ThermoFlex Wide

External Venting Upgrade for the UDRC

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Revision History

Revision	Date	Author	Comments
PRE	26 Mar 2004	ADobric	First draft
A	22 Apr 2004	MZhang/ADobric	First release
B	21 July 2004	ADobric	Procedure Updates
C	05 Oct 2004	ADobric	Chemical filter ring photo added and update other photos

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1. TOOLS NEEDED

- 4 mm hex key
- small flathead screwdriver

2. PARTS NEEDED

- External venting kit 500-01699A

  OR

- External Venting Kit 500-01913A (for Thermoflex Wide 2 = 5000-01699A + wiring for EP (pre-August 2004) machines)

3. PROCEDURE

3.1 Disconnect and open the UDRC

Note: This procedure applies to both the -B and -L configurations of the Universal Debris Removal Cabinet (UDRC). Some photos in this document show the UDRC-L configuration. The UDRC-B is similar, but does not have the backpack and its associated cabling.

1. Disconnect the debris removal hose, power cord, and control cables from the UDRC.

2. Open the cabinet lid and remove the filter assembly.
   - 12" particulate filter
   - particulate filter spacer (star-shaped) – keep this for later installation
   - chemical filter
   - chemical filter spacer (ring) – See Figure 1



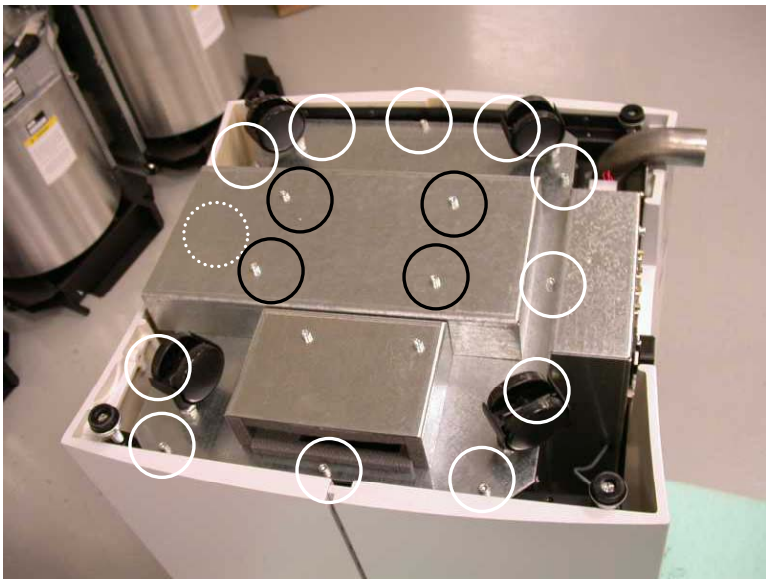
Figure 1: Chemical filter spacer ring

3. Close the lid.

4. Place a large piece of foam on the floor. Tip the UDRC over and lay it carefully on its lid on the foam.

5. Remove the bottom panel of the URDC by unfastening the 4 M5 screws of the rectangular baffle and the 12 M5 screws for the bottom panel. See Figure 2.

   Early UDRCs require the removal of only 6 M5 screws.



Unfasten the 4 black-circled and then the 12 white-circled screws

Figure 2: UDRC bottom panel

3.2 Access the blower exhaust pipe

1. Once the bottom panel is removed, the exhaust hose from the blower is easily accessible and requires removal before proceeding.
   No further baffles are required to be removed.

   Loosen the hose clamp holding the existing hose and remove hose. See Figure 3



Figure 3: Existing Hose

Note: UDRC unit with serial numbers DC930, DC937, and DC939 and higher have the above sound absorbing baffles – different than those shown in the photos below.

Below shows the procedure necessary for the older type of UDRCs.

