRA-HIGH TEMPERATURE OR SPARK-HAZARD ENVIRONMENTS (I.E. OVENS WELDING AREAS, ETC.). CLEAN TANK THOROUGHLY ON A FREQUENT BASIS, ESPECIALLY WHEN PUMPING DIFFERENT TYPES OF COOLANT AND SOLIDS OF DIFFERENT MATERIAL. WE RECOMMEND SEPARATE TANK UNITS FOR DIFFERENT SERVICES AND SEGREGATED HANDLING OF DIFFERENT COOLANTS.

□ NO FLAMMABLE FLUIDS/MATERIALS WITH A FLASH POINT UNDER 200°F.

- □ NO TOXIC MATERIALS.
- □ NO CORROSIVE MATERIALS WITH PH LESS THAN 5 OR GREATER THAN 12.
- □ NO REACTIVE MATERIALS.

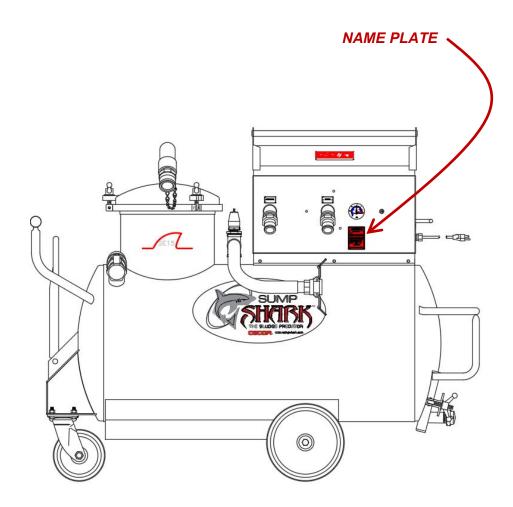
#### **1.2 – PRECAUTIONS**

- □ READ THROUGH THE "OPERATIONS MANUAL" COMPLETELY BEFORE ATTEMPTING TO OPERATE THE MACHINE.
- □ CLEANOUT, POT LID, INLET CAP AND HOSES MUST BE IN PLACE AND TIGHTLY SECURED BEFORE OPERATION IN THE DISCHARGE MODE.
- TANK DISCHARGE PRESSURE MUST NOT EXCEED 10 PSI. REGULATOR AND RELIEF VALVES ARE SET BEFORE SHIPMENT AND SHOULD NOT BE CHANGED AS THE USE OF EXCESSIVE PRESSURE COULD CAUSE SERIOUS INJURY OR DAMAGE. OPERATING DISCHARGE PRESSURE IS 6 PSI.
- □ DO NOT ATTEMPT TO OPEN POT LID, CLEANOUT OR BLEED-OFF CAP BEFORE RELIEVING PRESSURE IN THE TANK.
- □ BLOCK WHEELS OF THE MACHINE TO PREVENT UNINTENTIONAL MOVEMENT.
- □ WEAR SAFETY GOGGLES TO PROTECT EYES FROM SPLASHING LIQUIDS.
- KEEP HANDS AND FINGERS CLEAR OF POT OPENING WHEN REMOVING OR REPLACING FILTER BASKET OR FILTER ASSEMBLY.

## **SECTION 2 – THE SUMP CLEANER**

#### 2.1 – UNIT IDENTIFICATION

WHEN ORDERING PARTS OR ASKING QUESTIONS REGARDING YOUR SUMP SHARK, IT IS IMPORTANT TO HAVE THE MODEL AND SERIAL NUMBER OF THE UNIT. THE MODEL AND SERIAL NUMBER CAN BE FOUND ON THE SHARK'S NAMEPLATE LOCATED ON THE BACK PANEL OF THE PUMP BASE.

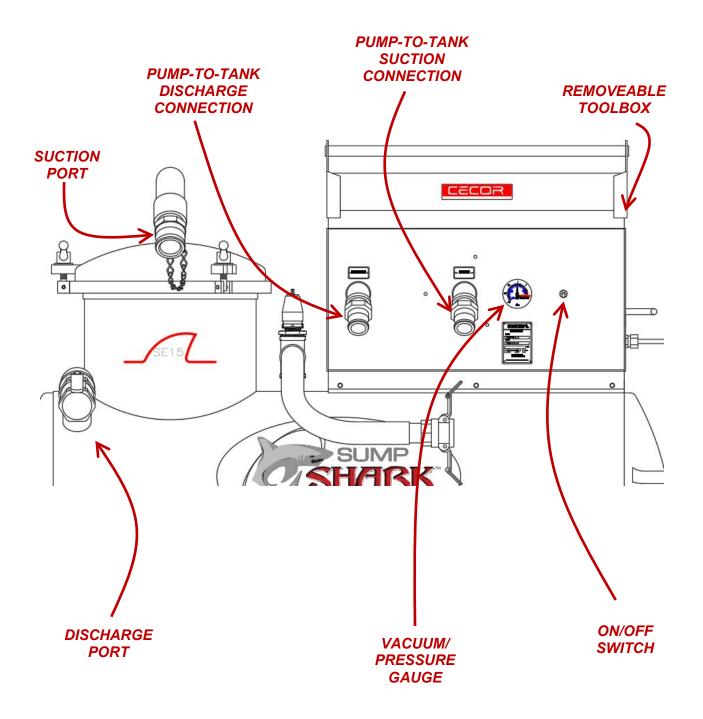


#### 2.2 – MODEL & SERIAL NUMBER

THE MODEL NUMBER IDENTIFIES YOUR SHARK AND INDICATES STANDARD FEATURES ON YOUR MACHINE. THE SERIAL NUMBER IDENTIFIES YOUR SPECIFIC SHARK AND WILL HELP IDENTIFY ANY SPECIAL FEATURES THAT MAY BE UNIQUE TO YOUR SUMP SHARK. THE SERIAL NUMBER IS LOCATED ON THE NAMEPLATE.

