MV1000

3A5576F

Vacuum for collection of dry concrete and asphalt dust. For professional use only.



Important Safety Instructions

Read all warnings and instructions in this manual before using the equipment. Be familiar with the controls and the proper usage of the equipment. Save these instructions.



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Warnings

The following warnings are for the setup, use, grounding, maintenance, and repair of this equipment. The exclamation point symbol alerts you to a general warning and the hazard symbols refer to procedure-specific risks. When these symbols appear in the body of this manual or on warning labels, refer back to these Warnings. Product-specific hazard symbols and warnings not covered in this section may appear throughout the body of this manual where applicable.

⚠ WARNING



DUST HAZARD

Grinding concrete and other surfaces can create dust that contains hazardous substances. To reduce the risk of serious injury:

- Control the dust to meet all applicable workplace regulations.
- Wear a properly fit-tested and government approved respirator suitable for the dust conditions when emptying collection tank or performing maintenance.
- Do not use without dust bag and filters in place.



ELECTRIC SHOCK HAZARD

This equipment must be grounded. Improper grounding, setup, or usage of the system can cause electric shock.

- Turn off and disconnect power cord before servicing equipment.
- Connect only to grounded electrical outlets.



- Use only 3-wire extension cords.
- Ensure ground prongs are intact on power and extension cords.
- Do not expose to rain. Store indoors.
- Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the equipment. Keep cord away from heat, sharp edges, or moving parts.
- Do not use on wet surfaces.



PERSONAL PROTECTIVE EQUIPMENT

You must wear appropriate protective equipment when operating, servicing, or when in the operating area of the equipment to help protect you from serious injury, inhalation of dust or chemicals, and hearing loss. This equipment includes but is not limited to:

- Protective eve wear.
- Hearing protection.
- Properly fit-tested and government approved respirator suitable for the dust conditions.

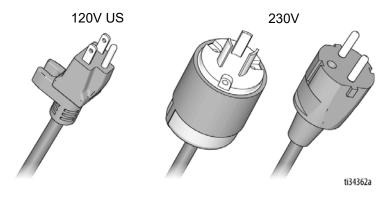
⚠ WARNING



GROUNDING

This product must be grounded. In the event of an electrical short circuit, grounding reduces the risk of electric shock by providing an escape wire for the electric current. This product is equipped with a cord having a grounding wire with an appropriate grounding plug. The plug must be plugged into an outlet that is properly installed and grounded in accordance with all local codes and ordinances.

- Improper installation of the grounding plug is able to result in a risk of electric shock.
- When repair or replacement of the cord or plug is required, do not connect the grounding wire to either flat blade terminal.
- The wire with insulation having an outer surface that is green with or without yellow stripes is the grounding wire.
- Check with a qualified electrician or serviceman when the grounding instructions are not completely understood, or when in doubt as to whether the product is properly grounded.
- Do not modify the plug provided; if it does not fit the outlet, have the proper outlet installed by a qualified electrician.
- This product is for use on a nominal 120V or 230V circuit and has a grounding plug similar to the plugs illustrated in the figure below.



- Only connect the product to an outlet having the same configuration as the plug.
- Do not use an adapter with this product.

Extension Cords:

- Use only a 3-wire extension cord that has a grounding plug and a grounding receptacle that accepts the plug on the product.
- Make sure your extension cord is not damaged. If an extension cord is necessary, use 12 AWG (2.5 mm²) minimum to carry the current that the product draws.
- An undersized cord results in a drop in line voltage and loss of power and overheating.

⚠ WARNING



EQUIPMENT MISUSE HAZARD

Misuse can cause death or serious injury.

- Do not operate the unit when fatigued or under the influence of drugs or alcohol.
- Do not leave the work area while equipment is energized. Turn off all equipment when equipment is not in use.
- Check equipment daily. Repair or replace worn or damaged parts immediately with genuine manufacturer's replacement parts only.
- Do not alter or modify equipment.
- Use equipment only for its intended purpose. Call your distributor for information.
- Keep children and animals away from work area.
- Comply with all applicable safety regulations.
- Maintain a safe operating distance from other people in the work area.



ENTANGLEMENT HAZARD

Rotating parts can cause serious injury.

