

# **C-VAC<sup>3</sup> BASIC OPERATIONAL OVERVIEW**

**IMPORTANT:** Hook machine up to at least 115psi of air and connect battery clamps to vehicle's battery before using.

## **REMOVE & FILL PROCEDURE:**

1. Make sure vehicle is turned off, but at operating temperature.
2. Connect battery clamps to vehicle's battery.
3. Connect suction wand to black service line, open ball valve, turn on vacuum switch, and remove waste fluid from overflow bottle.
4. Remove radiator cap.
5. Connect cone adapter to black service line & insert into radiator.
6. Turn top dial to "Remove Fluid" position.
7. Turn bottom dial to "Drain Waste" position.
8. Open ball valve on black service line.
9. Turn on vacuum switch.
10. Wait until no more waste fluid is being removed.
11. Turn top dial to desired fluid type to fill the radiator.
12. Turn vacuum switch off.
13. Wait until there is no longer vacuum in the radiator & remove cone adapter.
14. Top off radiator if needed.
15. Refill overflow bottle & replace radiator cap. (*see top-off procedure*)

**NOTE:** Whether you are servicing a vehicle with a traditional radiator cap or one with only an overflow bottle, the rubber cone adapter must be immersed in the coolant slightly for the machine to remove coolant from the vehicle. In order to do this, coolant may need to be added to the radiator or overflow bottle.

## **FLUSH PROCEDURE:**

1. Make sure vehicle is turned off.
2. Use suction wand to remove fluid from overflow bottle. (*see "Suction Wand" procedure*)
3. Remove radiator cap, and use suction wand to lower fluid level below the upper radiator hose. Replace cap.
4. Disconnect upper radiator hose.
5. Connect black service line to radiator.
6. Connect red service line toward block.
7. Use included hose clamps to pinch off all lines going to the overflow bottle.
8. Open ball valves on both hoses (it may be necessary to adjust the black ball valve slightly to balance the exchange process).
9. Turn top dial to "Remove Fluid" position, and bottom dial to desired fluid type.
10. Turn vacuum switch & pump switch on to begin flush.
11. Turn both switches off when finished.
12. Disconnect service lines and repeat step 3.
13. Disconnect adapters and replace upper radiator hose.
14. Top off radiator and refill overflow. (*see top-off procedure*)

## **TOP OFF PROCEDURE:**

1. Connect wand adapter to red service line.
2. Make sure ball valve is closed.
3. Turn bottom dial to desired fluid type.
4. Turn pump switch on.
5. Open ball valve at the end of the red service line to regulate fluid flow.
6. Turn pump switch off when finished.

*For technical support, call:*

**Flo-Dynamics**  
**1-800-303-5874**

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## **SUCTION WAND PROCEDURE:**

1. Connect wand adapter to black service line & open ball valve.
2. Turn top dial to "Remove Fluid" position.
3. Turn vacuum switch on.
4. Turn switch off when finished.

## **PRESSURE TEST:**

**NOTE: Do not perform a pressure test unless machine is connected to upper radiator hose.**

1. Unclamp overflow lines.
2. Close red ball valve, open black ball valve.
3. Turn top dial to "Pressure Test".
4. Turn bottom dial to desired fluid type.
5. Turn pump switch on.
6. Slowly open ball valve on red service hose until desired pressure is obtained.  
(See chart in manual for reference.)
7. To relieve the pressure in the system, turn the top dial to the "Remove Fluid" position.

**WARNING: Do not exceed cap rating by more than 4psi. Relieve pressure in system before disconnecting adapters.**

## **DRAIN TANKS PROCEDURE:**

### **DRAIN WASTE TANK**

1. Turn bottom dial to "Drain Waste Tank" position.
2. Attach open-end adapter to red service hose.
3. Flip the right side switch to "Drain Waste Tank".
4. Pump will shut off automatically when complete.

### **DRAIN NEW TANK**

1. Turn bottom dial to desired fluid type.
2. Attach open-end adapter to red service hose.
3. Turn pump switch on.
4. Turn pump switch off when complete.

### **COMPLETELY DRAIN NEW TANK**

1. To do this, the "Waste Tank Drain Complete" LED must be OFF.
2. Turn top dial to "Remove Fluid" position.
3. Turn bottom dial to desired fluid type.
4. Flip the right side switch to "Drain Waste Tank".
5. Turn switch to "OFF" when complete.

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