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1. Introduction

Thank you for your purchase of the 3B Luna™ CPAP / Auto-CPAP System. This User Manual will introduce you to your device. Please read it carefully. If, during use, you experience any difficulties or problems, please contact your homecare provider or physician.

2. Symbols

2.1 Control Buttons

- Ramp Button
- Mute Button
- Knob

2.2 Device Symbols

- Operating Instructions
- Type BF Applied Part (mask)
- Class II (Double Insulated)
- AC Power
- DC Power

IP22

≥ 12.5 mm Diameter, Dripping (15° tilted)

- Hot Surface
- Serial Number of the Product
- Manufacturer
- European CE Declaration of Conformity

- SD Card
- Water Filling Prohibited Here
- Water Inlet

- Directional Indicator for Removing the Water Inlet Cap
- Directional Indicator for Screwing the Water Inlet Cap
3. Warning, Caution and Important Tip

**WARNING!**
Indicate the possibility of injury to the user or operator.

**CAUTION!**
Indicate the possibility of damage to the device.

**IMPORTANT TIP!**
Place emphasis on an operating characteristic.

Warnings, Cautions, and Important Tips appear throughout this manual as they apply.

4. Intended Use

The 3B and BMC CPAP and Auto CPAP Systems are intended to deliver positive pressure for the treatment of Obstructive Sleep Apnea. The optional integrated humidifier is indicated for the humidification and warming of air from the flow generator. These devices are intended for single patient use by prescription in the home or hospital / institutional environment on adult patients.

**WARNINGS!**
- This device is intended for adult use only.
- This device is not intended for life support.
- The instructions in this manual are not intended to supersede established medical protocols.

**CAUTION!**
- This device is restricted to sale by or on the order of a physician.
- The device is intended for use by operators trained or experienced in similar equipment.
- The patient is an intended operator.
- Cleaning can be performed by the patient.

**IMPORTANT!**
- Read and understand the entire user manual before operating this system. If you have any questions concerning the use of this system, contact your home care provider or health care professional.
5. Contraindications

Studies have shown that the following pre-existing conditions may contraindicate the use of positive airway pressure therapy for some patients:

**Absolute Contraindications:** pneumothorax, mediastinal emphysema; cerebrospinal fluid leak, traumatic brain injury, or pneumocephalus; shock caused by a variety of conditions before treatment; active epistaxis; upper gastrointestinal bleeding before treatment; coma or impaired consciousness making the use of mask during therapy impossible; giant vocal fold polyp, etc.

**Relative Contraindications:** severe coronary heart disease complicated with left ventricular failure, acute otitis media, excessive respiratory secretions and weak cough, weak spontaneous breathing, nasal or oral tracheal intubation and tracheotomy, severe nasal congestion caused by a variety of conditions, lung bullae, and allergies to breathing masks, etc.

The following side effects may occur during treatment:
- Dryness of the mouth, nose and throat
- Abdominal bloating
- Ear or sinus discomfort
- Eye irritation
- Skin irritation due to the use of a mask
- Chest discomfort

**IMPORTANT!**
- An irregular sleep schedule, alcohol consumption, obesity, sleeping pills, or sedatives may aggravate your symptoms.
- Please use the mask which meets ISO17510-2:2009.

**CAUTION!**
- Contact your health care professional if symptoms of sleep apnea recur. Contact your health care professional if you have any questions concerning your therapy.
6. Specifications

**Device Size**
Dimensions: 170 mm × 196 mm × 118 mm, or 290 mm × 196 mm × 134 mm (with the humidifier)
Weight: 1.5 kg, or 2.5 kg (with the humidifier)

**Product Use, Transport and Storage**

<table>
<thead>
<tr>
<th>Operation</th>
<th>Transport and Storage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature:</td>
<td>-25°C to 70°C (-13°F to 158°F)</td>
</tr>
<tr>
<td>Humidity: 15% to 93% Non-condensing</td>
<td>up to 93% Non-condensing</td>
</tr>
<tr>
<td>Atmospheric Pressure: 760 ~ 1060 hPa</td>
<td>760 ~ 1060 hPa</td>
</tr>
</tbody>
</table>

**Mode of Operation**
Continuous

**Work Mode**
For E-20C system: CPAP
For E-20A system: CPAP, Auto

**SD Card**
With a capacity ≥ 2 G, the SD card can record patient data and fault information. Furthermore, the language pack stored on the SD card enables you to change the language of the device.

**AC Power Consumption**
100 ~ 240 V AC, 50 / 60 Hz, 2.0 A max

**Type of Protection Against Electric Shock**
Class II Equipment

**Degree of Protection Against Electric Shock**
Type BF Applied Part

**Degree of Protection Against Ingress of Water**
IP22

**Pressure Range**
4 to 20 hPa (in 0.5 hPa increments), ≤ 30 hPa under single fault conditions.

**Pressure Display Accuracy**
±(0.5 hPa + 4%)

**Pressure Stability**
4 to 20 hPa (±1 hPa)

**Ramp**
The ramp time ranges from 0 to 60 minutes
**Sound Pressure Level**

< 30 dB, when the device is working at the pressure of 10 hPa.

**Sound Power Level**

< 38 dB, when the device is working at the pressure of 10 hPa.

**Maximum Flow**

<table>
<thead>
<tr>
<th>Test Pressure (hPa)</th>
<th>4</th>
<th>9</th>
<th>15</th>
<th>20</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average Flow at the Patient Connection Port (L/min)</td>
<td>80</td>
<td>92</td>
<td>91</td>
<td>96</td>
</tr>
</tbody>
</table>

**Air Hose**

Length: 6 ft. (1.83 m)

**The Form and the Dimensions of the Patient Connection Port**

The 22 mm conical air outlet complies with ISO 5356-1

7. **Available Therapies**

The device delivers the following therapies:

**CPAP** – Delivers Continuous Positive Airway Pressure; CPAP maintains a constant level of pressure throughout the breathing cycle. If your health care professional has prescribed ramp for you, you can press the **Ramp Button** ⬇️ to reduce the pressure and then gradually increase the pressure to the therapeutic pressure setting so that you can fall asleep more comfortably.