CECOR filter cartridges bear US patent number 4,397,745
MODEL
SE15-90PTL-H
SERIAL
SE15-###-##
PSI
110 <b>VOLT</b> 60 <b>HZ</b> 1 <b>PH</b>
1000 James Ave. Belleville, WI 53508
⊖ 608-845-6771 www.cecor. <i>net</i> ⊖

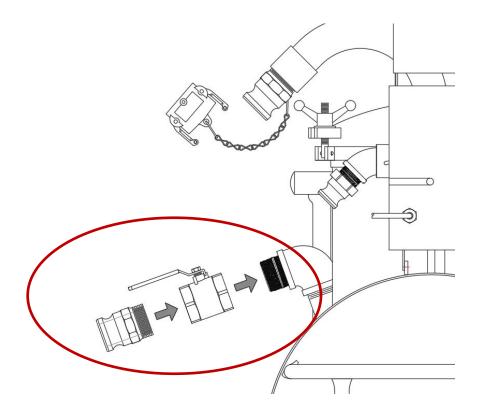
#### **2.3 – SUMP CLEANPER FEATURES**



## **SECTION 3 – INSTALLATION**

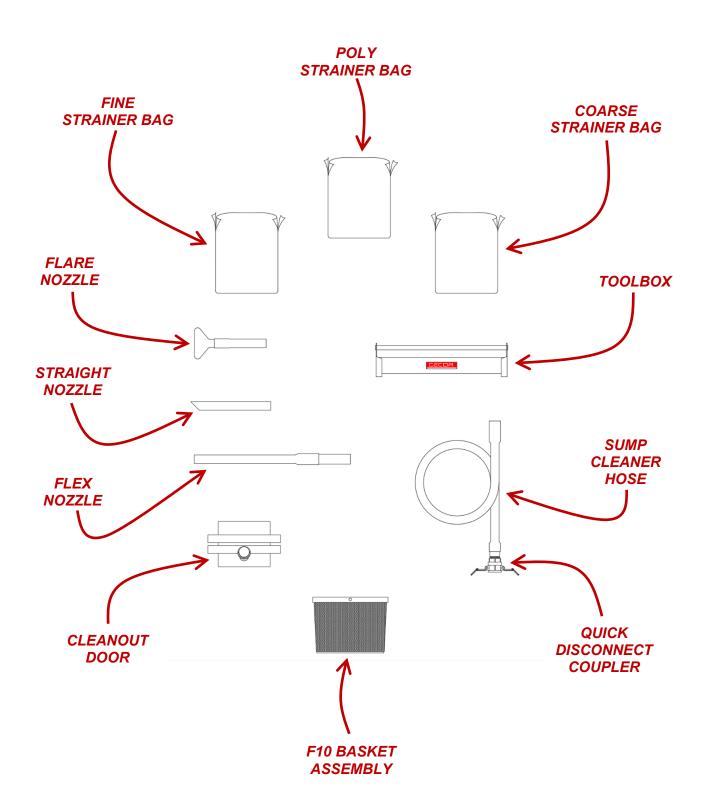
#### 3.1 – ASSEMBLE DISCHARGE CONNECTION

FOR SHIPPING PURPOSE, SOME MODELS MAY REQUIRE THE INSTALL OF THE DISCHARGE VALVE AND QUICK DISCONNECT ADAPTER. USE PIPE SEALANT ON ALL JOINTS AND TIGHTEN SECURELY.



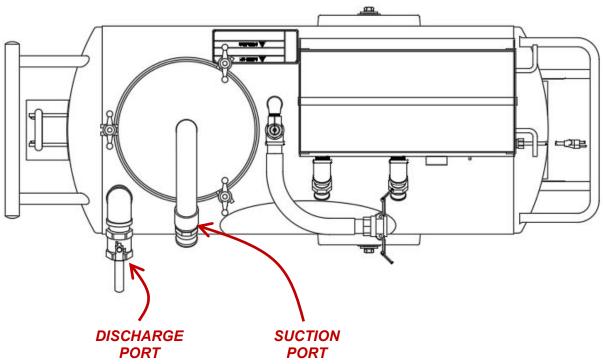
#### 3.2 – LOOSE ITEMS

SOME ITEMS MAY BE PACKAGED IN A BOX LOCATED ON THE SHIPPING PALLET. PACKAGES WITH FILTER BASKET OR FILTER ASSEMBLIES WILL HAVE FILTERS INSTALLED. PLEASE REVIEW YOUR PACKING LIST TO SEE WHAT ADDITIONAL ITEMS YOU WILL BE RECEIVING.



