



# PrecisionMedical



# Power Vac+

ASPIRATOR

Model No. PM63/PM63E



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## Receiving/Inspection

Remove the Precision Medical, Inc. Power Vac + Aspirator from the packaging and inspect for damage. If there is any damage, DO NOT USE and contact your Provider.

## Intended Use

To supply a continuous or intermittent vacuum source adequate within the stated operating vacuum range, to aspirate fluids in medical suctioning procedures by trained healthcare professionals.

## Read All Instructions Before Using

This manual instructs a Professional to operate the Power Vac + Aspirator. This is provided for your safety and to prevent damage to the Aspirator. If you do not understand this manual, DO NOT USE the Aspirator and contact your Provider.

## Explanation of Abbreviation

mmHg      Millimeters of Mercury

## Safety Information - Warnings and Cautions



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



Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.



Used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.



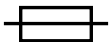
CONSULT ACCOMPANYING DOCUMENTS



Type B Equipment



Protective Earth Ground



Fuse



Alternating Current

 **DANGER**

**TO REDUCE THE RISK OF ELECTROCUTION:**

Always unplug Power Vac + Aspirator immediately after using.

**DO NOT** use while bathing.

**DO NOT** place or store Aspirator where it can fall or be pulled into a tub or sink.

**DO NOT** place or drop into water or other liquid.

**DO NOT** reach for the Aspirator that has fallen into water. Unplug immediately.

**DO NOT** attempt to repair Aspirator. Any attempt could result in electrical shock.

**DO NOT** allow the aspirator to exceed Operating or Storage Temperature specifications.

Never use near any type of flame or flammable/explosive substances.

Caution must be exercised when using this Aspirator where oxygen is being administered.

 **WARNING**

**TO REDUCE RISK OF BURNS, ELECTROCUTION, FIRE, OR INJURY TO PERSONS:**

The Power Vac + Aspirator should never be left unattended when running.

Close supervision is necessary when the Aspirator is used by, on, or near children or invalids.

Use the Aspirator only for its "Intended Use" as described in this manual.

Adjust to desired setting prior to use.

**DO NOT** use attachments not recommended by Precision Medical, Inc.

**DO NOT** use if Aspirator has a damaged cord or plug.

**DO NOT** use if Aspirator has been dropped or damaged.

**DO NOT** cover air vents. Restriction of air flow will cause unit to overheat, causing the thermal reset to shut down the Aspirator.

**DO NOT** drop or insert any object into any opening or hole.

Connect this Aspirator to a properly grounded outlet only. See "GROUNDING INSTRUCTIONS".

Keep the cord away from heated surfaces.

# Specifications

<b>Operating Vacuum Range:</b>	Adjustable 0-200 mmHg Fully adjusted $\geq$ 250 mmHg
<b>Vacuum Modes:</b>	<b>REG</b> - Regulated (provides an adjustable, continuous vacuum level) <b>OFF</b> - No Vacuum <b>INT</b> - Intermittent, approximately 16 seconds "ON," 8 seconds "OFF" at adjusted vacuum setting. <b>Note:</b> Flow in the Intermittent Mode is approximately half of the regulated mode.
<b>Gauge Accuracy:</b>	0 - 100 mmHg $\pm$ 4 mmHg 101 - 200 mmHg $\pm$ 6 mmHg
<b>Dimensions:</b>	Length: 15.9 in (40.3 cm) Width: 7.4 in (18.7 cm) Height: 10.1 in (25.7 cm)
<b>Weight:</b>	21.2 lbs (9.6 kg)
<b>Shipping Weight:</b>	24.5 lbs (11.1 kg)
<b>Electrical:</b>	PM63: 108-132 VAC, 60 Hz, 5 Amps PM63E: 207-253 VAC, 50 Hz, 2.2 Amps
<b>Operating Temperature Range:</b>	50°F to 104°F (10°C to 40°C)
<b>Transport/Storage Requirements:</b>	Temperature Range: -4°F to 104°F (-20°C to 40°C) Humidity: Max 95% Noncondensing
<b>Filter:</b>	Inline, Hydrophobic
<b>Safety Systems:</b>	High Temperature Motor Shutdown, Class B, Thermal Limit Automatic Reset
<b>Suction Canister:</b>	Maximum Volume 2,000 cc Do not exceed vacuum level of 25 inHg (640 mmHg)
<b>Equipment Classification:</b>	Class I - with respect to protection from electrical shock. Type B - degree of protection against electrical shock. IPX0 - degree of protection against ingress of liquids. Mode of Operation - continuous

