



Dust Collector Performance Inspection Report

Client:	Example Manufacturing Inc.
Facility Location:	London, Ontario
Inspection Date:	February 2026
Inspector:	DustCollectorInspection.ca
System Type:	Cartridge Dust Collector

Inspection Scope

- Visual inspection of collector housing, duct connections, and structural supports
- Verification of filter cartridge condition and sealing integrity
- Static pressure measurement across collector housing
- Air velocity measurement at accessible duct locations
- Calculation of total system airflow (CFM)
- Operational review of pulse cleaning system and control panel

Measured Performance Data

Duct Diameter	18 in
Duct Cross Section Area	1.77 sq.ft.
Average Velocity	2,850 FPM
Calculated Airflow	5,045 CFM
Static Pressure (Inlet)	4.2" W.G.
Static Pressure (Outlet)	1.1" W.G.
Differential Pressure (Filters)	3.1" W.G.

Findings

- Minor leakage observed at flexible inlet connection
- Two filter cartridges nearing end-of-life based on differential pressure readings
- Main damper partially closed – airflow below original design target

- Pulse cleaning system operational and cycling correctly
- Fan rotation and motor operation normal

Recommendations

- Replace affected filter cartridges during next scheduled maintenance
- Seal flexible inlet connection to eliminate leakage
- Rebalance main damper to achieve target airflow (approx. 5,500 CFM)
- Conduct follow-up airflow verification after corrective actions

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