Salter AIRE Elite Compressor

Instruction Manual
Part No: 8350-1 / 8352-1 / 8353-1

Thank you for selecting the Salter AIRE Elite Compressor. Salter Labs is an innovative, industry-leading manufacturer of respiratory care devices. Please contact your local Salter Labs dealer for information about additional products.

SAVE THESE INSTRUCTIONS. READ ALL INSTRUCTIONS BEFORE USE.

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1. Important Safeguards

NOTE: CAUTION, WARNING, AND SYMBOLS:
Important information is highlighted by using the following:

WARNING: Indicates that you could be injured.

CAUTION: Indicates that you could damage your equipment.

NOTE: Indicates information that you should know.

1. Power Switch 2. Filter Cap (dispensable filter inside)
3. Air-Outlet Connector 4. Integrated Carrying Handle
5. Power Cord 6. Nebulizer Cup Holder
7. Cooling Air Openings

4. Operation

NOTE: Before initial operation, the nebulizer cup assembly should be cleaned following instructions described in the “Cleaning” section.

WARNING: Before connecting the power cord, make sure the I/O (ON/OFF) switch is in the O (OFF) position.

The plug is also served to disconnect the device. Do not position the equipment so that it is difficult to operate the disconnecting device.

4.1 Daily Use Operation

CAUTION: The Salter AIRE Elite Compressor System is designed for intermittent use only. Do not operate it continuously for more than 30 minutes for a single use without turning it off and following a cooling period for at least 30 minutes.

1. Before each use inspect the Salter AIRE Elite Compressor and nebulizer cup assembly for damage or wear, replace as needed.

2. Place the Salter AIRE Elite Compressor System on a table or other flat stable surface. Be sure you can easily reach the controls when seated. Do not use this device on the floor.

3. When the power switch in the O (OFF) position, plug the power cord into an appropriate electrical wall outlet.

4. Connect one end of the tubing to the compressor air-outlet connector. Connect the other end of the tubing to the nebulizer cup assembly for damage or wear, replace as needed.

5. Place the Salter AIRE Elite Compressor and nebulizer cup assembly for damage or wear, replace as needed.

6. With the power switch in the O (OFF) position, plug the power cord into an appropriate electrical wall outlet.

7. Connect the other end of the tubing to the nebulizer cup assembly for damage or wear, replace as needed.

Another function of the tubing is to place it on a soft surface such as bed or couch, where the air openings may be blocked.

Never use while sleeping or feeling drowsy.

13. Never drop or insert any object into any opening or hose.

14. Never modify this equipment without authorization of the manufacturer.

15. If this equipment is modified, appropriate inspection and testing must be conducted to ensure continued safe use of the equipment.

16. Do not use in outdoor or operate where aerosol (spray) products are being used or where oxygen is being administered in a closed environment such as an oxygen reservoir.

17. Do not wrap the power cord around the compressor (main unit).

18. Disconnect the power plug by pulling the plug, not by pulling on the compressor (main unit), or the cord.

19. Do not place heavy objects on the power cord, or bend and pull the cord harder than necessary. These actions could cause an electric shock or fire.

20. If the power cord or plug becomes frayed or otherwise damaged, do not use.

21. Do not place hazardous objects on the power cord, or bend and pull the cord harder than necessary. These actions could cause an electric shock or fire.

22. Potential allergic reactions to accessible materials used in the Compressor Nebulizer equipment. If any signs of allergic reaction or hypersensitivity happen, stop the treatment immediately, and notify the doctor or nurse.

23. Potential contact injuries for patients used in the Compressor Nebulizer equipment. If any contact injuries happen, stop the treatment, and notify the doctor or nurse.

24. The device enclosure may overheat, users do not touch more than 10 seconds.

WARNING: EFC Statement

This equipment has been tested and found to comply with the limits for medical devices to the IEC 60601-1:2014. These limits are designed to provide reasonable protection against harmful interference in a typical medical installation. This equipment generates uses and can radiate frequency energy, and, if not installed and used in accordance with the instructions, may cause harmful interference to other devices in the vicinity. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to other devices, which can be determined by turning the equipment on and off, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving device.
- Increase the separation between the equipment.
- Connect the equipment into an outlet on a circuit different from that to which the other device(s) are connected.
- Consult the manufacturer or field service technician for help.

