

What signs should I look for to diagnose an underperforming dust collector?

The differential gauge reading is a measurement of how dirty your filters are and is the main and most important tool in diagnosing problems. Every collector should have an installed gauge. If the gauge reading is too high, this indicates that your filters are not performing well and will need to be changed. Dirty filters that are not being cleaned correctly will cause the system airflow to be reduced. When this occurs, the suction flow rate at the individual pick up suffers and dust is not being picked up correctly. Another sign of an underperforming dust collector is dust bypass. When the system is designed and operating correctly there should be no dust exiting the clean side of the collector or fan. Another problem sign would be operational noises. Hissing noises can be caused by a leaky door gasket cracking flange caulking or a faulty valve or solenoid. These leaks will cause system problems that will reduce filter life and collector performance. Lastly, if the timerboard, diaphragm valves or solenoids are not working correctly the dust collector will most definitely experience performance issues. Performing routine and consistent maintenance checks on all of the above items will ensure that any problem issues will be caught sooner than later.

Respectfully,
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