



PO Box 815
Dowagiac, MI 49047
269-782-9670 (phone)
269-782-9623 (fax)

info@cycloneblasters.com * cycloneblasters.com

Operation Manual & Parts List for the
DC-4000 Dust Collection System

PARTS LIST		
Part Number	Description	P/N: DC4200
DC4100	Large Cartridge Filter	
*DC4101	Cloth Filter Wrap (NOT SHOWN)	
DC4200	1/3 HP Motor	
*DC4200	5" Vac Hose (8ft minimum) NOT SHOWN	
DC15106	6' Dust Collector Hose	

Items marked with * are accessories and DO NOT COME STANDARD WITH THIS UNIT.

Adding a DC4101 Cloth filter wrap adds another layer of filtration to the system. Some users may benefit from this depending upon use. It can also prolong the life of the large cartridge filter.

P/N: 15106

P/N: DC4100

LIMITED WARRANTY

Due to the nature of the environment that this unit will operate in and knowing that its effective performance depends on the owner's cooperation in following the maintenance and safety tips, the motor and filter bag are warranted for 90 days from the date of purchase, by the original owner. User should call the factory in the event of defective parts. If found defective, the parts will be repaired or replaced at the manufacturer's discretion. This warranty grants the user certain legal rights. Users and purchasers may also be protected by other rights which vary from state to state.

NOTE: EXCEPT FOR WARRANTIES SET FORTH ABOVE, THE MANUFACTURER MAKES NO OTHER WARRANTIES OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS OF A PRODUCT FOR A PARTICULAR PURPOSE.

Cyclone abrasive blast cabinets and dust collectors are warrantied against defects in workmanship or materials in accord with the following terms:

- Warranty extends to original owner only.
- Warranty does not cover equipment used in commercial rentals
- Warranty is valid for one (1) year following the date of purchase.
- Warranty does not cover standard wear items such as the filters, nozzle, orifice, blasting material, window and gaskets.
- Warranty does not cover misuse of the equipment. This includes the failure to follow instructions.
- Warranty does not cover unit if altered or otherwise changed from its original state form the factory.
- WARRANTY DOES NOT COVER DAMAGES IN TRANSIT:
IN SUCH CASES, THE RECEIVER SHOULD CONTACT THE FREIGHT CARRIER WITHIN 15 DAYS OF DELIVERY TO FILE A CLAIM. IT IS NOT THE RESPONSIBILITY OF THE MANUFACTURER OR SUPPLIER TO FILE THE CLAIM. IF ANY PARTS SHOULD BE REQUIRED TO FIX A FREIGHT DAMAGED UNIT, THE RECEIVER WILL BE BILLED ACCORDINGLY. THIS BILL CAN THEN BE TURNED OVER OT THE FREIGHT CARRIER. USERS SHOULD CALL THEIR DISTRIBUTOR OR THE FACTORY UPON INSPECTION/DISCOVERY OF ANY PROBLEM. A TECHNICAL PERSON CAN ASSIST YOU.

The DC-4000 dust collection system is a powerful vacuum system designed to improve visibility within an abrasive blast cabinet. Producing approximately 400 CFM (Cubic Feet per Minute), this is an ideal means of making the abrasive blast process better for the user.

ATTENTION

Please read instructions before operating this system.

Safety alert signal words based on ANSI Z535.4-1998 are used to alert the user of a potentially hazardous situation that may be encountered during operation of this equipment. ANSI definitions are as follows.

- CAUTION

{ Caution used without the alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.
- CAUTION

{ Caution indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate damage.
- WARNING

{ Warning indicates a potentially hazardous situation which, if not avoided, could result in serious injury or death.
- DANGER

{ Danger indicates an imminently hazardous situation which, if not avoided, will result in serious injury or death.

Before you begin using your new unit, we want to help protect you and your product from injury or damage.

CAUTION

- 1) Follow all electrical and safety codes as well as the National Electric Code (NEC) and the Occupational Safety & Health Act (OSHA).
- 2) Follow assembly instructions BEFORE plugging system into electrical outlet. Always unplug unit before servicing/performing maintenance to avoid personal injury or damage to the unit.