**Auto** – Delivers CPAP therapy and provides an air pressure no less than the prescribed one based on the patient’s needs.
8. Glossary

**Apnea**
A condition marked by the cessation of spontaneous breathing.

**Auto-CPAP**
Adjust CPAP pressure automatically to improve patient comfort based on monitoring of apnea and snoring events.

**Auto Off**
When this feature is enabled, the device automatically discontinues therapy whenever the mask is removed.

**Auto On**
When this feature is enabled, the device automatically initiates therapy when you breathe into the mask.

**CPAP**
Continuous Positive Airway Pressure.

**iCode**
A feature that is intended to give access to compliance and therapy management information. The “iCode” consists of six separate codes displayed in the Patient Menu. iCode I displays sequences of characters, and iCode II displays two-dimensional codes.

**LPM**
Liters Per Minute.

**OSA**
Obstructive Sleep Apnea.

**Patient Menu**
The display mode in which you can change patient-adjustable device settings, such as the starting pressure for the Ramp feature.

**Ramp**
A feature that may increase patient comfort when therapy is started. It can reduce pressure and then gradually increase the pressure to the prescription setting so the patient can fall asleep more comfortably.

**Reslex**
A therapy feature that is enabled by your home care provider to provide pressure relief during exhalation.

**Standby State**
The state of the device when power is applied but the airflow is turned off.
9. Model

<table>
<thead>
<tr>
<th>Model</th>
<th>Product Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-20C-H-O</td>
<td>Main device (2.4-inch LCD), Heated Humidifier (H60)</td>
</tr>
<tr>
<td></td>
<td>CPAP</td>
</tr>
<tr>
<td></td>
<td>Size (mm): 290 (W) × 196 (D) × 134 (H)</td>
</tr>
<tr>
<td></td>
<td>Weight (kg): 2.5</td>
</tr>
<tr>
<td>E-20A-H-O</td>
<td>Main device (3.5-inch LCD), Heated Humidifier (H60)</td>
</tr>
<tr>
<td></td>
<td>CPAP Auto</td>
</tr>
<tr>
<td></td>
<td>Size (mm): 290 (W) × 196 (D) × 134 (H)</td>
</tr>
<tr>
<td></td>
<td>Weight (kg): 2.5</td>
</tr>
</tbody>
</table>

10. Package Contents

After unpacking the system, make sure you have everything shown here:

<table>
<thead>
<tr>
<th>No.</th>
<th>Articles</th>
<th>Qty.</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Main Device</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Heated Humidifier</td>
<td>1</td>
<td>Optional</td>
</tr>
<tr>
<td>3</td>
<td>Shield</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Air Filter</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Power Adapter</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Power Cord</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>SD Card</td>
<td>1</td>
<td>Optional</td>
</tr>
<tr>
<td>8</td>
<td>Carrying Case</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>User Manual</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Quick Operation Manual</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

All parts and accessories are not made with natural rubber latex.
The expected service life of the main device is 5 years.

**IMPORTANT!**
- If any of the above parts are missing, contact your home care provider.
- Contact your home care provider for additional information on the available accessories of this device. When using optional accessories, always follow the instructions enclosed with the accessories.

**WARNING!**
- The use of inappropriate masks and accessories may affect the performance of the device and impair the effectiveness of therapy.
## 11. System Features

![Diagram of System Features](image)

<table>
<thead>
<tr>
<th>Name</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Humidifier Indicator</td>
<td>Indicate the humidity level. There are five levels in total. The number of blue indicator lights that light up is directly proportional to the humidity level. If none of the indicator lights light up, it means the humidifier is turned off.</td>
</tr>
<tr>
<td>Mute Button</td>
<td>Press this button to mute the alert. However, if the problem causing the alert is not solved, the alert will sound again two minutes later.</td>
</tr>
<tr>
<td>Knob</td>
<td>Start treatment and adjust device settings.</td>
</tr>
<tr>
<td>Ramp Button</td>
<td>Enable the Ramp feature.</td>
</tr>
<tr>
<td>Display Screen</td>
<td>Display menus for operation, messages, monitoring data, etc.</td>
</tr>
<tr>
<td>Power Indicator</td>
<td>Indicate the power supply status with the green indicator light.</td>
</tr>
<tr>
<td>Air Outlet</td>
<td>Deliver pressurized air; connected to the air hose or the air inlet of the humidifier</td>
</tr>
<tr>
<td>Humidifier Connector</td>
<td>Provide power to the humidifier which is connected to the main device.</td>
</tr>
<tr>
<td>Shield</td>
<td>Connect the humidifier to the main device after this shield is removed.</td>
</tr>
</tbody>
</table>
12. First Time Setup

12.1 Placing the Device

Place the device on a firm, flat surface.

**WARNINGS!**

- If the device has been dropped or mishandled, if the enclosure is broken, or if water has entered the enclosure, disconnect the power cord and discontinue use. Contact your home care provider immediately.
- If the room temperature is warmer than 95°F (35°C), the airflow produced by the device may exceed 109.4°F (43°C). The room temperature must be kept below 95°F (35°C) while the patient uses the device.

