

# DL3000 DUST COLLECTOR

# OPERATING &

# SERVICE MANUAL



CE



Read Manual Before Operating or  
Servicing Machine

402540 Rev F



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# Introduction

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This manual provides all the information needed to use and service your dust collector. Good operation and durability depend on proper maintenance and careful use.

Before leaving the factory, this particular model has undergone stringent tests to ensure utmost reliability. Always check however to make sure the dust collector has not been damaged during transport in such a way as to affect operation and safety.

This manual should be considered an integral part of the dust collector and must be kept together with the unit. In case of loss of or damage to the manual, ask **National Flooring Equipment (NFE)** for a new copy.

Some details shown in the illustrations in this manual may be different from those of your dust collector. Some component parts may have been removed for greater clarity.

In case of any doubts, immediately contact **NFE Customer Service**.

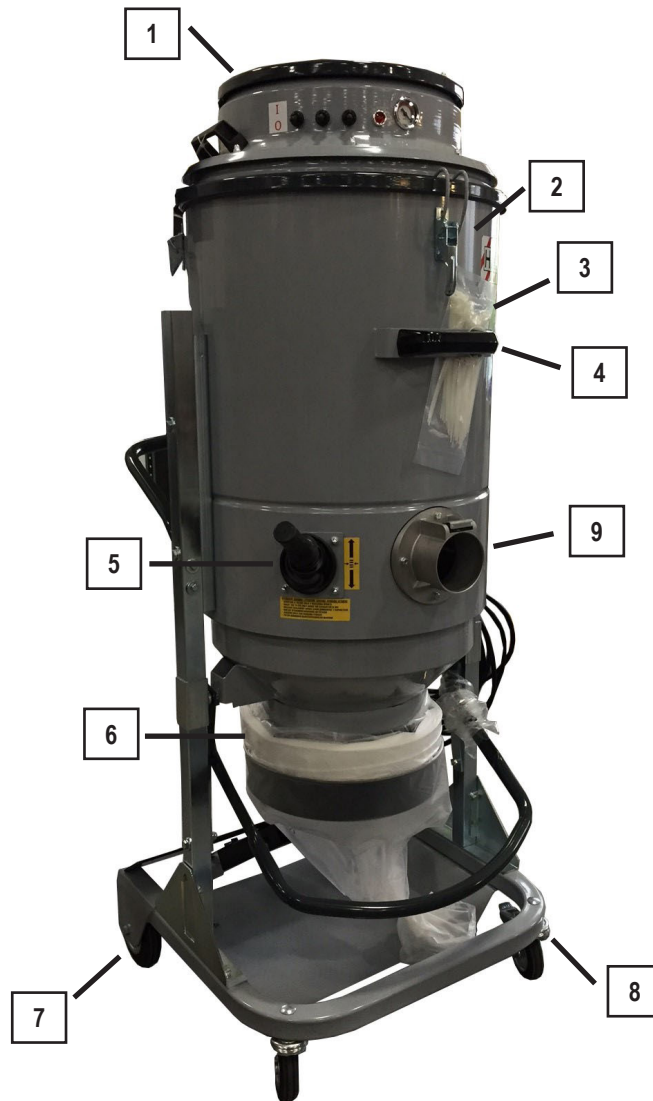
## **NFE CUSTOMER SERVICE**

**Our engineers are available to help you in case any problem occurs.**

**Please call 1-800-245-0267**

# Features & Specifications

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## FEATURES

1. Motor head
2. Release fastening
3. Filtering chamber
4. Push Handle
5. Filter shaking lever
6. Removable Longopac® container
7. Fixed wheels
8. Casters
9. Suction inlet

# Features & Specifications

Product Specifications					
Vacuum Pressure	Air Movement	Noise Emission	Filter Type	Filter Area	Inlet
98.4" H2O (2500 mm H2O)	318 CFM (540 m3/h)	76 dBA	Polyester M	32.3 ft <sup>2</sup> (30,000 cm <sup>2</sup> )	3.15" (80 MM)

Product Specifications						
Power	Input Power	Current	Width	Height	Length	Weight
4.6 Hp (3.45 Kw)	230V / 50/60 Hz	15 A	24.4" (62 cm)	63" (160 cm)	24.4" (62 cm)	179.7 lbs (81.5 kg)

## Identification details of manufacturer

National Flooring Equipment  
 9250 Xylon Avenue N  
 Minneapolis, MN 55445  
 Tel. (800) 245-0267  
 Fax. (800) 648-7124  
[nationalequipmentdirect.com](http://nationalequipmentdirect.com)  
[info@nationalequipment.com](mailto:info@nationalequipment.com)

# General Information

## MARKING PLATE

When contacting the manufacturer or dealer, always quote the details shown on the marking plate.

## INTENDED USES

This dust collector has been designed, built and protected for vacuuming dusts and solid materials only, using special filters.



**CAUTION:** ALWAYS USE SPECIFIC FILTERS FOR THE TYPE OF DUST OR MATERIALS TO BE VACUUMED.

Any other use is considered IMPROPER. The dust collector is intended for professional industrial use.

## ALLOWED ENVIRONMENTAL CONDITIONS

To ensure proper operation of the dust collector, avoid exposing machine to rain, hail, snow, fog, etc. Environmental running temperature is between 41°F (5°C) and 113°F (45°C) and relative humidity not above 70%. The work environment must be devoid of explosive atmosphere.

## NOISE LEVEL

Noise level readings were taken in accordance with the provisions of Machine Directive 2006/42/CE standards.