WARNING: If there is a possibility of electro-magnetic interference with mobile phones, please increase the distance (5.3m) between devices or turn off the mobile phone.

2. Introduction

2.1 Intended Use

The Salter AIRE Elite Compressor System is intended to provide a source of compressed air for aerosol therapy. It is used in conjunction with a jet (pneumatic) nebulator to produce aerosolized medications for inhalation by pediatric and adult patients with respiratory symptoms.

CAUTION: Aerosolize liquid medication except Pentamidine for inhalation by the patients. Indications for therapy include asthma, chronic bronchitis, infection of the upper respiratory tract, chronic obstructive pulmonary disease (COPD) and other respiratory disorders in accordance with a medical doctor's prescription. Except the usage mentioned above, please do not use this product for any other purpose. This device can be used with adults or pediatric patients under physician's prescription.

2.2 Safety Precaution

When using this electrical product, especially when children are present, one should always follow basic safety precautions. Do not install, maintain or operate this equipment without reading, understanding and following the proper Salter AIRE Elite Compressor System instruction manual, otherwise injury or damage may result.

For 120V only. This appliance has a polarized plug (one blade is wider than the other). To reduce the risk of electric shock, this plug is intended to fit into a polarized outlet only one way. If the plug does not fit fully into the outlet, reverse the plug. If it still does not fit, contact a qualified electrician.

Do not modify the plug in any way.

3. Product Description

Symbols:

O Off, disconnection from the mains
I On, connection to the mains

IPX4 Protected against solid foreign objects having a diameter of 12.5 mm and greater. No protection against vertically falling water drops. Keep dry!

Temperature limitation

Disposal of Electrical & Electronic Equipment (WEEE): This product should be handed over to an applicable collection point for the recycling of electrical and electronic equipment. For more detailed information about the recycling of this product, please contact your local city office, household waste disposal service or the retail store where you purchased this product.

U.S. Federal Law restricts this device to sale by or on the order of a physician.

To reduce the risk of burns, electric shock, fire or injury to persons:

1. Always unplug this product immediately after using.

2. Do not use while bathing, showering, dish washing, or close to water sources of any kind.

3. Do not place or store product where it can fall or be pulled into a tub or sink.

4. Do not place in or drop into water or other liquid.

5. Do not reach for a product that has fallen into water.

6. Unplug immediately.

7. This product should never be left unattended when plugged in.

8. Close supervision is necessary when this product is used by, or near children or invalids.

9. Choking accident may result from a child swallowing a small part that has become detached from the device or its accessories.

10. Use this product only for its intended use as described in this manual. Use this product only under the doctor's direction. Do not use attachments not recommended by the manufacturer.

11. Never operate this product if a) it has a damaged cord or plug, b) it is not working properly, c) it has been dropped or damaged, d) it has been dropped into water. Return the product to a specified service center for examination and repair.

12. Keep the cord away from heated surfaces.

13. Never block the air inlets or allow objects to fall or be inserted into the air vents or place it on a soft surface such as bed or couch, where the air openings may be blocked.

14. Never use while sleeping or feeling drowsy.
1. This unit is oil-less. Do Not Lubricate.
2. Risk of electric shock. Do not disassemble the main unit.

3. Check if plug is properly fit into an appropriate electrical outlet. When device has been run continuously for over 30 minutes right before using, an auto shut down may be activated by built-in thermal protector, cool down device for 30 minutes before next usage.

4. Check for proper electrical voltage. Check tubing for blockage or air leakage at connection to Salter AIRE Elite Compressor or nebulizer cup, replace as needed.

