

03.122 WRS Maintenance Procedure

(03. HSS)

OBJECTIVE:

To maintain the Water Recovery System (WRS) by replacing filters

EQUIPMENT:

Flat blade screwdriver

PPE safety glasses

PPE Kobalt work gloves

PPE Static wrist tether

Water Recovery System KIT: Rechargeable trap filter (will be gathered during the procedure)

Microbial filter (will be gathered during the procedure)

REFERENCES:

Serial Number Tracking Spreadsheet



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1. REMOVE RECHARGEABLE TRAP FILTER

- 1.1 Don PPE safety glasses.
- 1.2 Don PPE gloves.
- 1.3 Don Static Wrist Tether and attach to any unpainted metallic surface.
- 1.4 Turn Distillation Gas Vent Valve clockwise to closed position. (see Figure 1)

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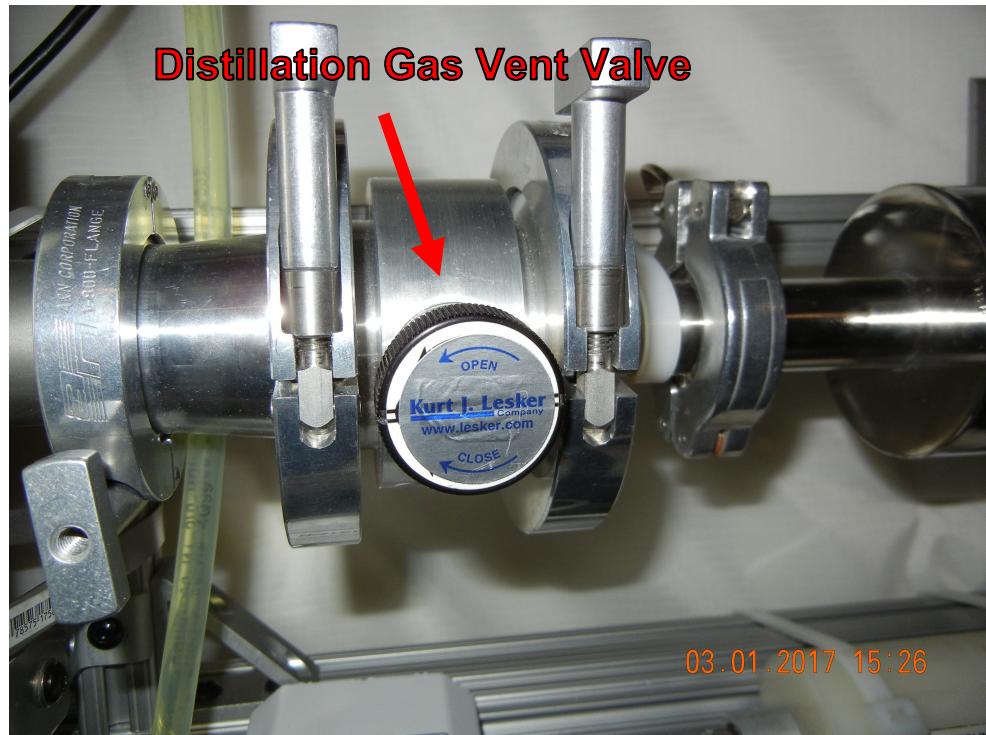