Sound tests performed on this specific dust collector model have been taken from a distance of 3.3 feet (1 meter) and from a height of 5.25 feet (1.6 meters), showing an acoustic pressure no higher than:

**76 DB (A)**

The vibrations transmitted by the machine are lower than 8.2 ft/s<sup>2</sup> (2.5 m/s<sup>2</sup>).



**WARNING:** WORKERS EXPOSED TO SOUND PRESSURE LEVELS ABOVE 85 DB (A) MUST BE PROTECTED BY SPECIAL INDIVIDUAL PROTECTION DEVICES.  
IT IS THEREFORE NECESSARY, IF SUCH WORKING CONDITIONS EXIST, TO PROVIDE WORKERS WITH SUCH APPROVED INDIVIDUAL PROTECTION DEVICES AND TO INFORM THEM OF THE RISKS RELATING TO NOISE EXPOSURE.

## STORAGE

Remove the filter and clean it, replace the Longopac® bag and store the dust collector in a place protected against moisture with a temperature between 32°F (0°C) and 104°F (40°C). Cover with a nylon sheet to prevent accumulation of dust.

## SCRAPPING

In case of scrapping, all the component parts of the dust collector will have to be disposed of through adequate disposal channels in accordance with applicable legislation. Before scrapping, all plastic and rubber parts will have to be separated from the electrical material. Parts made of plastic, aluminium and steel only may be recycled if collected by special centers.

# Safety

## GENERAL RULES FOR SAFE OPERATION

Before use, anyone operating or performing maintenance on this equipment must read and understand this manual, as well as any labels packaged with or attached to the machine and its components. Read the manual carefully to learn equipment applications and limitations, as well as potential hazards associated with this type of equipment. Keep manual near machine at all times. If your manual is lost or damaged, contact National Flooring Equipment (NFE) for a replacement.

### PERSONAL

#### **Dress properly and use safety gear.**

Do not wear loose clothing; it may be caught in moving parts. Anyone in the work area must wear safety goggles or glasses and hearing protection. Wear a dust mask for dusty operations. Hard hats, face shields, safety shoes, etc. should be worn when specified or necessary.

#### **Maintain control; stay alert.**

Keep proper footing and balance, and maintain a firm grip. Observe surroundings at all times. Do not use when tired, distracted, or under the influence of drugs, alcohol, or any medication that may cause decreased control.

#### **Keep hands away from all moving parts and tooling.**

Wear gloves when changing tooling. Remove tooling when machine is not in use and/or lower cutting head to the floor.

#### **Do not force equipment.**

Equipment will perform best at the rate for which it was designed. Excessive force only causes operator fatigue, increased wear, and reduced control.

### ENVIRONMENT

#### **Avoid use in dangerous environments.**

Do not use in rain, damp or wet locations, or in the presence of explosive atmospheres (gaseous fumes, dust, or flammable materials). Remove materials or debris that may be ignited by sparks. Keep work area tidy and well-lit - a cluttered or dark work area may lead to accidents. Extreme heat or cold may affect performance.

#### **Protect others in the work area and be aware of surroundings.**

Provide barriers or shields as needed to protect others from debris and machine operation. Children and other bystanders should be kept at a safe distance from the work area to avoid distracting the operator and/or coming into contact with the machine. Operator should be aware of who is around them and their proximity. Support personnel should never stand next to, in front of, or behind the machine while the machine is running. Operator should look behind them before backing up.

#### **Do not come within 3 ft. of the machine's perimeter during operation.**

#### **Guard against electric shock.**

Ensure that machine is connected to a properly grounded outlet. Prevent bodily contact with grounded surfaces, e.g. pipes, radiators, ranges, and refrigerators. When scoring or making cuts, always check the work area for hidden wires or pipes.

### MAINTENANCE & REPAIRS

#### **Begin maintenance work only when the machine is shut down, unplugged, and cooled down.**

#### **Use proper cleaning agents.**

Ensure that all cleaning rags are fiber-free; do not use any aggressive cleaning products.

#### **Schedule regular maintenance check-ups.**

Ensure machine is properly cleaned and serviced. Remove all traces of oil, combustible fuel, or cleaning fluids from the machine and its connections and fittings. Retighten all loose fittings found during maintenance and repair work. Loose or damaged parts should be replaced immediately; use only NFE parts.

#### **Do not weld or flame-cut on the machine during repairs, or make changes to machine without authorization from NFE.**

### EQUIPMENT

#### **Use proper parts and accessories.**

Only use NFE-approved or recommended parts and accessories. Using any that are not recommended may be hazardous.

#### **Ensure accessories are properly installed and maintained.**

Do not permanently remove a guard or other safety device when installing an accessory or attachment.

#### **Inspect for damaged parts.**

Check for misalignment, binding of moving parts, loose fasteners, improper mounting, broken parts, and any other conditions that may affect operation. If abnormal noise or vibration occurs, turn the machine off immediately. Do not use damaged equipment until repaired. Do not use if power switch does not turn machine on and off. For all repairs, insist on only identical NFE replacement parts.

#### **Maintain equipment and labels.**

Keep handles dry, clean, and free from oil and grease. Keep cutting edges sharp and clean. Follow instructions for lubricating and changing accessories. Motor and switches should be completely enclosed at all times with no exposed wiring. Inspect cord regularly. Labels carry important information; if unreadable or missing, contact NFE for a free replacement.

#### **Avoid accidental starting; store idle equipment.**

When not in use, ensure that the machine is unplugged; do not turn on before plugging in. Store in a dry, secured place. Remove tooling when storing, and keep away from children.