2. Locate the blower exhaust pipe and remove the two baffles that it passes through.

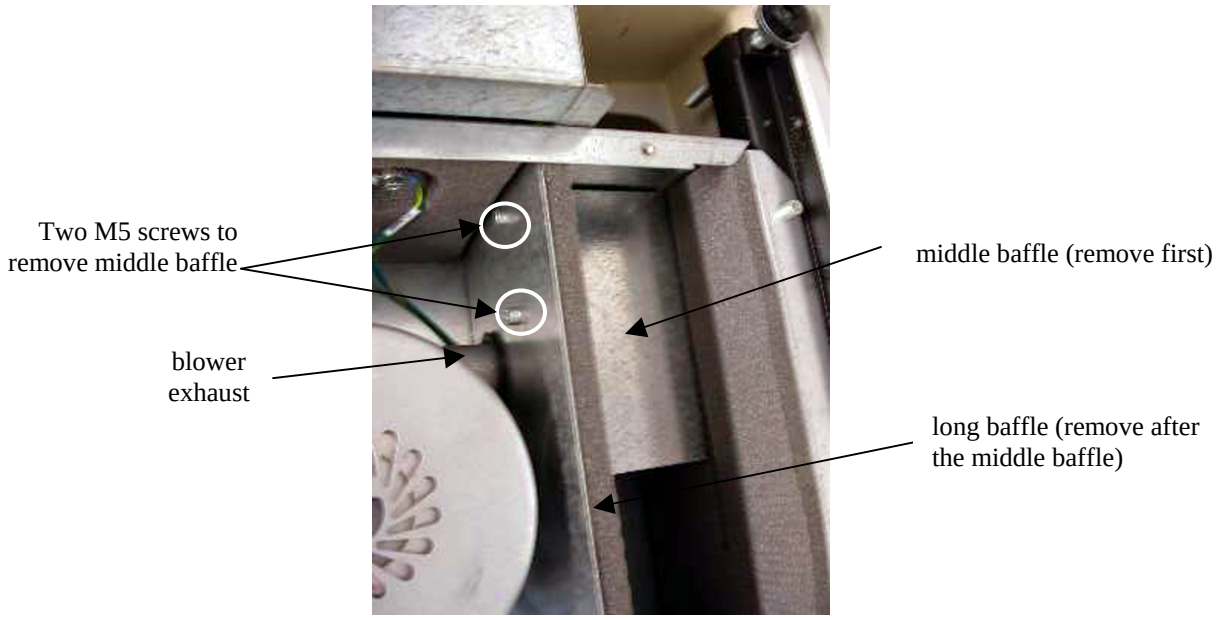


Figure 4: Location of blower exhaust pipe and baffles

3. Remove the two M5 screws securing the middle baffle. See Figure 4. Remove and discard the baffle.

4. Remove the 2 M5 screws that are now exposed on the back of the electrical interface panel. See Figure 5. This will make it easier to pull out the long baffle.

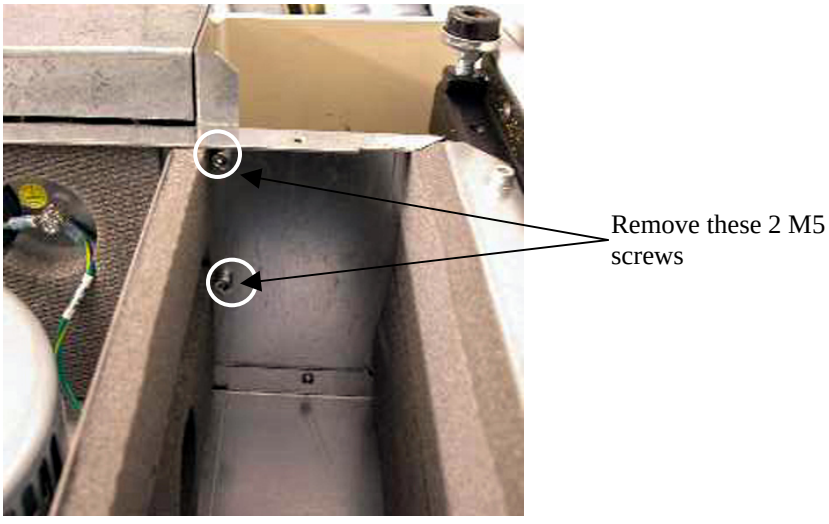


Figure 5: Removing screws that interfere with pulling the baffle out

5. Remove the 2 M5 screws that still secure the long baffle in place. See Figure 6. Pull the baffle off carefully, without damaging the rubber grommet around the blower exhaust hole. Discard the baffle.

