

915J Continuous Mercury Monitor Preventative Maintenance Checklist Quarter 4 / Annual

Company/Plant	Date
Unit Serial Number Service Performed by	
 Probe and Umbilical Line Check probe and umbilical line for proper heating Clean probe 	
 Probe Head Check for proper heating of all components Replace total scrubber MT-001 Replace elemental scrubber MT-002D Clean and sonicate titanium filter MT-010 Clean filter housing & lid assembly MT-035, MT-009 Inspect Viton O-rings in filter lid assembly MT-004. Replace if necessary. Inspect Teflon lines and replace if discolored or damaged. If any line from sclean valve MT-030 Inspect Viton gaskets & replace if needed (in dilution block & bypass block) Inspect Viton gasket between probe and head MT-016 	
 Console Check for proper heating Replace pre-analyzer scrubber MT-005D Inspect air/sample lines - replace if discolored Replace zero mercury filter MT-003 Replace pre-analyzer particulate filter MT-037 	
 Enclosure Check for proper heating & cooling Inspect and clean air conditioner condensate management system (pan, dr Clean air conditioner cabinet Replace air conditioner filter MT-059 Replace air system filter elements MT-041 (x2) Inspect air dryers: check cycle timer, desiccant towers, solenoid valves, pur Replace air system filter elements MT-014, MT-015 	
ADDITIONAL NOTES	







915J Continuous Mercury Monitor Parts & Consumables List Quarter 4 / Annual

	PART NUMBER	PART NAME
	MT-001	Scrubber 1 (Total Scrubber)
	MT-001 Reload	Reload service of Scrubber 1 (Total Scrubber
and a second sec	MT-002D	Scrubber 2 (Disposable Elemental Scrubber)
	MT-010	Probe filter element 2Um Titanium (with 2 Viton gaskets MT-081)
05	MT-035	Filter Holder/Lid Assembly
	MT-009	Probe Tube, Filter Block Cleanout Kit
$\bigcirc \bigcirc$	MT-004	Filter Lid O-Rings (set of 2)
	MT-030	Stainless Steel Solenoid Valve (V4)
දීරීට ර ර	MT-024	Set of Viton Gaskets for Dilution Block
°°0 00	MT-025	Set of Viton Gaskets for Bypass Block
	MT-016	Suction Tube for Dilution Block 100:1 (Orifice and Gaskets installed)
	MT-005D	Scrubber 3 (Disposable Pre-Analyzer Scrubber)
	MT-003	"Zero" Hg Filter



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	PART NUMBER	PART NAME
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	MT-037	Pre-Analyzer Particulate Filter
	MT-059	Ice Qube AC Filter - Manufacturer's Part No. POF1030
	MT-041	Air Supply Zero Filter
8	MT-014	Coalescing Filter Element
	MT-015	Particulate Filter Element

