

Outdoor BIBO Filter System Service Considerations

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Service on a BIBO in an outdoor installation in Canada brings with it many special considerations, including:



Redundant B2-series (separate pre-filter door) BIBO on AIR exhaust application. Stacked filter arrangement with duct manifold in and duct manifold out to redundant fans.

1. Filter service **should be avoided in temperatures below 0°C** for several reasons including:
 - a. PVC bags become very brittle in sub-zero temperatures, risking rips or tears during the Bag-in/Bag-out (BIBO) filter service,
 - b. Damper actuators can freeze and be damaged by ice or frost,
 - c. Damper seals can be torn when rotated if ice or frost has built-up on the seals or duct wall,
 - d. Ice and snow on the roof makes walking and filter handling tricky, maybe dangerous,
 - e. HEPA filter challenge testing, if required, is very difficult as challenge aerosols cannot easily be generated in sub-zero temperatures and photometer equipment can malfunction in the same low temperatures.
 - f. Gages, door knobs and other fittings can be frozen and malfunction or even break when servicing in sub-zero temperatures.
2. **Windy conditions must be avoided** because BIBO bags are difficult to handle and filters can be treacherous to handle.
3. It also goes without saying that filter service on rainy days must be avoided since filter medias and testing equipment need dry conditions in order to be safely operated.

RECOMMENDATION: ALL Preventative Filter Maintenance work should be scheduled during the Spring and Autumn months to take advantage of the temperate weather. (It's far better to change filters a little early than to be forced to service a BIBO filter system in the middle of January..... PLAN AHEAD.)