## DUST COLLECTOR SAFETY GUIDELINES

Before use, anyone operating this equipment must read and understand these safety instructions.

### SAFETY DETAILS

The person in charge of safety shall be responsible for informing workers about the risks associated with dust collector operation.


The obligation also exists of training workers so they are able to protect themselves and others.


Failure to observe basic safety regulations and warnings could cause accidents during dust collector operation, maintenance and repair. Accidents can often be avoided by recognizing potentially dangerous situations before these occur. Operators should be aware of potential hazards and be trained and skilled enough. They should also have the tools necessary to perform these duties properly.

NFE shall under no circumstances be deemed liable for accidents or damage caused by use of the dust collector by personnel not properly trained or who use it in an improper manner, as well as by even partial failure to comply with the safety regulations and intervention procedures indicated in this manual.

The safety warnings and warning notices are indicated in this manual and on the product.

Unless these hazard messages are heeded, the operator could become involved in accidents with serious consequences for him/herself and for other people.

 **WARNING:** UNLESS THESE MESSAGES ARE HEADED, OPERATOR INJURIES COULD OCCUR.

 **CAUTION:** UNLESS THESE MESSAGES ARE HEADED, DUST COLLECTOR DAMAGE COULD OCCUR.

NFE cannot foresee all possible circumstances capable of representing a potential hazard. The warnings in this manual and on the products should not therefore be deemed exhaustive. In the event of tools, procedures, work or machining methods being used that are not explicitly recommended by NFE, make sure no hazards exist for operators and others.

**ONLY EVER USE ORIGINAL NFE SPARE PARTS.**

**NFE DECLINES ALL LIABILITY IN THE EVENT OF NON-ORIGINAL SPARE PARTS BEING USED.**

# Safety



**ATTENTION!** THE FOLLOWING INDICATIONS ARE, BY THEMSELVES, NOT ENOUGH TO FULLY PROTECT AGAINST ALL THE HAZARDS THAT COULD ARISE DURING DUST COLLECTOR OPERATION. THESE WILL HAVE TO BE INTEGRATED WITH COMMON SENSE AND THE EXPERIENCE OF THE OPERATOR, BOTH OF WHICH ARE CRUCIAL FACTORS FOR PREVENTING ACCIDENTS. EACH SECTION OF THIS MANUAL LISTS FURTHER SPECIFIC SAFETY WARNINGS FOR THE VARIOUS OPERATIONS. MAINTENANCE JOBS MUST ALWAYS BE PERFORMED WITH THE POWER PLUG DETACHED FROM THE POWER SOURCE.

## SAFETY WARNINGS

The employer must inform and train the user according to the provisions of applicable laws.

Before using the machine, prepare and train yourself by reading this manual carefully. Use of the machine by untrained and unauthorized persons is forbidden.

Using the machine to vacuum toxic substances is forbidden unless this has been equipped with special filters required for the specific type of dusts. Such filters must be explicitly requested by you.

If the machine is used to vacuum toxic-harmful substances, the Longopac® bag must be emptied and the filters cleaned using adequate individual protection devices, selected according to the type of substances to be vacuumed.

Do not vacuum flammable materials or substances which could cause explosions (fuels, solvents, etc.). To vacuum such materials, the machine must be built with Anti-explosion Motor and Electric System and this must be requested by you explicitly.

Do not vacuum corrosive substances unless the machine is equipped with containers suitable for this purpose (Stainless-steel AISI 304).

Use of the machine without the supplied filters is not recommended.

If the filters are correctly fitted, the machine will not emit any dust.

Never rest miscellaneous materials on the horizontal protection guard.

The machine casing containing moving parts must not be removed by the user.

When using the machine, mind other people, especially children.

Use the machine cautiously on slopes and ramps.

Do not change direction on gradients.

Make sure the parked machine remains stable by operating the braked wheel.

During cleaning operations, maintenance jobs or when changing parts, the starter switch must be off and the machine must be disconnected from the power mains by removing the cable from the socket.

Only skilled persons should carry out repairs.

During use, protect the power supply cables from damage and avoid crushing or pulling the cables.

Periodically check the main power cable to ensure this is not damaged.

In the event of the cable being damaged, the machine must not be used.

In the event of the cable, plugs or couplings being replaced, make sure these are protected against water spray and check mechanical strength.

Never pull the machine by means of the power cable and the vacuum hose.

Replace the motor brushes every 800 hours. Always use original spare parts.

The user is responsible for disposing of vacuumed substances in accordance with applicable laws.

In the event of customers fitting a tool to the machine not supplied by NFE, make sure the safety conditions required by Machine Directive 2006/42/CE are complied with and in any event, NFE is unable to accept liability for any problems arising from use of such tool.

The dust collector must not be operated in a corrosive or explosive environment.

Always make sure the dust collector is free of all foreign materials such as debris, oil, equipment and other objects that could affect operation and cause injury to persons.

Avoid using flammable or toxic solvents such as gasoline, benzene, ether and alcohol for cleaning.

Avoid prolonged contact with solvents and inhaling their vapours. Avoid use close to open flames or sources of heat.

Never use the dust collector without the filter.

## SAFETY WARNINGS CONT.

Do not vacuum lit cigarette ends or burning material. The filter could be damaged and the machine could start on fire.

Do not vacuum gasoline or flammable liquids in general.

Make sure all the guards and protection devices are in place and that all the safety devices are in place and working properly.

Do not wear loose or hanging clothing such as ties, scarves or torn garments that could become trapped and be sucked up by the cleaner.

