

Operator's Instruction Manual

EDCO SPIRAL VAC



Gasoline & Electrical Powered Industrial Vacuum Dust Collector System



100 Thomas Johnson Drive, Frederick, MD 21702-4600 USA
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READ AND UNDERSTAND THE OPERATORS INSTRUCTION MANUAL *THOROUGHLY* **BEFORE ATTEMPTING TO OPERATE THIS EQUIPMENT.**



Death or serious injury could occur if this machine is used improperly.



SAFETY MESSAGES

- Safety Instructions are preceded by a graphic alert symbol of DANGER, WARNING, or CAUTION.



Indicates an imminent hazard which, if not avoided, will result in death or serious injury.



Indicates an imminent hazard which, if not avoided, can result in death or serious injury.



Indicates hazards which, if not avoided, could result in serious injury and or damage to the equipment.

GASOLINE/PROPANE POWERED EQUIPMENT



- Engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.



- Gasoline is extremely flammable and poisonous. It should only be dispensed in well ventilated areas, and with a cool engine.

- Small gasoline engines produce high concentrations of carbon monoxide (CO) example: a 5 HP 4 cycle engine operation in an enclosed 100,000 cu. ft. area with only one change of air per hour is capable of providing deadly concentrations of CO in less than fifteen minutes. Five changes of air in the same area will produce noxious fumes in less than 30 minutes. Gasoline or propane powered equipment should not be used in enclosed or partially enclosed areas. Symptoms of CO poisoning include, headache, nausea, weakness, dizziness, visual problems and loss of consciousness. If symptoms occur - get into fresh air and seek medical attention immediately.

ELECTRICAL POWERED EQUIPMENT



Extreme care must be taken when operating electric models with water present: Ensure power cord is properly grounded, is attached to a Ground-Fault-Interrupter (GFI) outlet, and is undamaged.

- Check all electrical cables - be sure connections are tight and cable is continuous and in good condition. Be sure cable is correctly rated for both the operating current and voltage of this equipment.
- Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with qualified electrician or service person if there is any doubt as to whether the outlet is properly grounded. Adhere to all local codes and ordinances.
- NOTE:** In the event of a malfunction or breakdown, grounding provides a path of least resistance for the electric current to dissipate. The motor is equipped with a grounded plug and must be connected to an outlet that is properly installed and properly grounded. DO NOT modify the plug provided on the motor. If the plug does not fit the outlet have a qualified electrician install the proper receptacle.
- Switch motor OFF **before** disconnecting power.

- Do not disconnect power by pulling cord. To disconnect, grasp the plug, not the cord.
- Unplug power cord at the machine when not in use and before servicing.

GENERAL INSTRUCTIONS

- Equipment should only be operated by trained personnel in good physical condition and mental health (not fatigued). The operator and maintenance personnel must be physically able to handle the bulk weight and power of this equipment.
- This is a one person tool. Maintain a safe operating distance to other personnel. It is the **operators' responsibility** to keep other people (workers, pedestrians, bystanders, etc.) away during operation. Block off the work area in all directions with roping, safety netting, etc. for a safe distance. Failure to do so may result in others being injured by flying debris or exposing them to harmful dust and noise.
- This equipment is intended for commercial use only.
- For the operator's safety and the safety of others, always keep all guards in place during operation.
- Never let equipment run unattended.



- Personal Protection Equipment and proper safety attire must be worn when operating this machinery. The operator must wear approved safety equipment appropriate for the job such as hard hat and safety shoes when conditions require. Hearing protection **MUST** be used (operational noise levels of this equipment may exceed 90db). Eye protection **MUST** be worn at all times.



Keep body parts and loose clothing away from moving parts. Failure to do so could result in dismemberment or death.

- Do not modify the machine.
- Stop motor/engine when adjusting or servicing this equipment.



Maintain a safe operating distance from flammable materials. Sparks from the cutting-action of this machine can ignite flammable materials or vapors.