#### **3.3 – INITIAL STARTUP**

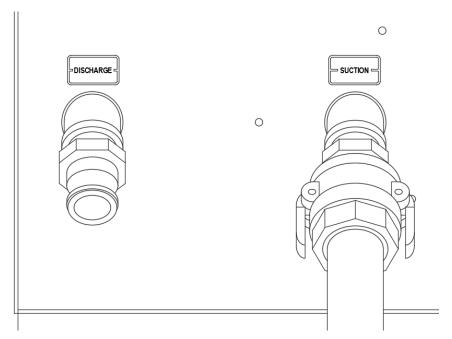
1. CLOSE AND SECURE ALL TANK SUCTION AND DISCHARGE PORTS.



2. PLUG IN POWER CORD TO PROPER ELECTRICAL CIRCUIT. SEE NAMEPLATE.

	CECOR filter cartridges bear US patent number 4,397,745	
	MODEL SE15-90PTL-H SERIAL SE15-###-##	
$\langle$	PSI   110 VOLT 60 HZ 1 PH	>
	1000 James Ave. Belleville, WI 53508	
	_ 608-845-6771 www.cecor. <i>net</i> _	

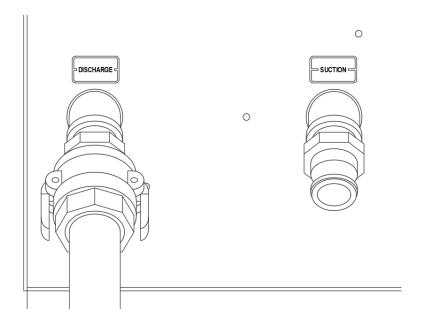
3. **RUN THE UNIT IN "SUCTION" MODE**. WITH POWER SWITCH IN THE OFF, POSITION CONNECT THE PUMP-TO-TANK HOSE TO THE SUCTION CONNECTION.



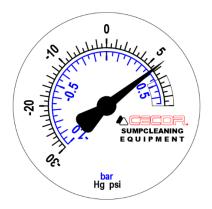
4. TURN POWER SWITCH ON. THE VACUUM READING SHOULD INCREASE TO 10-13" HG.



5. TURN SWITCH OFF. THE NEGATIVE PRESSURE IN THE TANK WILL CAUSE THE PUMP TO ROTATE BACKWARDS UNTIL THE PRESSURE EQUALIZES. 6. **RUN THE UNIT IN "DISCHARGE" MODE**. CHANGE THE PUMP-TO-TANK HOSE TO DISCHARGE CONNECTION.



7. TURN SWITCH ON. THE PRESSURE READING SHOULD BE 5-7 PSI.

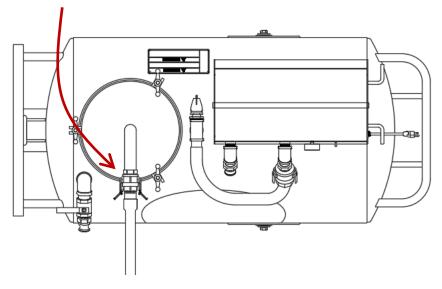


- 8. TURN SWITCH OFF. THE POSITIVE PRESSURE IN THE TANK WILL CAUSE THE PUMP TO ROTATE BACKWARDS UNTIL THE PRESSURE EQUALIZES.
- 9. MACHINE IS READY TO USE.

## **SECTION 4 – OPERATION**

#### 4.1 – CLEANING A SUMP

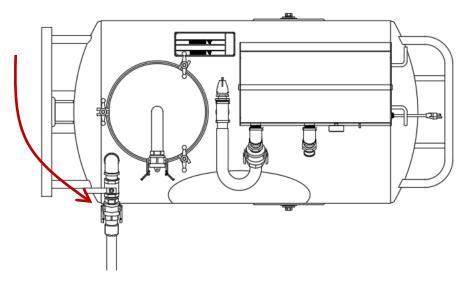
1. ATTACH THE SUMP CLEANER HOSE TO THE SUCTION PORT, AND INSERT SUCTION TOOL INTO HOSE END.



- 2. RUN UNIT ON SUCTION MODE. (SEE INITIAL STARTUP 3.5, STEP 3.)
- 3. WHEN VACUUMING OUT THE SUMP, ATTACK THE SOLIDS FIRST. POSITION THE SUCTION TOOL IN THE AREAS THAT ARE PRIMARILY SOLIDS. OCCASIONALLY MOVE THE SUCTION TOOL FROM THE SOLID PARTICULATE IN THE SUMP BOTTOM TO A PRIMARILY FLUIDIC AREA. THIS ACTION WILL CLEAR THE HOSE OF SOLIDS REDUCING THE CHANCES OF POSSIBLY PLUGGING THE HOSE.
- 4. WHEN THE TANK IS FULL, THE FLOAT CONTROL (LOCATED INSIDE THE SUMP CLEANER) WILL CUT OFF SUCTION TO THE PUMP ISOLATING THE PUMP FROM THE TANK (PUMP WILL KEEP RUNNING). WHEN THIS HAPPENS, THE VACUUM READING WILL FALL TO ZERO INDICATING THE TANK NEEDS TO BE EMPTIED.
- 5. WHEN THE FILTER IS FULL OR BLINDED, THE VACUUM/PRESSURE GAUGE WILL READ 10"<sup>+</sup> HG, BUT THERE WILL BE NO SUCTION AT THE NOZZLE INDICATING THE FILTER NEEDS TO BE EMPTIED.

