

Maintenance of GeneXpert is Easy

Preventive maintenance tasks:

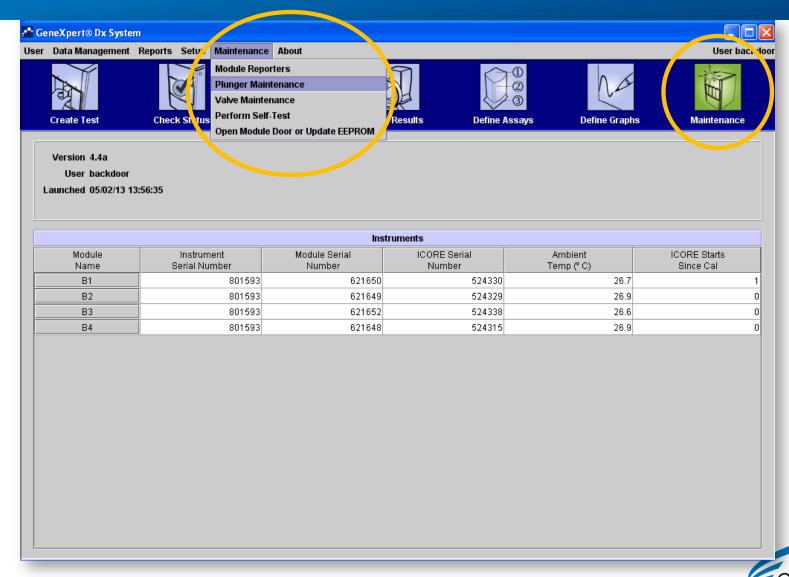
- Performed on regular basis by end user
- Ensure good performance of the system
- Avoid problems of malfunction

On request maintenance tasks:

- Performed in specific situations
- upon request by Cepheid representative
- Allow to check/reset one or several functions



Dedicated Menu in GeneXpert Dx Software



Preventive Maintenance: Tasks / Frequency

Daily Maintenance:

- Discard used cartridges
- Put the dust cover when the system is not in use to limitate dust.

Weekly Maintenance:

- Clean the cartridge bay interior
- Restart the system (GeneXpert and Computer)

Monthly Maintenance:

- Clean the syringe plunger rod
- Clean the instrument surfaces
- Clean the fan filters with soapy water (only for GX with white cover)
- Archive the results and save it on external support

Yearly Maintenance or after 2000 tests/module

 Calibrate all modules once a year or every 2000 tests/module whichever comes first

Required tools/products

- 10% sodium hypochlorite solution (prepared within 1 day)
- 70% ethanol or isopropyl alcohol solution
- Lint-free wipes / non-cotton swabs
- Disposable gloves
- Clean water and Soap
- Eye protection

Replacement fan filters (available upon request)



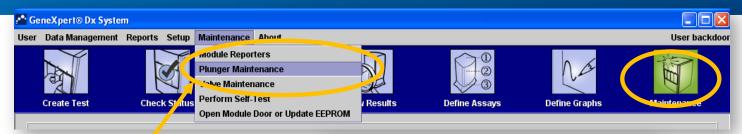
Cleaning procedure

Used for cleaning cartridge bay, plunger and instrument surfaces.

- 1. Dampen wipe/swab with the 10% sodium hypochlorite solution
- 2. Wipe the surface/element to be cleaned with the wipe/swab
- 3. Discard the used wipe/swab
- 4. Wait 5 minutes
- 5. Dampen a new wipe/swab with the 70% ethanol or isopropyl alcohol solution
- 6. Wipe the surface/element to be cleaned with the wipe/swab
- 7. Discard the used wipe/swab
- 8. Repeat step 5 through step 7



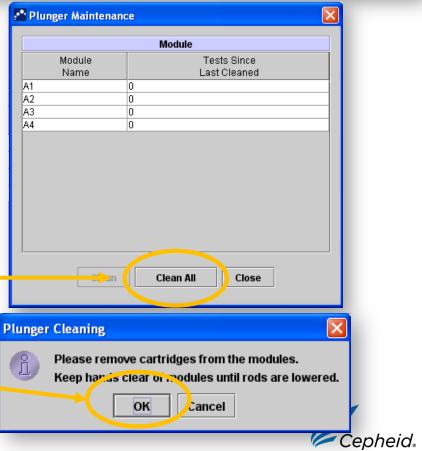
Plunger maintenance



From the Maintenance menu select Maintenance -> Plunger Maintenance

In the Plunger Maintenance window choose a module to clean, or "Clean All"

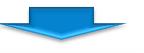
Follow the instructions in the dialog window and click "OK"

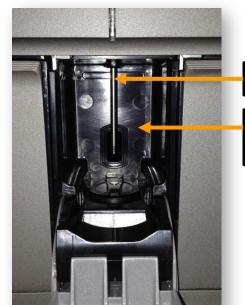


Plunger maintenance

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The plunger rod in the chosen module will be lowered





