# OWNER'S MANUAL

## CARBON-LITE™ COMMERCIAL VACUUM Backpack

Mosquito's new Carbon-Lite™ is simply the lightest, most powerful commercial backpack vacuum available today. New exotic Poly Carbon™ material combined with the industry's most powerful Pulse Power™ motor gives you unmatched performance. At Mosquito our attention to detail and commitment to innovation never ends. Our latest product, the Carbon-Lite™, is the beginning of a true revolution in industrial backpack vacuum design and performance.

Mosquito's state of the art design studio overlooks our production stations in Huntington Beach, California USA. Furthering our commitment to quality our new Carbon-Lite™ boasts an impressive 88% of components manufactured in the US. Combine that with the industry's longest warranty and the choice is clear.




HEPA FILTRATION · CERTIFIED GOLD · MADE IN USA

Patent US D998,921 S

## Specifications

### Carbon-Lite

*Carpet, Hard Floor, General Cleaning*

# BACKPACK QUICK START GUIDE

### Included Compontents

1. 2 piece 2 bend wand
2. Ultimate paper bag
3. 3" Round horse hair dust brush
4. 14" Nylon floor brush
5. 14" Scalloped floor tool
6. 4" Upholstery tool
7. 11" Crevice tool
8. 50' Extension cord




### Filter assembly for four level filration




### User maintenance

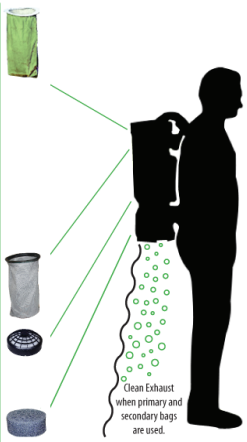
**1. Primary Filter**
Micro-Lined 3-Ply Sonic Sealed
Filters 99.97% Efficient at 0.3 Microns
#900-0034



**2. Secondary Filter**
Kimberly Clark/Cloth Filter Bag
#900-0001

**3. HEPA Dome Filter**
Filters 99.97% Efficient at 0.3 Microns
#900-0031

**4. Dual Cell Noise Filter**
#650-0003




## Quick Start

**1 Switch**



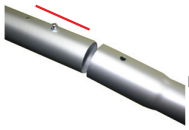
Make sure switch is off.

**2 Cord Retainer**



Cord installed in cord retainer.

**3 Wand**



Aluminum wand; assembled with button connector.

**4 Floor tool**



Loosen ring nut tighten tool can rotate.

**5 Hose Cuff**



Connects to wand.

**6 Power / Plug**



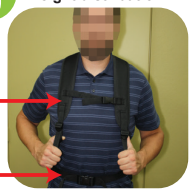
Plug into standard outlet.

**7 Shoulder & Waist belt**



Shoulder & Waist belt, loosen all straps.

**8 Weight distribution**




Tighten the waist belt so 80% of the vacuum weight is on your hips. The remaining weight is on the shoulders. The shoulder straps should be fairly loose.

**9 Load tools**



Tools can be carried on the elastic straps.

**10 Center straps**



Attach center strap if desired.

## Vacuum Motion

**11 Vacuuming motion with Standard tools**



Good for medium to heavy debris.

**12 Sidewinder premium tools**



Faster vacuuming by 40% medium to light debris.

## Storage

**13 Storage**

1. Disconnect.
2. Wrap the cord.
3. Place off of the floor.
4. Install new disposable bag if needed.
5. Make sure switch is in off position.



## Caution

**No**



**Water**

**No**



**Hot Particles**

**No**



**Airborne particles are dangerous**

**No**



**Hanging Cords**

Pigtail may fail over extended use if the cord retainer is not used.

**Yes**



Always install the extension cord into the support slot. This will eliminate cord related repairs.

# BACKPACK FILTER USE

**DISPOSABLE FILTER BAG REQUIRED**

Thank you for your purchase of our HEPA Back-Pack Vacuum. We appreciate your business. Please read the important information below regarding the proper use of our filter system. It is our concern for your health and reliabiliity of our equipment that we have produced the information below.

The primary filter (first filter) is the most important filter, as it filters 99.97% of particles. Failure to use this primary filter will cause damage to the secondary HEPA filter, vacuum motor and allow fine particles into the air.

Feel free to contact us should you have any questions regarding the proper use of filters or your HEPA Back-Pack Vacuum.