#### 4.2 – DISCHARGING FLUID FROM THE SUMP CLEANER

1. ATTACH THE SUMP CLEANER HOSE TO THE DISCHARGE PORT, AND CAP THE SUCTION PORT.



- 2. RUN UNIT ON DISCHARGE MODE. (SEE INITIAL STARTUP 3.5, STEP 6.)
- 3. POINT NOZZLE AT THE TARGET WHERE THE FLUID IS TO BE DISPENSED, SLOWLY OPEN DISCHARGE VALVE. SLUGS OF AIR WILL PASS THROUGH HOSE WHEN TANK APPROACHES EMPTY. THESE SLUGS CAN CAUSE ERRATIC FLUID FLOWS, BE PREPARED TO SHUT OF DISCHARGE VALVE WHEN THIS OCCURS.

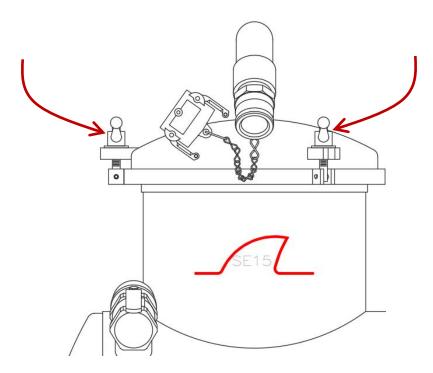
#### 4.3 – FILTER

- 1. FILTERING OF THE FLUID IS SPECIFIC TO YOU. SUMP CONDITIONS VARY DUE TO ALL THE VARIABLES THAT OCCUR IN A MACHINE-TOOL SUMP. WE INCLUDE MULTIPLE FILTER BAGS SO YOU CAN FIND WHAT WORKS BEST FOR YOUR APPLICATION. FIRST-CLEANING CAN BE ESPECIALLY DIFFICULT IF IT HAS NOT BEEN DONE ON A REGULAR BASIS. WE SUGGEST STARTING WITH A COARSER BAG. ONCE ON A ROUTINE BASIS, A FINER FILTER CAN BE USED.
- 2. FILTERS ARE REUSABLE AND WASHABLE IN LUKEWARM WATER.
- 3. MAKE SURE THAT PRESSURE IN SUMP CLEANER TANK IS RELIEVED BEFORE EMPTYING FILTER.

#### 4.3.1 - F10 FILTER

#### 4.3.1.1 – EMPTYING FILTER

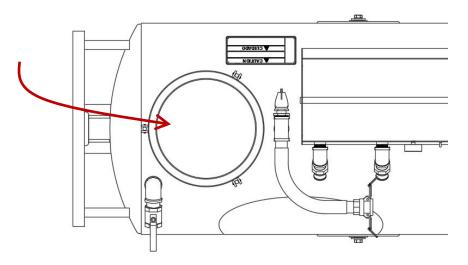
- 1. FOR BEST RESULTS, DISCHARGE LIQUID FROM SUMP CLEANER AND LET FILTER DRAIN FOR A FEW MINUTES BEFORE DUMPING.
- 2. LOOSEN THE THREE (3) WING NUTS HOLDING THE POT LID IN PLACE.



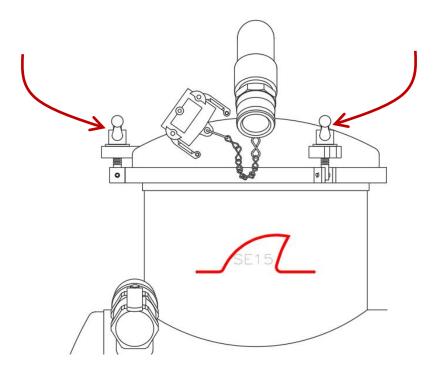
3. REMOVE FILTER. USE THE SIDES OF THE COARSE AND FINE FILTERS TO LIFT. FOR POLY FILTER, USE THE HANDLES ON SIDES AND BOTTOM TO REMOVE.

#### 4.3.1.2 – INSTALLING FILTER

1. PLACE EMPTY FILTER IN METAL PERFORATED BASKET.



- 2. TUCK HANDLES IN BETWEEN FILTER AND PERFORATED BASKET. MAKE SURE COTTON BANDING(POLY-FILTER) OR SIDES OF FILTER ARE LYING ON POT LID GASKET COMPLETELY WITHOUT CREASES.
- 3. RE-INSTALL POT LID AND WING NUTS.