CAUTION

- 1) The unit is equipped with a 3 prong grounding plug for your protection against electrical shock. Use only adequate extension cords with 3 prong grounding type plugs which are appropriate for long periods of use. Replace damaged or worn extension cord(s) immediately. Use a 3 prong receptacle to plug system or extension cords into.
 - 2) Make sure power source conforms to the requirements of your equipment.
 - 3) This is a dry dust collection system. It is not made to for use with anything liquid or metal.
 - 4) Change blasting material regularly. Continued use of blast abrasives will result in poor performance and excess dust.
 - 5) Regularly check and clean dust collection system and filters. DO NOT WAIT until dust is escaping from dust collection housing and/or blast cabinet before cleaning the system.
- WARNING

 - 1) Keep any split blast abrasive clear from all paths around and near the cabinet/dust collector. Many blast abrasives are powder fine and can be very slippery causing a person to slip and fall.
 - 2) Silica sand should be avoided for use in blast systems for health reasons.
- DANGER

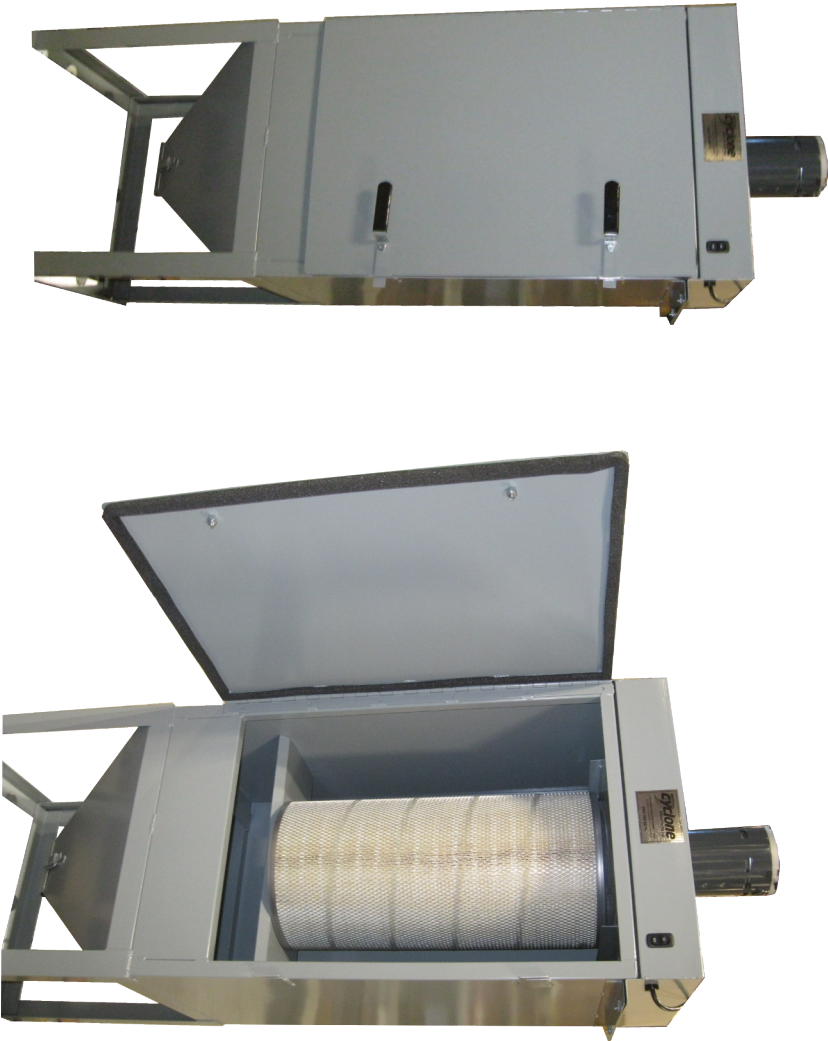
 - 1) DO NOT OPERATE DUST COLLECTOR WITH DOOR OPEN!!! This will result in skin damage, serous eye damage and/or blindness, and other serious health risks if the dust were to come into contact with unprotected parts of the body.
 - 2) Never use any type of flammable or combustible material in this blast system. This includes being used in an environment where airborne substances could be volatile and possibly cause a fire or explosion.
 - 3) The system is designed for dry material only. DO NOT use where moisture is present. THIS IS NOT A WET VACUUM SYSTEM.
 - 4) DO NOT USE WHERE AIRBORNE SUBSTANCES COULD BE VOLITILE AND CAUSE AN EXPLOSION.