**CAUTIONS!**

- If the device has been exposed to either very hot or very cold temperatures, allow it to adjust to room temperature (approximately 2 hours) before beginning setup.
- Make sure the device is away from any heating or cooling equipment (e.g., forced air vents, radiators, air conditioners).
- The device is not suitable for use in high humidity environments. Make sure that no water enters the device.
- Make sure that bedding, curtains, or other objects (such as pests) are not blocking or entering the filter or vents of the device.
- Keep pets or children away from the device.
- To avoid explosion, this device must not be used in the presence of flammable gases (e.g. anesthetics).
• Tobacco smoke may cause tar build-up within the device, leading to the malfunctioning of the device.
• Air must flow freely around the device for it to work properly.

12.2 Installing the Air Filter and Filter Cap

(1) Attach the air filter to the filter cap, as shown in Fig. 12-1.

![Air Filter and Filter Cap](image)

Fig. 12-1

(2) Install the filter cap containing the air filter to the main device, as shown in Fig. 12-2.

![Main Device with Filter Cap](image)

Fig. 12-2

**CAUTION!**
• The air filter must be in place when the device is operating.
• Installing the air filter and filter cap, device must be unplugged.

12.3 Connecting to Power

(1) Insert the plug of the power adapter into the DC Inlet on the back of the device;
(2) Connect the power cord to the power adapter;
(3) Plug the other end of the power cord into the power outlet.

![Power Connection Diagram](image)

Fig. 12-3
WARNINGS!
• The device is powered on for use when the power cord and power adapter is connected. The Knob 🔄 turns the blower On / Off.
• Use of the device at an AC voltage beyond the stated range (see Section 6 “AC Power Consumption”) may damage the device or cause device failure.

CAUTION!
• Inspect the power cord often for any signs of damage. Replace a damaged cord immediately.

IMPORTANT!
• After interruption and restoration of the power supply, the device will restore its pre-interruption working status automatically.
• To remove AC power, disconnect the power cord from the power outlet.

12.4 Assembling the Air hose and Mask

(1) Connect one end of the air hose to the air outlet of the main device, as shown in Fig. 12-4. If the main device is used with a humidifier, connect one end of the air hose to the air outlet of the humidifier, as shown in Fig. 12-5.

(2) Connect the other end of the air hose to the mask according to the user manual for the mask. Wear the mask.

WARNINGS!
• If you are using a mask with a built-in exhalation port, connect the mask’s connector to the air hose.
• If you are using a mask with a separate exhalation port, connect the air hose to the exhalation port. Position the exhalation port so that the vented air is blowing away from your face. Connect the mask’s connector to the exhalation port.
• If you are using a full-face mask (a mask covering both your mouth and nose), the mask must be equipped with a safety (entrainment) valve.
• In order to minimize the risk of CO₂ rebreathing, the patient should observe the following instructions:
  - Do not wear the mask for more than a few minutes while the device is not operating.
  - Use only masks with vent holes. Do not block or try to seal the vent holes in the exhalation port.

12.5 Using Oxygen with the Device

Oxygen may be added at the mask connection. Please observe the instructions listed below when using oxygen with the device.

WARNINGS!
• Connect the oxygen air hose to the oxygen inlet of the mask.
• The oxygen supply must comply with the local regulations for medical oxygen.
• Turn on the device before turning on the oxygen. Turn off the oxygen before turning off the device. Explanation of Warning: When the device is turned off, but the oxygen flow still exists, oxygen may accumulate within the device's enclosure and pose a fire hazard. Turning off the oxygen before turning off the device will prevent oxygen accumulation in the device and reduce the risk of fire. This warning applies to most CPAP devices.
• Oxygen supports combustion. Keep the device and the oxygen container away from heat, open flames, any oily substances, or other sources of ignition. DO NOT smoke in the area near E-20C / E-20A or the oxygen container.
• Sources of oxygen should be located more than 1 m from the device.

12.6 Inserting the SD Card

Insert the SD card into the SD Card Slot, as shown in Fig. 12-6.

If the SD card is inserted correctly, a symbol indicating correct insertion will appear in the Main Interface on the screen of the device, as shown in Fig. 12-7.
If the SD card is inserted incorrectly or not inserted, a symbol indicating incorrect insertion or no SD card present will appear in the Main Interface on the screen of the device, as shown in Fig. 12-8.

CAUTION!
- To avoid data loss or any damage to the SD card, the SD card can only be removed after the main device stops delivering air.

12.7 Using the H60 Heated Humidifier

The H60 Heated Humidifier is available from your home care provider. The humidifier may reduce nasal dryness and irritation by adding moisture (and heat if applicable) to the airflow. For detailed information about the heated humidifier, please see the user manual for the heated humidifier.

12.8 Starting Treatment

Connect the device to a power outlet, press the Knob 🔄, and the device will start delivering air.

WARNINGS!
- Be sure to follow your physician’s instructions on adjusting the settings! To order any accessories not included with this device, contact your equipment supplier.
- DO NOT connect any ancillary equipment to this device unless recommended by your homecare provider or your physician. If you suffer from chest discomfort,
shortness of breath, stomach bloating, or severe headache when using the device, contact your physician or qualified medical personnel immediately.

13. Routine Use

13.1 Connecting the Air hose

Connect the power cord, power adapter, and air hose properly according to the instructions in the First Time Setup (Chapter 12). Connect the mask and headgear according to the user manual for the mask.

CAUTION!
• Before each use, examine the air hose for any damage or debris. If necessary, clean the air hose to remove the debris. Replace any damaged air hose. Make sure that the mask does not leak.

13.2 Adjusting the Air hose

Lie down on your bed, and adjust the air hose so it is free to move if you turn during sleep. Adjust the mask and headgear until you have a comfortable fit and until there are no airflow leaks into your eyes.

13.3 Turning on the Airflow

Press the Knob to turn on the airflow. The screen will display treatment pressure and other information.

