

# Technical Bulletin

A technical source for the employees and clients of Osprey Corporation.

## Subject: Zippered Media Installation Instructions

Osprey now offers a new zipper closure for all types of Osprey drum filter media and disk media. The new zipper feature will significantly reduce filter maintenance downtime while increasing production efficiency. Customers report media changes take half the time over the traditional media attachment method with no tightening required after installation. Please follow these simple steps or call your local Osprey representative for assistance.

### STEP 1

**Remove the old filter media from the drum cage sections.** If hanging nozzles are used: RAISE the nozzles away from drum cages to provide clearance for installing media. There is a hole in the nozzle mounting bracket for this purpose: Insert a pin through the hole to temporarily hold the swing arm in the raised position. Figure 1



Figure 1 - Drum Cages Without Media

### STEP 2

**Verify that the Primary and Secondary seals are properly installed.** Refer to the Osprey Drum Filter Manual for information on installing the seals. Figure 2



Figure 2 - Drum Seals Installed

### STEP 3

**Verify that the zip channel COVERS are installed.** The zip channels are not used to retain the zippered media, but the covers must be installed to provide a smooth surface for the media. Figure 3



Figure 3 - Zip Channel Covers Installed

### STEP 4

**Unpack the NEW zippered media for installation.** A clean (plastic) sheet should be placed on the floor for the media to rest on. Figure 4

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### STEP 5

**Wrap the media around the drum as shown.** The start side of the zipper must be on the side **OPPOSITE** the plenum wall. The media 'Pile' must face away from the drum, with the smooth media 'backing' against the drum cage.

- Leave at least 3-5" of media hanging off the end of the drum. The media should **NOT** be flush with the end of the drum.
- On some **LARGER** drum assemblies, it may be easier to utilize the zip strips to temporarily hold one end of the media on the drum, as the drum is rotated to pull the media around. (Be sure to re-install zip covers after this technique is used.) Figure 5



*Figure 5 - Media Wrapped on Drum*

### STEP 6

**Pull the ends of the media together, and start zipper.** Figure 6



*Figure 6 - Starting Zipper*

### STEP 7

**Finish zipping the media across full width of drums.** It may be necessary to pull the media ends together as you pull the zipper.

- It is important to keep the media 'square' so that the zipper is parallel to the ground.
- Smooth the media out as you zip. Do **NOT** leave any wrinkles or bulges. Figure 7



*Figure 7 - Zipping Media*

### STEP 8

**Install Plenum holding band.** At the plenum wall, tuck the media UP and OVER the seal as shown.

- Install the band so that the seal retaining clips firmly press the seal against the plenum wall. Figure 8



Figure 8 - Media tucked over Seal

### STEP 9

**Install Center and End bands.** As you install the bands, verify that they CLEAR the nozzles, and will NOT INTERFERE with the nozzles when the drum rotates. Figure 9

### STEP 10

**Set nozzle to media Gap.** Adjust nozzle support assemblies to achieve a 3/8" gap between the drum filter media and the face of the nozzle.

- Refer to the Drum Filter Manual for instructions on setting this gap.

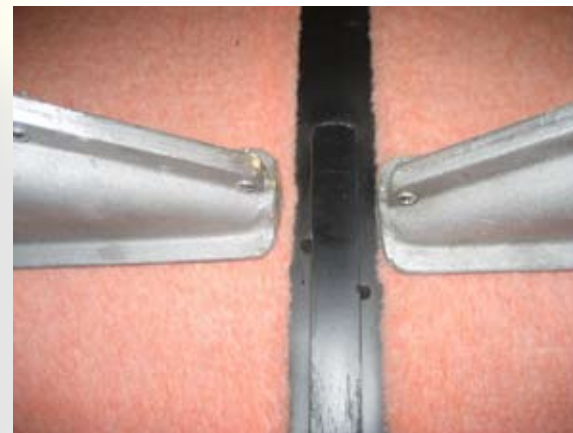


Figure 9 - Holding Bands Installed

### STEP 11

**Verify that the media is properly installed.**

- The media must be flat and not have wrinkles or bulges.
- All holding bands must be TIGHT and CENTERED between nozzles. Verify that bands and band clamps will NOT interfere with nozzles as drum rotates.
- The zipper seam should be straight & parallel to floor.
- Verify the nozzle to media GAP is correct (3/8").



Figure 10 - Zippered Media Installed

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