

NOTE: PLEASE READ THIS MANUAL THOROUGHLY BEFORE OPERATING THIS EQUIPMENT



MSC FILTRATION TECHNOLOGIES

OSP-CR2.5 PORTABLE TRAMP OIL/WATER SEPARATOR **OPERATIONS MANUAL**



APPENDIX

Page 1: Specifications and Description of Operation

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Section 1: Specifications and Description of Operation

- **Flow: 2.5 gpm**
- **Air Required: 50-100 psig @ 3 scfm**
- **Material Of Construction: Carbon Steel**



Figure 1

The MSC Filtration Technologies OilSep CR2.5 is a portable tramp oil separator to be used for removal of tramp oil from water based machine tool coolants or other water based fluids.

Its operation is simple and it requires very little attention once set.

The OilSep is split into two tanks, a dirty side and a clean return coolant side. Dirty coolant is pumped into the dirty side using an adjustable air diaphragm pump supplied with the OilSep. Once the dirty coolant is in the dirty side of the tank, Tramp Oil coalesces and floats to the top where it is manually drained out through an adjustable height drain, while clean coolant flows under a separating plate to the clean side. Clean coolant once in the clean side continually flows over a set overflow plate and back into the machine.

Section 2: Component Description

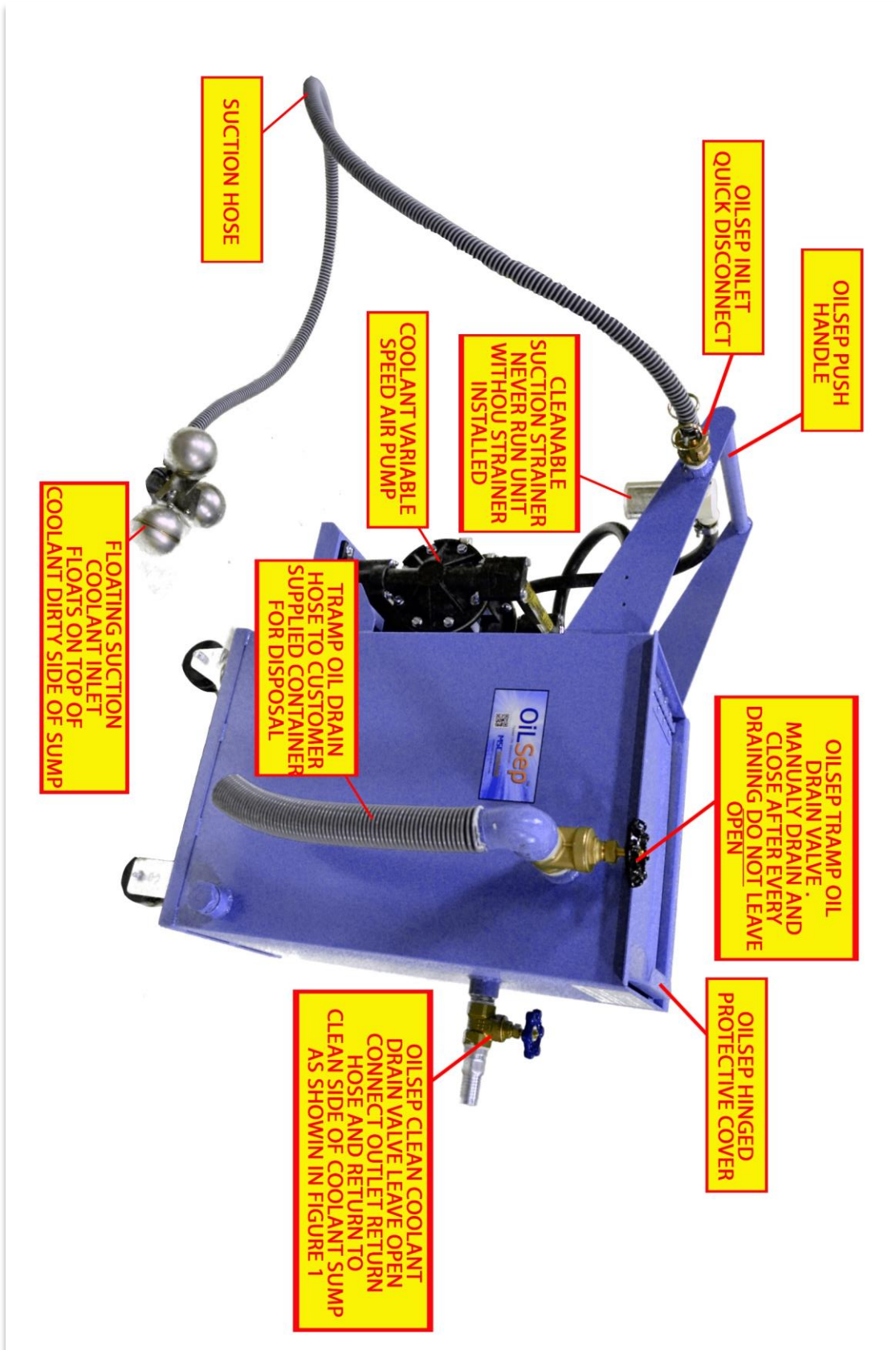


Figure 2

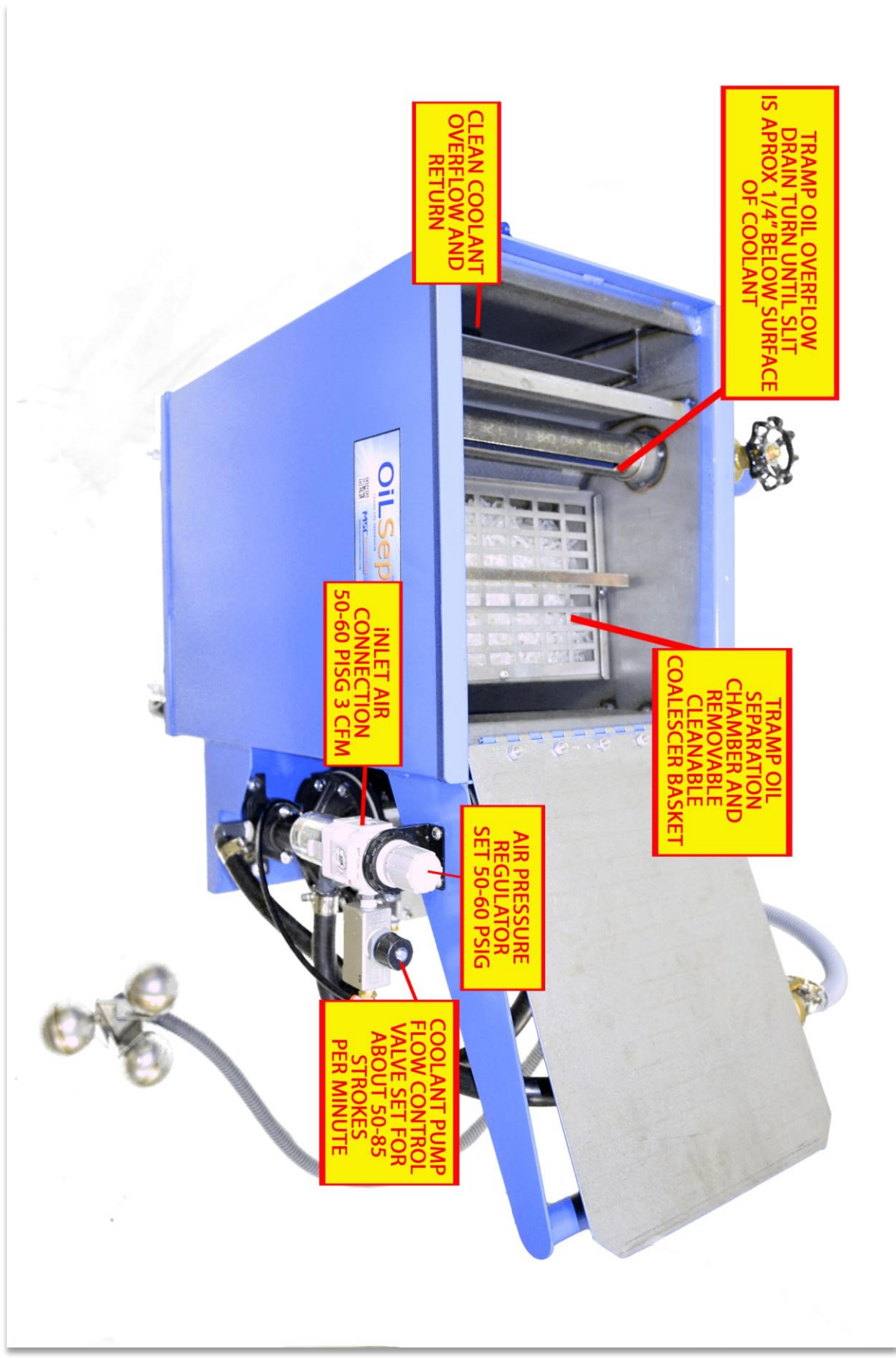


Figure 3

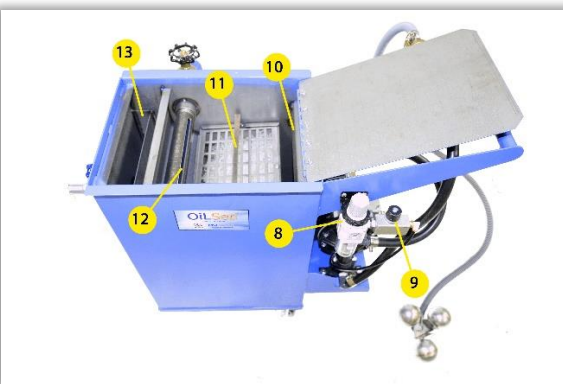
Section 3: Startup Procedure