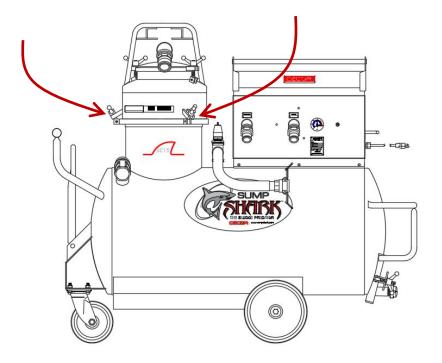


5. WITH UNIT IN SUCTION MODE AND POT LID CAPPED, TURN UNIT ON AND TO TIGHTEN WING NUTS. THIS PROVIDES EQUAL PRESSURE ON THE POT LID GASKET CREATING BEST SEAL.

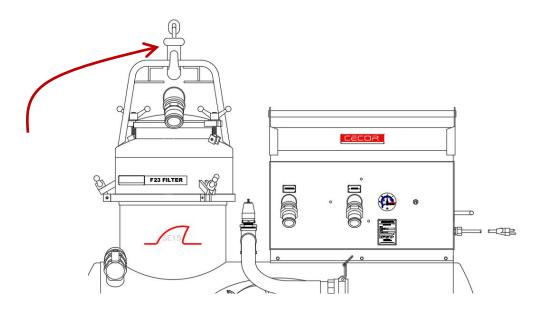
#### 4.3.2 – F23 FILTER

#### 4.3.2.1 – EMPTYING FILTER

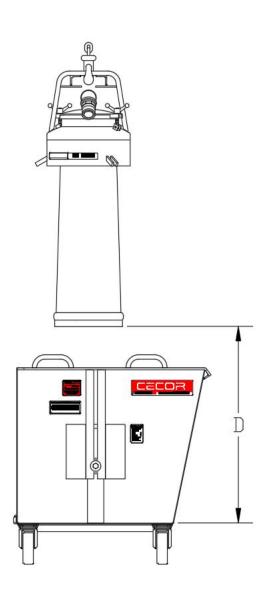
- 1. FOR BEST RESULTS, DISCHARGE LIQUID FROM SUMP CLEANER AND LET FILTER DRAIN FOR A FEW MINUTES BEFORE DUMPING.
- 2. LOOSEN THE THREE WING NUTS ON FILTER ASSEMBLY.



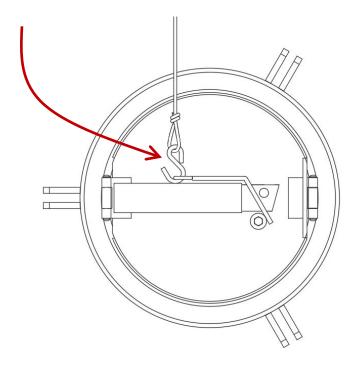
3. LIFT FILTER OUT OF SUMP CLEANER TANK USING HOIST OR FORKLIFT. CAUTION: KEEP HANDS AND FINGERS CLEAR OF POT OPENING IN SUMP CLEANER WHEN REMOVING FILTER!



4. POSITION FILTER ABOVE CONTAINER INTO WHICH THE SLUDGE IS TO BE EMPTIED. DISTANCE BETWEEN BOTTOM OF FILTER AND CONTAINER BOTTOM OR "D" DIMENSION, SHOWN IN FIGURE BELOW, AND SHOULD BE APPROXIMATELY 2 TO 3 FEET ON F23 TO PREVENT DAMAGE TO FILTER SLEEVE WHEN DUMPED. DRAINING FILTER BEFORE POSITIONING AND USING A CONTAINER WITH A DRY BOTTOM AND SUITABLE CAPACITY WILL HELP REDUCE POSSIBLE FILTER SPLASH BACK.



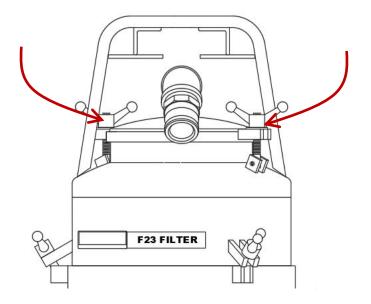
#### 5. ATTACH LANYARD TO TRIGGER ASSEMBLY ON FILTER BOTTOM.



- 6. MOVE TO A SAFE DISTANCE FROM THE DUMPING ZONE (APPROXIMATELY 7 FEET).
- 7. PULL LANYARD TO RELEASE LATCH AND BOTTOM DOOR WILL OPEN DUMPING THE FILTER.
- 8. AFTER FILTER SLEEVE IS EMPTY, ROLL BOTTOM OF SLEEVE UP LOOSELY SO THAT THE BOTTOM END OF SLEEVE WILL BE CLOSED AND CLOSE BOTTOM DOOR.

#### 4.3.2.2 – INSTALLING FILTER

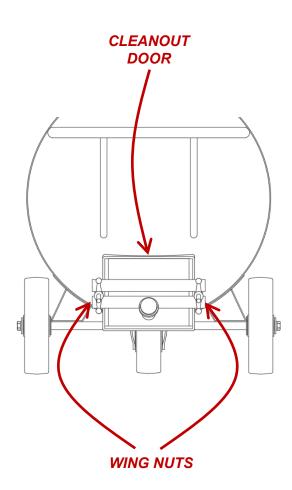
1. LOOSEN THE TWO WING NUTS ON THE FILTER LID AND REMOVE LID.

