

AERI-SPARC BLOWER FILTER REPLACEMENT PROCEDURE

UNIVERSITY OF WISCONSIN-MADISON
SPACE SCIENCE AND ENGINEERING CENTER
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Scope:

This procedure describes the steps required to replace the AERI-SPARC front-end blower filters. They should be replaced about once a month, or more often in a dusty environment.

Starting Configuration:

The AERI Interferometer Unit can be either in operational mode or powered off.

Instrument Parts Required:

- Pre-filter (fiberglass batt, 6-7/8" dia.) Qty: 1
- Filter (polyester batt, 6-7/8" dia.) Qty: 1

Tools and Equipment Required: none

Notes & Precautions:

- Ensure that the blower is powered off when replacing filters (so as not to introduce dust into the front-end enclosure).
- If the AERI is in operational mode, avoid powering-off the instrument (so as not to interrupt data gathering).
- Both types of filters have a preferred airflow direction.

Procedure:

1. If the AERI is in operational mode, unplug the power cord to the blower. (The outlet is located on the back of the Hatch Controller box.)
2. Remove the four thumbscrews that hold in the screen ring. (See figure.)
3. Screw two of the above thumbscrews into the edge of the screen ring, and pull it out.
4. Remove the two used filter discs and discard them.
5. Insert the polyester batt filter first, with the blue side against the inner screen. Insert the fiberglass batt filter second, with the "firmer" side against the first filter.
6. Re-install the screen ring using the four thumbscrews.
7. If the AERI is in operational mode, plug in the power cord of the blower. (There is a dedicated outlet on the back of the Hatch Controller box.)