DUST WARNING



Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to cause cancer, birth defects, or other reproductive harm. Some examples of these chemicals are:

- Lead from lead-based paints, and
- Crystalline silica from bricks and concrete and other masonry products.

Your risk of exposure to these chemicals varies depending on how often you do this type of work. To reduce your risk: work in a well ventilated area, use a dust control system, such as an industrial-style vacuum, and wear approved personal safety equipment, such as a dust/particle respirator designed to filter out microscopic particles.

Equipment Instruction Manual

EDCO SPIRAL VAC

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GASOLINE MODEL SHOWN

Model shown may not depict your model due to improvements in design.

Figure 1

HOW TO ORDER REPAIR PARTS

To ensure product safety and reliability, always use genuine EDCO replacement parts when making repairs to the equipment.

When ordering parts, please specify the MODEL and SERIAL NUMBER of the machine as given on the NAME-PLATE. In addition, give part number, description and quantity as listed on the parts list.

Please note: Due to improvements and changes in the equipment the illustrations shown may be different from the actual machine.

Toll Free: Voice 1-800-638-3326 • Fax 1-800-447-3326

Width	30 1/2" / 77.4cm
Height	66" / 167cm
Length	46 1/2" / 118.1cm
Length w/Handles	69 1/2" / 176.5cm
Weight	390 lbs / 163.7kg



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**Read and understand the *Operator's Manual*,
before operating this equipment.**
Death or serious injury can result if this machine is used improperly.



Safety Guidelines



As with all electrical equipment, care and attention must be exercised at all times during use, in addition to ensuring that routine and preventative maintenance is carried out periodically to ensure safe operation. Failure to carry out maintenance as necessary, including the replacement of parts to correct standards could render this equipment unsafe.

This machine is not suitable for picking up hazardous or explosive dust. You should contact your local distributor if you require a machine capable of performing these tasks. Ensure that the filtration system fitted to the machine is suitable for the material being collected.

- Keep your machine clean.
- Keep filters clean.
- Keep hoses and tubes clear.
- Replace any worn or damaged parts with genuine EDCO parts immediately.
- Regularly examine the power cord for damage, such as cracking or ageing. If damage is found, replace the cord before further use.
- Empty dust container frequently for optimum operation.
- Dust and heavy particles can build up in a hose over a period of time and degrade performance, if this should occur, shake the hose to help move the dust and heavy particles to the end of and out the hose opening (end). If this is a continuing problem because there is no material movement during operation, a shorter hose can help correct the problem.



- Do not use steam cleaners or pressure washers to clean the machine.
- Do not use machine in the rain.
- Do not immerse in water for cleaning.

Safety warnings and guidelines do not by themselves eliminate danger.
They are not substitutes for proper accident prevention and good judgement.

- Do not attempt machine maintenance or cleaning unless the power supply plug has been unplugged from the supply outlet (electric models).
- Do not allow any modifications that do not meet the quality and standards of the original equipment.
- Do not use to vacuum up water or liquid of any description.
- Do not use to vacuum up hot ashes, or lighted cigarette ends.
- Do not run the machine over the power cable during operation as a hazard may be created.
- Do not try to pull on the cable to unplug the machine from the power supply (electric models).

This product is for commercial use only.



Do not vacuum up anything that is hot, burning or smoking such as cigarettes, matches or hot ashes. Death or serious injury can result. Dust particles can be explosive. The debris, filter and other components may catch fire and burn from which toxic fumes may result.



Do not expose the power cord (electric models) to sharp corners or edges. Do not run over the power cord or plug. Keep the cord away from heated surfaces. Do not use if the power cord or plug are damaged. Do not pull the unit using the power cord as a pull rope. Damage to the power cord may result in electrical shock and cause death or serious injury.



Ear protection should be worn if working in close proximity to the SPIRAL VAC and **must** be worn if using the SPIRAL VAC for an extended period. Failure to wear ear protection can result in permanent hearing damage.

- Do not operate the SPIRAL VAC without the filters properly installed. Damage to the equipment will result.
- Be sure to follow healthy and safe recommended lifting practices when emptying the dust bins. An empty dust bin weighs approximately 25 lbs and when full of debris it can weigh in excess 90 lbs.

