

Dust collector quarterly maintenance checklist

A quarterly dust collector round is short on purpose: it catches the wear items that fail between annual services. This checklist is sized for a tech with a phone. Every item says what to look at and the photo that proves the round happened. Work is commonly verified against manufacturer's published instructions. Confirm the edition your authority having jurisdiction has adopted.

Who runs it: The maintenance tech on the quarterly round for the collection system. When: Every quarter, and more often on a heavily loaded baghouse, since a blinding filter is the first thing that quietly kills capture at the tools.

Filters and cleaning

- ☐ **Filter differential pressure read and trended**
Magnehelic or gauge reading across the filters recorded and compared against the prior round, a steady climb flagged as filters loading or blinding. **2 photos required**
- ☐ **Pulse-clean operation and compressed air confirmed**
Each solenoid and diaphragm valve heard and felt firing in sequence, header pressure holding, air dryer working so moisture isn't caking the filters. **1 photo required**

Discharge and capture

- ☐ **Hopper and rotary airlock discharge checked**
Hopper not bridged or packed, rotary airlock turning and sealing, dust discharging cleanly to the drum or bin rather than backing up or leaking at the vanes. **2 photos required**
- ☐ **Ductwork and pickup capture verified**
Capture confirmed at the hoods and pickups, ductwork free of leaks, sagging flex or plugged runs, blast gates set where they belong. **1 photo required**

Protection and drive

- ☐ **Explosion-protection devices observed, not tested**
Explosion vents, isolation valve and any suppression seen intact and unobstructed with indicators normal; devices are observed, not function-tested, by the RTI user. **1 photo required**
- ☐ **Fan and motor checked for vibration and noise**
Fan running smoothly, no new vibration, bearing noise or belt slip, motor not running hot, no material buildup unbalancing the wheel. **1 photo required**