



How to Clean and Replace the Fan Filters on a Cepheid® GeneXpert®

Cepheid® Self Help Article

Title: How to Clean and Replace the Fan Filters on a Cepheid GeneXpert

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Introduction: Cleaning and replacing the GeneXpert's fan filter(s) on a regular basis will help maintain the instrument's internal temperature at an acceptable level. It prevents the modules and other internal electronics from overheating. The solution below provides instructions on how to clean and replace the fan filters on several models of the Cepheid GeneXpert System. Page down until you locate the instructions for your model.

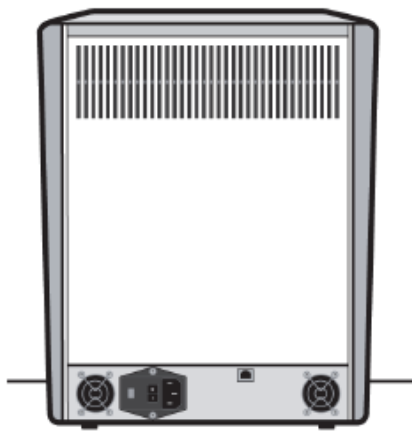
Solution:

NON-User-Serviceable GX-II and GX-IV Fan Filters

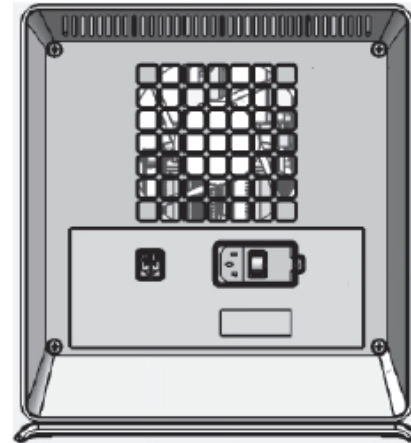
There are two styles of fan filters on the GeneXpert GX-II and GeneXpert GX-IV instruments. If the GeneXpert instrument has a rear panel such as the ones shown below, the fan filters are not user-serviceable and must be replaced by a Cepheid Field Service Engineer. Request your Cepheid Field Service Engineer to replace the fan filters on the next service call for the system.



GX-II



GX-IV R1



GX-IV R2

User-Serviceable GX-II and GX-IV Fan Filters

Note: In order to minimize system downtime, Cepheid recommends that you have a spare fan filter available to swap with the dirty fan filter being cleaned. After removing the fan filter, it may be cleaned and re-used the next time that a fan filter is removed for cleaning.

Clean the fan filters monthly or more frequently, if necessary. There is one fan filter on both the GeneXpert GX-II and the GeneXpert GX-IV instruments. Location of the fan filters is on the back of the instruments. The materials needed for the procedure are as follows:



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- Replacement fan filters:
 - GeneXpert GX-II – Filter part Number: 001-1271
 - GeneXpert GX-IV – Filter Part Number: 001-1537
- Paper towels
- Water
- Disposable gloves

Important: The GeneXpert and computer must be powered down prior to performing the filter cleaning described below. This procedure must be performed on a monthly basis.

1. Make sure all tests have finished running before attempting to move the instrument.
2. Turn off the GX-II or GX-IV instrument and the computer.

Note: If needed, gently move the instrument when performing the following procedure for fan filter cleaning.

Warning



Use care when moving the instrument. Do not attempt to lift the instrument without proper safety training and assistance. Lifting or moving the instrument without proper training and assistance can cause personal injury, damage the instrument, and void your warranty.