1. Install OilSep CR2.5 on a level surface next to the machine to be cleaned. Make sure that return drain (item 6) is above the clean tank since it is gravity fed back.



2. Connect (item 4) inlet floating suction hose to unit and drop floating suction into dirty coolant tank on machine. Adjust floating skimmer (item 1) by rotating floats on threaded shaft until coolant is half way up Tapered inlet.
3. Install orange return hose onto (item 6) clean coolant return and drop into clean side of machine coolant tank as shown in figure 1 page 1.
4. Place a dirty tramp oil collection container under (item 5) hose for collection of tramp oil once separated. Leave (Item 5) closed until ready to drain.
5. Open clean return valve (item 6) but leave tramp oil valve (item 5) closed.



6. Connect air line 50-100 psig to (item 8) pressure regulator and set pressure on gauge to between 50 & 100 psig.
7. Slowly open coolant flow control valve (item 9) and adjust flow to around 2.5 gpm allowing coolant to fill up unit and start to drain back out (item 6). To check flow put drain hose into a 5 gallon bucket and time how long it takes to fill up half the bucket. Should take 1 minute and if not readjust flow up or down. Reinstall clean hose into machine once flow has been adjusted.

Section 3: Start Up Procedure (Continued)



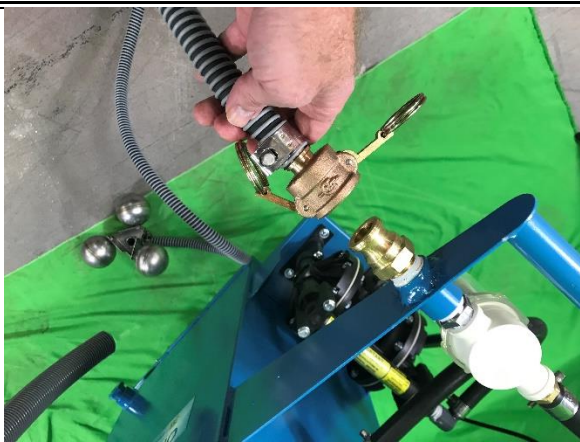
8. Overtime tramp oil will build up on top of coolant on dirty side of tank and need to be drained off manually into a waste container.



9. To prevent loss of clean coolant during tramp oil draining the drain height should be adjusted about $\frac{1}{4}$ " above the initial dirty coolant height once filled.



10. To drain tramp oil make sure a waste container is placed under the tramp oil drain hose and open item 5 until no more tramp oil drains out. If clean coolant comes out with the tramp oil readjust tramp oil drain per instructions in 9 above.



11. To move the OilSep Cr2.5 to another machine follow instructions below.
- Shut of flow by disconnecting air supply
 - Disconnect Suction Hose from unit (this allows floating suction to stay in machine tool sump while OilSep is moved) Need to purchase spare floating suction and hose for this.
 - Close (item 6) clean coolant return valve – see previous page and move OilSep to next machine.

Section 4: Maintenance



On occasion every 6 months to 1 year of operation it is recommended that the removable coalescing basket be removed and cleaned in a parts washer to remove any residual tramp oil that may build up.

Reinstall basket with raised lip to the right as per the photo.



There is a cleanable 40 mesh strainer **item 3** included on the suction side of the air diaphragm pump. It is recommended that this be removed and cleaned as well as needed if pump flow slows down.

To clean shut down unit by removing air supply and remove clear removable bowl and strainer . Wash in a parts washer and reinstall.

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, NEGLECT, 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.