13.4 Heating the Water in the Humidifier

Pay attention to the humidifier indicator lights when using the device with a humidifier. The indicator lights indicate the On / Off state of the humidifier. It is off when all indicator lights go out.

CAUTION!
• Observe the water level of the water chamber before using the humidifier. Make sure there is sufficient water in the water chamber, and avoid heating the humidifier with an empty water chamber.

13.5 Using the Ramp Button

Every time the Ramp Button is pressed, the pressure will drop to the initial pressure, and then gradually rise to the prescribed treatment pressure according to the preset ramp time, so as to make the patient fall asleep easily. The screen displays a real-time countdown of the remaining ramp time in minutes.

CAUTIONS!
• You can press the Ramp Button as often as you wish during sleep.
• The ramp feature is not prescribed for all users.

13.6 Turning the Device Off

Take off the mask and headgear, press and hold the Knob ⏳ for two seconds, and the device will stop delivering air. Disconnect the power cord from the power outlet to power off the device.

CAUTIONS!
• Do not position the device so that it is difficult to operate the disconnection device.
• To isolate the device from the supply mains, disconnect the plug.

14. Navigating the Patient Menu

14.1 Steps to Navigating the Patient Menu

14.1.1 Accessing the Main Interface

Connect the power cord and power adapter properly. The screen displays the Main Interface shown in Fig. 14-1 (applies to E-20A-H-O), or the Main Interface shown in Fig. 14-2 (applies to E-20C-H-O).

14.1.2 Bringing up the Initial Setup Interface

From the Main Interface shown in Fig. 14-1 or Fig. 14-2, or when the device delivers air, press and hold the Ramp Button ⬇️ for three seconds. The screen displays the Initial Setup Interface of the Patient Menu, as shown in Fig. 14-3.
The first icon on the left side of the screen indicates the Main Interface, and the second icon indicates the Initial Setup Interface. As you turn the Knob, the cursor switches between the two icons, and the interface displayed on the screen changes accordingly.

**14.1.3 Accessing the Setup Interface**

When the cursor is on the icon, the screen displays the Setup Interface. Access the Setup Interface by pressing the Knob. The first option on the Setup Interface is then displayed in blue, as shown in Fig. 14-4.

**14.1.4 Selecting Options**

As you turn the Knob clockwise, the cursor moves downwards from one option to another. As you turn it counterclockwise, the cursor moves upwards. When the cursor is on a certain option, press the Knob, and the option is then displayed in yellow, meaning that the option can now be adjusted, as shown by the Humidifier option in Fig. 14-5.

**14.1.5 Adjusting Options**

Adjust the option by turning the Knob. As shown in Fig. 14-5, the Humidifier option is selected. As you turn the Knob clockwise, the numbering increases, indicating a higher humidity level. As you turn the Knob counterclockwise, the numbering
decreases, indicating a lower humidity level. At this moment, the **Humidifier** option is still displayed in yellow, as shown in Fig. 14-6.

![Fig. 14-6](image)

### 14.1.6 Confirming Adjustments

Confirm your adjustment to an option by pressing the **Knob**. The option is then displayed in blue, as shown in Fig. 14-7.

![Fig. 14-7](image)

### 14.1.7 Turning Pages

When the cursor is on **Mask Type**, the last option shown in Fig. 14-7, the remaining options will appear on a new page if you continue to turn the **Knob** clockwise, as shown in Fig. 14-8.

![Fig. 14-8](image)

Note: 🔄 are page turning symbols.

### 14.1.8 Exiting the Patient Menu

(1) Returning to the Initial Setup Interface

Move the cursor to the **Back** option by turning the **Knob**, as shown in Fig. 14-9.
Press the Knob 🔄, the cursor jumps to the second icon 🔄 on the left side of the screen. The screen displays the Initial Setup Interface, as shown in Fig. 14-10.

(2) Returning to the Main Interface

Move the cursor to the Home option by turning the Knob 🔄, as shown in Fig. 14-11.

Press the Knob 🔄 to exit the Patient Menu. The screen will display the Main Interface shown in Fig. 14-1 or Fig. 14-2.
### 14.2 Options of the Patient Menu and Corresponding Descriptions

<table>
<thead>
<tr>
<th>Option</th>
<th>Range</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Humidifier</td>
<td>Off, 1 ~ 5</td>
<td>There are five humidity levels available. As the numbering increases, the humidity rises accordingly. “Off” means the humidifier is turned off. The default setting is “2”</td>
</tr>
<tr>
<td>Reslex</td>
<td>Off, 1 ~ 3</td>
<td>This feature enables the device to automatically reduce the treatment pressure when the patient exhales, so as to make the user more comfortable. The higher the numbering is, the more pressure the device reduces. “Off” means this feature is disabled. The default setting is “Off”</td>
</tr>
<tr>
<td>Ramp Time</td>
<td>0 - Max Ramp</td>
<td>In order to increase comfort and help the patient fall asleep easily, the pressure can increase gradually, when the Ramp feature is enabled. The ramp time during which the initial pressure rises to the prescribed treatment pressure can be adjusted. As you turn the <strong>Knob</strong> to the nearest point, the numbering increases or decreases by five minutes. The default setting is “10 minutes.” The screen displays a real-time countdown of the remaining ramp time in minutes</td>
</tr>
<tr>
<td>Delay</td>
<td>On / Off</td>
<td>When the humidifier is on, this feature allows the airflow to continue for about 15 minutes at a low pressure (about 2 hPa) after you press the <strong>Knob</strong> to discontinue treatment. This will blow off the vapor left in the humidifier to avoid any damage to the device. When this feature is set to “Off,” which means it is disabled, the airflow stops delivering air instantly after you press the <strong>Knob</strong>. The default setting is “Off”</td>
</tr>
<tr>
<td>Date</td>
<td>2000-01-01 – 2099-12-31</td>
<td>Setting date by adjusting this option</td>
</tr>
<tr>
<td>Time</td>
<td>——</td>
<td>Setting time by adjusting this option</td>
</tr>
<tr>
<td>Brightness</td>
<td>High / Low</td>
<td>Setting screen brightness by adjusting this option. The default setting is “High”</td>
</tr>
<tr>
<td>Mask Type</td>
<td>Full Face; Nasal; Pillow; Other</td>
<td>There are three mask types available, namely Full Face (full-face mask), Nasal (nasal mask), and Pillow (nasal pillow mask). The default mask type is “Nasal,” but the patient can choose other suitable masks as well. When selecting masks other than the above three types of masks, the patient can identify the masks as Other</td>
</tr>
<tr>
<td>Run Time</td>
<td>0 ~ 50000 h</td>
<td>Run Time displays how long has the device been used by the user. The run time can be erased</td>
</tr>
<tr>
<td>iCode</td>
<td>iCode I, iCode II</td>
<td>iCode provides access to the patient’s compliance data during a recent time period. The iCode I mode displays data in sequences of characters, and the iCode II mode displays data in two-dimensional codes</td>
</tr>
</tbody>
</table>
## 15. Alert

