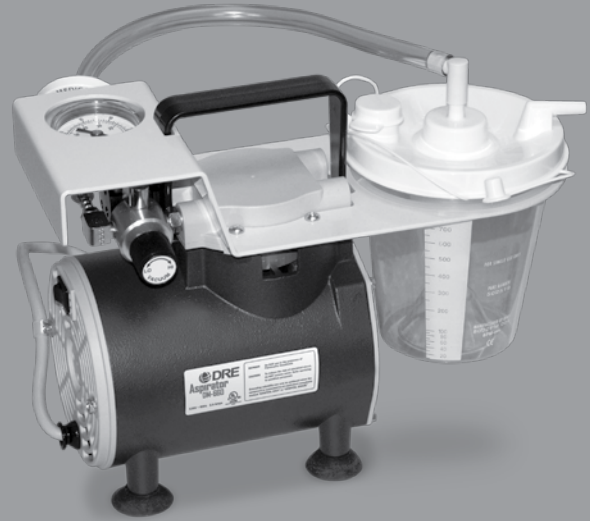


DRE DM-660
User's Manual



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RECEIVING/INSPECTION

Remove the DRE DM-660 Aspirator from packaging and inspect for damage. If there is any damage, DO NOT USE and contact your Equipment Provider.

INTENDED USE

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


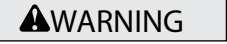


READ ALL INSTRUCTIONS BEFORE USING

This manual instructs a Professional to install and operate the 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 Equipment Provider.

EXPLANATION OF ABBREVIATIONS

inHg	Inches of Mercury
mmHg	Milimeters 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

⚠ DANGER

TO REDUCE THE RISK OF ELECTROCUTION:

- Always unplug the Aspirator immediately after use.
- 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 a Aspirator that has fallen into water. Unplug immediately.
- DO NOT attempt to repair Aspirator. Any attempt could result in electrical shock.
- DO NOT use near any type of flame or flammable/explosive substances.
- DO NOT allow Aspirator to exceed Operating or Storage Temperature specifications.
- 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 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.
- DO NOT use attachments not recommended by the manufacturer.
- DO NOT use when sleepy or drowsy.
- DO NOT use if Aspirator has a damaged cord or plug.
- DO NOT use if Aspirator has been dropped or damaged.
- DONOT cover airvents. Restriction of air flow will cause Aspirator 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.

⚠CAUTION

If for any reason any label becomes illegible or lost, contact DRE, Inc.

CAUTION

- Inspect the Aspirator for visual damage, DO NOT USE if damaged.
- Ground reliability can only be achieved when the power cord is connected to an equivalent receptacle marked "Hospital Grade".

SPECIFICATIONS

Operating Vacuum Range:	0-26 inHg (0-660 mmHg)
Dimensions:	Length: 13.25 in (33.7 cm)
	Width: 8.00 in (20.3 cm)
	Height: 9.75 in (24.8 cm)
Weight:	12.6 lbs (5.7 kg)
Shipping Weight:	14.5 lbs (6.6 kg)
Electrical:	PM60: 108 -132 VAC, 60 Hz, 5 Amps
	PM60E: 207 - 253 VAC, 50Hz, 2.4 Amps
Operating Temperature Range:	50°F to 104°F (10°C to 40°C)
Storage Temperature Range:	-4°F to 104°F (-20°C to 40°C)
Filter:	Inline, Hydrophobic
Safety Systems:	Automatic Resetting Thermal Limit Switch
Equipment Classification:	
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

The Aspirator meets the EMC requirements of EN 550011:1998.

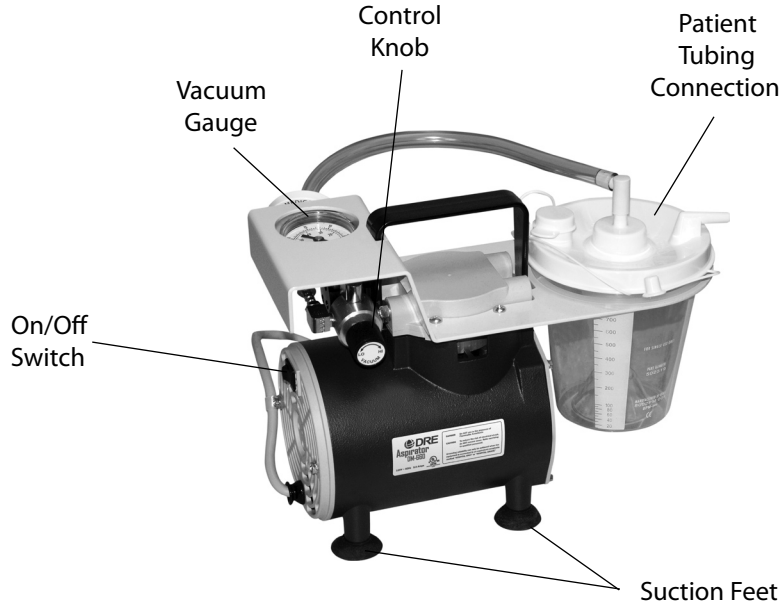
The Aspirator is not suitable for use in the presence of a flammable anesthetic mixture with air, oxygen or nitrous oxide.

Specifications are subject to change without prior notice.

