

TECHNICAL NOTE

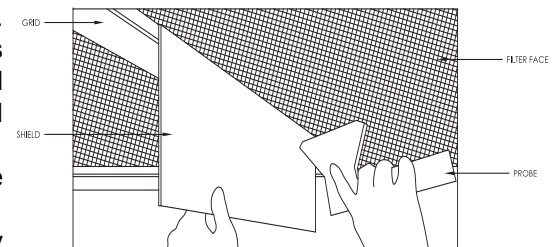
■ Introduction

The MAC 10 family of fan filter units (FFUs) are designed to be used with a gasket-sealed cleanroom grid as specified by the original submittal. The most standard size of gasketed grids from the factory is 23.63 x 47.63 (2 x 4), but other sizes are available as specified. The grid gasket needs to be provided regardless of filter size. Gasketed grids should include the gasket installed on the grid as purchased. ENVIRCO can supply additional gasket if required. If using a metal frame or sheet rock adapter in your installation, installation of the gasket to the frame is also required.

FFUs are generally used in gasketed grids, though there are occasions where a gel seal grid may be used. In this case, ensure that you do not cut the gel in the grid to create bypass.

■ Preparation

1. Filters should be tested and patched as required by a qualified certifier. Ensure that all equipment is the proper equipment and that a report is generated as required to your GMO specifications. FFU map should be included recording ceiling location, serial number of FFU, and serial number of filter.
2. Check to ensure that the filter is properly sized for the grid it is to be mounted on.
3. Make sure the gasket on the grid is level and does not contain any gaps, especially if it is an older grid and is not in good condition.
4. Determine if the grid is level and if the filter frame is square and level (not warped in any way).



■ Leaking Filter Determination

- If it appears that the filter frame may be leaking on a Standard style filter, isolate the side of the filter from the T-Grid.
- If it appears that the filter frame may be leaking on an RSR/RSRE style filter, isolate the side of the filter from the T-Grid and the filter frame.
- Use an isokinetic probe to scan the grid frame and filter to see where the leak is potentially coming from. (Reference image above.)
- Refer to IEST-RP-CC034 (HEPA and ULPA Filter Leak Tests) for additional information.

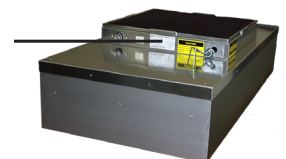
■ Repairing Filters

Filters should be patched by a qualified certifier. Filter repair should not block or restrict more than an additional 3% of the filter face area, and no single repair should have a lesser dimension exceeding 3.8 centimeters or 1.5 inches. If it is determined that a filter is leaking and cannot be patched according to this Recommended Practice, please request a new filter from the factory.

■ Replacing Filters

To request a new filter from the factory, ENVIRCO will require:

- Company purchased from
- Original purchase order number or ENVIRCO CO number
- FFU part number (found on the FFU Serial No. Label)
- Copy of certification report



Email the above information to customerservice@envirco.com or call ENVIRCO Customer Service at (800) 884-0002. Filter change-out information can be located in the appropriate model Installation and Operation Manual (IOM). You can request IOMs for your MAC 10s from ENVIRCO or download them online at www.envirco.com.