<table>
<thead>
<tr>
<th>Alert Message</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Failure!!!</td>
<td>An audible alert will sound if the device is accidentally disconnected from power when it is delivering air. Note: (1) The alert will not sound if power failure occurs when the device is in standby state. (2) No alert message on the screen during a power failure</td>
</tr>
<tr>
<td>Device Fault!!!</td>
<td>An audible alert will sound if no airflow comes out of the machine; the screen will display “Device Fault!!”</td>
</tr>
<tr>
<td>Leak!!</td>
<td>When the airflow is on, an audible alert will sound if the air leak rate exceeds 150 L/min; the screen will display “Leak!!”</td>
</tr>
<tr>
<td>Low Input Voltage!!</td>
<td>If you use a battery rather than an external power adapter to power the device, an audible alert will sound when the battery is low; the screen will display “Low Input Voltage!!”</td>
</tr>
<tr>
<td>Humidifier Failure!</td>
<td>When humidifier is applied, an audible alert will sound when the humidifier fails to work; the screen will display “Humidifier Failure!!”</td>
</tr>
<tr>
<td>Please Change Filter!</td>
<td>When the Filter Alert feature is enabled, an audible alert will sound if an air filter has been used for more than six months; the screen will display “Please Change Filter!”</td>
</tr>
<tr>
<td>SD Card Full!</td>
<td>The screen will display “SD Card Full!” if the SD card has reached its maximum capacity</td>
</tr>
<tr>
<td>Reinsert SD card!</td>
<td>The screen will display “Reinsert SD card!” if the SD card fails to work</td>
</tr>
</tbody>
</table>
16. Cleaning

WARNINGS!
• Regular cleaning of the device and its accessories is very important for the prevention of respiratory infections.
• To avoid electric shock, always unplug the device before cleaning.
• Use washing liquid that is nontoxic to humans and does not cause allergies in humans.
• Follow the manufacturer's instructions on cleaning the mask and air hose and on determining the frequency of cleaning.
• Before cleaning, check whether the device has been disconnected from the power supply, whether the power cord has been unplugged, and whether the water chamber of the humidifier has cooled down. Make sure the heater plate has cooled down to room temperature, so you do not get burned.
• The device shall not be serviced or maintained while in use with a patient.
• Sterilization of this device and its components other than recommended is not permitted.

CAUTIONS!
• Overheating of the materials could lead to early fatigue of these materials.
• Do not use solutions containing chlorinated lime, chlorine, or aromatic to clean the device and its accessories. Liquid soap containing the humidifying agent or antimicrobials should not be used either. These solutions may harden cleaned materials or reduce their life.
• Do not clean or dry the device and its accessories when the temperature is higher than 80°C (176°F). High temperatures could reduce product life.
• Do not immerse the device in any fluids.

16.1 Cleaning the Mask and Headgear
For details, refer to the cleaning instructions in the user manual for the mask.

16.2 Cleaning the Water Chamber of the Humidifier
For details, refer to the cleaning instructions in the user manual for the humidifier.

16.3 Cleaning the Enclosure
Wipe the surface of the device with a soft, slightly damp cloth.

CAUTION!
• The device can only be used after the enclosure is dry, so that no moisture enters the device.
16.4 Cleaning the Air hose

(1) Remove the air hose from the device and mask before cleaning.
(2) Clean the air hose in warm water which contains washing liquid, and then rinse it in clean water thoroughly.
(3) After cleaning, air-dry the air hose in a cool, well-ventilated area, and avoid direct sunlight. It takes approximately 30 minutes to completely air-dry the air hose. Check whether the air hose is completely dry before re-use.

16.5 Replacing the Air Filter

(1) Open the air filter cap to remove the air filter.
(2) Put the new air filter in the filter area, and then place the filter cap back properly.

CAUTIONS!

• To avoid material damage, do not place the spare air filter in direct sunlight, humid environments, or temperatures below the freezing point. The air filter should be replaced every 6 months (it may be replaced more frequently based on actual sanitary conditions).
• Operating the device with a dirty air filter may stop it from working properly and may cause damage to the device.
• Replacing the air filter and filter cap, device must be unplugged.
17. Traveling with the Device

CAUTIONS!
• Empty the water chamber of the humidifier before packing the device for your trip; in order to prevent any remaining water from entering the device.
• Using the device at an incorrect elevation setting could result in airflow pressures higher than the prescribed setting. Always verify the elevation setting when traveling or relocating.
• If the device is used when the atmospheric pressure is out of the stated range (See Section 6), the accuracy of the leakage alert will be affected.