WARNING

"DO IT RIGHT" OR RISK SEVERE PERSONAL INJURY.
FOLLOW INSTRUCTIONS CAREFULLY

WARNING



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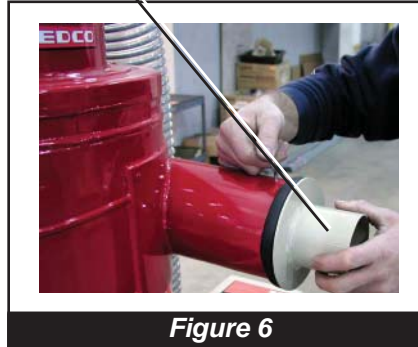
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Inspect the Dust Bin, Connect the Hose:

- Inspect the dust bin (*Figure 5*) prior to each use and empty if necessary. Follow steps on page 10 for cleaning.
- Connect the hose to the SPIRAL VAC inlet. Remove 3"-5" adaptor (*Figure 6A*) if you require the use of a 5" hose.



- Connect the other end of the SPIRAL VAC hose to other equipment as applicable.

Operating Instructions:

This is a dry vacuum. Do not vacuum up wet materials.

The vertical filter is made of a fibrous material that may be destroyed if exposed to moisture.

Before Starting the Spiral VAC:



Ground the Machine (Electric Model):

- The SPIRAL VAC must be properly grounded.

The voltage, current draw, and frequency are identified on the data plate found on each machine. Using a different voltage or frequency power source or limiting the current available to the machine will cause serious damage to the motors and possible electric shock to the operator. Death or serious injury can result from electrical shock.

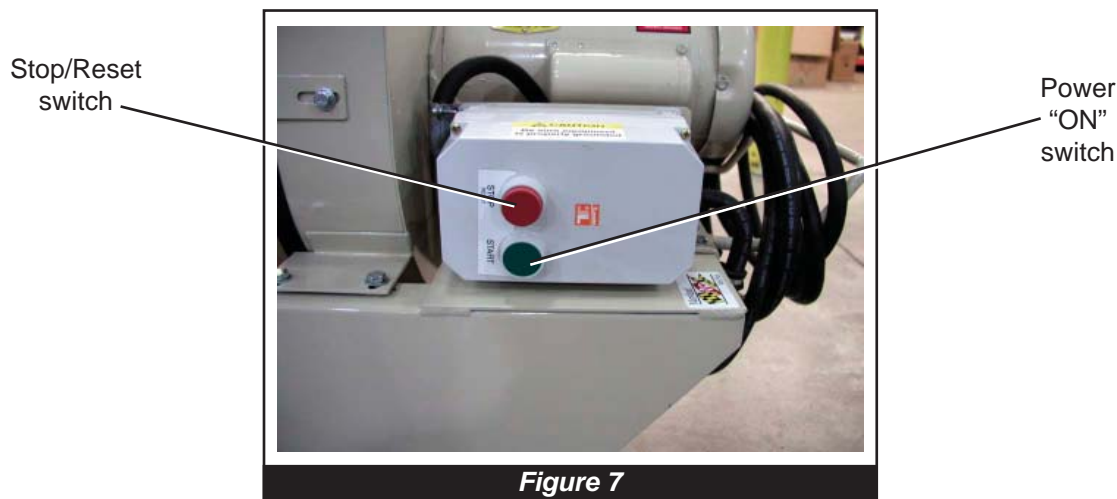


Clearing Filter During Use:

To clear the filter during use move the handle forward and backward as shown in picture (*Figure 6B*) on the left, this will cause a rapping on the filter frame dislodging dust particles into the dust bin. This should be done periodically during use. If not done the vacuum pressure will drop causing poor vacuum performance.