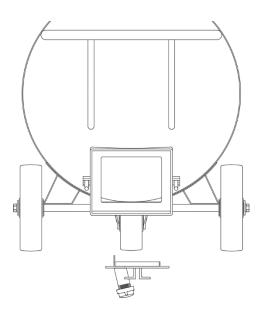


- 2. PLACE BOTTOM END OF FILTER SLEEVE IN FILTER.
- 3. FOLD UPPER 1 ½" OF FILTER SLEEVE COLLAR OUT OVER LIP OF FILTER SO THAT THE GASKET IN LID WILL CLAMP IT IN PLACE.
- 4. REPLACE FILTER LID AND TIGHTEN WING NUTS SECURELY.
- 5. SUSPEND FILTER FROM HOIST OR FORKLIFT. OPEN FILTER DOOR.
- 6. PULL BOTTOM END OF FILTER SLEEVE DOWN AND FOLD UP LOOSELY SO THAT BOTTOM END OF SLEEVE WILL BE CLOSED.
- 7. PLACE FILTER IN SUMP CLEANER AND TIGHTEN THE WING NUTS SECURELY.

#### 4.4 – CLEANING THE SUMP CLEANER

- 1. GENERALLY, DISCHARGING THE FLUID OUT OF THE SUMP CLEANER IS ALL THAT'S NEEDED. SOME SOLIDS WILL ACCUMULATE IN THE BOTTOM OF THE SUMP AND WILL REQUIRE A COMPLETE CLEANOUT OCCASIONALLY.
- 2. THE SE15 HAS AN EASY TO REMOVE CLEANOUT DOOR AND CAN ACCESSED BY LOOSENING THE TWO WINGNUTS.





#### **SECTION 5 – MAINTENANCE**

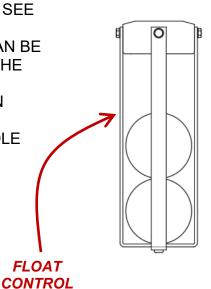
TO GET THE HIGHEST PERFORMANCE FROM YOUR SUMP SHARK, IT IS IMPORTANT TO KEEP IT WELL MAINTAINED. BELOW IS A MAINTENANCE GUIDE THAT WILL KEEP YOUR SUMP CLEANER IN TOP-NOTCH, DEPENDABLE CONDITION. ANY WORN OR DAMAGED PART SHOULD BE REPLACED IMMEDIATELY. CECOR STOCKS SUMP CLEANER PARTS AND MOST CAN BE SHIPPED THE SAME OR THE NEXT DAY. CALL 1-800-356-9042 TO ORDER PARTS.

#### **5.1 – DAILY MAINTENANCE**

- 1. CHECK THE VACUUM/PRESSURE GAUGE TO SEE THAT IT IS OPERATING AND READING CORRECTLY. TANK PRESSURE SHOULD NOT EXCEED PRESSURES OF 7 PSI AND VACUUMS OF 13" HG.
- 2. DEFECTIVE RELIEF VALVES SHOULD BE REPLACED IMMEDIATELY.
- 3. CHECK FOR GASKET LEAKS AND ANY TANK DAMAGE.

#### **5.2 – WEEKLY MAINTENANCE**

- INSPECT TANK FOR SLUDGE BUILD UP. CLEAN TANK IF NECESSARY. WITH SOME APPLICATIONS, THE TANK MAY NEED TO BE CLEANED MORE FREQUENTLY. ALWAYS CLEAN THE TANK BETWEEN PUMPING DIFFERENT TYPES OF FLUIDS OR MATERIALS.
- 2. CLEAN AND INSPECT TANK FLOAT CONTROL. SEE THAT THE FLOAT BALL SEALS AGAINST THE GASKET. THE FLOAT CONTROL ASSEMBLY CAN BE ASSESSED THROUGH THE POT OPENING IN THE SUMP CLEANER.
- 3. CLEAN THE FILTER BAG BY RINSING IT OUT IN LUKEWARM WATER.
- 4. OPERATE THE 8 PSI PRESSURE RELIEF HANDLE TO MAKE SURE IT IS WORKING.



#### 5.3 – MONTHLY MAINTENANCE

- 1. CHECK FOR WEAR ON POT LID & F23 WING NUTS AND STUDS.
- 2. INSPECT SUMP CLEANER HOSE.
- 3. GREASE THE SWIVEL CASTER AND WHEELS.

#### 5.4 – SEMI ANNUAL

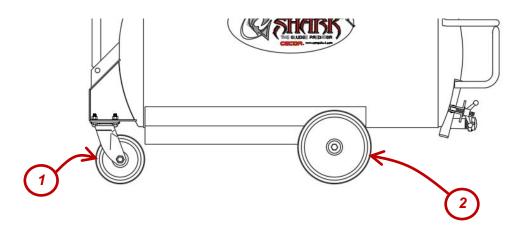
INSPECT MOTOR BRUSHES, REPLACE IF WORN.