(1) Use the 3B / BMC carrying case to carry the device and accessories along with you. Do not put them in your checked baggage.
(2) This device operates on power supplies of 100 ~ 240 V and 50 / 60 Hz, and is suitable for use in any country in the world. No special adjustment is necessary, but you will need to find out the types of the power sockets in your destination. Bring, if necessary, a power socket adaptor which can be bought in electronics stores.
(3) Remember to bring a spare air filter and the emergency documents (filled and signed by your physician) about this device. If you plan to travel by air, remember to bring the multi-language emergency documents about respiratory therapy, in case that the border and customs officers in your destination country inspect the device. With the emergency documents, you can prove to them that it is a medical device.
(4) Security Stations: For convenience at security stations, there is a note on the bottom of the device stating that it is medical equipment. It may be helpful to bring this manual along with you to help security personnel understand the device.
18. Reordering
Contact your home care provider to order accessories or replacement filters. The device does not require routine servicing.

WARNINGS!
• If you notice any unexplained changes in the performance of the device, if it is making unusual or harsh sounds, if it has been dropped or mishandled, if the enclosure is broken, or if water has entered the enclosure, discontinue use. Contact your home care provider.
• If the device malfunctions, contact your home care provider immediately. Never attempt to open the enclosure of the device. Repairs and adjustments must be performed by 3B-authorized service personnel only. Unauthorized service could cause injury, invalidate the warranty, or result in costly damage.
• If necessary, contact your local authorized dealer or 3B Medical, Inc. for technical support and documents.

19. Technical Support
Please contact 3B directly if you need the circuit diagram of the device and the list of components for certain purposes such as maintenance or connection to other equipment. 3B will provide the circuit diagram and/or other technical documents in whole or in part according to your needs.

20. Disposal
When the device reaches the end of its service life, dispose of the device and packaging in accordance with local laws and regulations.
21. Troubleshooting
The table below lists common problems you may have with the device and possible solutions to those problems. If none of the corrective actions solve the problem, contact your home care provider.

21.1 Common Problems in Patients and Corresponding Solutions

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Cause</th>
<th>Solution(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dry, cold, runny, and blocked nose; having a cold</td>
<td>The nose reacts to the airflow and cold. Due to fast airflow, the air becomes cold, leading to nasal mucosa irritation and subsequent dryness and swelling</td>
<td>Increase the humidity setting of the humidifier. Contact your physician, and continue treatment unless the physician suggests the opposite</td>
</tr>
<tr>
<td>Dry mouth and throat</td>
<td>Probably because the patient sleeps with his or her mouth open, and the pressurized air goes out via the mouth, leading to nasal and throat dryness</td>
<td>Use a chin strap to prevent the mouth from opening during sleep, or use a full-face mask. Contact your physician for details</td>
</tr>
<tr>
<td>Eye irritation</td>
<td>The mask size or model may not be correct, or the mask is not positioned correctly, thereby leading to air leakage</td>
<td>Narrow the distance between the forehead support of the mask and the forehead. Note that adjusting the mask too tight may leave markings on the patient’s face. Add additional filling to the mask so it does not leak. Contact your equipment supplier for an appropriate mask. Add additional filling to the mask if necessary</td>
</tr>
<tr>
<td></td>
<td>Mask cushion (the soft part of the mask) hardens</td>
<td>Replace the mask or mask cushion</td>
</tr>
<tr>
<td>Facial reddening</td>
<td>The mask is too tight</td>
<td>Loosen the headgear</td>
</tr>
<tr>
<td></td>
<td>The distance between the forehead support of the mask and the forehead is not correct</td>
<td>Try a different distance. The angle and size of the forehead support differ according to the type of masks</td>
</tr>
<tr>
<td></td>
<td>Wrong mask size</td>
<td>Contract your equipment supplier for a correct-size mask</td>
</tr>
<tr>
<td>Symptom</td>
<td>Description</td>
<td>Solution</td>
</tr>
<tr>
<td>----------------------------------------------</td>
<td>------------------------------------------------------------------------------</td>
<td>--------------------------------------------------------------------------</td>
</tr>
<tr>
<td>The patient is allergic to the materials of the mask</td>
<td>Contact your physician and equipment supplier. Use a mask which is not made with natural rubber latex. Place a lining between the skin and mask.</td>
<td></td>
</tr>
<tr>
<td>Water in mask</td>
<td>When the humidifier is used, the humidified air tends to condense in the cold air hose and mask if the room temperature is low</td>
<td>Turn the humidity setting down, or raise the room temperature. Place the air hose under the quilt, or use the air hose cover. Hang the air hose loosely, and the lowest part of the air hose should be lower than the patient's head.</td>
</tr>
<tr>
<td>Nasal, sinus, or ear pain</td>
<td>Sinus or middle ear inflammation                                             Contact your physician immediately.</td>
<td></td>
</tr>
<tr>
<td>Discomfort due to inability to adapt to the treatment pressure</td>
<td>The patient will feel uncomfortable when the treatment pressure is higher than 13 hPa. However, the treatment pressure is determined according to the patient's conditions, and cannot treat sleep apnea if the treatment pressure is set too low</td>
<td>It takes a maximum of four weeks to adapt to pressurized air. Relax and breathe through the nose. If the problem still exists, contact your physician.</td>
</tr>
<tr>
<td>Obstructive sleep apnea symptoms recur</td>
<td>Probably because the patient sleeps with his or her mouth open, and the pressurized air goes out via the mouth, leading to blockage in the respiratory tract</td>
<td>Use a chin strap to prevent the mouth from opening during sleep, or use a full-face mask. Contact your physician for details.</td>
</tr>
<tr>
<td>The device is too noisy</td>
<td>The air hose is not connected properly                                       Reconnect the air hose properly.</td>
<td></td>
</tr>
<tr>
<td>Air delivered from the device is abnormally hot</td>
<td>The air inlet of the device may be partially blocked, leading to insufficient airflow into the device</td>
<td>Replace the air filter (see 16.5 Replacing the Air Filter), and clean the air inlet. Place the device in an area where air flows freely, and make sure the device is at least 20 centimeters away from the wall, curtain, or other things.</td>
</tr>
</tbody>
</table>
## 21.2 Common Problems in the Device and Corresponding Solutions

