Installation Instructions:

Pleated Filter Elements for Bottom Load Collectors

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1. Before entering the dust collector and beginning the installation procedure, follow the proper lockout, tagout and confined space entry procedures. Remove old bags and cages from the collector. Clean the bag cups/venturis so the urethane top will seal on a clean metal surface. Remove any sharp burrs or surface roughness that can cause tears in the urethane filter element tops. If there is access to the clean air plenum, it should be thoroughly cleaned after removing the used bags and cages.

Note for ePTFE users: The surface of your ePTFE filter element is very delicate! When moving or handling, care must be taken to prevent any scraping of the surface. Cardboard or other smooth material should be placed on or around rough surfaces (such as door frames and handrails) to protect the filtration surface from damage during handling. Do not stack filter elements more than four high. Inspect each filter element for damage from shipping, storage or handling. Do not use damaged elements; they may leak or fail prematurely.

If top load sleeve: Insert the provided installation sleeve in the tube-sheet hole to protect the membrane from the rough edges. [Installation sleeves are located in the box labeled "Open First."] Lower the element through the tubesheet hole, slip the installation sleeve off over the top of the element and complete the installation (see Figure 1).

- 2. Loosely install the clamp between the outer groove markings on the urethane top. The clamp should be on the top, just tight enough to stay in place. Do not re-install used clamps.
- 3. Carefully lift the pleated filter element and work the urethane top of the filter element onto the bags cups/venturi (see Figure 2). Protect the media surface during handling and installation to avoid any damage to the filter media pleats.
- 4. Gently push the filter element up onto the bag cup/venturi until the flexible lip in the inner urethane top snaps into place on the groove in the bag cup/venturi. Pull down slightly or rotate the element to ensure the internal lip is properly engaged in the groove (see Figure 3).

If properly installed, the urethane top of the element will not touch the underside of the tubesheet.

- 5. Center the clamp in the groove in the urethane top. Using a nut driver, hand tighten the clamp. Care should be taken when tightening the clamp:
- Do not over tighten. Over tightening may cause a cutting of the urethane.
- If the urethane material extrudes into the clamp band notches or around the edge of the clamp, over tightening has occurred.
- Use of "lined" clamp is recommended, which protects the urethane from damage. Maximum width of the clamp band is 9/16".

After tightening, you should not be able to rotate the filter element by hand. Make sure the filter elements hang plumb and are not touching each other or the collector wall (see Figure 4)



Figure 1



Figure 2



Figure 3



Figure 4

Operation Procedures for Bottom Load Collectors

- Leave the timer adjustments set as specified by the baghouse manufacturer until operation stabilizes (usually 24-48 hours). We also recommend a precoating agent such as BHA Neutralite® utilized to help establish an initial control layer. Once operation has stabilized, the time interval between pulses should be adjusted daily until the longest off-time possible has been attained without exceeding the designed differential pressure. Excessive pulsing will lead to shortened filter life. Set the pulse on-time at 0.06-0.10 seconds.
- The pressure of the compressed air at the baghouse air header should be set and adjusted as follows when using pleated filter elements: The initial setting should be 60 psi. Increase only if the differential pressure cannot be maintained. Then increase in 5-10 psi increments until it reaches a maximum of 90 psi.
- Only dry compressed air should be supplied to the baghouse cleaning system.
- All inlet ducts should be equipped with baffles or deflector plates to prevent high velocity impingement of the particulate on the filter surface. Dust should never be allowed to build or stand in the hoppers.
- Verification of airflow should be completed after startup of the baghouse. In some cases, the airflow will be increased if proper airflow dampering or other method of controlling airflow is not utilized. Set the dampers or fan speed to the minimum required airflow at the ventilation point. If not controlled, increased pressure drop may occur due to increased grain loading and high gas velocity between filter elements.