This Power Vac + Aspirator meets the EMC requirements of EN55011.

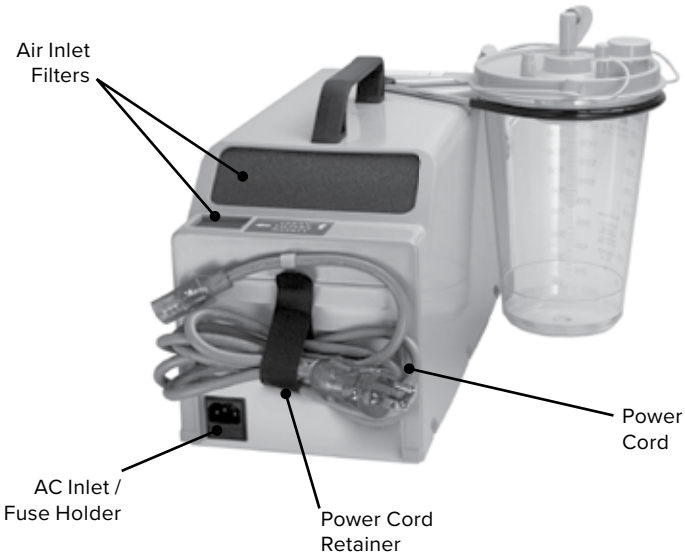
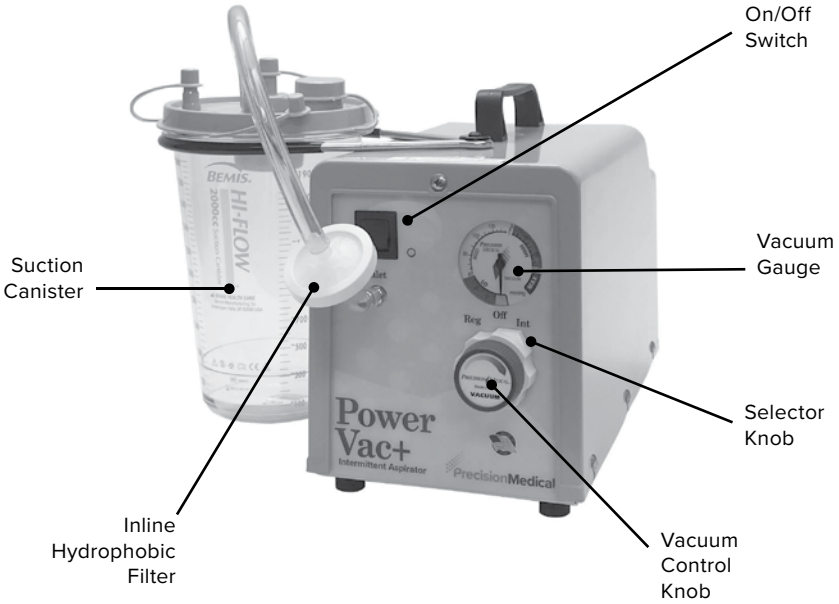
This Power Vac + Aspirator is not suitable for use in the presence of a flammable anesthetic mixture with air, oxygen or nitrous oxide.

Specifications are subject to change without prior notice.

# Component Description

**⚠ CAUTION**

Missing or illegible labels must be replaced, contact Precision Medical, Inc.



## Grounding Instructions

The Power Vac + Aspirator must be plugged into an electrical outlet that is properly grounded. In the event of an electrical short circuit, grounding reduces the risk of electrical shock. This product is equipped with a grounding circuit.