Plunger

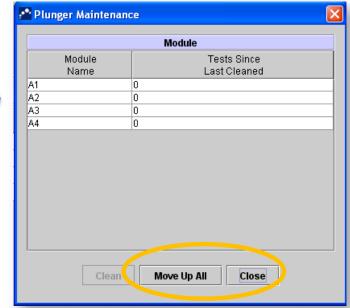
Cartridge bay interior

Module door open

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After cleaning the plungers, click on "Move Up All" – the plungers will return in their position Then click "Close"

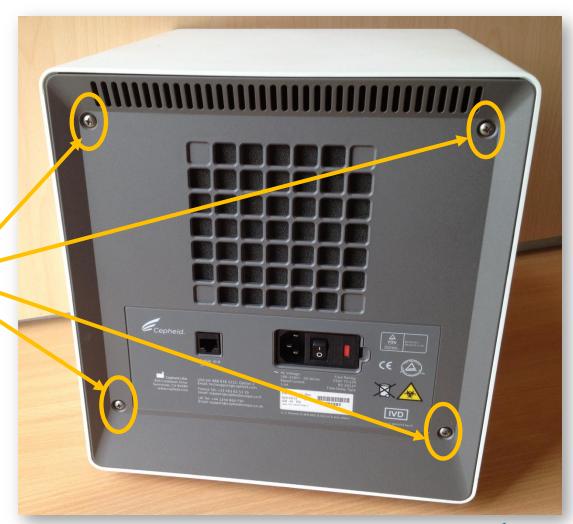






Cleaning the fan filter

Unscrew the 4 screws on the rear grey panel





Cleaning the fan filter



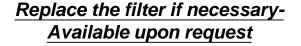
Remove the grey cover at the back of the instrument



Take out the filter (sponge)