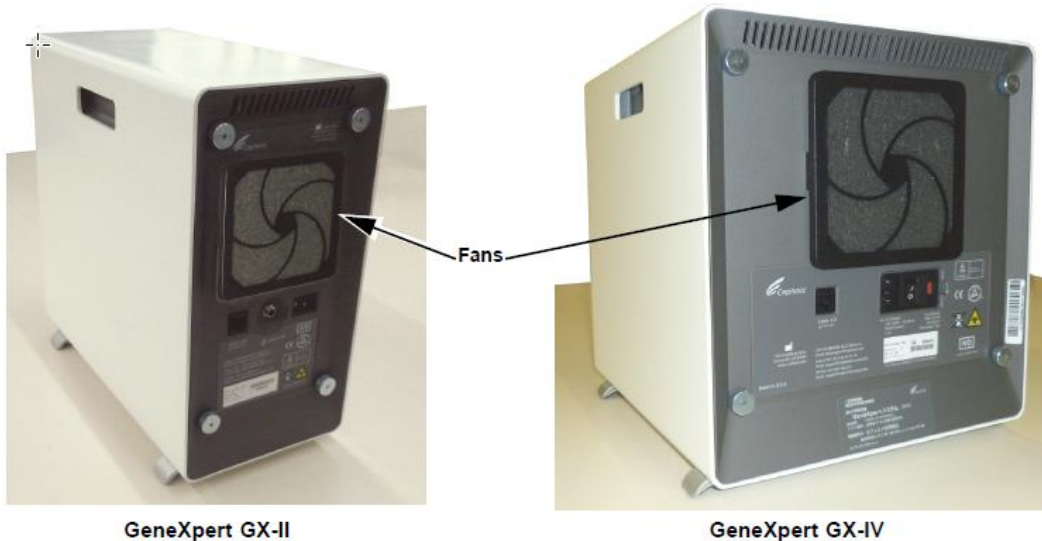
Caution



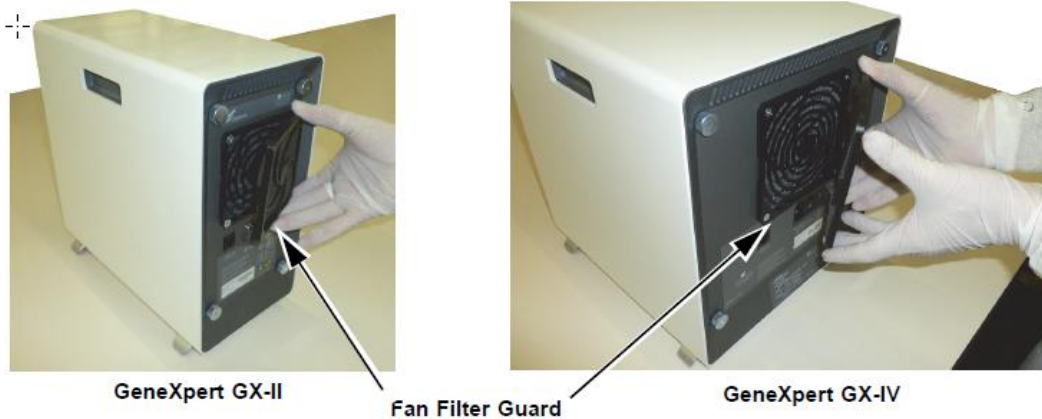
Be careful not to drop the instrument.

3. Reposition the instrument so the fan filter can be readily accessed.

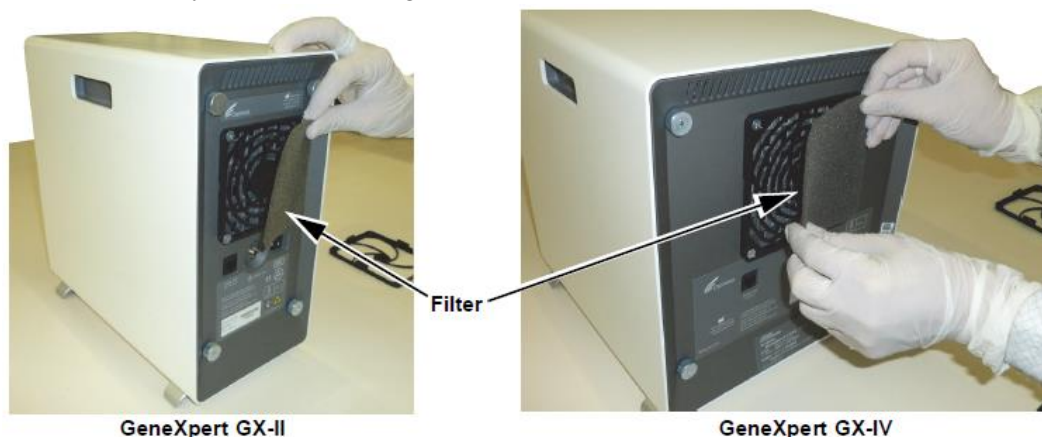
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4. Gently take the fan filter guard off by unsnapping the guard from the fan housing and place it aside for the remainder of the procedure for filter removal and cleaning.