Do not open the Longopac® bag with the machine running.

Structural damage and improper alterations or repairs could change the protection capacity of the dust collector and therefore void the warranty.

Any alterations to the machine must only be made by NFE technical support.

During maintenance jobs, affix a notice to the appliance indicating "MACHINE BEING SERVICED, DO NOT START".

Climbing on the dust collector is forbidden.

Never touch electric wires, switches, buttons, etc. with wet hands.

Before connecting to the power mains, make sure the power voltage and frequency are those shown on the machine plate.

Make power connections to a mains supply with proper grounding.

If an extension cord is used, make sure it is the appropriate wire gage and insulation level for the dust collector input.

After service or maintenance is performed, the appointed personnel should make sure all removed parts are properly reinstalled.

Only adult persons should use the dust collector.

During vacuuming operations, always use the caster wheel brakes to prevent the machine from rolling.

For LONGOPAC Dust Collectors:

- If the machine is used to vacuum toxic-harmful substances, the Longopac® bag must be emptied and the filters cleaned using adequate individual protection devices, selected according to the type of substances to be vacuumed.
- Do not open the Longopac® bag with the machine running.

# Safety

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## ELECTRICAL PRACTICES



**WARNING:** ELECTRICAL CORDS CAN BE HAZARDOUS. MISUSE CAN RESULT IN FIRE OR DEATH BY ELECTRICAL SHOCK. READ CAREFULLY AND FOLLOW ALL DIRECTIONS.



**CAUTION:** ALWAYS FOLLOW APPLICABLE ELECTRICAL CODES, STANDARDS AND/OR REGULATIONS. CONSULT YOUR LOCAL ELECTRICAL AUTHORITY OR A LICENSED ELECTRICIAN BEFORE ATTEMPTING TO MODIFY AN ELECTRICAL INSTALLATION. ENSURE THAT CIRCUIT AND GROUND FAULT PROTECTION DEVICES AND ALL OTHER ELECTRICAL SAFETY EQUIPMENT ARE FUNCTIONING PROPERLY.

### EXTENSION CORD REQUIREMENTS

- Ensure the cord type is suitable for the application and location. If you are unsure about your cord type, consult a qualified electrical professional or electrician.



**WARNING:** GROUND YOUR EQUIPMENT. THE EQUIPMENT MUST BE PLUGGED INTO AN APPROPRIATE OUTLET, ONE WHICH IS PROPERLY INSTALLED AND GROUNDED IN ACCORDANCE WITH ALL CODES AND ORDINANCES. DO NOT MODIFY THE PLUG PROVIDED WITH THE EQUIPMENT. NEVER REMOVE THE GROUNDING PRONG FROM THE PLUG.



**WARNING:** DO NOT REMOVE, BEND OR MODIFY ANY METAL PRONGS OR PINS OF THE PLUG. MODIFICATIONS TO POWER CORDS AND/OR PLUGS MAY RESULT IN INJURY AND/OR EQUIPMENT DAMAGE.

- FULLY INSERT plug into outlet.
- Do not use excessive force to make connections.
- Never unplug by pulling the cord from the outlet. Pull plug rather than cord to reduce the risk of damage.
- Regularly examine your extension cord and ensure it is in good electrical condition. Never use a damaged cord—either replace it or have it repaired by a qualified person.
- Protect your extension cords from sharp objects, excessive heat and damp or wet areas. Keep the cord away from oil, cutting edges and moving parts.
- Do not drive, drag or place objects over cord.
- Avoid overheating. Uncoil cord and do not cover it with any material.
- Avoid accidental starting. Be sure equipment is turned off before plugging in. Do not use equipment if the power switch does not turn the equipment on and off.
- Make sure equipment is not running before disconnecting cord.
- Unplug equipment. When not in use and before changing accessories or performing maintenance, unplug the machine.

### EXTENSION CORD SELECTION

All cords should be sized appropriately to reduce the risk of damage, fire or reduced performance. Reference the table in this section for cord sizes.

## ELECTRICAL PRACTICES (CONT'D)

### HOW TO USE THIS TABLE

1. Determine your supply voltage.
2. Determine the total length of your cord including all extension cords.
3. Determine the maximum amp draw for your machine.
4. Trace your voltage across the top of the table to the first length that is greater than or equal to your cord length.
5. Follow the column down to the first row that contains a maximum amp draw greater than or equal to yours.
6. This cell contains the minimum wire size for your application.

### EXAMPLE

**Application:** Max Amps = 11A, Length = 40ft, Voltage = 120V 1ph

**Solution:** 40ft is between the 25ft and 50ft columns, so the larger of the two columns is chosen. Likewise, 11A is between the 10A and 12A rows, so the larger of the two rows is chosen. 14 AWG (2.5mm<sup>2</sup>) is the minimum wire size for this example.