Figure 1: Distillation Gas Vent Valve

1.5 Pull Rechargeable Trap Lever down. (see Figure 2)

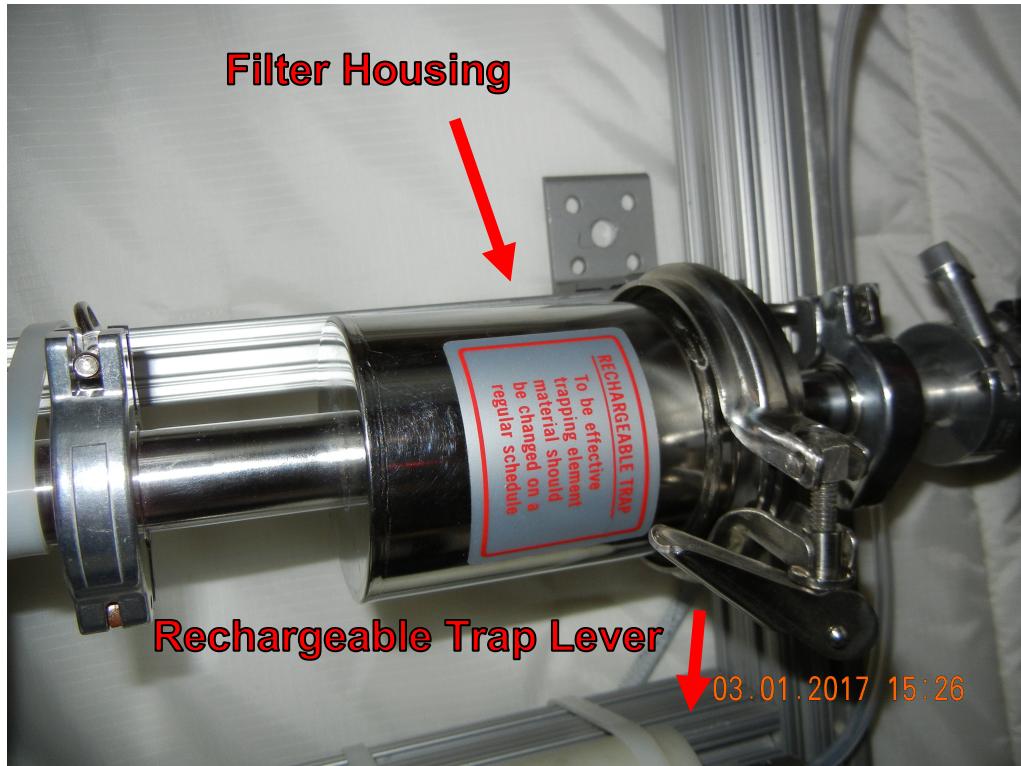


Figure 2: Rechargeable Trap Lever

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- 1.6 Remove Rechargeable Trap Filter Cover by sliding left and temp stow.
(see Figure 3)



Figure 3: Rechargeable Trap Filter Cover

- 1.7 Disconnect hose from Filter Housing.

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- 1.8 Remove and temp stow rubber gasket. (see Figure 4)



Figure 4: Rubber Gasket



Figure 5: Filter Screen



Figure 6: Filter Sleeve and Rechargeable Trap Filter

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- 1.9 Remove and temp stow Filter Screen from Filter Housing. (See Figure 5).
- 1.10 Remove used Rechargeable Trap Filter and Filter Sleeve from Filter Housing.(See Figure 6)
- 1.11 Remove used Rechargeable Trap Filter from Filter Sleeve.
- 1.12 Temp stow Filter Sleeve.
- 1.13 Place used Rechargeable Trap Filter in a Ziploc bag labeled "Used Trap Filter" and stow in Water Recovery System Kit.

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2. INSTALL NEW RECHARGEABLE TRAP FILTER

- 2.1 Retrieve clean Rechargeable Trap Filter from bag of spares in the Water Recovery System Kit and insert into Filter Sleeve.
- 2.2 Insert Filter Sleeve into Filter Housing.
- 2.3 Insert Filter Screen into Filter Housing with screen facing out.
- 2.4 Place rubber gasket on Filter Housing and mate hose.

NOTE

2nd crewmember may be needed for steps 2.5 -2.6

- 2.5 Secure the Rechargeable Trap Filter Cover using clamp.
- 2.6 Confirm adjustable clamp on the lever is positioned within the base of the cover. Pull lever up to lock.

NOTE

Hand-tighten clamp then point the lever towards the outer wall of the cabin

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3. REMOVE MICROBIAL FILTER

- 3.1 Grasp Microbial filter and turn clockwise to remove.(See Figure 7)

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Figure 7: Microbial Filter

3.2 Stow used microbial filter in Water Recovery System Kit in Ziploc bag labeled "Used Microbial Filter".

3.3 Record serial number in Serial Number Tracking Spreadsheet.

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4. INSTALL NEW MICROBIAL FILTER

4.1 Remove new Microbial filter from Water Recovery System Kit

4.2 Insert new Microbial filter into filter housing and turn counter clockwise until you feel a click.

4.3 Record serial number of new microbial filter in the Serial Number Tracking Sheet.

4.4 Turn Distillation Gas Vent Valve counter-clockwise to open position.

4.5 Doff PPE gloves and safety glasses.

4.6 Stow all equipment.