

# Dynamic V8 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”.

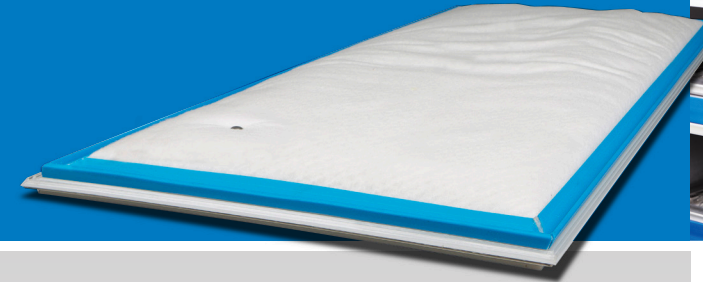
## Notes

- **Vacuuming:** If there is a noticeable buildup of debris or large particles on the screens, the surface of the screens may be vacuumed off 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](mailto: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](http://www.DynamicAQS.com)



# Dynamic V8 Media Replacement INSTRUCTIONS



**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.**

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](http://www.DynamicAQS.com/V8).**

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



## 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. It is generally easier to do one Air Cleaner Module at a time, working your way down a column of Modules. Modules consist of four or six Panels arranged in two or three “V”s. The replacement process is easier when both Panels of a “V” are unlatched and free to move.
7. 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

## Media Replacement

### INSTRUCTIONS

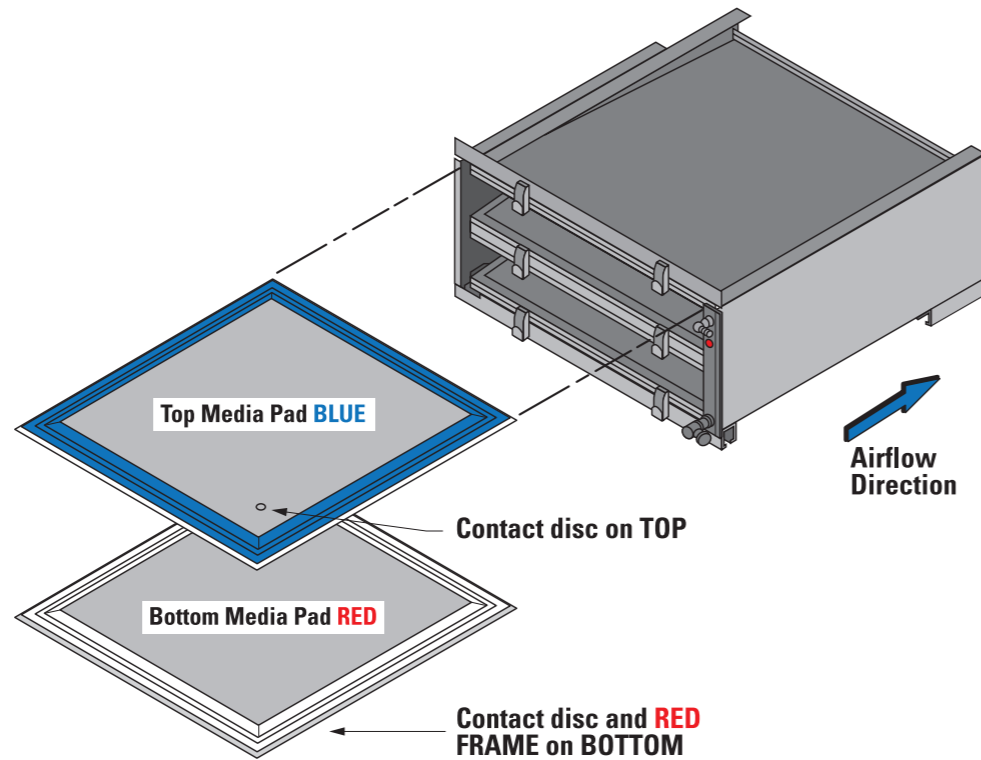
#### Media Replacement

1. Determine whether the Air Cleaner Modules will be serviced from the upstream side or the downstream side.
2. To remove the loaded media pads: Starting at the first Module, unlatch and open the aluminum media pad frames and carefully remove the pads. On most models, frames can be partially or completely removed to aid in media pad

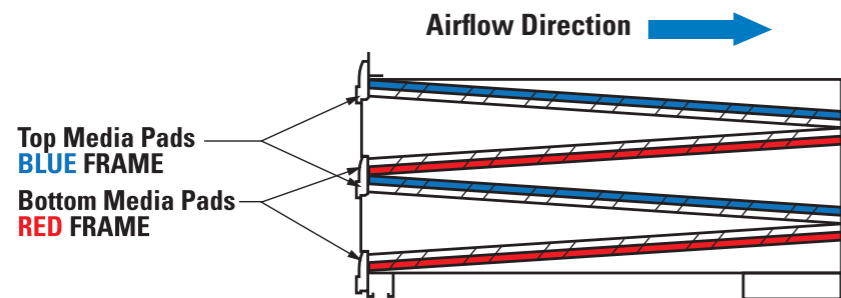
replacement. On some early models, the movable frame is hinged and attached to the Module. In this case, the media pad must be pulled out by the corners of the frame while working the media pad from side to side.