## **SECTION 6 – TROUBLESHOOTING**

PROBLEM	POSSIBLE CAUSES	CORRECTIVE ACTION		
Will not start	Power Supply	Make sure the unit is plugged into the proper voltage.		
	Circuit Breaker	Check electrical supply fuses or circuit breaker.		
	Vac Motor Brushes	Check brushes; replace if needed.		
Loss of suction	Vac/pres gauge reads	Check filter. If full, empty. If blinded, clean or go		
	full vacuum but has no	to a coarser filter bag.		
	suction.	Check hose for blockage.		
		Check gauge; replace if needed.		
	Vac/pres gauge reads	Tank is full; empty tank.		
	"0" vacuum. Make sure discharge valve is closed.			
		Air leakage; check gaskets and loose connections.		
		Reset vacuum relief to 13" Hg or replace.		
Will not discharge	Vac/Pres gauge reads	Check hose for blockage.		
	"6" psi.	Check for a build up of fines in tank bottom; clean if necessary.		
	Vac/Pres gauge reads	Check that cap is on suction port.		
	"0" psi.	Air leakage; check gaskets and loose connections.		
Fluid coming out of	Float Control	Check float control; clean or replace.		
"Discharge" Tank-to -Excessive FoamingConsult coolant supplier.Pump connection.Tank TurbulenceCheck to see if air is being sucked in the d		Consult coolant supplier.		
		Check to see if air is being sucked in the discharge.		

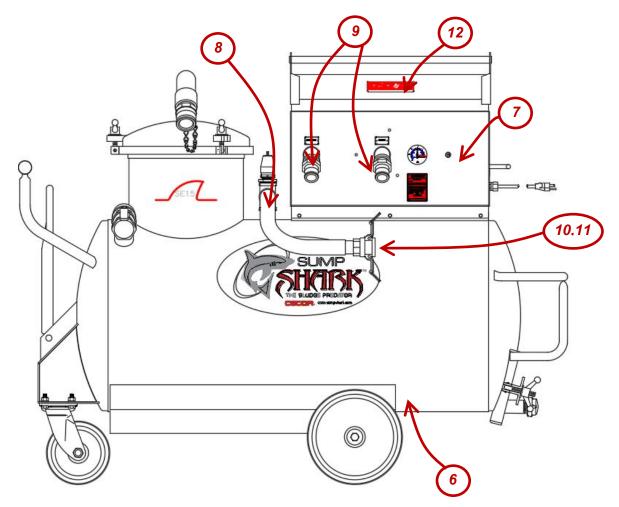
## **SECTION 7 – REPAIR PARTS LIST**

#### 7.1 – WHEELS & CASTER



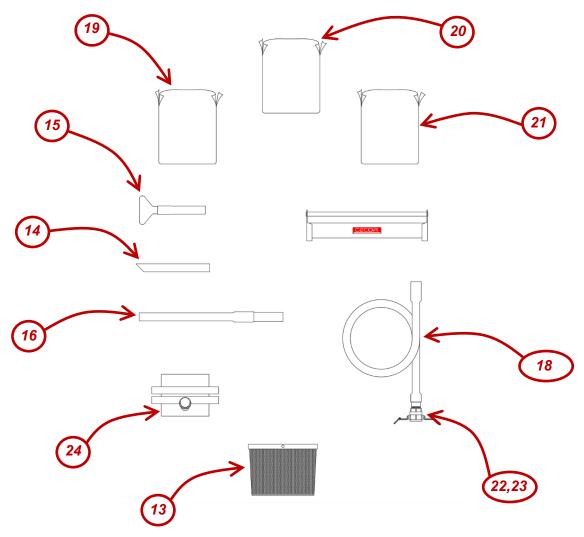
Ref	Part No.	Description
1	SP-365	SWIVEL CASTER WITH POLY TIRED WHEEL
2	SP-553	WHEEL POLY TIRED

#### 7.2 – TANK & PUMP



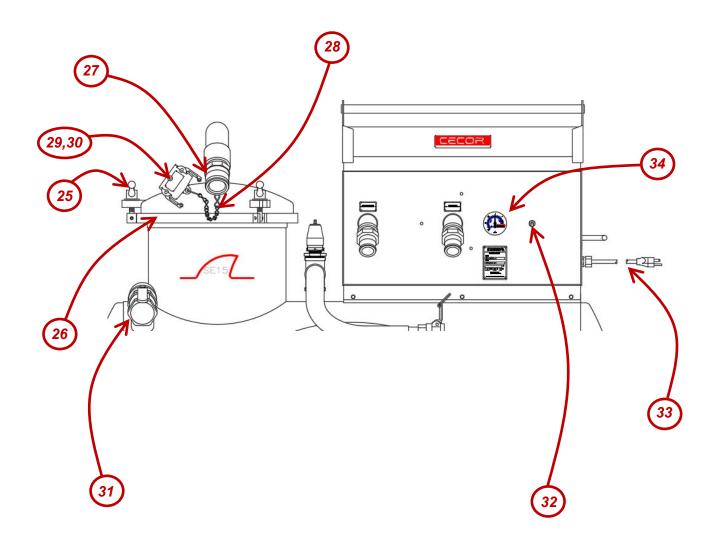
Ref	Part No.	Description
6	A220-750	TANK ASSEMBLY (NEED TO SPECIFY GALLON CAPACITY AND TRANSPORT)
7	A220-756	H- TANK PUMP ASSEMBLY SE15 ELECTRIC
8	A220-570	PUMP-TO-TANK HOSE
9	SP-217	DISCONNECT ADAPTER
10	SP-198	DISCONNECT COUPLER
11	SP-262BN	COUPLER GASKET
12	A220-760	TOOL BOX

