

# DUST COLLECTOR

## Suggested Maintenance Inspection Guidelines

Felted Fabric Filter or Cartridge Collector, with Compressed Air Cleaning

Must apply appropriate; lockout/tagout & test, and confined space entry procedures.

### Daily Maintenance Checks

(While system operating )

- Pressure Drop Across Filter Media, should be 1.5 to 4.0 inches water ( 2.8 to 7.5 mmHg ). Over 4 inches water gauge indicates a problem, call us for help at 1+ 303 278 9268 !
- Confirm that compressed air header pressure is 90 to 100 psig, ( 6.2 to 6.9 barg) or to manufactures specification.
- Check HEPA filter pressure drop, if equipped.
- Drain any Water from Compressed Air Header.
- LISTEN to full cleaning cycle of pulse valves, investigate to identify and repair pulse valves or solenoids which are misfiring.
- Visual inspection ( or sensor measurement if equipped) of fan exhaust for particulate.
- Assure that components which remove dust from the Collector's hopper are operational.
- Check total fan pressure (pressure across fan).
- Check air flow at farthest collection point .

### Monthly Maintenance Checks

(While system shut down)

- Clean dust accumulation from duct internals.
- Inspect Duct Supports
- Inspect hopper dust discharge device to assure proper air seal at hopper discharge. If Rotary Valve, check/adjust vane clearance.
- Inspect all bolts for corrosion and deformation.
- Inspect Fan rotor and internal scroll for wear.

### Weekly Maintenance Checks

(While system shut down )

- Inspect hopper internals to assure it is clear of collected dust , and the discharge is clear.
- Inspect all gaskets on doors and access ports.
- Inspect clean air plenum for dust leakage and filter elements which are not properly seated. Repair dust leak(s) and vacuum clean and moist towel wipe, any dust found in plenum or inside bag cages (or inside cartridge filter).
- Inspect compressed air; Regulator, Filter and Dryer. ( Air Dew Point less than -40° C or F )
- Clean out differential pressure gauge; tube, tube filter or dust trap to assure proper operation of differential pressure gauge.
- Inspect Fan drive components.
- Check operation of any dampers.

### Quarterly Maintenance Checks

(While system shut down)

- Black Light dye leak test of filter media. Inspect internals of each filter from clean plenum side.
- Inspect all housing welds and bolts.
- Touch up prime and paint where required.

### Annual Maintenance Checks

(While system shut down)

- Inspect all system components for errorision or corrosion.
- Calibrate exhaust particulate sensor
- Inspect, repair/replace inlet baffle

### **Baghouse Duct Design dot Com And Golden Eagle Technologies, LLC**

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We stand by to assist you with addressing your dust collection system challenges. We offer; duct design for proposed or existing installations, retrofits, and operator training. Supporting: Dry Baghouse or Cartridge Collectors, Wet Scrubbers , and Electrostatic Precipitators.

Guidline use only. This document does not specifically address systems handling; toxic, combustible, or explosive materials, which may require additional training, inspections, equipment and safety considerations

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