### DANGER

Improper use of the grounding plug can result in a risk of electrical shock.

### WARNING

Ground reliability can only be achieved when the power cord is connected to an equivalent receptacle marked "Hospital Grade."

## Operating Instructions

### WARNING

Read this User Manual before operating the Power Vac + Aspirator.

**Full Vacuum is present between settings.**

### CAUTION

Inspect the Power Vac + Aspirator for visual damage before use. **DO NOT USE** if damaged.

1. Place Aspirator near a properly grounded electrical receptacle on a table, floor or other horizontal, smooth, hard surface. Allow a minimum of 4 in (10 cm) clearance on all sides to ensure adequate air flow for cooling of Aspirator.
2. Ensure the On/Off Switch and Selector Knob are in the "OFF" position.
3. Ensure the Inline Hydrophobic Filter is properly connected to the vacuum port on Suction Canister lid.

The Inline Hydrophobic Filter prevents liquid from entering the vacuum pump.

### CAUTION

**DO NOT** run the Aspirator without Inline Hydrophobic Filter and canister. This will void the warranty.

4. Plug the Aspirator into a properly grounded receptacle.
5. Press the On/Off Switch to the "ON" position.
6. Turn the Selector Knob to the "REG" position.

7. Block the patient connection on the Suction Canister and adjust the Vacuum Control Knob to the desired vacuum.
  - To INCREASE vacuum - Turn knob CLOCKWISE
  - To DECREASE vacuum - Turn knob COUNTERCLOCKWISE
  - Vacuum should be set as prescribed by your physician or healthcare professional.

**NOTE:** Intermittent cycle starts in the OFF phase, therefore a delay occurs before the ON (suction) cycle begins.
8. Turn Selector Knob to the “INT” position to obtain an intermittent, adjustable vacuum that cycles on and off.
9. Connect one end of Patient Suction Tubing to the port on the Canister marked Patient Tubing.
10. Connect other end of Patient Suction Tubing to suction catheter and begin procedure as instructed by healthcare provider.
11. When procedure is completed, press the On/Off Switch to the “OFF” position.
  - DO NOT overfill the canister.
12. Empty the Suction Canister as follows:
  - Disconnect all suctioning tubing.
  - Remove the canister from its bracket and empty as instructed by your Physician or Healthcare Professional.
  - Replace Suction Canister and reconnect all suctioning tubing.

<b>CAUTION</b>
Canister is for single patient use only.

## Cleaning/Maintenance

 <b>WARNING</b>
Turn the Power Vac + Aspirator off and disconnect from power source before cleaning.
<b>DO NOT</b> attempt to repair. There are no serviceable parts inside.

The Inline Hydrophobic Filter cannot be cleaned. If it becomes contaminated or clogged, it must be replaced.

**To replace Inline Hydrophobic Filter:**

1. Disconnect filter assembly from Suction Canister and remove Suction Canister from the Aspirator.
2. Remove filter assembly from the Aspirator.
3. Dispose of filter only.
4. Install new Inline Hydrophobic Filter (Part #1690) and reconnect tubing and elbow.

Tubing is single patient use only. DO NOT clean.



## To replace Air Filters:

### CAUTION

Excessive dust build-up on air filters will reduce performance of Aspirator. If this occurs, filters should be cleaned or replaced.

**DO NOT** use where saline mist could be drawn into the Aspirator. The Air Filters do not filter out saline.

**Saline causes rapid deterioration of the Aspirator and will void the warranty.**

1. Check both Air Filters on top rear of cabinet for dust build-up.
2. If dust build-up occurs, unplug Aspirator, remove Air Filters from their recessed areas and wash in warm, soapy water and rinse.
3. Absorb excess water from filters with a dry towel.
4. Return filters to their original locations.

## Cleaning for Exterior Components:

Use a cloth or sponge dampened with soap and water.  
Wipe dry with a clean cloth or paper towel.

### ⚠ WARNING

DO NOT immerse the Power Vac + Aspirator in liquid.