Starting the SPIRAL VAC (Electric Model):

- Start the SPIRAL VAC with the “GREEN” button located on the starter box pictured below (Figure 7). Use the RED button to turn off or stop the machine. If an overload condition should stop the vacuum, wait for about three minutes to allow proper cooling of the overload and then press the RED button to reset the overload and then the GREEN button to start the vacuum.



Starting the SPIRAL VAC (Gasoline Model):

- Follow engine manufacturers instructions.

Maintenance Instructions (Electric & Gasoline models)



To avoid possible injury, turn off the “red” power switch and unplug the SPIRAL VAC before performing any maintenance or inspections.

- Periodically inspect the SPIRAL VAC:

Check bolts and hardware for tightness.

Check the seals, latches, fan, blower, duct work, housing and hose regularly for leaks and damage.

Replace damaged components with genuine EDCO replacement parts as identified in the SPIRAL VAC Parts Manual.

- Check the filter periodically:
Replace damaged or worn out filters immediately.



DO NOT LET THE FILTERS GET WET. For detailed instructions on accessing the filter see the *Cleaning/Changing Filters* section in this manual on page (9).



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Cleaning/Changing Filters

- The filtering system consists of a tubular vertical standing filter located in the upper canister of the vacuum (Figures 8, 9).

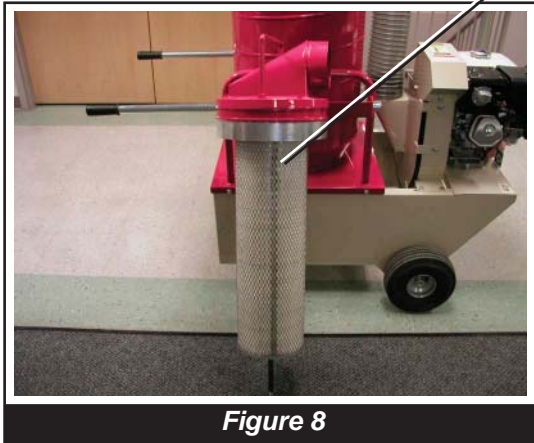


Figure 8



Figure 9

- When cleaning or replacing filters, be sure to remove and install the filter inside the canister as shown below.

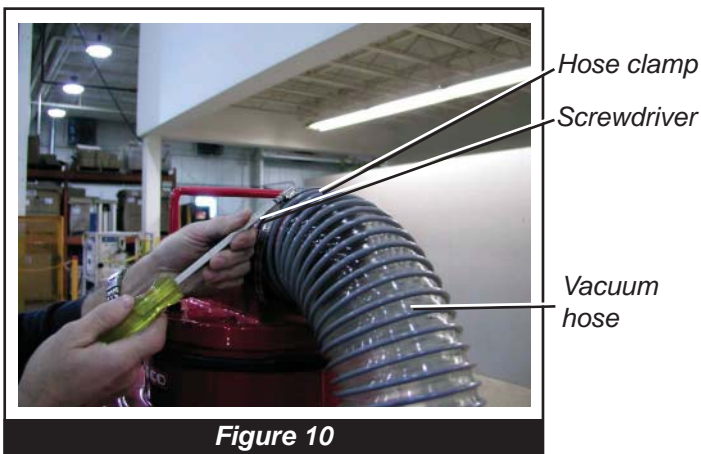


Figure 10

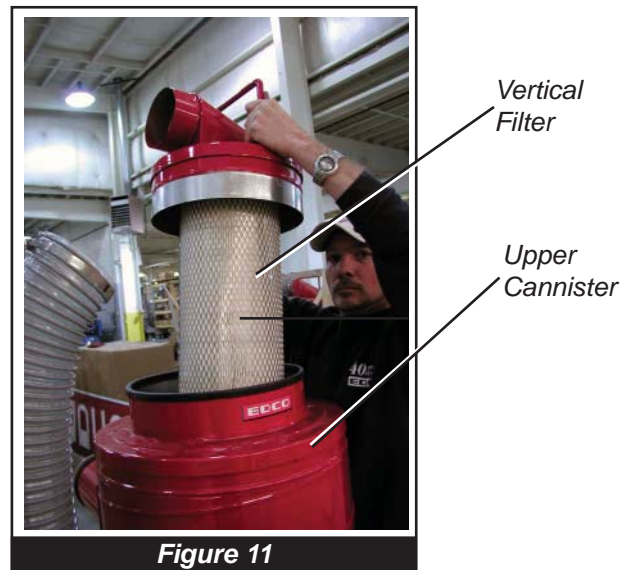


Figure 11



To clean or replace the filter located in the upper canister (Figure 9) be sure to wear appropriate protective gear.