5. Remove the dirty filter for cleaning.





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6. Place a clean filter into the fan filter guard.
7. Position the fan filter guard and filter into place as a unit. Press the sides of the guard firmly onto the fan housing until the grip snaps securely onto the fan. Press the bottom of the guard until the grip snaps securely onto the fan.



GX-II: Pressing the Bottom into Place



GX-IV: Pressing the Sides into Place

8. Clean the old filter by washing it. Place this cleaned filter between two paper towels and allow it to air-dry.

Caution



Never wash a fan filter and then put it back onto the system immediately. The fan filter must be completely dry before installing it onto the system.

9. After the filter is dry, store it to use the following month, when you next remove the filter for cleanup.
10. In the maintenance log, fill in the date of the fan filter cleaning and keep it for your records.

User-Serviceable GX-XVI R1 Fan Filters

Note: In order to minimize system downtime, Cepheid recommends that you have spare fan filters available to swap with dirty fan filters being cleaned. After removing the fan filter, it may be cleaned and re-used the next time that the fan filters are removed for cleaning.

Clean the fan filters monthly or more frequently, if necessary. There are four fan filters on the GeneXpert GX-XVI R1. Location of the fan filters is on the back of the GX-XVI R1. The materials needed for the procedure are as follows:



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- Replacement fan filters – Filter Part Number: 001-1271
- Paper towels
- Water
- Disposable gloves

Important: The GeneXpert and computer must be powered down prior to performing the filter cleaning described below. This procedure must be performed on a monthly basis.

1. Make sure all tests have finished running before attempting to move the instrument.
2. Turn off the GX-XVI-R1 instrument and the computer.

Note: If needed, gently move the instrument when performing the following procedure for fan filter cleaning.

Warning



Use care when moving the instrument. Do not attempt to lift the instrument without proper safety training and assistance. Lifting or moving the instrument without proper training and assistance can cause personal injury, damage the instrument, and void your warranty.