Single Phase Equipment				
Max Length	120V Supply	25ft (7.5m)	50ft (15m)	75ft (22.5m)
	230V Supply	50ft (15m)	100ft (30m)	150ft (45m)
Max Amps		Minimum Wire Size		
8		16 AWG (1.5mm <sup>2</sup> )	16 AWG (1.5mm <sup>2</sup> )	16 AWG (1.5mm <sup>2</sup> )
10		16 AWG (1.5mm <sup>2</sup> )	16 AWG (1.5mm <sup>2</sup> )	16 AWG (1.5mm <sup>2</sup> )
12		14 AWG (2.5mm <sup>2</sup> )	14 AWG (2.5mm <sup>2</sup> )	14 AWG (2.5mm <sup>2</sup> )
14		14 AWG (2.5mm <sup>2</sup> )	14 AWG (2.5mm <sup>2</sup> )	14 AWG (2.5mm <sup>2</sup> )

### EXTENSION CORD SIZES

Single Phase Equipment							
Max Length	120V Supply	25ft (7.5m)	50ft (15m)	75ft (25m)	100ft (30m)	150ft (45m)	200ft (60m)
	230V Supply	50ft (15m)	100ft (30m)	150ft (45m)	200ft (60m)	300ft (90m)	400ft (120m)
Max Amps		Minimum Wire Size					
8		16 AWG (1.5mm <sup>2</sup> )	16 AWG (1.5mm <sup>2</sup> )	16 AWG (1.5mm <sup>2</sup> )	16 AWG (1.5mm <sup>2</sup> )	14 AWG (2.5mm <sup>2</sup> )	14 AWG (2.5mm <sup>2</sup> )
10		16 AWG (1.5mm <sup>2</sup> )	16 AWG (1.5mm <sup>2</sup> )	16 AWG (1.5mm <sup>2</sup> )	16 AWG (1.5mm <sup>2</sup> )	14 AWG (2.5mm <sup>2</sup> )	12 AWG (4mm <sup>2</sup> )
12		14 AWG (2.5mm <sup>2</sup> )	14 AWG (2.5mm <sup>2</sup> )	14 AWG (2.5mm <sup>2</sup> )	14 AWG (2.5mm <sup>2</sup> )	12 AWG (4mm <sup>2</sup> )	12 AWG (4mm <sup>2</sup> )
14		14 AWG (2.5mm <sup>2</sup> )	14 AWG (2.5mm <sup>2</sup> )	14 AWG (2.5mm <sup>2</sup> )	14 AWG (2.5mm <sup>2</sup> )	12 AWG (4mm <sup>2</sup> )	10 AWG (6mm <sup>2</sup> )
16		14 AWG (2.5mm <sup>2</sup> )	14 AWG (2.5mm <sup>2</sup> )	14 AWG (2.5mm <sup>2</sup> )	14 AWG (2.5mm <sup>2</sup> )	12 AWG (4mm <sup>2</sup> )	10 AWG (6mm <sup>2</sup> )
18		14 AWG (2.5mm <sup>2</sup> )	14 AWG (2.5mm <sup>2</sup> )	14 AWG (2.5mm <sup>2</sup> )	12 AWG (4mm <sup>2</sup> )	12 AWG (4mm <sup>2</sup> )	10 AWG (6mm <sup>2</sup> )
20		12 AWG (4mm <sup>2</sup> )	12 AWG (4mm <sup>2</sup> )	12 AWG (4mm <sup>2</sup> )	12 AWG (4mm <sup>2</sup> )	10 AWG (6mm <sup>2</sup> )	10 AWG (6mm <sup>2</sup> )
25		12 AWG (4mm <sup>2</sup> )	12 AWG (4mm <sup>2</sup> )	12 AWG (4mm <sup>2</sup> )	12 AWG (4mm <sup>2</sup> )	10 AWG (6mm <sup>2</sup> )	8 AWG (10mm <sup>2</sup> )
30		10 AWG (6mm <sup>2</sup> )	10 AWG (6mm <sup>2</sup> )	10 AWG (6mm <sup>2</sup> )	10 AWG (6mm <sup>2</sup> )	8 AWG (10mm <sup>2</sup> )	8 AWG (10mm <sup>2</sup> )

**Note:** The table is based on a <10% voltage loss, data from the U.S. National Electrical Code Tables 400.5(A) & 400.5(B) and typical resistances for copper wire.

# Safety

## SAFETY PLATES AND SYMBOLS

Plates are affixed to the dust collector showing safety symbols and/or messages.



**ATTENTION!** MAKE SURE ALL THE SAFETY MESSAGES ARE LEGIBLE.  
CLEAN THESE WITH A CLOTH, SOAP AND WATER. DO NOT USE SOLVENTS, DIESEL FUEL OR GASOLINE.  
REPLACE THE DAMAGED PLATES WITH NEW ONES SUPPLIED BY NATIONAL FLOORING EQUIPMENT.  
IF A PLATE IS AFFIXED TO A REPLACED PART, MAKE SURE A NEW PLATE IS AFFIXED TO THE NEW PART.



**ATTENTION!** READ THE OPERATOR'S AND MAINTENANCE MANUAL CAREFULLY BEFORE USING THE MACHINE OR DOING ANY MAINTENANCE JOBS.

**WARNING!**

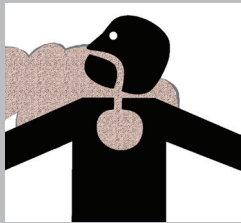
> ONLY SHAKE THE FILTER WHEN THE MACHINE IS TURNED OFF

**WARNING!**

DO NOT BREATHE IN FLAMMABLE AND/OR EXPLOSIVE LIQUIDS OR POWDERS



**WARNING:** GRINDING/CUTTING/DRILLING OF MASONRY, CONCRETE, METAL AND OTHER MATERIALS CAN GENERATE DUST, MISTS AND FUMES CONTAINING CHEMICALS KNOWN TO CAUSE SERIOUS FATAL INJURY OR ILLNESS, SUCH AS RESPIRATORY DISEASE, CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM. IF YOU ARE UNFAMILIAR WITH THE RISKS ASSOCIATED WITH THE PARTICULAR MATERIAL BEING CUT, REVIEW THE MATERIAL SAFETY DATA SHEET AND/OR CONSULT YOU EMPLOYER,