**Back-Pack vacuums are designed for 4 filters to be used in unison.**

## PROPER AND IMPROPER USE OF THE FILTER SYSTEM:

### Proper Use

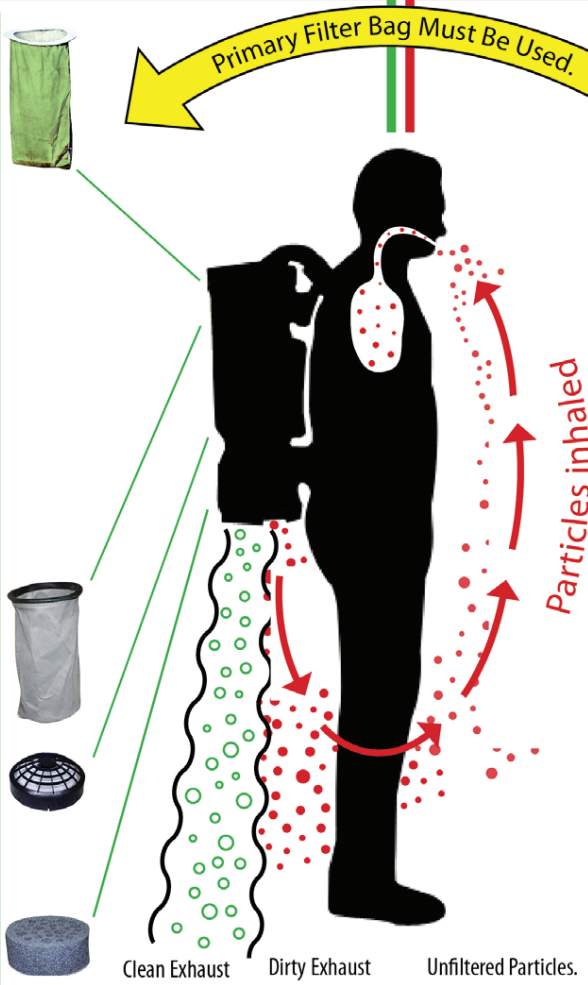
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### "DANGERS" of Improper Bag Use



**This primary filter bag must be used or you can inhale dangerous particles.**

**1. "Danger"**

Back-Pack vacuums remove large quantities of deeply embedded ultra-fine particles. Not using both vacuum bags to filter the ultra-fine particles is hazardous. The HEPA filtration will be compromised, causing the operator to inhale invisible particles. Coughing, lung irritation, respiratory distress is possible.

Use the filters properly, discard/replace the HEPA dome filter when discoloration occurs. Coloration of this filter indicates a failure of the primary filter (paper type bag) or non-use of the primary filter.

**2. "Motor Life"**

**Non-use of vacuum bags and motor failures; "They Are Connected."**

Back-Pack motors use air-flow to cool the heat generated by the motor. Proper use of the filters allow clean cool air to pass through and cool the motor. When primary and secondary filter bags are not used, ultra-fine particles pass through the motor. This will cause the motor to super heat as dust coats the motor windings and fan blades. Heat will cause the motor life to be reduced and dust in the motor will void the warranty on the motor.

Dear Customer:

Congratulations on the purchase of your new Backpack Vacuum. As the world of carpet and upholstery cleaning evolves, we set out to be on the cutting edge of quality, simplicity, durability, technology and performance.

Before using your new machine, please read this manual thoroughly. This machine will afford you many years of trouble-free operating satisfaction, provided it is given proper care and maintenance. Should you have any questions regarding replacement parts, ordering parts or warranty issues, please contact your distributor or service center.

Thank you!

Grounding Instructions

This machine must be grounded. If it should malfunction or break-down, grounding provides a path of least resistance for electrical shock. This machine is equipped with a cord having an equipment grounding conductor and grounding plug. The plug must be plugged into an appropriate outlet that is properly installed in accordance with all local codes and ordinances. Do not remove ground pin; if missing, replace plug before use.

Improper installation of the equipment-grounding conductor can result in a risk of electric shock. Be sure to check with a qualified electrician or service person if you are in doubt as to whether the outlet is properly grounded. If the plug will not fit in the outlet do not modify either the plug or the machine's cord, instead have a proper outlet installed by a qualified technician.

This machine is for use on a nominal 120-volt circuit and with a grounding plug similar to the one in Figure 1 below. If a proper outlet is not available, follow the illustrations of Figure 2 & 3 to install a temporary-grounding plug. This temporary work-around should be used only until a proper outlet (Figure 1) can be installed by a qualified electrician. When and if this type of adapter is employed, screw the adapter's extended tab into place with a metal screw. However, grounding adapters are not approved for use in Canada. Again, be sure to check the grounding pin for damages and replace if necessary. The Green, or Green-Yellow, wire in the cord is the grounding wire. When replacing a plug, this wire must be attached to only the grounding pin.

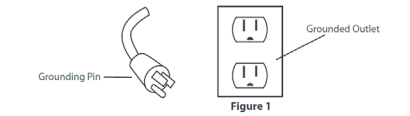


Figure 1

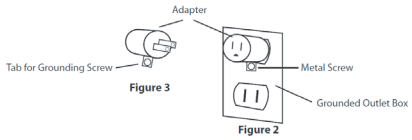


Figure 3

Figure 2

**SAFETY, OPERATIONS AND MAINTENANCE**

***Save These Instructions***

Read and follow all warnings and cautions before using this vacuum. This unit is intended for commercial use. This vacuum will afford you many years of trouble-free operating satisfaction, provided it is given proper care. All parts have passed rigid quality control standards prior to their assembly to produce the final product. Prior to packaging, your vacuum was again inspected for assurance of flawless assembly.