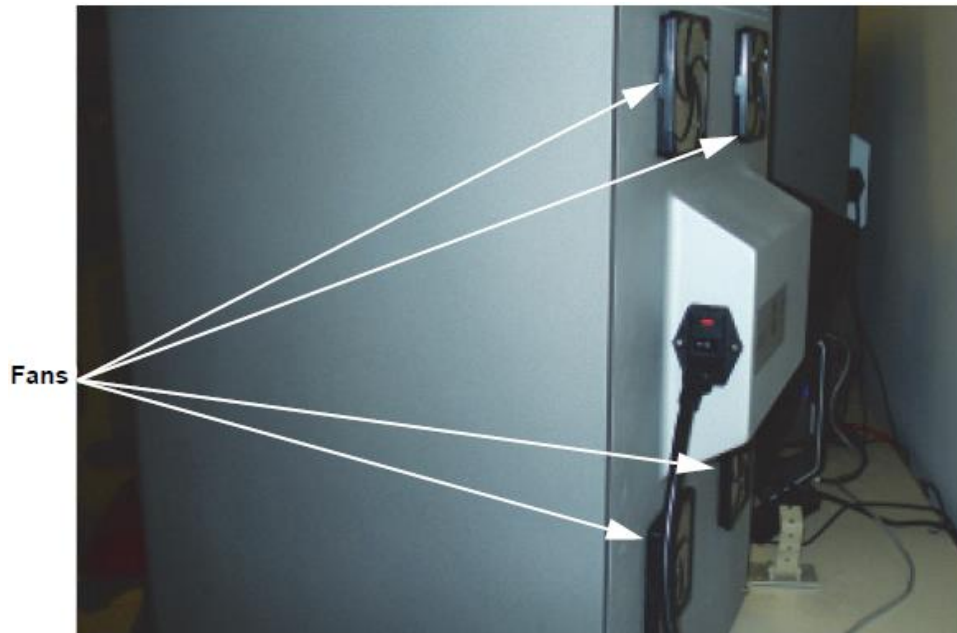
Caution



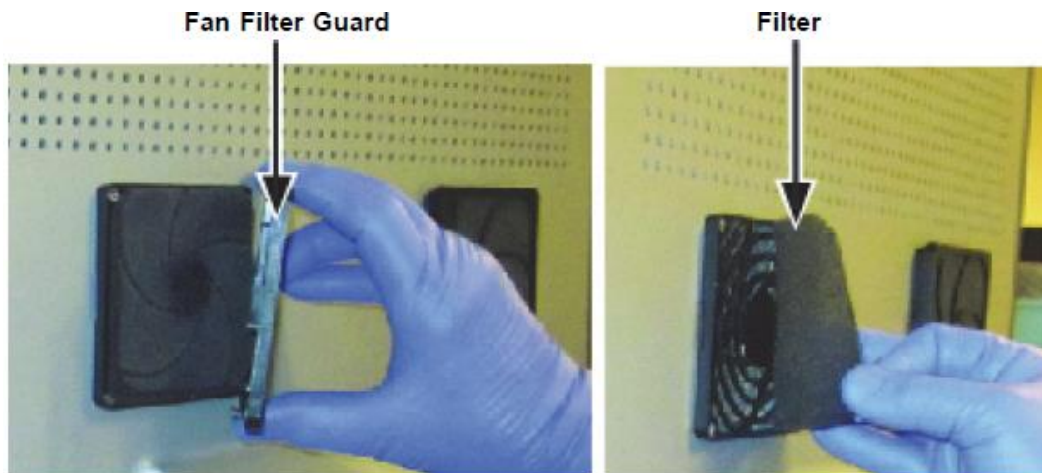
Be careful not to drop the instrument.

3. If there is not sufficient rear access to the instrument, slide the instrument around so you can easily access the filter covers.

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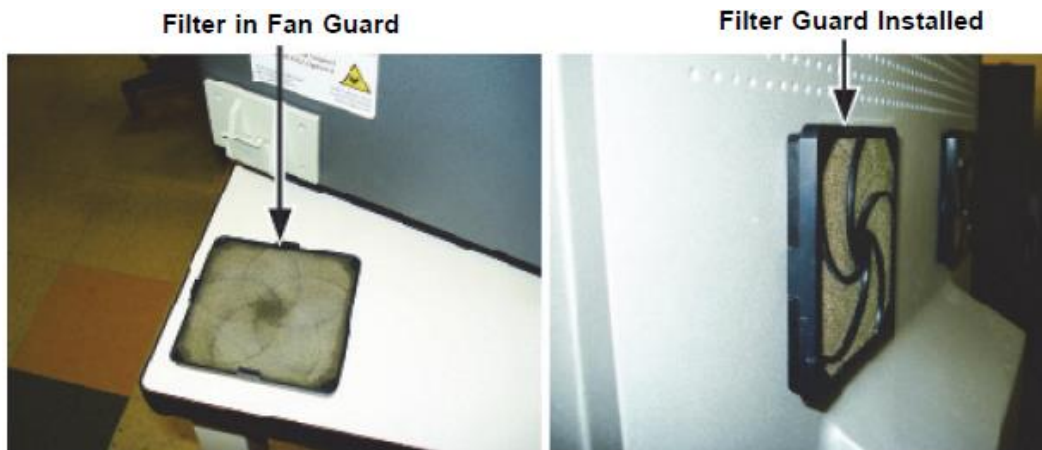


4. Gently take the fan filter guard off by unsnapping the guard from the fan housing and place it aside for the remainder of the procedure for filter removal and cleaning.



5. Remove the dirty filter(s) for cleaning.
6. Place a clean filter into the fan filter guard.
7. Position the fan filter guard and filter into place as a unit. Press the sides of the guard firmly onto the fan housing until the grip snaps securely onto the fan. Press the bottom of the guard until the grip snaps securely onto the fan.

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8. Repeat Step 4 through Step 7 for the remaining fan filters (three additional filters).
9. Clean the old filters by washing them. Place each cleaned filter between two paper towels and allow it to air-dry.

Caution



Never wash a fan filter and then put it back onto the system immediately. The fan filter must be completely dry before installing it onto the system.

10. After the filters are dry, store them to use the following month, when you next remove the filters for cleaning.
11. In the maintenance log, fill in the date of the fan filter cleaning and keep it for your records.