SETUP

The DC4000 comes standard with a 3 prong plug for connection to a suitable 3 prong 110 volt receptacle. If an adapter must be used, make sure that the green ground lead in the adapter is connected to a suitable electrical ground. ***CANADIAN ELECTRICAL CODE PROHIBITS THE USE OF 3 PRONG ADAPTERS***

Make sure the large canister filter is in place and that the door latches are fully secured. Plug the DC4000 into the previously mentioned receptacle.

Connect the DC4000 system to the blast cabinet using the 2.5" vac hose provided. There is one port for 2.5" hose that is open, and one port for a 5" hose (capped off). A 5" hose, if desired, must be purchased separately. If using a 5" vac hose, be sure to cap off the 2.5" vac port. A 5" hose will extract interior cabinet air, dust and debris faster than the 2.5" hose.



DC-4000 DOOR CLOSED, NOTE LATCHES SECURELY TIGHTENED.

DC-4000 DOOR OPEN, NOTICE LARGE CARTRIDGE FILTER INSTALLED.

!

DANGER

DO NOT OPERATE THE UNIT WITH THE DOOR OPEN

SERIOUS INJURY WILL OCCUR

MAINTENANCE

!

WARNING

!

DANGER

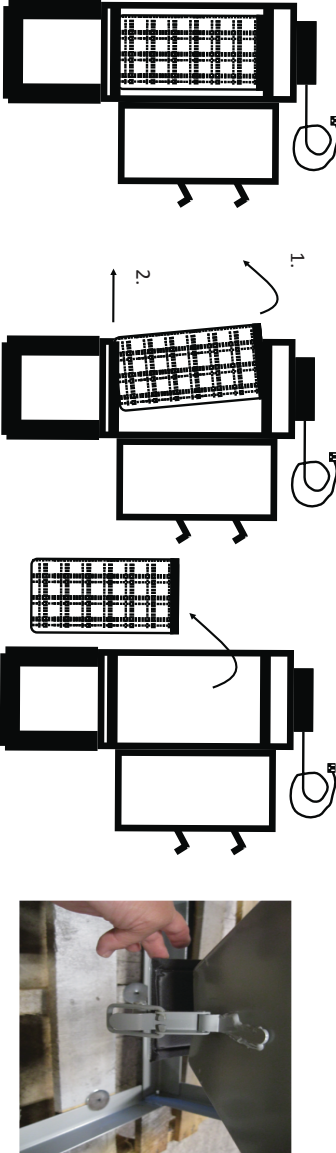
This dust collection system requires regular maintenance. Failure to do so will result in premature wear, equipment failure, or potential injury. Inspect filters regularly. Remove and clean often for proper operation. Cleaning schedule will be determined by how much you are using the system. For example, daily to several times per week with several hours per use, then you should clean the unit every other day. Less frequent usage, clean at least once per week.

When performing maintenance on this unit always unplug it from any electrical source. When removing any components for maintenance, ensure to follow instructions and take any and all reasonable safety precautions while performing maintenance.

Clean large cartridge filter by removing it from the cabinet. To remove from the cabinet, pull from the top of the filter, then from the bottom. We recommend taking the filter outside and blowing into it with air. Do so cautiously and by adhering to all regulations/policies/safety protocols for such an activity. When cartridge is clean, replace it back in the cabinet in the reverse of how it was installed. Make certain the open end of the cartridge filter is at the top when you install it.

There is a “trap-door” at the bottom of the dust collector hopper. Place an appropriate container under the trap door and then open it by unlatching it. Dust, debris, and other materials will fall out into your container. This is a dirty and dusty procedure, take all appropriate safety precautions for this activity.

Periodically cleaning the interior of the dust collector is recommended at least one or twice per year. This may be needed more frequently depending on how often you use the dust collector.



TROUBLESHOOTING

Problem	Cause	Remedy
Excessive Dust	Dust collection system is failing	Too much blasting material, remove excess material.
	Blasting material worn.	Replace with new abrasive material.
	Too much blasting material.	Remove excessive material.
Lack of Suction	Filters/Housing need cleaning	Perform maintenance as indicated in manual

DO NOT PUT MIX NEW BLAST MEDIA WITH OLD BLAST MEDIA

*** FAILURE TO CLEAN FILTER SYSTEM MAY CAUSE DAMAGE TO THE MOTOR AND FILTER. ***

!

DANGER

DO NOT OPERATE THE UNIT WITH THE DOOR OPEN

SERIOUS INJURY WILL OCCUR