

# Dust Collector Instruction Sheet

This dust collector is designed to be used as a portable system that will remove all airborne toner in your shop. It can be conveniently located on a table or shelf near a dust source, like filling or splitting operations. Or with the optional mounting bracket it can be fastened to a wall or ceiling, saving valuable space.

**This air cleaner is not a direct substitute for a hood. Some operations, like compressed air cleaning, require a hood to enclose the dust source.**

There is no assembly required. Choose a location within 8 feet of a 120 volt electrical outlet. The overall depth is 22", and the width is 21". The unique design exhausts air out of the top of the unit. This will allow a predictable airflow rate, and allows the unit to be pushed all the way back against the wall. There is also a space at the bottom rear of the unit which allows the passage of power cords behind the unit.

**Make sure nothing obstructs the exhaust which will cause the airflow rate to drop. Do not for any reason put your fingers or any object in the exhaust!**

This dust collector has a variable speed switch. Running the blower on low will reduce the airflow to about 400 cfm. However there will be less wear, less energy consumed and less noise on the low setting.

## Filtration System

The filtration system has been very carefully designed and engineered. The purpose is to achieve nearly 100% toner capture, with the lowest possible filter expense, and an airflow of 900+ cfm.

The pre-filter is designed to stop nearly 100% of the dust, and to be reused over & over again by vacuuming it clean. You can clean the foam with a toner vacuum while it is still in the dust collector. **If you want to remove the pre-filter from the unit, just pull the foam out of its frame.** A Sears type shopvac fitted with a toner filter will clean the foam faster and more deeply than a service vacuum. **Do not wash the foam pre-filter with water. Water and toner do not mix.**

**A more thorough cleaning of the pre-filter can be obtained by removing the foam from the dust collector. Lay the foam on a table and thoroughly vacuum both sides of the filter with a shopvac, moving across the surface in rows, like mowing a lawn.**

The main filter is a high efficiency mini-pleat which is an economical alternative to HEPA type filters. This filter should stop all toner particles which have escaped the pre-filter. Very little dust will reach this filter and it should last a long time. You may be able to shake some dust off this filter and reuse it, but it is designed to be thrown away after it gets loaded with dust. **Be careful not to damage the tightly packed pleats, air will rush through any hole in the media.**

There are three foam gaskets to insure that all the airflow passes through the filters. If toner is blowing out of the exhaust, you should check the condition of the three gaskets. The mounting flange clamps the three foam gaskets and the two filters to the dust collector. There are ten 1/4-20 nuts clamping the filters down. Use the 7/16" nut driver provided to tighten the nuts. **Do not over tighten the nuts on the filter clamping flange.** Tighten just enough to seal the two filters to the dust collector.

## Mounting Bracket (optional)

The heavy duty mounting bracket is predrilled with four holes spaced 16" on centers. This is the standard stud spacing in most walls. Make sure that the bracket is solidly anchored into the wall/ceiling studs before attaching the dust collector, which weighs 62 pounds, to it. If your studs do not match up with the bracket, you will need to mount the bracket to a wood board. Then attach the wood strip to the wall/ceiling.

**Do not attempt to mount the dust collector to a wall or ceiling alone! Serious injury could be the result! One person should hold the dust collector steady while another person attaches it to the mounting bracket using the black knobs provided.**

## Remote Control Switch(optional)

Heavy duty remote switching system allows you to turn on wall or ceiling mounted dust collectors whenever you need it. An easy to follow instruction sheet is included with the switch.

## European Version

A 220 volt, 50 hertz, 4.5 amp version of the Black Hole Dust Collector is available for countries which use the European electrical system. Operating the motor at 50 hertz causes the motor to spin 5/6 as fast as it does on the American electrical system. This reduces the air-flow to around 800 cubic feet per minute. The European version also does not have the variable speed switch, it has an on/off switch instead. It also does not have a plug on the end of the power cord because plugs vary from country to country You will have to wire it up or install a plug to fit your local requirements. The black wire is hot. The white wire is hot. The green wire is neutral.

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