User-Serviceable GX-XVI R2 Fan Filters

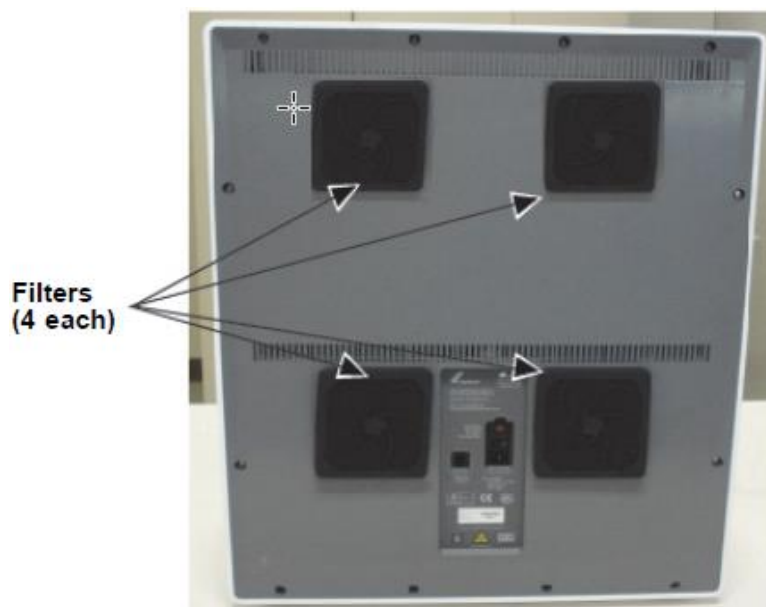
Note: In order to minimize system downtime, Cepheid recommends that you have spare fan filters available to swap with dirty fan filters being cleaned. After removing the fan filter, it may be cleaned and re-used the next time that the fan filters are removed for cleaning.

Clean the fan filters monthly or more frequently, if necessary. There are four fan filters on the GeneXpert GX-XVI R2. Location of the fan filters is on the back of the GX-XVI R2. The materials needed for the procedure are as follows:

- Replacement fan filters – Filter Part Number: 001-1537
- Paper towels
- Water
- Disposable gloves

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Important: The GeneXpert and computer must be powered down prior to performing the filter cleaning described below. This procedure must be performed on a monthly basis.



1. Make sure all tests have finished running before attempting to move the instrument.
2. Turn off the GX-XVI R2 instrument and computer.

Note: If needed, gently move the instrument when performing the following procedure for fan filter cleaning.

Warning



Use care when moving the instrument. Do not attempt to lift the instrument without proper safety training and assistance. Lifting or moving the instrument without proper training and assistance can cause personal injury, damage the instrument, and void your warranty.

Caution



Be careful not to drop the instrument.

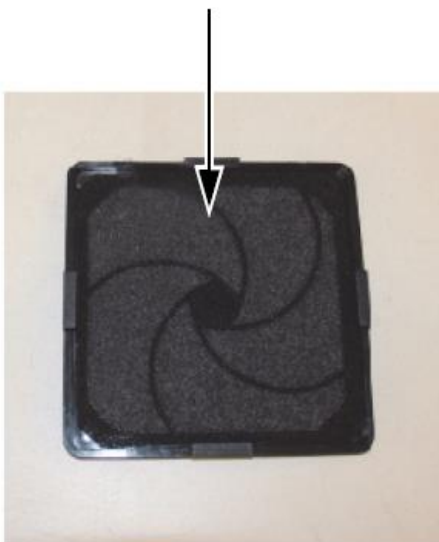
3. If there is not sufficient rear access to the instrument, slide the instrument around so you can easily access the filter covers.
4. Gently take the fan filter guard off by unsnapping the guard from the fan housing and place it aside for the remainder of the procedure for filter removal and cleaning.

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5. Remove the dirty filter(s) for cleaning.
6. Place a clean filter in the fan filter guard.
7. Position the fan filter guard and filter into place as a unit. Press the sides of the guard firmly onto the fan housing until the grip snaps securely onto the fan. Press the bottom of the guard until the grip snaps securely onto the fan.

Filter in Fan Guard



Filter and Fan Guard Installed



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8. Repeat Step 4 through Step 7 for the remaining fan filters (three additional filters).
9. Clean the old filters by washing them. Place each cleaned filter between two paper towels and allow it to air-dry.

Caution



**Never wash a fan filter and then put it back onto the system immediately.
The fan filter must be completely dry before installing it onto the system.**

10. After the filters are dry, store them to use the following month, when you next remove the filters for cleaning.
11. In the maintenance log, fill in the date of the fan filter cleaning and keep it for your records.