THE MATERIAL MANUFACTURER/SUPPLIER, GOVERNMENTAL AGENCIES SUCH AS OSHA AND NIOSH AND OTHER AUTHORITIES ON HAZARDOUS MATERIALS. CALIFORNIA AND SOME OTHER AUTHORITIES, FOR INSTANCE, HAVE PUBLISHED LISTS OF SUBSTANCES KNOWN TO CAUSE CANCER, REPRODUCTIVE TOXICITY, OR OTHER HARMFUL EFFECTS. CONTROL DUST, MIST AND FUMES AT THE SOURCE WHERE POSSIBLE. IN THIS REGARD USE GOOD WORK PRACTICES AND FOLLOW THE RECOMMENDATIONS OF THE MANUFACTURER/SUPPLIER, OSHA/NIOSH, AND OCCUPATIONAL AND TRADE ASSOCIATIONS. WHEN THE HAZARDS FROM INHALATION OF DUST, MISTS AND FUMES CANNOT BE ELIMINATED, THE OPERATOR AND ANY BYSTANDERS SHOULD ALWAYS WEAR A RESPIRATOR APPROVED BY OSHA/MSHA FOR THE MATERIAL BEING CUT.



**WARNING:** RISK OF CRUSHING UPPER LIMBS WHILE FITTING AND LOCKING THE MATERIAL LONGOPAC® CONTAINER ON THE DUST COLLECTOR.

NEVER PLACE HANDS BETWEEN THE MATERIAL LONGOPAC® CONTAINER AND DUST COLLECTOR WHILE LOCKING.  
DO NOT PLACE HANDS ON SIDES OF LONGOPAC® CONTAINER NEAR THE GUIDE PINS WHILE LOCKING.  
PERFORM THE LONGOPAC® CONTAINER LOCKING OPERATION BY MEANS OF THE LEVERS LOCATED ON THE SIDE, USING BOTH HANDS!

## OUTSTANDING RISKS

Careful analysis of risks performed by the manufacturer and stored in the technical file has made it possible to eliminate most of the risks associated with dust collector operation.

The manufacturer advises carefully following the instructions, procedures and advice contained in this manual as well as applicable safety regulations, including the use of the envisaged protection devices, both those integrated in the dust collector and individual.

Outstanding risks associated with the dust collector could be:

### **RISK OF IMPROPER USE IN THE PRESENCE OF EXPLOSIVE AND FLAMMABLE SUBSTANCES.**

The dust collector must not be used in environments containing substances in the form of liquids that could vaporize at room temperature and flammable dusts and gas.

### **RISKS OF OPERATION IN HUMID ENVIRONMENTS.**

Keep to the limits shown in this manual at section 1.5 Allowed environmental conditions.

### **RISK OF ERRONEOUS INTERPRETATION OF THE SAFETY PICTOGRAMS.**

Having identified the various outstanding risks, the manufacturer has affixed to the dust collector a number of hazard labels in compliance with regulations relating to the graphic symbols to be used. The user must immediately replace any safety plates that become illegible due to wear or damage.



**WARNING:** REMOVING THE SAFETY PLATES ON THE DUST COLLECTOR IS STRICTLY FORBIDDEN. THE MANUFACTURER DECLINES ALL LIABILITY IN RELATION TO DUST COLLECTOR SAFETY IN THE EVENT OF FAILURE TO COMPLY WITH THE ABOVE INDICATIONS.

# Operation



**CAUTION:** BEFORE INSTALLING THE DUST COLLECTOR, CAREFULLY MAKE A SIGHT CHECK TO PINPOINT ANY DAMAGE SUFFERED DURING TRANSPORT.

## INSTALLATION

In the event of any component parts being damaged, do not proceed with installation. Notify the manufacturer and reach an agreement on how to proceed.

### THE DUST COLLECTOR ALREADY FEATURES A SUCTION FILTER.

1. Fit the equipment or accessory required for the type of collecting operation on the opposite end of the hose.
2. Contact your dealer for information relating to the different types of optional accessories available for this specific dust collector model.
3. Fit the supplied connector on the pipe union.
4. Fit the supplied pipe in the connector.



Make sure the power supply corresponds to the voltage and frequency indicated on the dust collector plate.



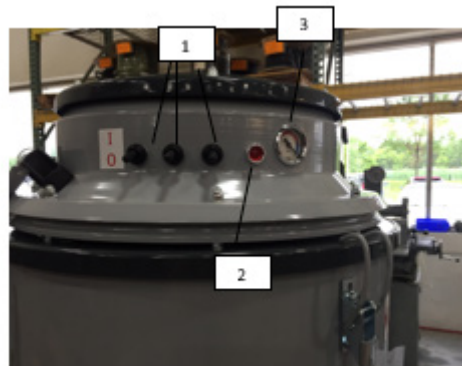
**IMPORTANT!** DO NOT FIT THE PLUG IN THE POWER SOCKET WITH WET HANDS.



**ATTENTION!** IN THE EVENT OF AN EXTENSION CORD BEING USED, MAKE SURE THIS IS IN PERFECT CONDITION, IN COMPLIANCE WITH CE STANDARDS AND WITH CABLE CROSS SECTION SUITABLE FOR THE POWER INPUT OF THE DUST COLLECTOR.