- To clean or replace the vertical filter loosen hose clamp with a screwdriver as shown in (Figure 10) above.
- Remove the hose and vertical filter as shown in (Figure 11). Lift filter out of canister as shown.
- Be careful when lifting the filter out of the canister, bumping it on the sides of the canister opening will dislodge dust into the open air around the canister.
- Never get the vertical filter wet.

TOOLS NEEDED



Figure 12

Tools needed
2 - 9/16" wrenches

1-flat blade
screwdriver

CLEANING THE FILTER



While cleaning the vertical filter (Figure 15) be sure to wear appropriate protective gear and disconnect power at the source (electric model) or remove spark plug wire (gasoline model).



- To clean the SPIRAL VAC vertical filter disassemble using a 9/16" wrench (Figure 13). Loosen wing nut on bottom of filter and remove spacer, rubber and metal washers and sit aside for reassembly (Figure 15). Remove filter from all thread shaft and place in plastic bag (Figure 16). Lift the filter and plastic bag 3 to 6" from work surface and drop (Figure 17), do this several times rotating the filter a little each time until all the dust is removed from the filter. This might have to be repeated several times before all the dust is removed from the filter. It is possible a clean bag may have to be used each time. Dispose of waste according to local codes. Reverse the above procedure to reassemble.

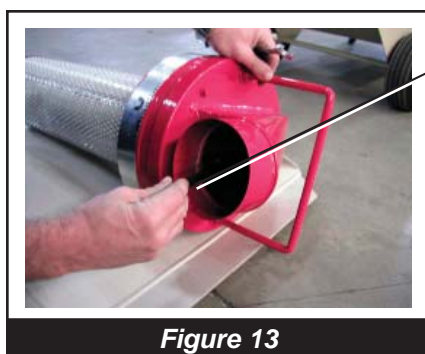


Figure 13

9/16"
wrench

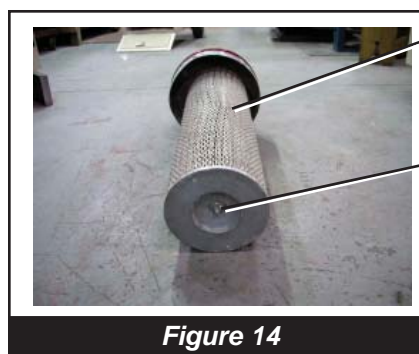


Figure 14

Vertical filter

Wing nut

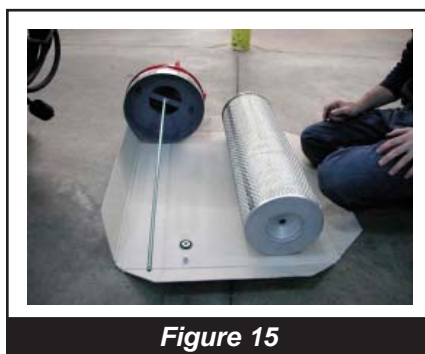


Figure 15



Figure 16



Figure 17



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CLEANING THE DUST BIN



To clean the dust bin (*Figures 18, 19, & 20*) be sure to remove power at the at the source (electric models) (remove spark plug wire) gasoline models and wear appropriate protective gear.

- Open the dust bin compartment (*Figure 18*).
- Slide the dust bin out as shown in (*Figure 19*), be careful when sliding dust bin out, it is on rollers and moves very easily and will be very heavy if anywhere near half full or more and could cause injury if dropped on a hand or foot.
- Be sure to follow healthy and safe recommended lifting practices when emptying the dust bins. An empty dust bin weighs approximately 25 lbs and when full of debris it can weigh in excess 90 lbs.