#### ADDITIONAL NOTES



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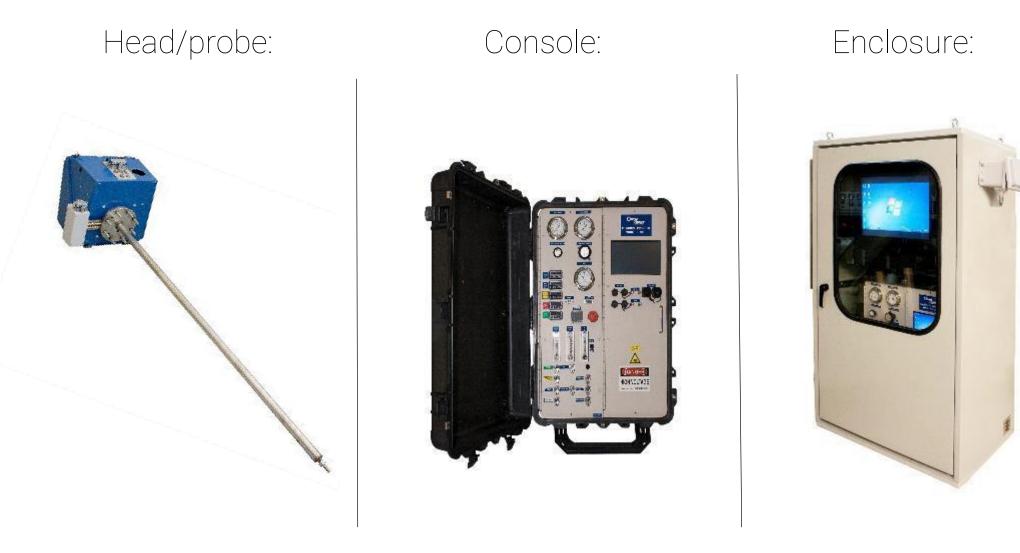
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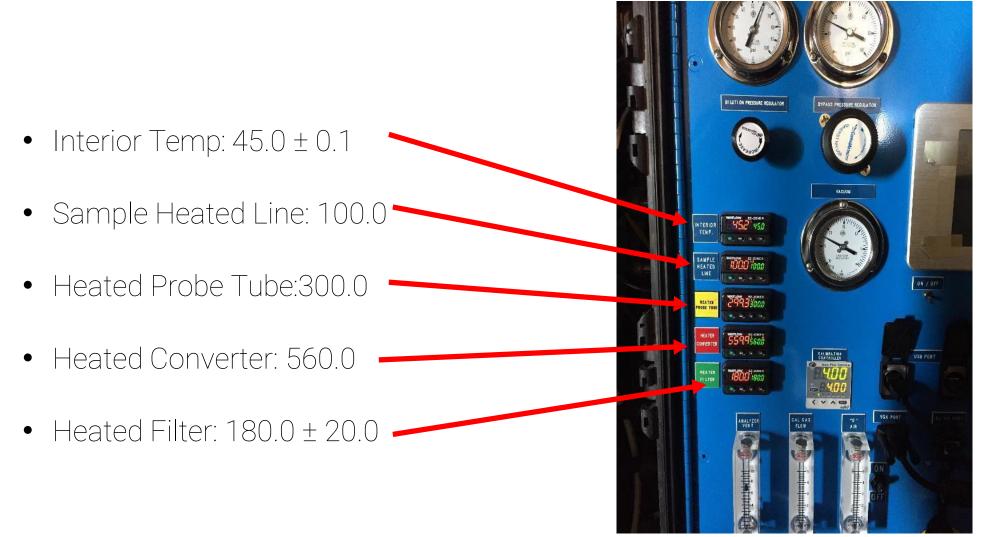
# 915J Maintenance Guide Quarter 4 / Annual

Last Update: 10/02/2020

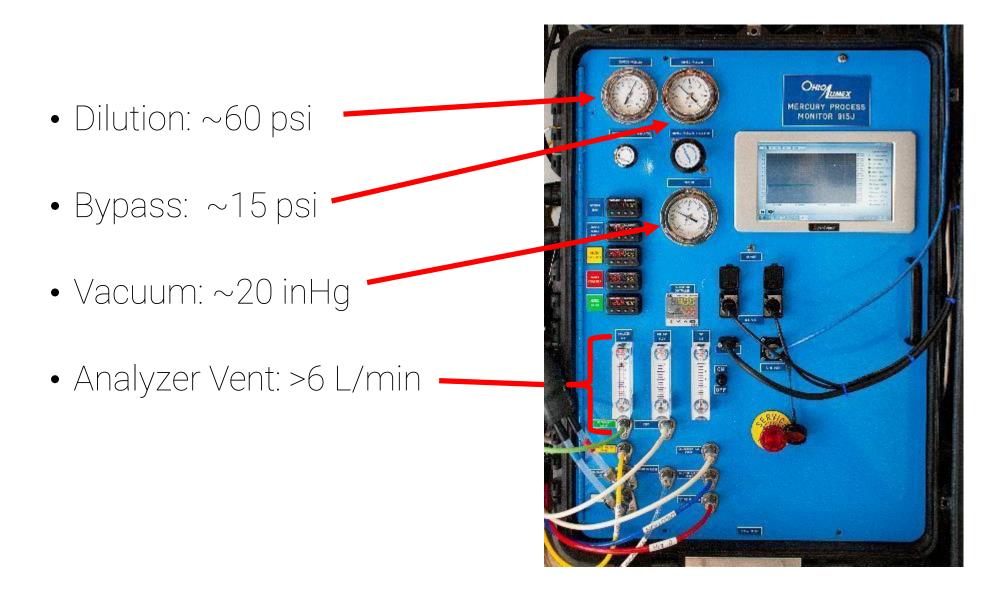
#### 915J maintenance consists of 3 primary components: head/probe, console, enclosure



# Begin by confirming proper heating of all temperature controllers:



# Confirm pressures/flow/vacuum on gauges



Before beginning work on the head, make sure to pull the Service Button on the bottom center of the console to cut air to the system!