## DESCRIPTION OF CONTROLS

1. START/STOP buttons (three switches, one for each motor)
2. Power on light indicator
3. Filter pressure drop gauge





## WORK CYCLE



**CAUTION:** BEFORE FITTING THE PLUG, MAKE SURE THE POWER VOLTAGE CORRESPONDS TO THAT ON THE MARKING PLATE.

1. Make sure the power plug is correctly fitted in the power socket.
2. Make sure the flexible hose is properly fitted and locked in the suction inlet.
3. Make sure the power cable and any extension cord used are integral and in perfect condition.
4. Block the dust collector by means of the retainer provided.



5. Grip one end of the flexible hose complete with selected accessory.
6. Press the **START** button and start collecting.
7. To stop the dust collector, press the **STOP** button.



**CAUTION:** BEFORE SWITCHING THE DUST COLLECTOR BACK ON, MAKE SURE THE MOTORS HAVE COME TO A COMPLETE HALT.

8. After finishing work, disconnect the dust collector from the power socket.

# Operation

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## WORK CYCLE CONT.

9. To move the dust collector, use the large handle.



**WARNING:** THE DUST COLLECTOR CAN BE MOVED ONLY ON FLAT GROUND!  
IF THE DUST COLLECTOR IS MOVED ON INCLINED GROUNDS, YOU CAN RISK TO LOSE THE CONTROL, BECAUSE OF THE WEIGHT, AND TO DAMAGE PERSONS OR THINGS.



**CAUTION:** DURING VACUUMING, AVOID ROLLING UP OR BENDING THE FLEXIBLE HOSE.

## REMOVAL AND PLACING OF THE WASTE BAG

1. Stop the dust collector motors by flipping the three STOP switches.
2. Disconnect the plug from the power socket.
3. Use two ties to fasten the collection bag at two points about 1 – 2" (3 – 5 cm) from each other, just below the filter chamber.
4. Cut off the bag in the position between the two ties.



5. Remove the lower part of the bag.
6. Pull down a length of new bag from the chamber, until it reaches the bottom support plate



**ATTENTION:** USED BAGS SHOULD BE DISPOSED OF INTO A SPECIAL WASTE DISPOSAL CONTAINER, IN ACCORDANCE WITH LAWS APPLICABLE IN THE COUNTRY WHERE THE DUST COLLECTOR IS USED.

# Operation

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## USING THE FILTER SHAKER SYSTEM

THIS OPERATION MUST ONLY BE PERFORMED WITH THE MACHINE SWITCHED OFF ONCE THE MOTOR(S) HAS COME TO A COMPLETE HALT.

The filter shaking system is best operated every time before use and after prolonged operation.



**CAUTION:** DURING COLLECTING, AVOID ROLLING UP OR TWISTING THE FLEXIBLE HOSE

On the front of the dust collector, a filter pressure drop gauge indicates the degree of vacuum inside.

If the gauge indicates a high drop in pressure (while the dust collector is working and the collecting inlet is disconnected from any equipment or accessories), the filter will have to be shaken by means of the special lever. If the pressure gauge remains high, clean or replace the filter.



**CAUTION:** NEVER USE THE MACHINE WITH THE FILTER BLOCKED.



**CAUTION:** IF THE ARROW OF THE FILTER PRESSURE DROP GAUGE STAYS IN THE RED AREA EVEN AFTER CLEANING THE FILTER, THE HOSE OR SUCTION ACCESSORY COULD BE BLOCKED. IN THIS CASE, CLEAN AND REMOVE THE BLOCKAGE

# Troubleshooting Guide

FAULT FOUND	POSSIBLE CAUSE	RECOMMENDED REMEDY
The dust collector fails to start	No power	Check the power mains supply. Check the integrity of the plug and power cable.
	Thermal magnetic switch tripped	Reset the thermal magnetic switch
Dust is leaking out	Perforated vacuum hose	Replace the hose
	Filter unsuitable for type of job	Use a suitable filter for the type of material to be vacuumed
The dust collector does not work as it should	Hose perforated or blocked	Check the hose and, if necessary, replace it
	Longopac® bag is full	Replace bag
	Filter blocked	Perform filter cleaning cycle and, if necessary, replace filter
	Longopac flap not closing	Contact NFE technical support
	Seals worn	Check the seals and, if necessary, replace them
	Air leak	Check for any air leaks out of closing fasteners, tightening screws, Longopac® bag or filter chamber
Motor very noisy	Contact NFE technical support	



**IMPORTANT!** FOR ANY OTHER PROBLEMS, CONTACT THE NFE TECHNICAL SUPPORT.

# Maintenance

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## INFORMATIVE NOTES

THIS SECTION DESCRIBES THE CONTROL AND SPECIAL MAINTENANCE OPERATIONS CRUCIAL FOR KEEPING THE DUST COLLECTOR IN PERFECT WORKING CONDITION. ALL OTHER MAINTENANCE AND MAJOR REPAIRS MUST BE EXPRESSLY AUTHORIZED BY THE MANUFACTURER. IN SUCH CASES, ALWAYS CONTACT NFE OR AN AUTHORIZED DEALER.

## GENERAL SAFETY WARNINGS

**MAINTENANCE MUST ALWAYS BE PERFORMED BY SKILLED TECHNICIANS.** Contact NFE for authorized service center.

Before doing any maintenance job:

- Make sure the technician is equipped with all approved individual protection equipment needed for the specific operation (mask, eyewear, gloves, shoes, etc.).
- Make sure the technician has carefully read the instructions contained in this manual and knows how the dust collector works.
- Make sure there are no unauthorized persons in the work area.
- Make sure the necessary tools are on hand and that these are in good condition.
- Make sure the lighting is adequate.