- Keep clear of moving parts.
- Do not operate equipment with protective guards or covers removed.
- Do not wear loose clothing, jewelery, or long hair while operating equipment.



FIRE AND EXPLOSION HAZARD

Flammable fumes in work area can ignite or explode. To help prevent fire and explosion:

Do not use to pick up flammable or combustible liquids, such as gasoline, or use in areas where they
may be present.

The MV1000S dust collector is a rugged, powerful unit that is sure to meet your expectations for dust control.

See technical data below:

Voltage	220 V / 60 Hz - Single phase
Power	4050 W (5.3 HP)
Air pressure	3000 mm Aq
Airflow	330 c.f.m
Hose	2" (50 mm) Dia.
Weight	175lbs (80kg) (net)
Dimension	27x27x62 in (67x67x155 cm) (LxWxH)
Plastic dust bag	22x32 in (550x800 mm) (LDPE)
Noise	75 dB

TROUBLESHOOTING

PROBLEM

Possible Reason(s)/Solution(s)

—— MOTOR DOES NO START

No power, cable or switch defective

— MOTOR RUNS BUT NO SUCTION

Hose not connected or blocked

— MOTOR RUNS W/ POOR SUCTION

Hose damaged

- Filter blocked

Top cover loose

— DUST BLOWS FROM MOTOR

Filter loose or defective

——ABNORMAL NOISE

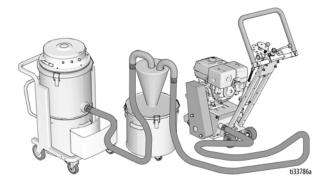
Check motor(s)

SETUP

Connect hoses.

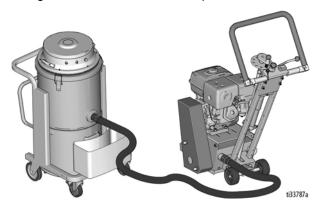
If using a separator:

- Connect one end of the Short Vacuum Hose to the inlet of the MaxiVac. Connect the other end of the short hose to the outlet of the separator.
- Connect one end of the Long Vacuum Hose to the inlet of the separator. Connect the other end of the long hose to the vacuum hookup on the SMITH machine.



If not using a separator:

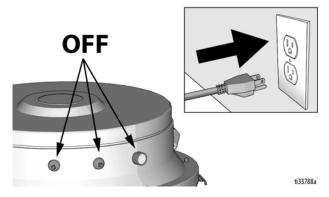
 Connect one end of the Long Vacuum Hose to the inlet of the MaxiVac. Connect the other end of the long hose to the vacuum hookup on the machine.



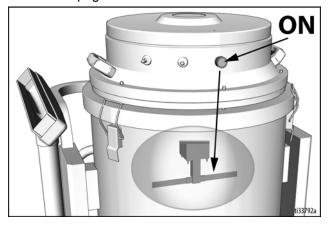
NOTE: Use the Y-Connector to connect 2 hoses to the vacuum or separator, if desired.

Operation

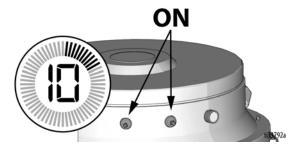
1. Ensure all LazerVac motor switches are turned to "OFF". Plug vacuum into grounded power source.



Turn Auto Filter Cleaner Power Switch to "ON".
 Ensure the sound of the Filter Cleaner Bar is heard contacting the inside of the filter. If no sound is heard, replace the Plastic Inserts on the cleaning bar. See page 18.



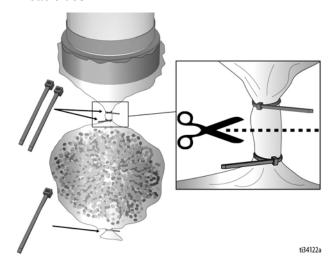
 After 10 seconds, turn on a Vacuum Motor Switch.
 Turn on additional vacuum motors if more vacuum power is needed.