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Cause</th>
<th>Solution(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>The device does not work when it is turned on</td>
<td>The Auto On / Off feature is enabled</td>
<td>Take a few deep breaths with the mask on, and the device will start automatically</td>
</tr>
<tr>
<td></td>
<td>Power is not connected properly</td>
<td>Ensure that the power cord, power adapter, and the device are connected properly</td>
</tr>
<tr>
<td></td>
<td>There is no voltage</td>
<td>Check whether a power outage occurs by turning on a light or other means. If you are sure the fuse in the device is broken, contact your equipment supplier for repair</td>
</tr>
<tr>
<td></td>
<td>Cannot find any cause</td>
<td>Contact your equipment supplier</td>
</tr>
<tr>
<td>The device is working, but the pressure inside the mask differs from</td>
<td>The air hose is not connected properly</td>
<td>Reconnect the air hose properly</td>
</tr>
<tr>
<td>the set treatment pressure</td>
<td>There may be holes in the mask or pressure sensing air hose</td>
<td>Contact your equipment supplier</td>
</tr>
<tr>
<td></td>
<td>It is a faulty device</td>
<td>Contact your equipment supplier</td>
</tr>
<tr>
<td>The device produces very low pressures</td>
<td>The air inlet of the device may be blocked</td>
<td>Replace the air filter (see 16.5 Replacing the Air Filter), and clean the air inlet. Make sure the air inlet is unblocked</td>
</tr>
<tr>
<td></td>
<td>The treatment pressure has been changed accidentally</td>
<td>Contact your physician</td>
</tr>
<tr>
<td></td>
<td>When the Ramp feature is enabled, it takes some time for the initial pressure</td>
<td>If necessary, disable the Ramp feature, or set the ramp time shorter</td>
</tr>
<tr>
<td></td>
<td>to rise to the treatment pressure. This is normal</td>
<td></td>
</tr>
<tr>
<td>After the device is turned on, the screen displays intermittently, or</td>
<td>The operating system of the device needs to be readjusted or restarted</td>
<td>Unplug the power cord of the device, and re-plug it 20 seconds later</td>
</tr>
<tr>
<td>displays nothing at all</td>
<td></td>
<td></td>
</tr>
<tr>
<td>The device is in standby, and will not start</td>
<td>The operating system of the device needs to be readjusted or restarted</td>
<td>Unplug the power cord of the device, and re-plug it 20 seconds later</td>
</tr>
</tbody>
</table>
22. **EMC Requirements**

<table>
<thead>
<tr>
<th>Emissions Test</th>
<th>Compliance</th>
<th>Electromagnetic Environment - Guidance</th>
</tr>
</thead>
<tbody>
<tr>
<td>RF emissions, CISPR 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 electronic equipment</td>
</tr>
<tr>
<td>RF emissions, CISPR 11</td>
<td>Class B</td>
<td>The device is suitable for use in all establishments including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes</td>
</tr>
<tr>
<td>Harmonic emissions, IEC 61000-3-2</td>
<td>Class A</td>
<td></td>
</tr>
<tr>
<td>Voltage fluctuations / flicker emissions, IEC 61000-3-3</td>
<td>Complies</td>
<td></td>
</tr>
</tbody>
</table>
## Guidance and manufacturer's declaration - electromagnetic immunity

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

<table>
<thead>
<tr>
<th>Immunity Test</th>
<th>IEC 60601 Test Level</th>
<th>Compliance Level</th>
<th>Electromagnetic Environment - Guidance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrostatic discharge (ESD)</td>
<td>±6 kV contact</td>
<td>±6 kV contact</td>
<td>Floor should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%</td>
</tr>
<tr>
<td>IEC 61000-4-2</td>
<td>±6 kV contact</td>
<td>±6 kV contact</td>
<td></td>
</tr>
<tr>
<td>Electrical fast transient / burst</td>
<td>±2 kV for power supply lines</td>
<td>±2 kV for power supply lines</td>
<td>Mains power quality should be that of a typical home or hospital</td>
</tr>
<tr>
<td>IEC 61000-4-4</td>
<td>±1 kV for Input / output lines</td>
<td>±1 kV for Input / output lines</td>
<td></td>
</tr>
<tr>
<td>Surge</td>
<td>±1 kV differential mode</td>
<td>±1 kV differential mode</td>
<td>Mains power quality should be that of a typical home or hospital</td>
</tr>
<tr>
<td>IEC 61000-4-5</td>
<td>±2 kV common mode</td>
<td>±2 kV common mode</td>
<td></td>
</tr>
<tr>
<td>Voltage dips, short interruptions and voltage variations on power supply input lines</td>
<td>&lt; 5% $U_T$ (&gt; 95% dip in $U_T$) for 0.5 cycle</td>
<td>&lt; 5% $U_T$ (&gt; 95% dip in $U_T$) for 0.5 cycle</td>
<td>Mains power quality should be that of a typical commercial or hospital environment. If the user of the device requires continued operation during power mains interruptions, it is recommended that the device be powered from an uninterruptible power supply or from a battery</td>
</tr>
<tr>
<td>IEC 61000-4-11</td>
<td>40% $U_T$ (60% dip in $U_T$) for 5 cycles</td>
<td>40% $U_T$ (60% dip in $U_T$) for 5 cycles</td>
<td></td>
</tr>
<tr>
<td></td>
<td>70% $U_T$ (30% dip in $U_T$) for 25 cycles</td>
<td>70% $U_T$ (30% dip in $U_T$) for 25 cycles</td>
<td></td>
</tr>
<tr>
<td></td>
<td>&lt; 5% $U_T$ (&gt; 95% dip in $U_T$) for 5 s</td>
<td>&lt; 5% $U_T$ (&gt; 95% dip in $U_T$) for 5 s</td>
<td></td>
</tr>
<tr>
<td>Power frequency (50 / 60 Hz) magnetic field</td>
<td>3 A/m</td>
<td>3 A/m</td>
<td>If the pressure deviates more than is indicated in the device specifications, it may be necessary to position the device further from sources of power frequency magnetic fields. The power frequency magnetic field should be measured in the intended installation location to ensure that it is sufficiently low</td>
</tr>
<tr>
<td>IEC 61000-4-8</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: $U_T$ is the AC mains voltage prior to application of the test level.
**Guidance and manufacturer’s declaration - electromagnetic immunity**