If Aspirator is used for treatment of infectious disease, consult your Physician or Healthcare Professional for recommended cleaning procedures.

## Returns

Returned products require a Returned Goods Authorization (RGA) number, contact Precision Medical, Inc. All returns must be packaged in sealed containers to prevent damage. Precision Medical, Inc. will not be responsible for goods damaged in transit. Refer to Precision Medical, Inc. Return Policy available on the Internet, [www.precisionmedical.com](http://www.precisionmedical.com).

**Manuals available on our website, [www.precisionmedical.com](http://www.precisionmedical.com)**

**NOTE:** When returning the Power Vac + Aspirator, disconnect the power cord from the back of unit.

## Disposal Instructions

Dispose of the Power Vac + Aspirator in accordance with the local regulations.

Please Recycle



### ⚠ WARNING

Product should be cleaned before being disposed of Potential for Biohazard

## Replacement Parts

Part #	Description
1690	Inline Hydrophobic Filter
1955	Suction Tubing, 1/4 ID x 6 ft, Clear Non-Conductive PVC
502391	Small Air Filter
502471	Large Air Filter
502687	Suction Canister - 2,000 cc (with lid)
502690	Inline Hydrophobic Filter & Tube Assy
503240	Fuse

## Troubleshooting

If the Power Vac + Aspirator fails to function, consult the Troubleshooting Guide below. If problem cannot be solved, consult your Provider.

Problem	Probable Cause	Remedy
Aspirator will not operate	On/Off switch in "OFF" position	Push On/Off switch to "ON" position
	Power Cord not connected properly	Check plug at outlet
	Thermal limit exceeded	Shut Aspirator "OFF," wait 15 minutes, be sure vents are clear
	Blown Fuse	Replace Fuse
No vacuum on gauge / no vacuum at Patient Connection Tubing	Hydrophobic Filter assembly not connected properly	Confirm and tighten connections
	Suction Canister not connected or assembled properly	Confirm and tighten connections/assembly
	Defective Suction Canister	Replace Suction Canister
	Defective regulator	Contact your Provider
No Vacuum on gauge/ vacuum at Patient Tubing Connection	Defective vacuum gauge	Contact your Provider
Vacuum on gauge/ No vacuum at Patient Tubing	Clogged Hydrophobic Filter	Replace Hydrophobic Filter
	Canister overfilled	Empty canister
Unable to adjust vacuum	Defective regulator	Contact your Provider

## **Limited Warranty and Limitation of Liability**

Precision Medical, Inc. warrants that Power Vac + Aspirator (the Product) will be free of defects in workmanship and/or material for the following period:

Three (3) years from shipment

Should any failure to conform to this warranty appear within the applicable period, Precision Medical, Inc. shall, upon written notification thereof and substantiation that the goods have been stored, installed, maintained and operated in accordance with Precision Medical, Inc.'s instructions and standard industry practice, and that no modifications, substitutions, or alterations have been made to the goods, correct such defect by suitable repair or replacement at its own expense.

**ORAL STATEMENTS DO NOT CONSTITUTE WARRANTIES.**

The representatives of Precision Medical, Inc. or any retailers are not authorized to make oral warranties about the merchandise described in this contract, and any such statements shall not be relied upon and are not part of the contract for sale. Thus, this writing is a final, complete and exclusive statement of the terms of that contract.

**THIS WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ANY WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHER WARRANTY OF QUALITY, WHETHER EXPRESS OR IMPLIED.**

Precision Medical, Inc. shall not under any circumstances be liable for special, incidental or consequential damages including but not limited to lost profits, lost sales, or injury to person or property. Correction of non-conformities as provided above shall constitute fulfillment of all liabilities of Precision Medical, Inc. whether based on contract, negligence, strict tort or otherwise. Precision Medical, Inc. reserves the right to discontinue manufacture of any product or change product materials, designs, or specifications without notice.

Precision Medical, Inc. reserves the right to correct clerical or typographical errors without penalty.



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