5. Check the nebulizer cup if it is properly assembled and not damaged. If there is any damage, replace as needed.

6. Check if filter is dirty, replace as needed.

7. Service

Except for the above instructed user maintenance, all device servicing must be performed by a Salter Labs® authorized service representative. There are no serviceable parts inside the unit. Contact your Salter Labs dealer or authorized service center if your unit needs repair.

WARNING: Do not tamper with or attempt to repair the device. Refer servicing to qualified service personnel.

8. Expected Service Life

The products are intended to offer safe and reliable operation when used or installed according to the instructions provided by Salter Labs. Salter Labs recommends that the system be inspected and serviced by authorized technicians if there are any signs of wear or concerns with device function and indication on products. Otherwise, service and inspection of the devices generally should not be required.

9. Troubleshooting

If your Salter AIRE Elite Compressor fails to function, consult the Troubleshooting guide below. If the problem persists, consult your equipment provider.

10. Specifications

(All specifications are subject to change without notice.)

<table>
<thead>
<tr>
<th>Electrical Rating</th>
<th>Note</th>
<th>120VAC, 60Hz, 1.2A (For 120V System)</th>
<th>230VAC, 50Hz, 0.4A (For 230V System)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Pressure</td>
<td></td>
<td>≧30 psi</td>
<td>≧30 psi</td>
</tr>
<tr>
<td>Nebulizer Flow Rate</td>
<td></td>
<td>≧5.5 lpm</td>
<td>≧5.0 lpm</td>
</tr>
</tbody>
</table>

11. Accessories

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>8501-1-2</td>
<td>Salter AIRE Elite Replacement filters</td>
</tr>
<tr>
<td>8258-0-1</td>
<td>Compressor Carrying bag</td>
</tr>
<tr>
<td>8660</td>
<td>NebuTech® Nebulizer – Reusable</td>
</tr>
<tr>
<td>8960</td>
<td>NebuTech Nebulizer – Disposable</td>
</tr>
<tr>
<td>8967</td>
<td>NebuTech Nebulizer with Pediatric Mask</td>
</tr>
<tr>
<td>8984</td>
<td>NebuTech Nebulizer with Adult Mask</td>
</tr>
<tr>
<td>8900</td>
<td>Nebulizer with Tee Adapter</td>
</tr>
</tbody>
</table>

12. Appendix A: EMC Information

Guidance and Manufacturer’s Declaration - Electromagnetic Emissions:

This device is intended for use in the electromagnetic environment specified below. The user of this device should make sure it is used in such an environment.

<table>
<thead>
<tr>
<th>Emissions Test</th>
<th>Compliance</th>
<th>Environmental Emission - Guidance</th>
</tr>
</thead>
<tbody>
<tr>
<td>RF emissions CISPRI 11</td>
<td>Group 1</td>
<td>The device uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electromagnetic power supply network.</td>
</tr>
<tr>
<td>Harmonic emissions IEC61000-3-2</td>
<td>Class A</td>
<td>The device is suitable for use in all establishments, including domestic environments and those directly connected to the public low-voltage power supply network.</td>
</tr>
</tbody>
</table>

| Voltage fluctuations / Flicker emissions IEC61000-3-3 | Complies | |

Warning: 1. The device should not be used adjacent to or stacked with other equipment. If adjacent or stacked use is necessary, the device should be observed to verify normal operation in the configuration in which it will be used.

2. Use of accessories, transducers and cables other than those specified or provided by the manufacturer of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation.

3. Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the Compressor, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.

Guidance and Manufacturer’s Declaration - Electromagnetic Immunity:

This device is intended for use in the electromagnetic environment specified below. The user of this device should make sure it is used in such an environment.

<table>
<thead>
<tr>
<th>Immunity Test</th>
<th>Compliance</th>
<th>Environment-Guidance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrostatic Discharge (ESD) IEC61000-4-2</td>
<td>8kV contact ±1kV air</td>
<td>±8kV ±15kV air</td>
</tr>
<tr>
<td>Compliance</td>
<td>IEC60601 test level</td>
<td>±8kV ±15kV air</td>
</tr>
<tr>
<td>Immunity-Guidance</td>
<td></td>
<td>Groups 1, 2, 3, 4, 5</td>
</tr>
</tbody>
</table>

Fluorescent and neon lighting are covered with a fluorescent lamp.

