

Dynamic V8-SL Media Replacement INSTRUCTIONS



Warning – Operating the Dynamic V8 Air Cleaning system without power will impact air cleaning system performance, shorten the life of the media and can cause static pressure issues.

Troubleshooting

- **Power Switch on the Control Panel is not illuminated:** This is most likely due to a loss of line voltage to the Control Panel. Check the line voltage input to the panel. Verify the input voltage indicated on the wiring diagram on the inside of the Control Panel is correct.
- **Blue return indicating light(s) on the Control Panel is not illuminated and all the blue power indicating lights on the Air Cleaner Modules are not illuminated:** Verify that the access door limit switch is connected to the terminal strip (Terminals 3 & 4) and is making contact when the door is closed.
- **Red or Green indicator lights on one or more Modules are flashing slowly:** The red/green lights on the Modules indicate the functioning of the high-voltage power supply. The high-voltage power supply has an internal smart chip that will shut down the power supply for several seconds if the current draw increases above a certain threshold. This is a standard feature on high-voltage power supplies to prevent a sustained short.

If this condition occurs immediately after a media pad replacement, it is likely the result of a damp media pad(s) or media pads that have been misaligned or installed backwards.

If this condition occurs during normal operation, the most common cause is moisture; possibly from a leak, entrainment of rain or snow, or a high percentage of outdoor air with very high humidity. Under these circumstances, once the media pad(s) dry out, indicator lights will return to solid “on”.

Notes

- **Vacuuming:** If there is a noticeable buildup of debris or large particles on the screens, the surface may be vacuumed off the surface without opening the Air Cleaners. To prevent damage to media pads, it is recommended that media pads NOT be removed for cleaning. A long flat nozzle, such as the type used to vacuum condenser coils, works best as it can reach all the way to the back of the “V”s. Be sure to turn off the Air Cleaners at the Control Panel before performing any maintenance.
- **Prefilters:** Most Dynamic V8 applications do not require prefilters during normal operation. However, if the Air Cleaners are operational during a construction phase, to ensure maximum media life, a MERV 9 or equivalent prefilter should be used to protect the system.
- **Ordering Replacement Media Pads:** When replacement media pads are required, contact your Dynamic Authorized Representative or contact Dynamic Air Quality Solutions directly at (800) 578-7873. All replacement media pad size and quantity requirements are maintained by job name and location.

For technical support, call (800) 578-7873, or e-mail info@DynamicAQS.com.



Dynamic Air Quality Solutions
P.O. Box 1258
Princeton, NJ 08542
Tel: (800) 578-7873
Fax (609) 924-8524
www.DynamicAQS.com



Dynamic V8-SL Media Replacement INSTRUCTIONS

Dynamic V8 media pads have an exceptionally long life compared to standard passive filters. Therefore, it is recommended that Dynamic V8 media pads be changed at a pressure drop set point, rather than a specific time interval. Although Dynamic V8 Air Cleaning Systems can withstand pressure drops well over 2.0” w.g., from the standpoint of energy savings, it is recommended that the media be changed when the pressure drop has increased by 0.40” to 0.50” w.g. above the initial static pressure recorded at start-up. Dynamic V8 media pads will typically last 3-5 years in most applications.

Find the link to a brief instructional video “Dynamic V8 Replacement Media Video” in the left margin at www.DynamicAQS.com/V8.

Call Dynamic Air Quality Solutions with any questions (800) 578-7873.



Warning – Moving Parts and Risk of Electric Shock – These servicing instructions are for use by qualified personnel only. All fans, motors, and Air Cleaners should be turned-off and powered down prior to servicing the Air Cleaners.

General

1. Dynamic V8 media pads are directional in terms of airflow. The overall process for changing the media pads is the same for both upstream and downstream orientation, although, the media pads are positioned differently as shown on next page.
2. Prior to any service or maintenance, make sure the Air Cleaner Control Panel is switched “off” and the AHU fan is deactivated.
3. Wear a dust mask and eye protection.
4. Make certain that the replacement media pad size matches the size listed on the Control Panel and on the individual Air Cleaner Modules.
5. Each media pad has one side of the frame that is either **red** or **blue**. For each Module, you will need an equal number of replacement media pads with **red** and **blue** plastic frames.
6. Each media pad contains a high-voltage contact disc that must be properly oriented. This is a metallic disc, approximately 1/2” in diameter, that will contact the high-voltage terminal probe mounted to the stationary screen of the Air Cleaner when the frames are closed.