This vacuum is protectively packed to prevent damage in shipment. We recommend that upon delivery, you unpack the units and inspect it for any possible damage. Only a visual examination will reveal damage that may have occurred. If damage is discovered, immediately notify the transportation company that delivered your vacuum. As a shipper, we are unable to report any claim for damage. You must originate any claim within 5 days.

IMPORTANT SAFETY INSTRUCTIONS WARNING:

Electric shock may occur if used on wet surfaces. This vacuum is for dry use only. DO NOT expose to rain. Store indoors. To reduce the risk of fire, electric shock or injury.

1. DO NOT leave appliance when plugged in. Unplug from outlet when not in use and before servicing.
2. DO NOT use on wet surfaces.
3. DO NOT allow to be used as a toy. Close attention is necessary when used by or near children.
4. Use only as described in this manual. Use only manufacturer's recommended attachments.
5. DO NOT use with damaged cord or plug. If appliance is not working as it should, has been dropped damaged, left outdoors, or dropped into water, return it to a service center.
6. DO NOT pull of carry by cord, use cord as handle, close a door on cord, or pull cord around sharp edges or corners. Do not run appliance over cord. Keep cord away from heated surfaces.
7. DO NOT unplug the vacuum by pulling on the cord. Turn plug, grasp the plug, not the cord.
8. DO NOT handle plug or appliance with wet hands.
9. DO NOT put any object into openings. Do not use with any opening blocked; keep free of dust, lint, hair, and anything that may reduce air flow.
10. Keep hair, loose clothing, finger and all parts of the body away from spinning and moving parts.
11. DO NOT pick up anything that is burning or smoking, such as cigarettes, matches, or hot ashes.
12. DO NOT use without cloth filter bags, paper filter bag and all other filters in place.
13. DO NOT use to pick up flammable or combustible liquids, such as gasoline, or use in areas where they may be present.
14. DO NOT use where oxygen or anesthetics are used.
15. The extension cord provided with this unit is 50ft, #16, 3-wire and MUST be used with this unit to insure grounding protection.

BACKPACK VACUUM TROUBLE SHOOTING GUIDE

CAUTION: Always disconnect power cord before servicing.

WARNING: Repairs should only be performed by an authorized service center.

PROBLEM: Loss of suction.

| CAUSE: | SOLUTION: |
|---|---|
| 1. Cap is damaged. | 1. Inspect and replace if needed. |
| 2. Faulty vacuum motor. | 2. Call manufacturer or service center. |
| 3. Full paper filter bag. | 3. Replace paper filter bag. |
| 4. Clogged hose or wand. | 4. Remove obstruction. |
| 5. Loose or broken fan. | 5. Contact manufacturer or service center |

PROBLEM: Motor is not running.

| CAUSE: | SOLUTION: |
|---|---|
| 1. Faulty ON/OFF switch. | 1. Contact manufacturer or service center. |
| 2. Power cord defective | 2. Contact manufacturer or service center. |
| 3. Loose connection or wiring. | 3. Contact manufacturer or service center. |
| 4. Motor defective. | 4. Contact manufacturer or service center. |
| 5. Blown fuse or tripped circuit breaker. | 5. Replace fuse or reset circuit breaker. |

PROBLEM: Dust blowing from vacuum when running.

| CAUSE: | SOLUTION: |
|---|---|
| 1. Full paper filter bag. | 1. Replace filter bag. |
| 2. Paper filter bag not installed properly. | 2. Reinstall or replace. |
| 3. Cloth filter bag dirty. | 3. Clean cloth filter bag |
| 4. Cloth or paper filter bag is torn. | 4. Replace |

WARRANTY: Lifetime on Body, 7-years on motor & electrical.

Return Material Authorization (RMA) Procedure.

It is the responsibility of an Authorized Service Center or Distributor with written authorization to ensure the equipment is repaired as soon as possible.

Only the manufacture, authorized dealers or service centers (with written authorization) may make repairs or replace parts on this machine. All others do so at their own risk and expense, and will void their manufacturer's warranty. The authorized distributor or service center must contact the manufacturer and follow standard RMA procedures. Prior to working on the machine or changing out any parts, the manufacture must be contacted and provide written authorization to approve labor, replacements parts, etc.

If the machine falls within the given warranty period, Distributor/Service Center will fill out an RMA/ Warranty claim form. *This form will serve as the repair order to replace defective parts and labor time approval.*

DO NOT send parts/machines back to the Manufacture without an RMA sheet and approval.

All defective parts must be returned to manufacture (unless advised otherwise by manufacture) with a copy of the RMA form for evaluation at the customer's expense. All warranty claims are subject to review by the manufacture to determine if warranty will be approved. No labor or parts will be covered if not previously approved by the manufacturer. Any credit for parts/labor will only be issued upon evaluation and approval from manufacturer.

When warranty is approved, the Distributors/Service Centers account will be credited for the replacement part/labor. Manufacturer will ship the warranted replacement part(s) to the distributor. If warranty is denied, the Distributor's account will not be credited for any parts sent on the claim.