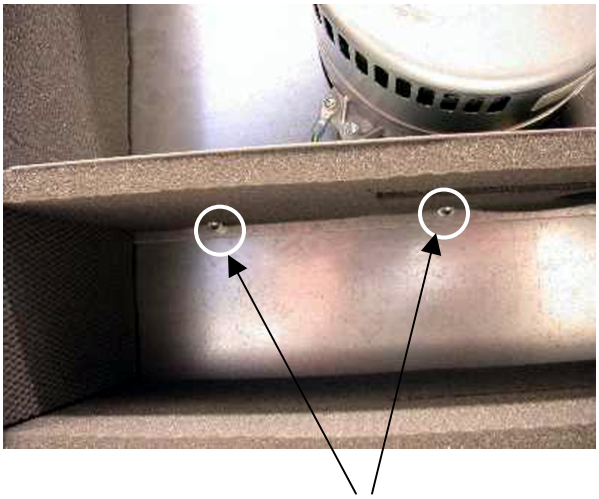


Figure 6: Removing the long baffle

3.3 Install the new bulkhead assembly

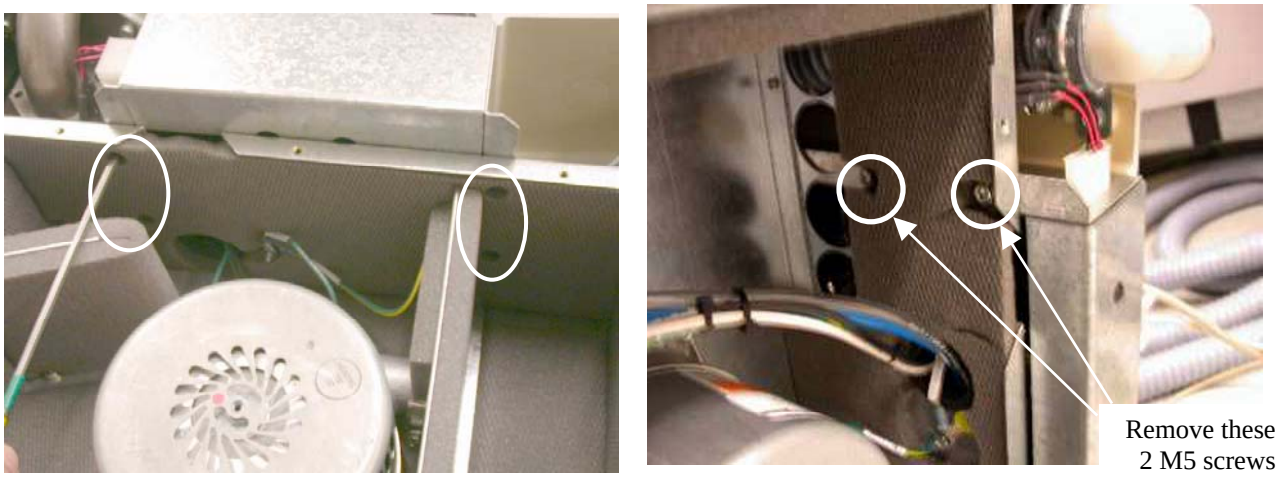
1. Disconnect all lines, cables and straps that attach to the electrical interface panel at the back of the UDRC. See Figure 7.

Note: Figure 7 shows a UDRC-L configuration. Since UDRC-B configurations do not have a backpack, only the electrical disconnect cable (item 1 in Figure 7) needs to be removed on UDRC-B.



Figure 7: Connections to detach from electrical interface board

2. **UDRC-L only**: Remove the backpack by unfastening its 6 screws. Discard the backpack.
3. Remove the 4 (or 2 remaining – older UDRC) screws from the electrical interface panel so that it will move freely. See Figure 8.



Newer UDRC Older UDRC

Figure 8: Loosening the electrical interface panel

4. Remove the 2 screws holding the blocking plate, and remove the plate itself. See Figure 9.

Note: Be careful not to damage any boards and connections when removing the blocking plate from inside the electrical interface panel.

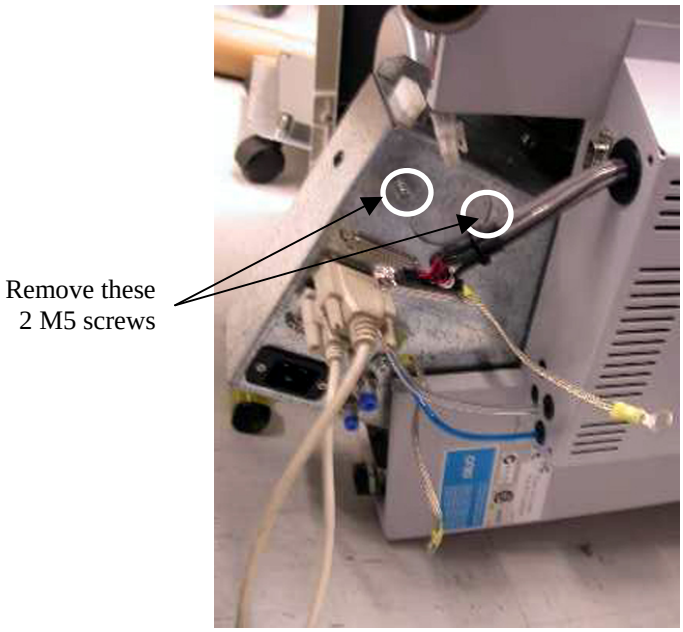


Figure 9: Removing the blocking plate

5. Cut away the foam that covers the area the metal has already been pre-cut, allowing he blower hose to pass. See Figure 10.