Dynamic V8-SL Media Replacement INSTRUCTIONS

Media Replacement

1. Noting the Airflow directional arrows, determine whether the Air Cleaner Modules will be serviced from the upstream side or the downstream side.
2. Note the module numbers and configuration. Disconnect the jumpers attached to all V8-SL Modules in the first column and the connecting cable to the Control Panel.
3. Using the pull handles and crossbars, slide out the top V8-SL Module and place it on a clean surface with latches facing up.

4. To remove the loaded media pads: Unlatch and open the aluminum media pad frames and carefully remove the pads. Frames can be partially or completely removed to aid in media pad replacement.
5. **When installing new media pads, the orientation of the RED and BLUE side of the frames and the high voltage contact disc are critical (see below).**

6. To install new media pads: Working one Module at a time, insert the bottom media pad into the removable frame and make certain that the media pad is securely seated in the frame. Slide both the media pad and frame into place. Do the same with the top media pad.
7. Repeat for all Modules in all columns.
8. Once all media pads have been replaced, slide the Modules back into their original position. Reconnect all jumpers and connecting cables.

9. Prior to start-up, calibrate differential pressure gauges to zero.
To calibrate a Dwyer digital differential pressure gauge:
 - a. Disconnect the tubing from both pressure ports.
 - b. Remove the cover from the pressure gauge and press the zero button for 3 seconds. The display will read "Zero" and then sequence back to the home display.
10. Reactivate the AHU fan and turn the Control Panel to "On".
11. On the Dynamic Control Panel, the blue light(s) indicate that all the Air Cleaner Modules are powered.

Service from Right-Hand (Upstream) Access:

Bottom media pads will have red frames and top media pads will have blue frames. Install media pads as shown below (Figure 1 & Figure 2).

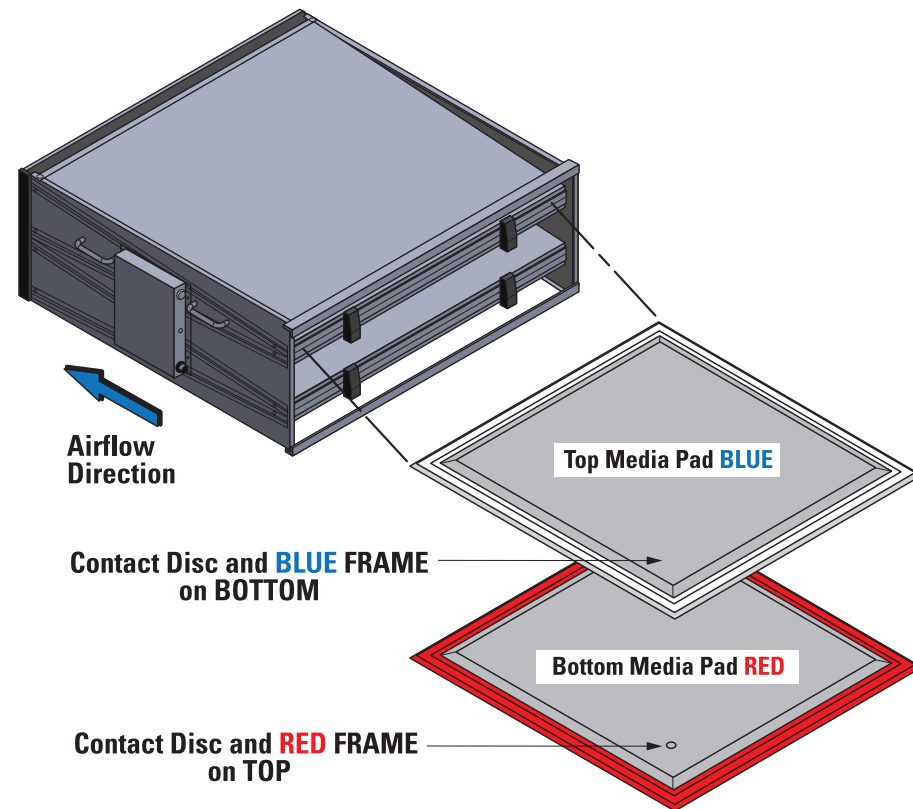
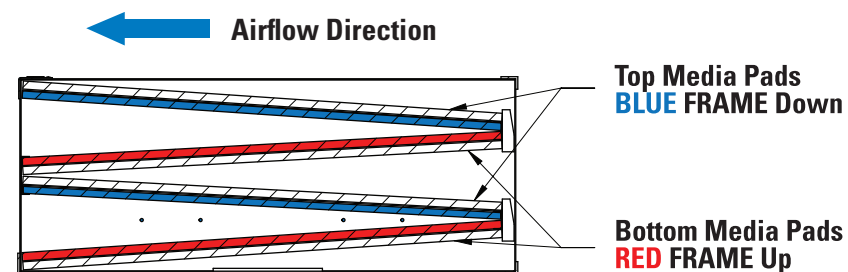


