



# Eclipse 4660 Purge-and-Trap Maintenance Schedule

Perform the following maintenance items at least as often as recommended for each item. Good Laboratory Practices (GLPs) suggest all instrument maintenance be recorded in an instrument maintenance log book (PN 323410).

Maintenance	Daily	Weekly	Monthly	Quarterly	Yearly	As Needed	Recommended Replacement Part On-hand
Condition the Trap	✓	—	—	—	—	✓	Condition the trap prior to running samples or anytime contamination is suspected. Consult the trap instruction sheet or user manual for condition temperatures.
Inspect the sparger and frit	✓	—	—	—	—	—	Replace when dirty or contaminated. PN 322997, 5-mL fritted sparger + ferrules PN 322998, 25-mL fritted sparger + ferrules
Monitor the System Pressure during PURGE	✓	—	—	—	—	—	Should be 6 to 12 psi, depending on the type of trap installed. Increasing pressure may indicate an aging trap or obstruction in the sample pathway.
Review run logs	✓	—	—	—	—	—	Look for Foam Sensor™ tripped, SOS tripped, or other error messages.
Inspect IS and SS vials on autosampler	✓	—	—	—	—	—	Monitor the level of standard in the vials. Pressure reading on the regulator should be 6 to 8 psi (4551A/SAM).
Prime the standard addition module	✓	—	—	—	—	—	Prime prior to running samples and any time the vials have been vented
Replenish water in Reservoir	✓	—	—	—	—	—	Add clean water to reservoir as necessary; empty waste water.
Leak check	—	✓	—	—	—	✓	Repair any leaks prior to running samples. Verify system pressure is 20–24 psi.
Measure PURGE gas flow rate	—	✓	—	—	—	—	Should be 35 to 40 mL/minute
Visually inspect external connections and cables	—	✓	—	—	—	—	Look for signs of leaks, corrosion, or fraying.
Rinse or replace the sample filter assembly	—	—	✓	—	—	✓	PN 321659S, sample filter assembly PN 291450S, sample filter assembly without the filter (fitting only)

# Eclipse 4660 Purge-and-Trap Maintenance Schedule Continued...

Maintenance	Daily	Weekly	Monthly	Quarterly	Yearly	As Needed	Recommended Replacement Part On-hand
Measure BAKE gas flow rate	—	—	✓	—	—	—	Should be 60 to 120 mL/minute
Replace the analytical trap	—	—	—	✓	—	✓	See list below for trap part numbers
Sonicate or replace the Water Management Fitting and tube assembly	—	—	—	✓	—	✓	PN 321596C, Water Management Fitting PN 321048, Tube assembly, Six-port valve to WMF
Backflush sample pathway with methanol	—	—	—	✓	—	—	PN 324536, Sample Pathway Rinse Kit
Clean fans, vents, and screens	—	—	—	✓	—	—	Remove dust and dirt that may have accumulated on the trap and WMF fans, the external chassis vents, and the WMF screen
Confirm operation of all fans, valves, and heated zones	—	—	—	✓	—	—	Manual operation of the fans, valves, and heated zones can be accessed from the Maintenance screen
Rinse the transfer line	—	—	—	✓	—	✓	PN 324536, Sample Pathway Rinse Kit
Reset counters	—	—	—	—	—	✓	Counter settings can be accessed from the Maintenance screen
Perform Preventative Maintenance (PM) visit and replace entire sample pathway	—	—	—	—	✓	—	Contact OI Technical Support to schedule you yearly PM visit, 1-800-336-1911 PN 322230, sample pathway replacement kit with six-port valve. Analytical trap and sparge vessel must be ordered separately.

## Useful Part Numbers

Part Number	Description
320581C	Sparge mount manifold, standard
320580C	Trap bulkhead fitting (outlet end of trap)
321658	Cross fitting for sample filter
321659S	Sample filter
224352	18-mm TFE ferrule for sparger (10/pkg)
224337	6-mm TFE ferrule for sparger (ea)
322997	5-mL fritted sparger with ferrules
321932	Tube assembly, sparge mount to cross filter
321047	Tube assembly, cross/filter to six-port valve
321048	Tube assembly, six-port valve to WMF
321035	Needle assembly
196220	1/16 TFE ferrule for sample needle (5/package)
321596C	Water Management Fitting (WMF)
321088	Ferrule for WMF & Trap Outlet
224584	Luer fitting for 3- or 4-port sample valve

## Useful Part Numbers cont...

Part Number	Description
Contact OI Technical Support at 1-800-336-1911	Replacement heater/TC assemblies
	Replacement transfer lines
	Replacement fuses

*Note: The maintenance steps shown here are based on typical laboratory use of the equipment, and should be considered a minimum frequency. Maintenance or replacement of instrument components may be required on a more frequent basis, depending on individual circumstances. Any questions should be directed to the OI Analytical Customer Support Center at (800) 336-1911 or (979) 690-1711.*

## Analytical Traps

Part Number	Description
227348	#7 trap (Tenax®)
219972	#9 trap (Tenax, silica gel, charcoal)
228122	#10 trap (Tenax, silica gel, CMS)
258830	#11 trap (VOCARB 3000)
258848	#12 trap for BTEX, (Carbopack B, Carbopack C)
326720	Trap for U.S. EPA Method 524.3