4. LazerVac is now ready for dust collection from the GrindLazer or other removal equipment.

Cyclone LP

- When Vacuum Collection Bag has collected approximately 45 lbs (20 kg) of dust, the bag should be replaced.
- 2. Pull down on the continuous bag to expose 6 12" (15 30 cm) of new, unused bag.
- Use a cable tie to tie off the top of the bag. Fasten another cable tie 2" (5 cm) cable tie above the first cable tie
- 4. Put on respirator. Cut the bag between the two cable ties.



- 5. Dispose of the dust bag. Follow local ordinances and regulations for disposal.
- Pull down on the new bag attached to the vacuum until the bottom of the bag rests on the bottom of the vacuum cart. Ensure the bottom of the bag is tied off firmly with the cable tie.

Maintenance









DUST AND SHOCK HAZARD

To reduce the risk of serious injury:

- Respirator must be worn during all maintenance.
- Follow local ordinances and regulations for disposal of dust.
- Unplug vacuum from power source before maintenance.

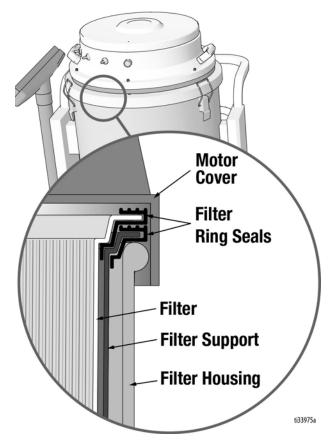
The following steps should be performed to maintain proper operation and sustain the life of the MaxiVac.

Daily

- Prior to use, inspect all hoses for holes. Repair or replace damaged hoses.
- To help maintain performance and dust control, replace filters when:
 - Vacuum filters have tears or are clogged.
 - Airborne dust is visible when using the MaxiVac.

Weekly

 Inspect Filter Ring Seal for damage. If damaged, replace seal. Ensure seals are installed correctly and properly sealed.



 Inspect Filter Cleaner Plastic Inserts for wear or damage. Replace the inserts regularly to help maintain performance and dust control.

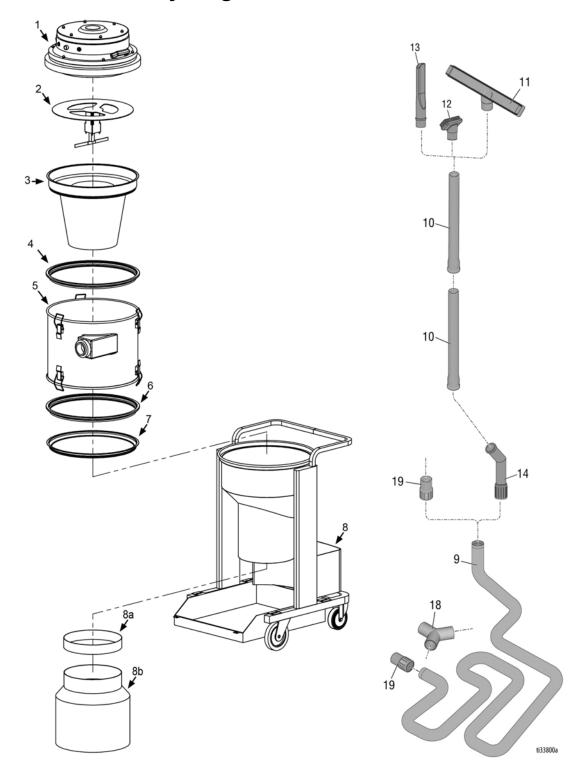
Recycling and Disposal

End of Product Life

At the end of a product's useful life, recycle it in a responsible manner.