Figure 1
Media Pad Orientation –
Right-Hand (Upstream) Access

Figure 2
Side View –
Right-Hand (Upstream) Access



Service from Left-Hand (Downstream) Access:

Bottom media pads will have red frames and top media pads will have blue frames. Install media pads as shown below (Figure 3 & Figure 4).

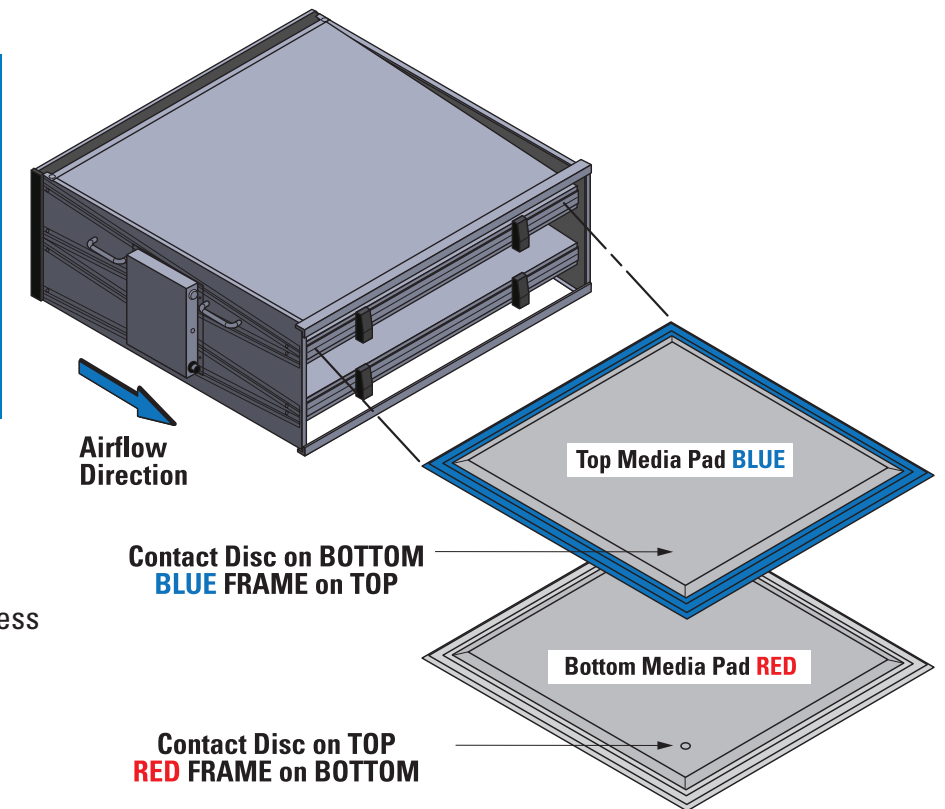


Figure 3
Media Pad Orientation –
Left-Hand (Downstream) Access

Figure 4
Side View –
Left-Hand (Downstream) Access