Wood, concrete or similar surfaces may cause RF radiation to penetrate them.

Environmental-Guidance: This device is suitable for use in all environments, including domestic environments and those directly connected to the public low-voltage power supply network.
<table>
<thead>
<tr>
<th>Test Type</th>
<th>IEC Standard</th>
<th>Voltage Levels</th>
<th>Mains Power Quality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrical fast transient/burst</td>
<td>IEC61000-4-4</td>
<td>±2kV for power supply line, ±1kV for input/output line</td>
<td>Mains power quality should be that of a typical commercial or hospital environment.</td>
</tr>
<tr>
<td>Surge</td>
<td>IEC61000-4-5</td>
<td>±1 kV line(s) to line(s), ±2 kV line(s) to earth</td>
<td>Mains power quality should be that of a typical commercial or hospital environment.</td>
</tr>
<tr>
<td>Voltage dips, short interruptions and voltage variations on power supply input lines</td>
<td>IEC61000-4-11</td>
<td></td>
<td>Mains power quality should be that of a typical commercial or hospital environment. If the user of this device requires continued operation during power mains interruptions, it is recommended that the device be powered from an uninterruptible power supply or a battery.</td>
</tr>
<tr>
<td>Power frequency (50/60Hz) magnetic field</td>
<td>IEC61000-4-8</td>
<td>30 A/m</td>
<td>Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.</td>
</tr>
</tbody>
</table>

NOTE: $U_t$ is the AC mains voltage prior to the application of the test level.
Recommended separation distances between portable and mobile RF communications equipment and this device:

This device is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of this device can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and this device as recommended below, according to the maximum output power of the communications equipment.

Guidance and Manufacturer’s Declaration - Electromagnetic Immunity:

This device is intended for use in the electromagnetic environment specified below. The user of this device should make sure it is used in such an environment.

<table>
<thead>
<tr>
<th>Frequency Range</th>
<th>Immunity Test</th>
<th>IEC600-4-6 test level</th>
<th>Compliance</th>
<th>Electromagnetic Environment - Guidance</th>
</tr>
</thead>
<tbody>
<tr>
<td>150 kHz to 80 MHz, 80 MHz to 800 MHz, 800 MHz to 2,7GHz</td>
<td>Conducted RF IEC 61000-4-6</td>
<td>3Vrms 150 kHz to 80 MHz, 8V/m 80 kHz to 80 MHz, 80% AM at 1kHz</td>
<td>3Vrms 150 kHz to 80 MHz</td>
<td>d = 0.6*sqrt(P/7)</td>
</tr>
<tr>
<td>0.1 MHz to 80 MHz</td>
<td>0.1 MHz to 80 MHz</td>
<td>0.1 MHz to 80 MHz</td>
<td>0.01</td>
<td>0.1</td>
</tr>
<tr>
<td>1 MHz to 80 MHz</td>
<td>1 MHz to 80 MHz</td>
<td>1 MHz to 80 MHz</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>10 MHz to 80 MHz</td>
<td>10 MHz to 80 MHz</td>
<td>10 MHz to 80 MHz</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>100 MHz to 800 MHz</td>
<td>100 MHz to 800 MHz</td>
<td>100 MHz to 800 MHz</td>
<td>100</td>
<td>10</td>
</tr>
</tbody>
</table>

For transmitters rated at a maximum output power not listed above, the recommended separation distance d in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.

Note 1: At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.

Note 2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects, and people.

Recommended separation distances between portable and mobile RF communications equipment and this device:

Recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance is the minimum distance calculated from the equation applicable to the frequency of the transmitter.

Field strengths from fixed RF transmitters, as determined by an electromagnetics site survey, should be less than the compliance level in each frequency range.

Interference may occur in the vicinity of equipment marked with the following symbol:

NOTE: Consult distributor(s) or EU representative(s) for additional technical documents.