Replace/clean the probe insert/liner (use rifle cleaner or allthread)

Forceps needed to remove liner if one is present

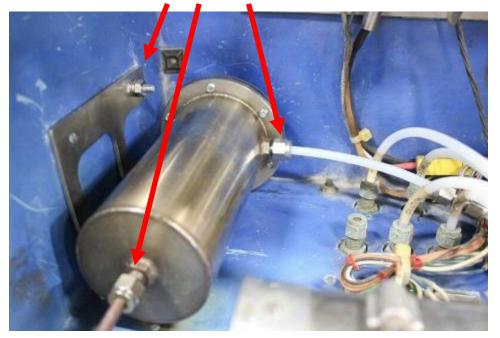




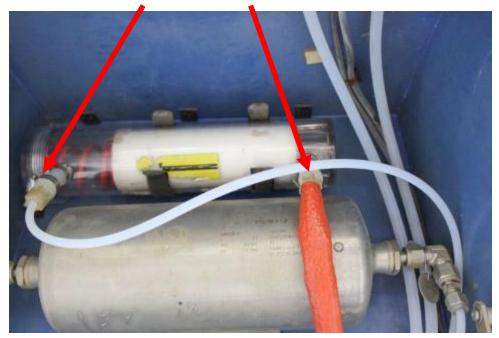
Replace Total Scrubber (MT-001)

#### Replace Elemental Scrubber (MT-002)

Loosen Here:



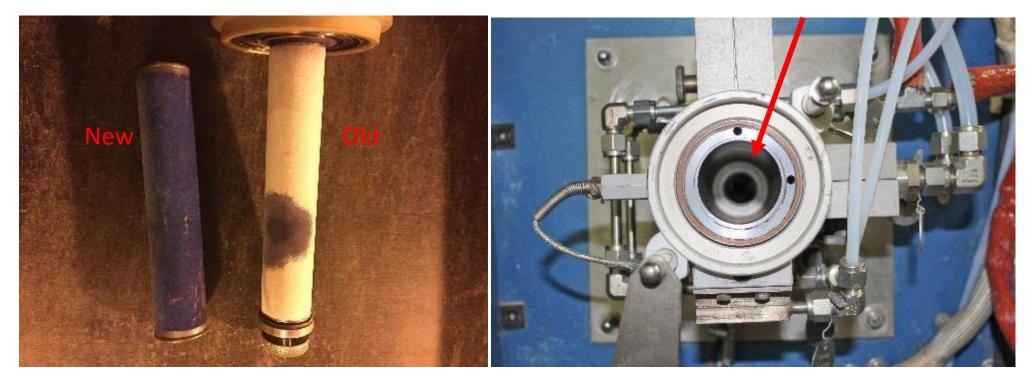
Loosen Teflon lines here:



Replace/Clean Titanium Filter (MT-010)

Inspect/Clean Filter Housing

Use cloth to remove any particulate in here



#### Inspect Viton O-rings (MT-004) in filter lid assembly

Gently Pre-stretch O-rings to ensure proper seating



#### Inspect Viton O-rings (MT-004) in filter lid assembly (cont...)

#### Gaskets not stretched and improperly seated:



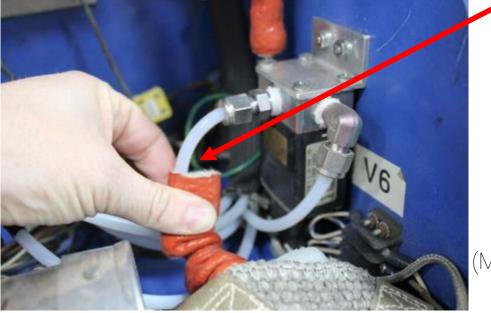
Gaskets properly stretched and seated:



#### Inspect Teflon lines and replace if needed

(Look for discoloration, moisture, leaking, etc.)