Parts

Main MV1000 Assembly Diagram



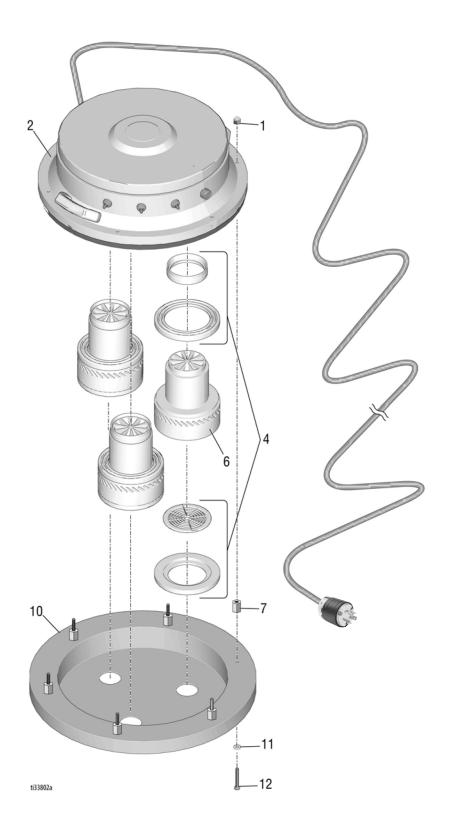
Main MV1000 Assembly Parts (MV1000)

Ref	Part Number	Description	Qty
1	See page 9-11	Motor Housing Assembly	1
2	See page 13	Auto Filter Cleaner Assembly	1
3	MV.1.891A	Filter (includes item 4)	1
4	17X197	Main Body / Filter Seal Rubber Ring	2
5	MV.1.06	Main Body / Filter Housing	1
6	17X197	Rubber Seal	1
7	17X196	Metal Seal Ring	1
8	MV.1.019	Main Frame	1
8a	17X154	Velcro Belt for Dust Bag	1
8b	MV.1.20	20"x32" Dust Bag	1
9*	17X156	Long Vacuum Hose, Standard, 2" (includes item 19)	1
10	MV.26	Vacuum Extension (set of 2)	1
11	MV.24	Vacuum Large Brush	1
12	MV.22	Vacuum Small Brush	1
13	MV.25	Vacuum Floor Nozzle	1
14	MV.27	Vacuum Elbow	1
	17X522	Warning Label (English, French, Spanish)	1
15▲ (not shown)	17X523	Warning Label (English, Chinese, Korean)	1
(17X524	Warning Label (Icons)	1
16	MV.1.025	Dust Bag Holder	1
17	MV.3.20	Dust Bag (set of 20)	1
18	MV-Y	Y-Connector (MaxiVac 330 only)	1
19	MV.23	2" Hose Connector	2

[▲]Replacement warning, safety labels, tags, and cards are available at no cost.

^{* 2&}quot; Heavy Duty, High Temperature Hose available: P/N MV.HS.SD

Motor Housing Assembly Diagram (MV1000)

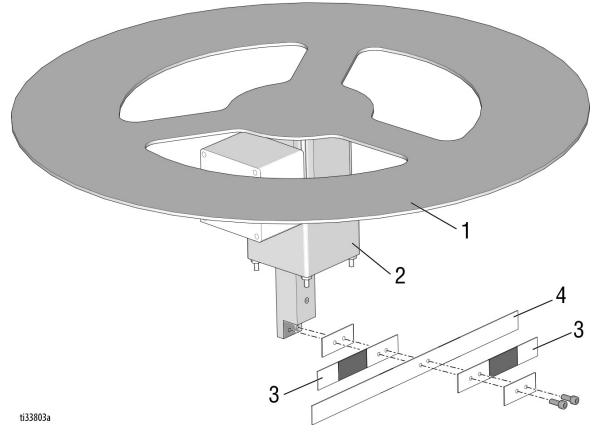


Motor Housing Assembly Parts List (MV1000)

	Part Number	Description	Qty
1	A.HN.25-20	Acorn Nut	6
2	17X169	Motor Housing Cover (includes IEC power cord)	1
3	1HN.25-20X1.0	Hex Spacer, Long (not shown, located inside item 2)	6
4	MV.1.07	Set of Motor Rubber Rings and Plastic Net	3
6	MV.1.06A	Motor, 230V	3
7	HN.25-20X.50	Hex Spacer, Short	6
10	MV.1.010	Motor Table	1
11	FLW.M6	Flat Washer	6
12	HX-CS.25-20X2FT	Hex Head Screw Cap	6
20 [†]	17Y218	Power cord, IEC	1
21 [†]	17Y089	Cord Adapter, US, NEMA	1
22 [†]	17A242	Cord Adapter, Australia	1
23 [†]	15G961	Cord Adapter, Switzerland	1
24 [†]	15G960	Cord Adapter, Denmark	1
25 [†]	15G959	Cord Adapter, Italy	1
26 [†]	15G958	Cord Adapter, Europe, Schuko	1
27 [†]	121249	Cord Retainer for Cord Adapters	1