Figure 18



Figure 19

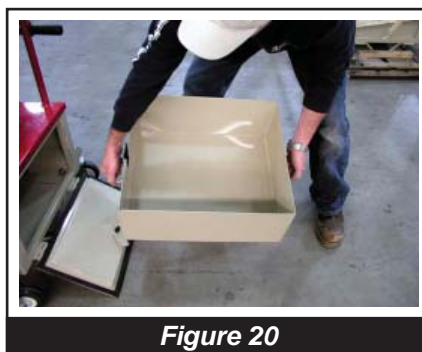


Figure 20

WARNING

"DO IT RIGHT" OR RISK SEVERE PERSONAL INJURY.
FOLLOW INSTRUCTIONS CAREFULLY

WARNING



Repairs are to be performed by EDCO or by approved EDCO repair technicians.



Read and follow all instructions in the Engine Manufacturer's Owner's Manual.

Maintenance Schedule

	Before Operation			As Necessary
Inspect Entire Machine	X			
Check Filters (Clean if Necessary)	X			
Inspect Vacuum (empty bins, etc.)				X
Inspect/Tighten Hardware				X
Inspect Hose	X			

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LIMITED EQUIPMENT WARRANTY

Equipment Development Company, Inc. herein referred to as EDCO warrants that each new unit manufactured by EDCO to be free from defects in material and workmanship in normal use and service for a period of (1) one year from date of shipment to the original buyer or equipment rental center owner.

EDCO will, at its option, repair or replace, at the EDCO factory or at a point designated by EDCO any part, which shall appear to the satisfaction of EDCO inspection to have been defective in material or workmanship.

This warranty, does not apply to failure occurring as a result of abuse, misuse, negligent repairs, corrosion, erosion, normal wear and tear, alterations or modifications made to the product without express written consent of EDCO: or failure to follow the recommended operating practices and maintenance procedures as provided in the products operating and maintenance manuals.

This warranty does not obligate EDCO to bear any transportation charges in connection with the replacement or repair of defective parts. This warranty does not obligate EDCO to bear any expense for travel time or of personnel in connection with any service calls.

Accessories or equipment furnished and installed on the product by EDCO but manufactured by others, including but not limited to engines, motors, electrical equipment, transmissions, etc., shall carry the accessory manufacturers' own warranty.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, OR STATUTORY, INCLUDING ANY WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE.

LIABILITY LIMITATIONS

The remedies of the user set forth under provisions of warranty outlined above are the exclusive and total liability of EDCO with the respect to their sale or the equipment and service furnished hereunder, in connection with the performance or breach thereof, or from the sale, delivery, installation, repair or technical direction covered by or furnished under the sale, whether based on contract, warranty, negligence, indemnity, strict liability, or otherwise shall not exceed the purchase price of the unit of equipment upon which such liability is based.

EDCO will not in any event be liable to the user, any successors in interest or any beneficiary or assignee relating to this sale for any consequential, incidental, indirect, special or punitive damages arising out of this sale or any breach thereof, or any defects on, or failure of, or malfunction of the equipment under this sale based upon loss of use, lost profits or revenue, interest, lost goodwill, work stoppage, impairment of other goods, loss by reason of shutdown or non-operation, increased expenses of operation of the equipment, cost of purchase or replacement power of claims of users or customers of the user for service interruption whether or not such loss or damage is based on contract, warranty, negligence, indemnity, strict liability, or otherwise.

EDCO reserves the right to modify, alter and improve any part or parts without incurring any obligation to replace any part or parts previously sold without such modified, altered or improved part or parts.

No person is authorized to give any other warranty or to assume any additional obligation on EDCO's behalf unless made in writing and signed by an officer of EDCO.

Equipment Development Company, Inc.

USE ONLY GENUINE EDCO PARTS AND ACCESSORIES
For your own safety, the safety of others and the life of your machine