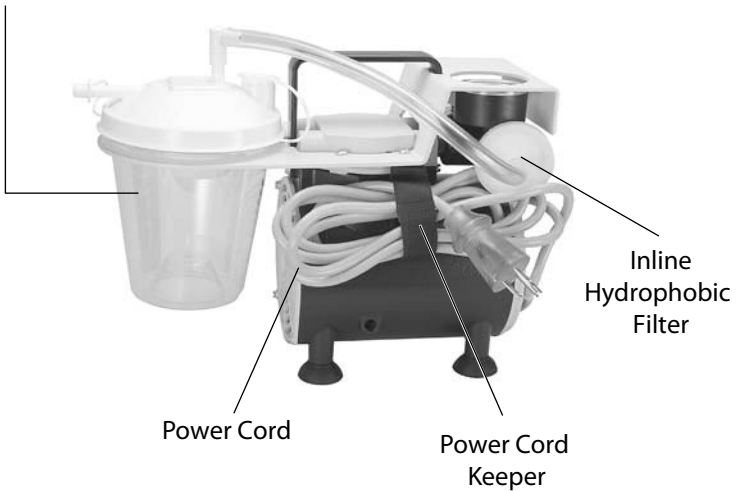
COMPONENT DESCRIPTION

⚠ CAUTION

If for any reason any label becomes illegible or lost, contact DRE, Inc.



Standard 800cc Suction Canister



GROUNDING INSTRUCTIONS

The Aspirator should be grounded. In the event of an electrical short circuit, grounding reduces the risk of electrical shock by providing an escape wire for the electrical current. This Aspirator is equipped with a cord having a grounding wire with a grounding plug. The plug must be plugged into an outlet that is properly installed and grounded.

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

CAUTION

Inspect the Aspirator for visual damage, 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 4in (10 cm) clearance on all sides to ensure adequate air flow for cooling of Aspirator.
2. Press down on Aspirator until Suction Feet are secure.
3. Be sure the On/Off Switch is in the "OFF " position.
4. Be sure the Inline Hydrophobic Filter is properly connected to the vacuum port on the Suction Canister lid.
 - The Inline Hydrophobic Filter prevents liquid from entering the vacuum pump.

CAUTION

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

5. Plug the Aspirator into a properly grounded receptacle.
6. Turn the On/Off Switch to the "ON" 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 Physician or Healthcare Professional.
8. Connect one end of the Patient Suction Tubing to the port on the Canister marked Patient Tubing.
9. Connect the other end of the Patient Suction Tubing to the suction catheter and begin procedure as instructed by Healthcare Provider.
10. When procedure is completed, press the On/Off Switch to the "OFF " position.
 - DO NOT overfill the canister
11. Empty the Suction Canister as follows:
 - Remove the canister from its bracket and empty as instructed by your Physician or Healthcare Professional.

CAUTION
Canister is for single patient use only.

12. Replace Suction Canister and reconnect all suctioning tubing.

CLEANING/MAINTENANCE

⚠WARNING
Turn the Aspirator off and disconnect from any external power source before cleaning.

Inline Hydrophobic Filter:

This 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.
4. Install new filter (Part #1690) and reconnect tubing and elbow.

Tubing is single patient use only. DO NOT clean.

Cleaning for Exterior Components:

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

RETURNS

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

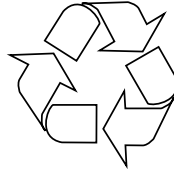
DISPOSAL INSTRUCTIONS

Dispose of Bio-waste products as described by your Healthcare Professional or Healthcare Facility protocol.

WARNING

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

Please Recycle



REPLACEMENT PARTS

Description	Part #
Patient Suction Tubing	1955
Filter	1690
Filter Assembly	502012
Elbow Canister Outlet	1616
800cc Canister, (Case-10 ea.)	502519-10

TROUBLESHOOTING

If the Aspirator fails to function, consult the Troubleshooting Guide.

If the problem cannot be corrected, consult your Equipment Provider.

Problem	Probable Cause	Remedy
Aspirator will not operate	<ol style="list-style-type: none">1. On/Off switch in "OFF " position2. Power Cord not connected properly3. Thermal limit exceeded	<ol style="list-style-type: none">1. Push On/Off switch to "ON" position2. Check plug at outlet3. Shut Aspirator off, wait 15 minutes, be sure vents are clear
No vacuum on gauge / no vacuum at Patient Connection Tubing	<ol style="list-style-type: none">1. Hydrophobic Filter not connected properly2. Suction Canister not connected or assembled properly3. Defective Suction Canister4. Defective Regulator	<ol style="list-style-type: none">1. Confirm and tighten connections2. Confirm and tighten3. Replace Suction Canister4. Contact your Equipment Provider
No vacuum on gauge / vacuum at Patient Connection Tubing	<ol style="list-style-type: none">1. Defective vacuum gauge	<ol style="list-style-type: none">1. Contact your Equipment Provider
Vacuum on gauge / no vacuum at Patient Suction Tubing	<ol style="list-style-type: none">1. Clogged Hydrophobic filter2. Canister overfilled	<ol style="list-style-type: none">1. Replace Hydrophobic filter2. Empty canister
Unable to adjust vacuum	<ol style="list-style-type: none">1. Defective regulator	<ol style="list-style-type: none">1. Contact your Equipment Provider

LIMITED WARRANTY AND LIMITATION OF LIABILITY

The manufacturer warrants that the Aspirator (the product) will be free of defects in workmanship and/or material for the following period:

Five (5) years from shipment

Should any failure to conform to this warranty appear within the applicable period, the manufacturer shall, upon written notification thereof and substantiation that the goods have been stored, installed, maintained and operated in accordance with the manufacturer'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 DRE, 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.

The manufacturer 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 the manufacturer whether based on contract, negligence, strict tort or otherwise. The manufacturer reserves the right to discontinue manufacture of any product or change product materials, designs, or specifications without notice.

The manufacturer reserves the right to correct clerical or typographical errors without penalty.