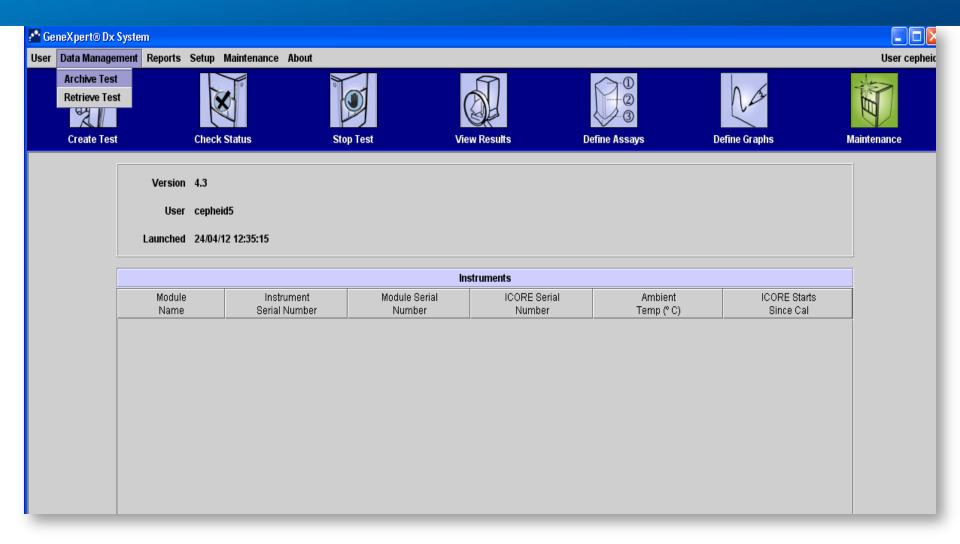


Wash the filter with water and soap Let it dry and put it back



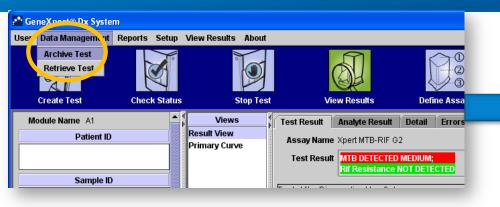


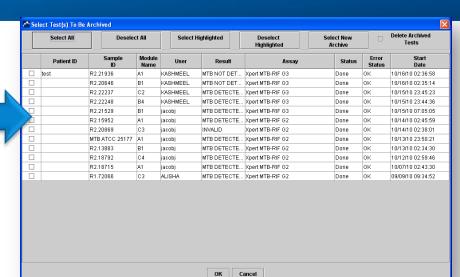
Archiving results

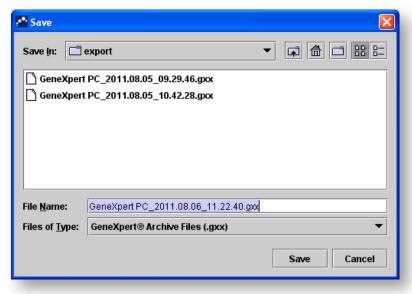




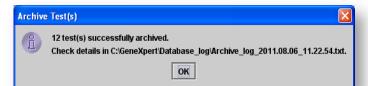
Archiving results





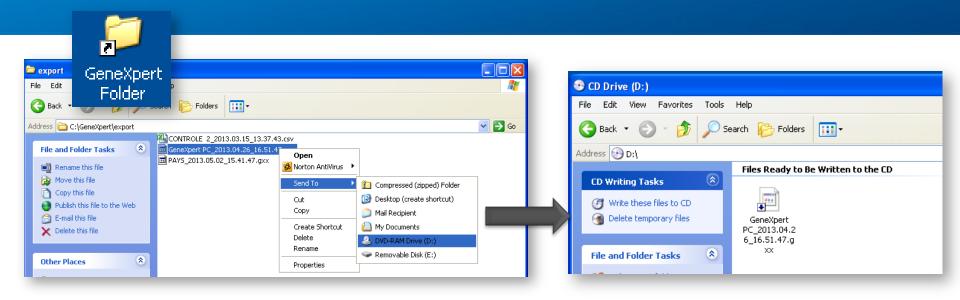


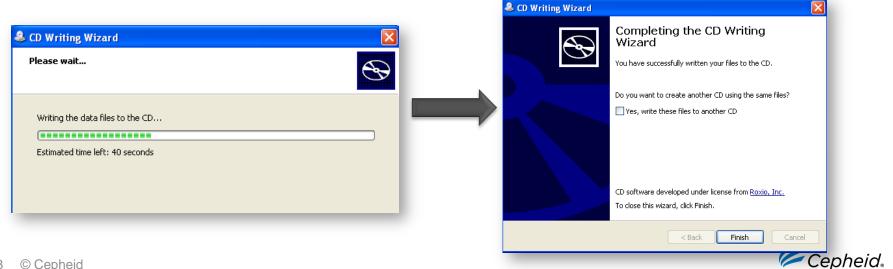






Saving data on CD or CD-RW





Calibration of modules

- All modules must be calibrated every year or after 2000 tests
- Calibration done thanks to XpertCal® cartridges
- Performed by end users

STEP 1 OBTAIN STEP 2 CALIBRATE STEP 3 ACTIVATE



On request Maintenance tasks

NOT to be performed on a regular basis!

 Cepheid technical support team may ask you to perform specific maintenance task in case of malfunction:

- Use the Module Reporters tool
- Valve maintenance
- Perform self-test
- Open Module Door or Update EEPROM



GeneXpert® System Maintenance Log																															
	GeneXpert [®] Serial Number:													Installation Date:																	
Institution name and lab location	Date of last Calibration:													Maintenance Month: Year:																	
Instructions: 1. Enter the name of your institution, GeneXpert Serial Number, last calibration date, installation date, and the current month and year above. 2. For each maintenance activity listed below check the box(es) under the day of the month that the activities were performed and enter your initials (2characters maximum) in the bottom row. 3. Save the file after entering the data. We recommend saving one file each month for a complete record of activities.																															
Daily Maintenance	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Clean work area																															
Keep module doors upright																															
Discard used cartridges																															
Weekly Maintenance																															
Reboot the Gene X pert Instrument																															
Reboot the software and computer																															
Monthly Maintenance																															
Archive Runs ** (Chapter5)																															
Delete Runs ** (Chapter5)																															
Disinfect Gene X port Insument surfaces* (Chapter 10)																															
Disinfect Cartridge Bay Interior*(Chapter 10)																															
Disinfect Phinger Rod* (Chapter 10)																															
Clean Fan Filters																															
Calibration of the Instrument																															
Yearly or every 2000 runs per module, whichever is first (Chapter 7)***																															
As Required																															

NOTES:

Print System Log Report (Chapter 10)

Technician Initials (two letters)

See the appropriate chapter reference in the Operator Manual for complete instructions and procedures.

* To dean or disinfect a surface, wipe it with a 1:10 dilution of household chlorine bleach solution then wipe again with 70% ethanol or isopropyl alcohol.

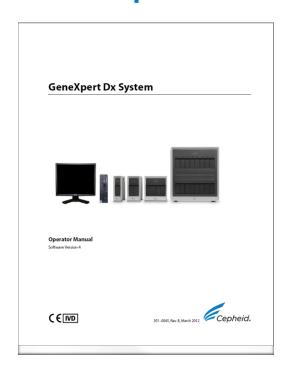
** Monthly archiving is recommended, however, each laboratory can choose a different period.

*** At 11 months or 1800 run starts (whichever comes first) call the Cepheid Service Department at (888) 838-3222, option 3 to schedule calibration



For more information on Maintenance of GeneXpert®

GeneXpert® User Manual: Chapter 9



FTP server: ftp://hbdc:Crasa7Uc@ftp.caplaser.net

Copy and paste the link in Windows Explorer (not Internet Explorer)



Cepheid Training & Assistance

If you have any question or need a training please contact us.

- Cepheid HBDC Europe training center: +33.5.63.82.53.60 (53.78) (53.86) *Monday to Friday : 8.00 am - 6.00 pm GMT+1*

- Cepheid Technical hotlines: (Instrument Issues or Other error codes)

* Europe Monday to Friday : 8.00 am - 6.00 pm GMT+1

Tel. +33.5.63.82.53.19

Email: support@cepheideurope.com

* US Monday to Friday : 6.00 am - 9.00 pm Pacific Time

Tel. 888-838-3222, Option 2 /

Email: techsupport@cepheid.com

When contacting Cepheid, please prepare: The Serial number of the GeneXpert®, the recorded error messages, the description of the incident and when possible the archived runs concerned.