[†] not shown

Auto Filter Cleaner Assembly (MV1000)



	Part Number	Description	Qty
1	MV.1.13A	Auto Filter Cleaner Assembly Motor Stand	1
2	MV.3.12B	120V Filter Cleaner Assembly Motor	1
2	MV.1.12A	230V Filter Cleaner Assembly Motor	1
3*	MV.1.11-C	Filter Cleaner Bar, Support (set of 2)	1
4†	MV.1.11-D	Filter Cleaner Plastic Insert	1

^{*} MaxiVac 230 and 330 come with one replacement set of item 3

[†] MaxiVac 230 and 330 come with three replacements of item 4

Notes

California Proposition 65

CALIFORNIA RESIDENTS

★ WARNING: Cancer and reproductive harm – www.P65warnings.ca.gov.

SMITH Standard Warranty

SMITH warrants all equipment referenced in this document which is manufactured by SMITH and bearing its name to be free from defects in material and workmanship on the date of sale to the original purchaser for use. With the exception of any special, extended, or limited warranty published by SMITH, SMITH will, for a period of twelve months from the date of sale, repair or replace any part of the equipment determined by SMITH to be defective. This warranty applies only when the equipment is installed, operated and maintained in accordance with SMITH's written recommendations.

This warranty does not cover, and SMITH shall not be liable for general wear and tear, or any malfunction, damage or wear caused by faulty installation, misapplication, abrasion, corrosion, inadequate or improper maintenance, negligence, accident, tampering, or substitution of non-SMITH component parts. Nor shall SMITH be liable for malfunction, damage or wear caused by the incompatibility of SMITH equipment with structures, accessories, equipment or materials not supplied by SMITH, or the improper design, manufacture, installation, operation or maintenance of structures, accessories, equipment or materials not supplied by SMITH.

This warranty is conditioned upon the prepaid return of the equipment claimed to be defective to an authorized SMITH distributor for verification of the claimed defect. If the claimed defect is verified, SMITH will repair or replace free of charge any defective parts. The equipment will be returned to the original purchaser transportation prepaid. If inspection of the equipment does not disclose any defect in material or workmanship, repairs will be made at a reasonable charge, which charges may include the costs of parts, labor, and transportation.

THIS WARRANTY IS EXCLUSIVE, AND IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTY OF MERCHANTABILITY OR WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

SMITH's sole obligation and buyer's sole remedy for any breach of warranty shall be as set forth above. The buyer agrees that no other remedy (including, but not limited to, incidental or consequential damages for lost profits, lost sales, injury to person or property, or any other incidental or consequential loss) shall be available. Any action for breach of warranty must be brought within two (2) years of the date of sale.

SMITH MAKES NO WARRANTY, AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, IN CONNECTION WITH ACCESSORIES, EQUIPMENT, MATERIALS OR COMPONENTS SOLD BUT NOT MANUFACTURED BY SMITH. These items sold, but not manufactured by SMITH (such as electric motors, switches, hose, etc.), are subject to the warranty, if any, of their manufacturer. SMITH will provide purchaser with reasonable assistance in making any claim for breach of these warranties.

In no event will SMITH be liable for indirect, incidental, special or consequential damages resulting from SMITH supplying equipment hereunder, or the furnishing, performance, or use of any products or other goods sold hereto, whether due to a breach of contract, breach of warranty, the negligence of SMITH, or otherwise.

FOR SMITH CANADA CUSTOMERS

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SMITH Information

For the latest information about SMITH products, visit www.SMITH.com.

For patent information, see www.SMITH.com/patents.

TO PLACE AN ORDER, contact your SMITH distributor or call 1-800-690-2894 to identify the nearest distributor.

All written and visual data contained in this document reflects the latest product information available at the time of publication.

Graco reserves the right to make changes at any time without notice.

Original instructions. This manual contains English. MM 3A5576 **SMITH Headquarters:** Pompano Beach, FL

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