Pay special attention to line from solenoid to total converter:



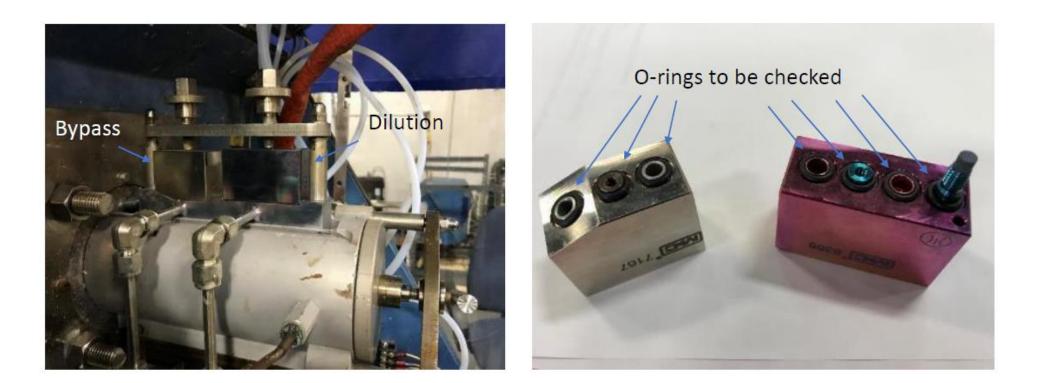
Needs replaced (Moisture, particulate)



Inspect Viton O-ring on the Dilution and Bypass Blocks. Replace if worn.

Dilution set MT 024, Bypass set MT 025.

The Dilution Block has a Silco Coating on it to prevent the metal from reacting with Mercury.



Separate the Probe Head from the Probe and check the condition of the black Viton gasket between them. Replace if worn (MT 016)



Viton gasket between the Probe and Probe Head. Mind the Bypass exhaust port when installing.

Bypass exhaust port

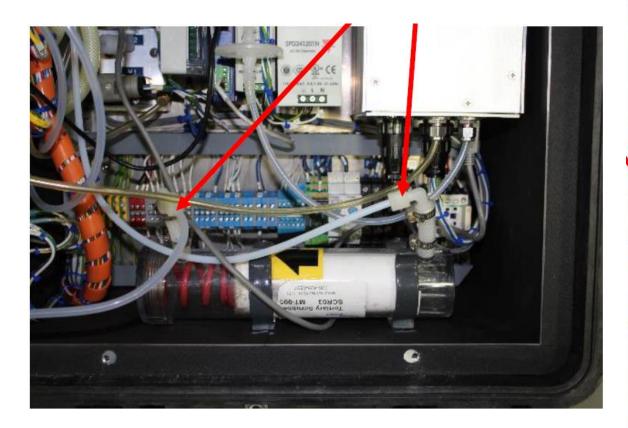
### Head Maintenance Complete

#### Turn air back on by pressing the Service Button back in



#### Console Maintenance

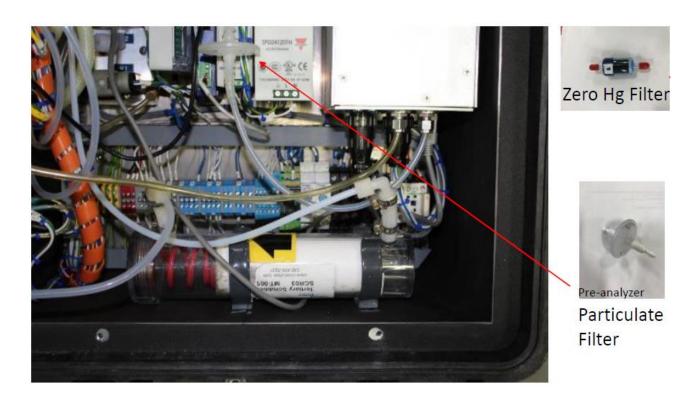
#### Replace Pre-Analyzer Scrubber (MT 005)

