U.S. Air Filtration, Inc

Dust Collector Start-Up Checklist

Looking to start up your collector after an extended shutdown? Follow these steps to make sure your systems starts safely.

Visual Inspection

[ ] Make sure your dust collector is locked out and powered down before proceeding further.
[ ] Inspect hopper to ensure the discharge, including screw and rotary valve (if applicable) are free of debris.
[ ] Check the interior of your collector for signs of moisture. Is condensation inside the unit?
[ ] Perform visual inspection of filters. Filter should be as clean as possible with minimal dust cake. Dust cake should be dry, not sticky or caked on.

[ ] Check your cleaning system.
- [ ] If you have a pulse jet unit – check your pulse cleaning system.
- [ ] If you have a pulse jet unit - turn on header and listen for air leaks coming from your valves.

[ ] If you have a shaker unit – check your motor assembly.
[ ] If you have a reverse air unit – check to ensure bags are taut.

Fan Inspection

[ ] Make sure your fan is securely bolted to your unit.
[ ] Check to make sure the fan is sealed.
[ ] Check tension on all belts and drives Check belts and chains for signs of wear, including cracking and stretch.

System Start-Up Inspection

[ ] Start up your system by powering on your control panel and your fan.
[ ] Check fan for excess vibration.
[ ] Check your controller to ensure all valve are running.
[ ] Check your differential pressure to make sure pressure is within limits.

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Differential Pressure Guide

ZONE	CARTRIDGE COLLECTOR	BAGHOUSE
Red (Dangerously High)	"WC" > 6	"WC" > 7
Yellow (Moderately High)	"WC" 4.5 - 6	"WC" 5 - 7
Green (Normal)	"WC" .5 - 4.5	"WC" 1 - 5
Blue (Too Low)	"WC" < .5	"WC" < 1

[ ] If your differential pressure is in the blue range noted above, perform a leak detection test.