3. **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).** Bottom media pads will have red frames and top media pads will have blue frames.

**Service from Upstream Side:**  
The colored side will always face the stationary frame of the Module. Install media pads as shown below (Figure 1 & Figure 2).



**Figure 1**  
Media Pad Orientation – Upstream Service



**Figure 2**  
Side View - Upstream Service

4. 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. 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. Do not close any of the latches until all the media pads have been replaced.
5. Once all media pads have been replaced, close the latches, working from the top of the section to the bottom.

6. When the media pad changeout in the AHU is complete, and prior to start-up, calibrate differential pressure gauges to zero.

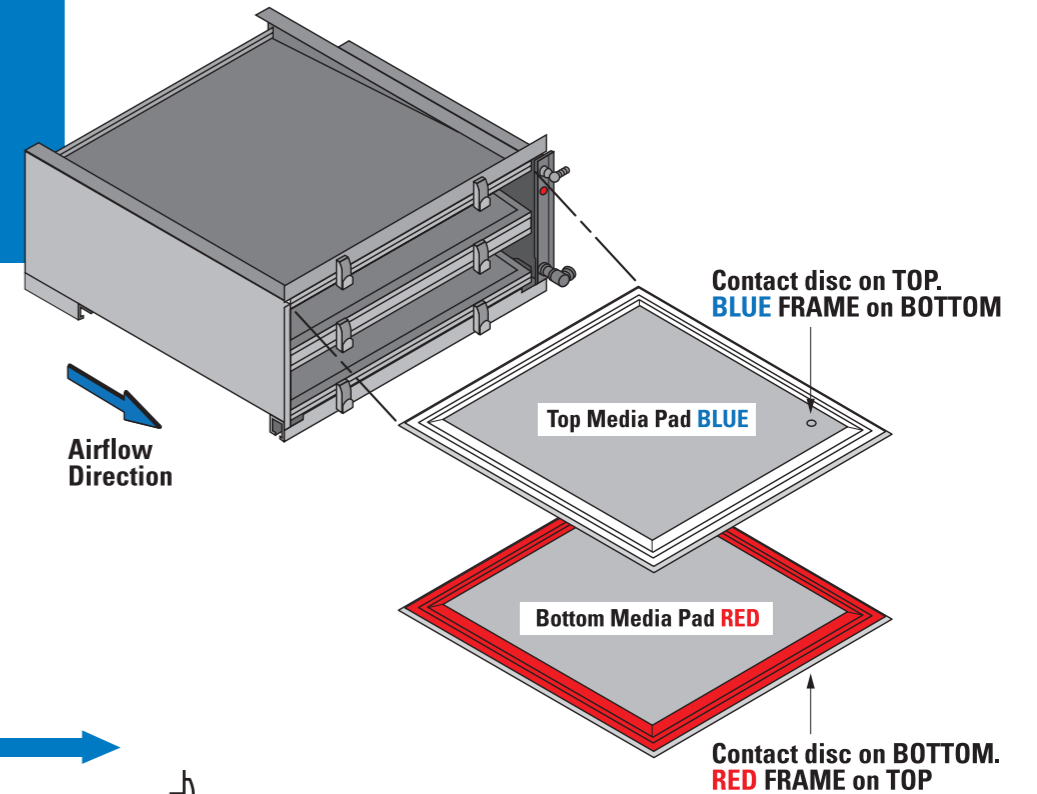
To calibrate a Dwyer digital differential pressure gauge:

- 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.

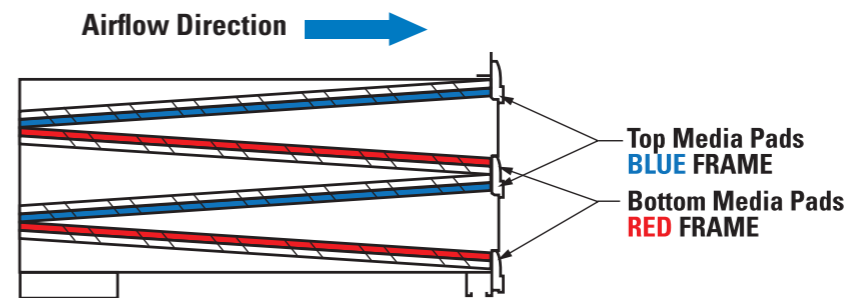
7. On the Dynamic Control Panel, the blue light(s) indicate that all the Air Cleaner Modules are powered.

8. Reactivate the AHU fan and turn the Control Panel to "On".

**Service from Downstream Side:**  
The colored side will always face away from the stationary frame of the Module. Install media pads as shown below (Figure 3 & Figure 4).



**Figure 3**  
Media Pad Orientation – Downstream Service



**Figure 4**  
Side View - Downstream Service