Newer UDRC



Older UDRC

Figure 10: Clearing the foam from the hose clearance holes

6. From the upgrade kit, assemble the 1¼" hose (338-00010), the bulkhead union (57-9263A), and the hose clamp (52-4231). See Figure 11.



Figure 11: Bulkhead assembly

7. Install the bulkhead assembly on the electrical interface panel, using two screws. See Figure 12.

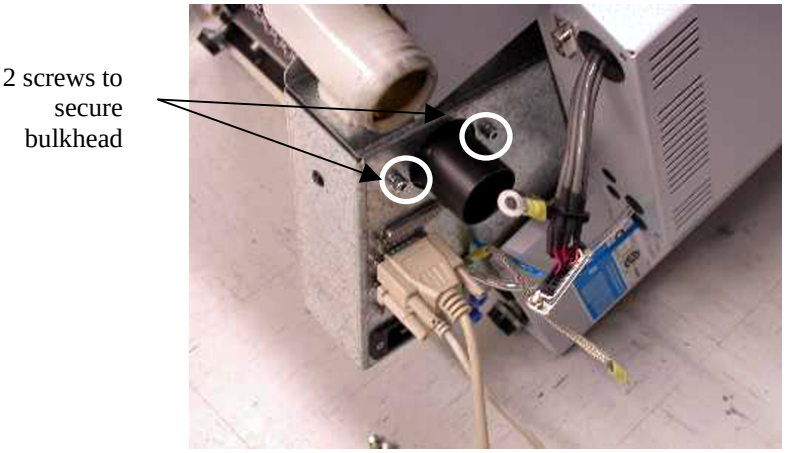


Figure 12: Bulkhead assembly installed

8. Re-attach the electrical interface panel to the UDRC body by re-installing all 4 screws.

3.4 Connect the blower exhaust to the external interface

1. Route the hose as shown in Figure 13 and connect it to the blower exhaust. Secure with a hose clamp.



(a) Hose routed correctly from bulkhead …



(b) … and connected to the blower exhaust



(c) Newer UDRC

Figure 13: Hose routing

2. Replace the bottom panel and rectangular baffle.

3. Attach the 1½ in. hose to the bulkhead, and the free end of the hose to the customer-supplied interface.

Note: The UDRC must be located within 1.0 m (40 in.) of the hard-piped interface. It must not be left on its casters - place it on the adjustable height leveling feet.

4. Install a new filter assembly in the UDRC.
   - install the particulate filter spacer at the bottom of the pot (ensure the chemical filter spacer ring has been removed)
   - insert the 16” particulate filter

5. Attach a new model configuration sticker (74-3333B) to the lower left of the rear panel, covering the previous model sticker. Attach the External Venting Option label (382-00568A) directly above the model configuration sticker.

6. Re-connect the UDRC communication cables and the power cord.

7. Update the UDRC firmware parameters for the external venting option. See the media tech notes on TechPlanet - the media list is at
   http://techplanet.creo.com/consumables/media/nav/medialist.htm
   For example, on ThermoFlex Wide II:
   Activate the UDRC base mode of operation:
   ```
   Flexo>> access enable
   Flexo>> option debris udrcl disable
   Flexo>> option debris udrcb enable
   Flexo>> reset
   ```
   Ensure all media are set up to the non-UDRC-L operation:
   ```
   Flexo>> set media <n> debrisoptions 3
   ```

3.5 Upgrade the wiring - Wide II device only

1. In the power box of the ThermoFlex Wide II device, disconnect the two fork-type terminals of cable 10-5166A from the debris sensor. Cover the conductor part of the two terminals with electrical tape.

2. Connect the two fork-type terminals of cable 220-00629A to the screw terminals of the debris sensor, as indicated on the labels.

3. Route cable 220-00629A to the GENINE board and plug it in to connector J1. Use cable ties to secure the cable.

4. Ensure that ThermoFlex Wide II firmware version 1.08 or later is installed.