Series 1000 Suction Unit Instruction Guide

This Unit Compliant with EU EMC Standard EN60601-1-2

CAUTION Use this Aspirator Only for its “Intended Use” as described in this manual. Improper use or failure to do so could result in personal injury or property damage.
Medical Suction Equipment

Models No. MQ1000, MQ1100

INSTRUCTIONS

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I. Introduction of Intended Use

A. This Medical Suction Device is intended for the removal of fluids from the airway or respiratory system. This appliance may also be employed in the removal of infectious materials from patient wounds.

B. Utilizing a motor to drive an air pump to generate negative pressure (vacuum), this device will aspirate mucous secretions from the patient’s body, in the management and treatment of respiratory diseases. Aspirated secretions are collected in the collection bottle for proper disposal.

Federal (USA) Law Restricts this Device to Sale by or on the Order of a Physician.
II. Product Structure

A. Visual appearance

Models MQ1000 / MQ1100

B. Assemblies

SU-01

SU-DC01
III. Important Safeguards

**Note:** Read all instructions carefully before use.
The following basic precautions are recommended when using this product:

**Caution:** Failure to read and observe all precautions could result in personal injury or equipment damage.

**Warning:** Modification of this equipment voids the Warranty.

**Product Cautions:**
1. To avoid electrical shock, keep the unit away from water; do not immerse the power cord or the unit in any liquid; do not use while bathing; do not reach for a unit that has fallen into water – immediately unplug the unit.
2. Never operate the unit if it has any damaged parts (including power cord), and/or if it has been dropped or submerged in water.
3. The unit should not be used where flammable gas, oxygen or aerosol spray products are being used.
4. Disconnect the unit from the electrical outlet before cleaning, filling and after each use.

**Operating Cautions:**
1. Connect this product to an appropriate voltage outlet for your model.
2. Do not run this product unattended.
3. Never operate if this unit has a damaged cord or plug, and/or if it has been dropped into water.
4. If any abnormality occurs, discontinue use immediately until the unit has been examined and repaired.
5. Always unplug the product immediately after use.

**Storage Cautions:**
1. Do not store the unit under direct sunlight, extreme temperature or humidity.
2. Keep the unit out of reach of children.
3. Always keep the unit unplugged while not in use.

**Cleaning Cautions:** Clean after each use as instructed in this guidebook.
1. Do not immerse the unit in water. It may damage the unit.
2. Disconnect the unit from the electrical outlet before cleaning.
## IV. Device Specifications:

<table>
<thead>
<tr>
<th>No.</th>
<th>Item</th>
<th>SU-01</th>
<th>SU-DC01</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Rated Power input</td>
<td>120V/60Hz AC(230V/50Hz)</td>
<td>DC 12V</td>
</tr>
<tr>
<td>2</td>
<td>Power</td>
<td>70 Watt Max</td>
<td>48 VA Max</td>
</tr>
<tr>
<td>3</td>
<td>Max Negative Pressure</td>
<td>550mmHg</td>
<td>530mmHg</td>
</tr>
<tr>
<td>4</td>
<td>Negative Pressure Adjust Range</td>
<td>150-550mmHg</td>
<td>150-530mmHg</td>
</tr>
<tr>
<td>5</td>
<td>Max Suction Speed</td>
<td>28 Lpm</td>
<td>25 Lpm</td>
</tr>
<tr>
<td>6</td>
<td>Collection bottle Capacity</td>
<td>800cc</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Dimensions</td>
<td>364x175x213mm</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Weight</td>
<td>2.6 kgs</td>
<td>2.4 kgs</td>
</tr>
<tr>
<td>9</td>
<td>Life of Use</td>
<td>≧ 2 years</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Operating Environment</td>
<td>10°C to 40°C (50°F to 104°F), 30% to 75% HR</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Storage Environment</td>
<td>-20°C to 60°C (-4°F to 140°F), 10% to 95% HR</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Noise</td>
<td>≦ 65 dBA at 1 meter</td>
<td></td>
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</table>

### TWO YEAR LIMITED WARRANTY

This unit is warranted to be free from defective workmanship and materials for a period of two years from the date of purchase. Rechargeable batteries are warranted for 90 days. Any defective part will be replaced or repaired at the manufacturer’s prudence. If proper care and maintenance of this unit is not followed as detailed within the operating manual the warranty is subject to be terminated. If warranty repair is needed please contact the manufacturer distributor as indicated within. There is no other express warranty. MEDQUIP Inc. reserves all rights.
V. Operation Instruction

A. Set the air filter:
1. Open the accessories case and take out the two silicone tubes and the filter cover. Connect one end of the silicone tube to the front air input port and the other end to the filter cover.
2. Connect the filter cover to the collection bottle with the silicone tube.
3. Inspect suction tubing and collection bottle for leaks, cracks, etc. before each use.

B. Turn on the device:
1. Plug in the power cord.
2. Turn on the power switch.
3. Connect the suction tube to the device, open the suction valve, and make sure the suction air way is unobstructed.
4. Adjust the negative pressure through the adjusting knob; choose the appropriate negative pressure for the appropriate recommended treatment (please refer to your physician) of the patient.

Note: DC model, if the device is connected with the Adaptor, the device will not use the energy in the battery set.

C. Turn off the device:
1. After the treatment is over, turn off the power switch, the device will stop working. For DC model, when the Power Switch is turned off, the device starts battery charging. The time of the battery charge is less than eight hours.
2. The working cycle of the device is 30 minutes on and 30 minutes off.
Cleaning and Sterilization

Disconnect from the power source prior to cleaning.

1. It is recommended that the tubing and collection bottle be thoroughly cleaned with hot water after each use and be cleaned with a mild detergent after the last treatment of the day. If your physician or respiratory therapist specifies a different cleaning procedure, follow their instructions.
2. The filter cannot be cleaned.
3. NOTE: If the filter gets wet, or becomes contaminated or clogged, it must be replaced.

Rinsing (after each treatment)
1. Disconnect the tubes, collection bottle and the filter cover. Rinse the tubes, collection bottle with water.
2. Dry them with clean soft towel or let it air dry.
3. Reassemble the product when completely dry and put these parts in a clean sealed container.

Disinfections:
Please abide by the following steps to disinfect your Suction Device unless otherwise specified by your physician. It is suggested that the unit is disinfected after each treatment.

1. Use one part white vinegar with three parts distilled water. Make sure mixed solution is enough to submerge the tubes and collection bottle.
2. Complete Rinsing Steps 1-3.
3. Wash the tubes and collection bottle in a warn water and a mild detergent. Then wash them in a hot tap water.
4. Submerge these parts in the vinegar and water solution for thirty minutes.

Commercial Bacterial Germicides specifically intended for cleaning medical devices within the institutional environment may be used in compliance to the manufacturer’s recommended instructions in cleaning this equipment.
VI. Replaceable Parts and Accessories

Always use OEM Parts
UL approved AC power cord
Never use any AC-DC Adaptor other than: Model: UE48-120400SPA1

Use compliant FDA or CE approved suction tubing with the diameters of Ø 6.0mm x Ø9.0mm with VEGA SU-01/SU-DC01 medical suction equipment.

Consult enclosed documents
Type BF equipment
Disposal for Separate Collection
Device in protection class 2