Before carrying out maintenance:

- Disconnect the plug from the power socket.

Work done on motors or other electrical component parts must only be performed by a specifically trained electrician.

Always use tools that are in good condition and specifically made for the operation to be done. The use of unsuitable tools or tools not in good condition could cause serious damage.

## MAINTENANCE OPERATIONS



**WARNING:** ALL THE DESCRIBED OPERATIONS MUST BE DONE WITH THE PLUG DISCONNECTED FROM THE POWER SOCKET. BEFORE STARTING ANY MAINTENANCE OR CLEANING JOB, ALWAYS WEAR ADEQUATE PROTECTIVE CLOTHING, EYEWEAR AND/OR GLOVES ACCORDING TO THE TYPE OF JOB TO BE DONE.

### FOR SMOOTH DUST COLLECTOR OPERATION, THE FOLLOWING PERIODIC MAINTENANCE IS NECESSARY:

- Check to see whether the filter is worn or clogged.
- Make sure the sealing gaskets of the motor head base, of the filter-holder ring and of the container are working efficiently.
- The electrical parts (plugs, switches, cables, etc.) must not be damaged.
- The screws and nuts must always be tight.
- Make sure the Longopac bag is not overfilled. The bag should be replaced when the filled portion reaches 1/2 - 3/4 of the distance between the support plate and the Longopac holder.
- Check the integrity of the flexible vacuum hose and accessories to be used.
- If the flexible hose is perforated, the power of the dust collector will be reduced and dust and liquids will leak into the environment.



**ATTENTION:** IT IS RECOMMENDED THAT THIS MACHINE BE SERVICED BY NFE OR ITS AUTHORIZED DEALERS.

# Maintenance

## REPLACING THE FILTER

1. Turn off the dust collector by pressing the motor STOP buttons.
2. Disconnect the dust collector plug from the power socket.



**IMPORTANT!:** WEAR APPROPRIATE PERSONAL PROTECTION EQUIPMENT.

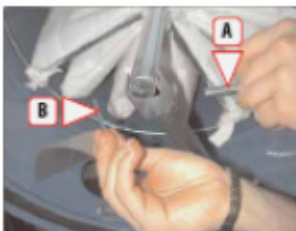
3. Block the dust collector by means of the wheel locks.



4. Lift the lever that locks the Longopac® container. Remove the Longopac® container.
5. Release the retainers that hold the motor head. Lift the motor head and rest this on a flat surface being careful not to damage the power cable.



6. Remove from underneath the dust collector the pin (A) and spring pin (B) that fasten the filter to the shaking lever.
7. Lift the filter complete with support.
8. Loosen the clamp and remove the support ring with seal.



9. Remove the knots and take out the pocket filter. Fit the new filter, put everything back together carefully and fit the cap back on.



**IMPORTANT!** ALL THE MATERIAL TRAPPED BY THE FILTER AND THE FILTER ITSELF MUST BE DISPOSED OF THROUGH AUTHORIZED CHANNELS IN THE COUNTRY WHERE THE DUST COLLECTOR IS USED.

10. The Longopac® container locking operation should be performed by one person only, who must lower the back side lever with both hands.



**CAUTION!** HAND CRUSHING HAZARD



## CLEANING THE FILTERS

- Remove filter from machine by following the steps in “Replacing the Filters”.

**NOTE:** HEPA filters are NOT washable.

- Gently tap filter to dislodge loose contaminants. Use a garbage bag or other suitable container to catch the material, keeping in mind the type of material that was picked up during operation.
- Rinse filter with warm, running water from the inside out.
- Let filter soak for 10-20 minutes in warm water with a mild dishwashing soap.
- Gently wash filter by rolling it through the water. A soft brush can also be used to clean the pleats, but be careful to not tear the filter.
- Rinse filter with clean, running, warm water and let air dry.

**NOTE:** The filter must be completely dry before using again. Do NOT use compressed air to dry the filter.

- When filter is completely dry, re-install it on the machine.

Keep in mind that filters do have a life span and washing won't get them back to like-new performance; however, it will be better than using dirty filters. Inspect filters regularly for any damage to the filter media. If the media is damaged, replace the filter.

# Parts

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## ACCESSORIES PROVIDED



402469- Filter, Primary  
(Only replacement filter)



402472 - Filter, HEPA  
(Only Spare Parts)

## RECOMMENDED SPARE PARTS

PART NUMBER	PART DESCRIPTION
402485	Gasket, Container, Cut to Length
402469	Filter, Primary
402472	Filter, HEPA
402479	Gasket, Filter Chamber
402470	Filter, Pleated Teflon
402473	Longopac, 4 Pack
402477	Motor, 240 Volt
402478	Brushes, Motor, 240 Volt
402480	Lever, Filter Shaker
402481	Sheath, Filter Shaker Lever
402482	Gasket, Longopac
402483	Switch, On/Off
402486	Gasket, Inlet
402498	Motor Head, 240 Volt
402501	Assembly, Filter
402516	Adapter, Y Hose, 50mm
402519	Adapter, Hose, 50mm
402525	Connector, Hose, 50mm
402526	Connector, Hose, 76mm
402527	Hose, Antistatic, 76mm, 7.5m
402528	Wand, Floor, 50mm, Aluminum
402529	Brush, Floor, 50mm, Steel
402530	Wand, Floor, 50mm, Chrome
402531	Brush, Floor, 50mm, Plastic
405048	Assembly, Cord, CEE 7/7, 30ft (Serial Number -11XXXX only)











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