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

<table>
<thead>
<tr>
<th>Immunity Test</th>
<th>IEC Test Level</th>
<th>Compliance Level</th>
<th>Electromagnetic Environment - Guidance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conducted RF</td>
<td>IEC 61000-4-6</td>
<td>3 Vrms</td>
<td>Portable and mobile RF communications equipment should be used no closer to any part of the device, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.</td>
</tr>
<tr>
<td>Radiated RF</td>
<td>IEC 61000-4-3</td>
<td>3 V/m</td>
<td></td>
</tr>
</tbody>
</table>

For conducted RF: 3 Vrms 800 MHz to 800 MHz

For radiated RF: 3 V/m 80 MHz to 80 MHz, 80 MHz to 2.5 GHz

*Recommended separation distance*

\[ d = 1.2 \sqrt{P} \]

\[ d = 1.2 \sqrt{P} \quad 80 \text{ MHz to } 800 \text{ MHz} \]

\[ d = 2.3 \sqrt{P} \quad 800 \text{ MHz to } 2.5 \text{ GHz} \]

Where \( P \) is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and \( d \) is the recommended separation distance in meters (m).

Field strengths from fixed RF transmitters, such as base stations for radio (cellular / cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the device is used exceeds the applicable RF compliance level above, the device should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the device.

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

Note 1: At 80 MHz and 800 MHz, the higher frequency range applied.

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

\( ^a \) Field strengths from fixed transmitters, such as base stations for radio (cellular / cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the device is used exceeds the applicable RF compliance level above, the device should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the device.

\( ^b \) Over the frequency range 150 kHz to 80 MHz, the field strengths should be less than 3 V/m.
**Recommended separation distances between portable and mobile RF communications equipment and the device**

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

<table>
<thead>
<tr>
<th>Rated maximum output of transmitter W</th>
<th>150 kHz ~ 80 MHz ( d = 1.2\sqrt{p} )</th>
<th>80 MHz ~ 800 MHz ( d = 1.2\sqrt{p} )</th>
<th>800 MHz ~ 2.5 GHz ( d = 2.3\sqrt{p} )</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.01</td>
<td>0.12</td>
<td>0.12</td>
<td>0.23</td>
</tr>
<tr>
<td>0.1</td>
<td>0.38</td>
<td>0.38</td>
<td>0.73</td>
</tr>
<tr>
<td>1</td>
<td>1.2</td>
<td>1.2</td>
<td>2.3</td>
</tr>
<tr>
<td>10</td>
<td>3.8</td>
<td>3.8</td>
<td>7.3</td>
</tr>
<tr>
<td>100</td>
<td>12</td>
<td>12</td>
<td>23</td>
</tr>
</tbody>
</table>
23. Limited Warranty

3B Medical, Inc. warrants that the Luna™ E-20 models will be free of all defects in workmanship and materials, and will perform according to specifications, for a period of two (2) years of sale from the sale of the device.

If the product fails to perform in accordance with the product specifications, 3B Medical, Inc. will repair or replace, at its option, the defective material or part. This warranty does not cover damage caused by accident, misuse, abuse, alteration and other defects not related to material or workmanship.

- 3B will issue an RMA (Return Merchandise Authorization) within 24 hours of receipt of written notification of a failed or defective unit. Failed / defective units must be returned within 30 days of the RMA date.
- This warranty coverage is applicable to all 3B / BMC CPAP, Auto-CPAP and Auto Bi-Level devices.
- The warranty policy does not cover any damages caused as a result of alteration, intentional damage, modification, or unauthorized repair of the device.
- 3B reserves the right to amend this policy at any time.

To exercise the rights under this warranty, contact your local authorized dealer or:

3B Medical, Inc.
21301 US Highway 27 N
Lake Wales, FL 33859
T: (863) 226-6285
F: (863) 226-6284

For additional information, please visit our Patient Portal at:
www.3bproducts.com
icodeconnect.com – Web-based cloud for report generation and storage
www.bmc-icode.com – Website for iCode data report retrieval

<table>
<thead>
<tr>
<th>Part Numbers</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>L7000</td>
<td>Luna™ CPAP with Integrated Humidifier</td>
</tr>
<tr>
<td>L8000</td>
<td>Luna™ Auto-CPAP with Integrated Humidifier</td>
</tr>
<tr>
<td>L5500</td>
<td>Luna™ Heated Humidifier</td>
</tr>
<tr>
<td>L4510</td>
<td>Luna™ Replacement Water Chamber</td>
</tr>
<tr>
<td>L1020</td>
<td>Replacement Air Filter</td>
</tr>
</tbody>
</table>