

The LITHOGUARD filters will need to be changed periodically. The filter life in a typical fab environment depends on media type, airflow rate, contamination type, and concentration. For specific recommendations for your preventative maintenance, please contact a Donaldson representative.

TO INSTALL FILTERS ON THE LITHOGUARD V1.0 AND V2.0:

- 1 Turn off the compressed dry air (CDA) supply.
- 2 Rotate latches to open door.
- 3 Relieve the CDA pressure by rotating the bleed valve T-bar counterclockwise. This will allow the seals to deflate.
- 4 Slide out the used filter(s) using the two handles located on the front panel of each filter.
- 5 Slide new filter(s) into each slot, making sure the front face of the filter is flush with the housing and the direction airflow arrow points upwards. **If the filter face is not flush with the housing, it is not fully inserted, and the inflatable seal will not work properly.**
- 6 Close the bleed valve by rotating the T-bar clockwise until it is tight.
- 7 Close the LITHOGUARD door, and secure it by turning the latches.
- 8 Restore the CDA to re-inflate the seals. Ensure that the pressure is set to 25 psi.
- 9 The system is now ready for operation.

TO INSTALL FILTERS ON THE LITHOGUARD 300:

- 1 Turn off the airflow to the system.
- 2 Rotate the latches to open door.
- 3 Release the filters by opening the handle for each filter. The particulate filters are closest to the sides of the system. The chemical filters are closest to the center of the system.
- 4 Slide out the used filters by reaching into the area next to the filters and pulling them out.
- 5 Slide in new filters, keeping the airflow arrows pointing towards the sides (with the finger pull rings on the top).
- 6 Make sure each filter is pushed as far into the unit as it will go, and secure by closing each handle.
- 7 Close the doors and secure with latches.
- 8 The system is now ready for operation.

LITHOGUARD® FILTER INSTALLATION INSTRUCTIONS

TO INSTALL FILTERS ON THE LITHOGUARD-12:

- 1 Roll system out of crate and move to intended location.
- 2 If desired, bolt system to floor or framework using the brackets supplied. Use the leveling legs to raise the system enough to remove the casters. Casters can be left in position if the system does not need to be lowered. Lower the stem to desired height (not less than 2.63" / 66.7 mm). First attach one part of the bracket to the system on all four sides. Then attach the second bracket to the first on all four sides. Finally bolt the brackets to the floor and tighten all bolts.
- 3 Remove protective coverings from inlets and outlets. Attach inlet and outlet ductwork, making certain the connections are sealed.
- 4 Install the inlet and outlet ductwork to the appropriate rollers. Open the doors to the system by lifting and rotating the latches.
- 5 Remove and set aside the packages of particulate filters that were shipped inside the unit. Remove and set aside the dividers (wrapped separately in the crate). These all get installed at the same time as the chemical filters, which were shipped separately.
- 6 For operation, the cabinet requires a total of 6 particulate filters (part number P512660), 12 chemical filters (P512612 or P510805 Old Style), 5 dividers, and 1 sampling divider (P/N P510959). If mid-series sampling is required, identify and set aside the divider with the sampling port connector.
- 7 Record the installation date on the filter label and/or in compliance with end-user or tool manufacturer quality assurance procedures.
- 8 Starting with the bottom shelf, insert the rear particulate filter adjacent to the outlet plenum. Next, slide the two chemical filters and insert a divider between the two chemical filters. Repeat this operation for the front filters and configure in a similar fashion for the remaining shelves.
- 9 If mid-series sampling will be done, be sure the sampling divider (with the port) is positioned on the top shelf at the front. Then connect the mid-series sampling tube located in the inlet plenum to the connector on that divider.
- 10 Secure all filters (chemical, particulate, and dividers) by closing the swing arm on the right side of each level. The door will not close if the swing arms are not fully closed.
- 11 Close the door and secure it by turning each of the latches. The LITHOGUARD-12 system is now operational. If mid-series sampling is desired, remove the plugs from the ¼ inch tube port(s), then attach sampling lines. A sampling elbow is provided (in a plastic bag hanging from a swing arm) that can be installed in place of the plug in the divider frame.

Contact Donaldson today for more information!



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