

AirForce Testing: Reaching Above & Beyond the Standard

MD Mfg. recently conducted a series of inspections on the newest version of AirForce central vacuum. The test results were dazzling. The first test performed involved an artificially created metal plate to notify us when the airflow was too low. The technology worked great. We were notified when the airflow had diminished to where the bag needed changing. The new AirForce technology was built around this.



When we came to the final part of the testing of the technology with real time “dust,” we were astonished to see how much it actually took to clog the bag. The quality in the new AirForce left us amazed. While checking the airflow differential switch power unit that shuts off automatically when the bag is full, the unit demonstrated much more than we expected. The new AirForce not only impressed us with its science &

technology, but we also discovered a side advantage during the testing.

For the second test, after plugging the unit in and attaching the vacuum hose, we ran the unit on an air-driven power brush (which easily identifies inadequate airflow since it will not run/spin unless adequate airflow is coming from the unit). We then took the hose off of the power brush and began ingesting flour from a 10 lb. bag. First we ingested 1 lb. and did not notice any difference in suction strength. Then 2 lbs., 3 lbs., 4 lbs., 5 lbs.— still no appreciable loss of performance. We lifted the lid and observed 5 lbs. of flour caked to the side of the unit.



Our filtration system is **very good**, and therefore the exhaust had **no** dust coming out of it (if

we had a cyclonic system, we would not have seen everything due to the dust particles that would have been emitted into the room). We then resumed the test with the bag of flour—6 lbs., 7 lbs., 8 lbs., 9 lbs., all the way up to 10 lbs. And we still had good suction—shocking! We lifted the lid of the central vacuum unit. The bag was coated but it was not full. There was 10 lbs of flour in the unit and we still had adequate suction!





We then sent Jason off to the store again to buy another 10 lbs. of flour. We figured that we would need *maybe* 2 or 3 lbs. of flour. Still using the air-driven power brush, we vacuumed **almost every pound!** And finally when we got to **19.35 lbs.** of flour, the vacuum began to weaken significantly, losing power, having insufficient airflow and ultimately shutting off.

Obviously, this test proved our technology by having the unit shut off when the airflow differential diminished. There is no other product like this on the market. It is incredibly unique. And this test also demonstrated how amazing our filtration system is, which prohibits dirt from going through it yet simultaneously allows good airflow. This is because AirForce uses a tapered bag with



a 2-ply microfilter. The first layer of paper is like Tyvek material and its grabs the major debris. It is slippery, causing the debris (e.g., dog hair, carpet fuzz, etc.) to fall off.

There is an air gap between 1st layer (porous) and the 2nd layer (fine filter). The air gap allows the air to channel through the large particles of dust into the finer pores and

does not clog the pores of the finer layer filter. Therefore, over a long period of time, vacuuming up a lot of household dust, you will still have wonderful, longer performance until this bag is full as testified to by the homeowners who have this product. They will tell you that the bag must be almost entirely full before getting suction loss to the point where there is inadequate cleaning.

Once again, we have been convinced of the superiority of MD Mfg.'s products. Not only are we blazing the pathway in modern technological innovations for the central vacuum industry, with our award-winning UPB technology, but our products are incomparable in their quality of performance. This recent test proves once again that MD Mfg. produces the best, most powerful, most reliable central vacuum unit on the market.