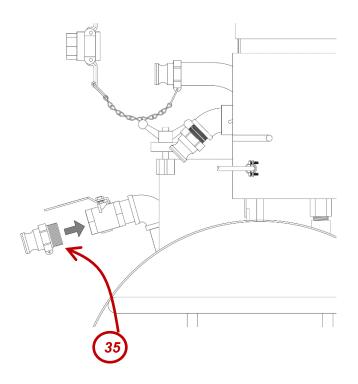
7.3 – FILTER, TOOLS & HOSE



Ref	Part No.	Description
13	A210-431	F10 BASKET ASSEMBLY
14	A210-474	STRAIGHT NOZZLE
15	A220-149	FLARE NOZZLE
16	A220-150	FLEX NOZZLE
18	A220-142	SUMP CLEANER HOSE 16'
19	B210-530	F10 POLY STRAINER BAG
20	A210-529C	F10 COARSE STRAINER BAG
21	A210-529F	F10 FINE STRAINER BAG
22	A220-864	COUPLER ASSEMBLY
23	SP-262BN-2	COUPLER GASKET
24	A210-165	CLEANOUT DOOR GASKET

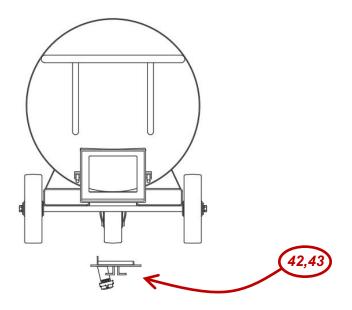
## 7.4 - TANK CONNECTIONS, GAUGE, MOTOR & CONTROL SYSTEMS





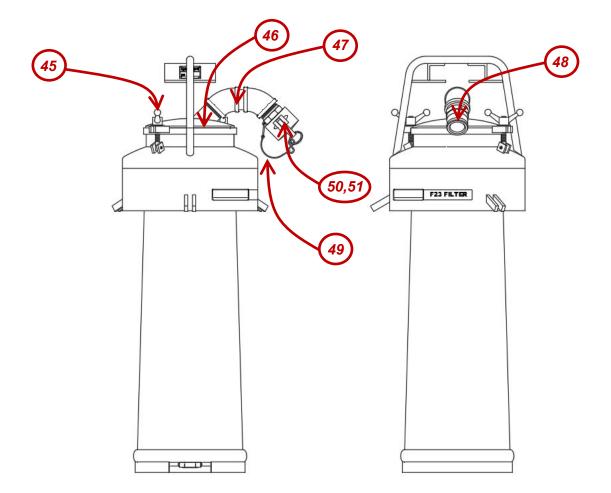
Ref	Part No.	Description
25	SP-104	WING NUT
26	A210-305	POT LID GASKET
27	SP-612	PRESSURE SAFE QUICK DISCONNECT ADAPTER MALE 2"
28	SP-373	SECURITY CHAIN
29	SP-611	PRESSURE SAFE CAP
30	SP-262BN-2	COUPLER GASKET
31	SP-466	BUTTERFLY VALVE
32	SP-154	TOGGLE SWITCH
33	SP-544	POWER CORD
34	SP-194	VACUUM/PRESSURE GAUGE
35	SP-375	QUICK DISCONNECT ADAPTER

90-200 ONLY



Ref	Part No.	Description
42	A210-165	CLEANOUT DOOR GASKET
43	A220-240	CLEANOUT DOOR ASSEMBLY

#### 7.5 – F23 FILTER



Ref	Part No.	Description
45	SP-104	WING NUT
46	A220-102	FILTER LID GASKET
47	A220-103	FILTER LID ASSEMBLY
48	SP-612	DISCONNECT ADAPTER
49	SP-373	SECURITY CHAIN
50	SP-611	PRESSURE SAFE CAP
51	SP-262BN-2	COUPLER GASKET
52	A220-645	F23 FILTER SLEEVE COARSE (NOT SHOWN)
53	A220-101	F23 FILTER SLEEVE GREEN POLY (NOT SHOWN)
54	A220-731	F23 FILTER SLEEVE FINE COTTON (NOT SHOWN)

## **SECTION 8 – WARRANTY**

#### WARRANTY STATEMENT

PLEASE PRINT OUR WARRANTY AT HTTPS://CECOR.NET/CECOR-WARRANTY/

## SECTION 9 – RECORD MODEL & SERIAL NUMBER

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WHEN YOU RECEIVE YOUR CECOR SUMP SHARK, RECORD THE MODEL NUMBER, SERIAL NUMBER AND DATE DELIVERED FOR YOUR RECORDS.

MODEL #:	 
SERIAL #:	 
DELIVERED:	 