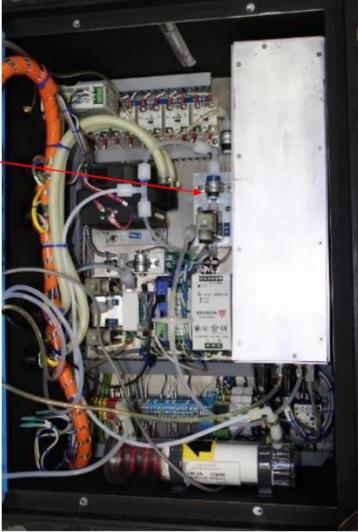




#### Console Maintenance

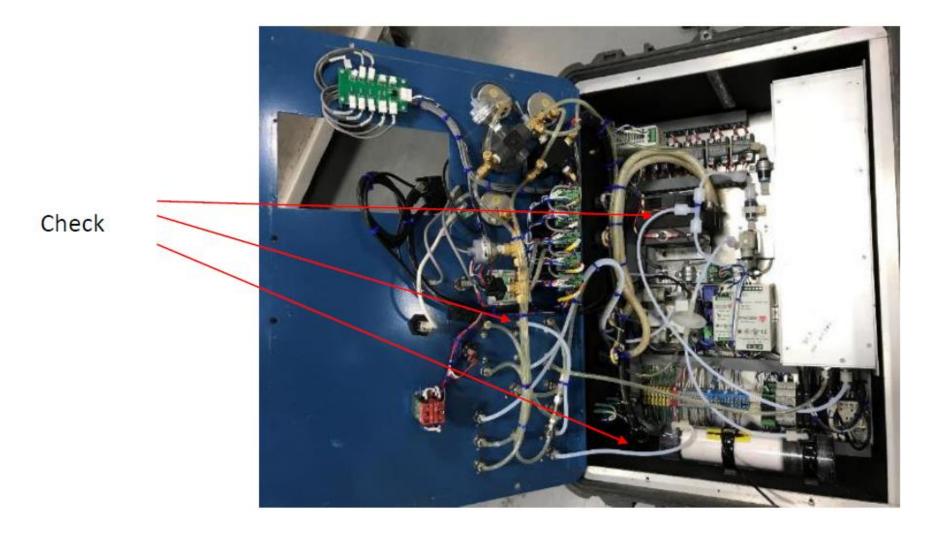
Replace the Zero Hg Filter (MT-003) Replace the pre analyzer particulate filter (MT-037) Both are located inside the console





#### Console Maintenance

Check all pneumatic line for contamination. Replace if contaminated.



#### Enclosure Maintenance

#### Replace Air Supply Zero Filters (MT-041)



#### Enclosure Maintenance

# Replace Air Supply System Filter elements (MT 014 and MT 015)

Air Supply System



Air Supply System with covers removed



MT-014 MT-015



## A/C Maintenance

Confirm proper heating/cooling

- Inspect/clean AC filter
- Inspect and clean AC condensate pan, drain, tubing
- Clean AC cabinet



Replace/Clean AC filter here:

## Completing Maintenance

• After all maintenance, complete, ensure all temperatures and pressures have returned to their expected ranges.

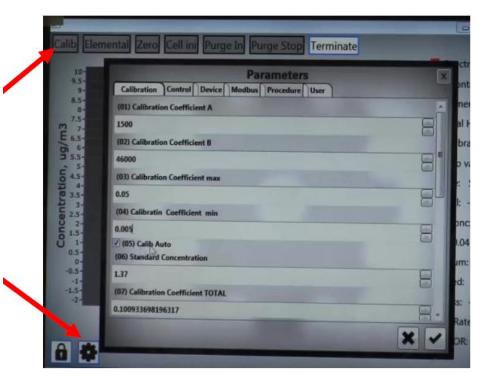
• Be sure to allow the system a minimum of 12 hours to recover from this maintenance.

• Once the system has recovered, it is advisable to run a set of 30B sorbent traps to confirm the readings. A typical run would consist of a 60-minute duration at 500cc.

• Compare the trap data to the 915J Hg total concentration over that time. Adjust calibration coefficient as needed

## Completing Maintenance

- If an adjustment is made, the standard concentration will need to be adjusted as well.
  - To do this, click the "calib" button in the top left of the software.
  - Once the calibration has reached a steady average, click the gear icon to open a window.



# Completing Maintenance

- Adjust the Standard Concentration to match the current average in calibration mode.
- Note: this adjustment can only be performed while system is in calibration mode.
- Confirm the calibration coefficient is still at its expected value from before the calibration gas used.

Cano Eler	mental Zero Cell ini Purge In Purge Stop Terminate	-
10- 9.5- 9-	Calibration Control Device Modbus Procedure User	X
8.5- B-	(01) Calibration Coefficient A	
7.5- M 7-	1500	
E 65-	(02) Calibration Coefficient B	-
3 5.5-	46000	
uoj1	(03) Calibration Coefficient max	(ma)
9 3.5-	0.05	80
CB 3-	(04) Calibratin Coefficient min	-
<b>5</b> 1.5	0.005	8
0.5-	(06) Standard Concentration	
-0.5-	1.37	
-1.5-	(07) Calibration Coefficient TOTAL	-
	0.100933698196317	8-

# Your maintenance is now complete.

