SAPPHIRE SERIES 1100 & 1100EC

PLEASE NOTE: It is important that the user read the entire manual before operating this device.

USER ASSISTANCE INFORMATION:
If you have questions or need assistance with this product, call the company from whom it was purchased, or contact Sunflower Medical L.L.C. at 1-888-321-3382

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Technical Description of the Equipment:
The two principle components of the Sunflower Medical Sapphire Series 1100 & 1100EC Mattress System are a specialized air inflatable bladder (Air Mattress) and an electrically powered, Air Blower/Control Unit.
GENERAL WARNINGS AND PRECAUTIONS

WARNINGS

WARNING: DO NOT use this device if the power cord is cut, frayed or loosely connected to the device.

WARNING: Make sure power cord is plugged into a properly grounded A/C 110V outlet.

PRECAUTIONS

CAUTION: DO NOT use around an open flame.

CAUTION: The housing of the master control unit should only be opened by qualified technical personnel. Before opening the housing, make sure the unit is turned off and unplugged from its power source.

CAUTION: Electric Powered Mechanism. Electrical Hazard may occur if device is plugged into inadequate electrical outlet. To avoid electrical shock hazard, make sure unit is plugged into a grounded A/C 110 Volt outlet.

PURPOSE OF THE DEVICE

The purpose of the Sapphire Series 1100 & 1100EC Mattress System is to provide therapeutic benefit to patients at risk or suffering from pressure ulcers.

The active component that has contact with the patient is a specialized, multi-cell air mattress sized to fit a standard medical bed frame. The air mattress serves to replace the original mattress and is equipped with 4 air hoses with connectors that mate with the Air Blower/Control Unit. The Control Unit is a self contained, totally enclosed module that hangs by retractable hooks on the bed frame at the foot of the bed or sits on the floor under the bed.

It is provided with a hospital grade electrical cord and a control panel that has selector switches and indicator lights. The switches and indicators are protected under a flexible membrane to keep out liquid spills and enhance clean-up and sanitation. Inside the Control Unit is a variable output blower, a valve motor and air valves that allow the air mattress to operate in static mode or provide alternating pressure variations within the mattress. There is also a printed circuit board, which provides the electrical controls. The Control Unit has one user replaceable fuse near the AC Power Cord Entry. This fuse is rated 125 Volts, 5.0 Amps.
DESCRIPTION OF THE DEVICE:

The Sapphire Series 1100 & 1100EC Mattress Replacement System consists of a control unit, power cord, a Low Air Loss Mattress and a waterproof, vapor permeable, easy-to-clean cover.

UNPACKING / PARTS BREAKDOWN:

Parts
- Air Blower/Control Unit
- Power Cord (hospital Grade)
- True Low Air Loss Mattress Replacement
- Mattress Cover

Tools Required: NONE

Unpacking instructions: Remove the products from the packing material and examine for shipping damage. If damage is detected in shipping, contact the freight company and file a damage complaint immediately.

Directions for Mattress Placement: Replace the existing bed mattress with True Low Air Loss Mattress. Secure Air Mattress to the bed frame with straps provided.

Warning or Safety Instructions relating to setup:

WARNING: Make sure the power cord is plugged into a properly grounded A/C 110 Volt outlet.
Sapphire Series 1100 & 1100EC
Operating Instructions:

1) Remove standard mattress from the bed.

2) Replace standard mattress with the Sapphire Comfort Turn mattress.
   (Be sure air tubing is at the foot end of the bed.)

3) Strap air support mattress to bed frame on all four corners.

4) Place control unit on the footboard of the bed using the two retractable hooks located on the back of the unit. (If no footboard is available, put blower on the floor away from traffic.) To avoid blocking the air intake, **DO NOT** lay control unit on its back.

5) Attach the air tubing to the blower unit, being sure it snaps in tight.
   (Be sure air tubing is not kinked and is unobstructed.)

6) Plug unit into grounded A/C 110 volt outlet.

7) Turn master power switch, located on the side of the unit, on.

8) At this time the control unit will automatically go into static mode.

9) Press the Autofirm button for quick inflation.

10) Placed the patient on the bed **after** inflation to insure the air cells do not become twisted or kinked.

11) To get the control unit out of Autofirm mode, press Autofirm button again.

12) **Static Mode**
   
   a. Press the Static Mode button
   
   b. Set the desired comfort level with the Soft/Firm buttons
13) **Alternating Mode**

a. Press the Alternating Mode button

b. Set the desired cycle time with Cycle Time buttons (3-20 minutes)

c. Set the desired comfort level with the Soft/Firm buttons.

14) **Lock-out Feature**

a. After 3 minutes, if there are no changes to the blower settings, the lockout feature will activate.

b. Press and hold the Lock-out button for 5 seconds to disengage the lock-out feature.

15) **For quick deflation or for CPR use:**

a. Turn power off

b. Twist CPR plug to open it

c. Remove the hoses from the control unit.

**Notice:** The mattress is equipped with a 2-inch foam pad in the mattress base for patient support and transportation.
Key Pad Quick Reference

Mode - Press to switch between Alternate and Static operations.
Static – Enables static low-air-loss therapy.

Alternate – Enables alternation with pressure sensors regulating airflow. Alternation times are preset at 3 min and can be increased by cycle time.

Soft/Firm Settings –
Firm - Adjusts surface toward firmer level. Increases airflow.
Soft - Adjusts surface toward softer level. Decreases airflow.

Cycle Time – Increases or decrease the time of cycle between 3 to 20 minutes.

Lock-out - Locks out all other functions automatically after 3 minutes or when pressed.

AutoFirm - Quickly inflates mattress to maximum firmness. Unit times out after 20 minutes to previous setting.

CONTROL PANEL ILLUSTRATION

Refer to this page as needed for quick reference to the control panel functions.
Shows control panel layout for the blower unit.
Provides individual button illustration and function description.
For more detailed directions refer back to the operating instructions starting on page 5.

FOR INQUIRIES CALL
1-888-321-3382
MATTRESS CLEANING INSTRUCTIONS:

CAUTION:
A. It is recommended that gloves and protective clothing be worn at all times during cleaning and disinfecting
B. Hypercarbonate and phenol based solutions should not be used.

During Operation:
For normal soil, wipe down cover and interior sacs with a standard cleaning disinfectant and wipe off excess moisture with a towel.

Laundering Mattress:
1. Disconnect the power and deflate the interior sacs.
2. Disassemble cover, interior sacs, connecting hoses and base. Place them in different laundering baskets.
4. Spray disinfectants and wipe down foam cover.
5. Place cover and base in washing machine.
6. Use standard hospital disinfectant/detergent.
7. Set washing cycles as recommended below: Regular Cycle
   a) Pre-soak with disinfectant/detergent with diluted bleach in cold water (10 minutes.)
   b) Main wash for 15 minutes (Time depending on soil level).
   c) Rinse Cycle: 5 minutes minimum.
   d) Spin/Drain Cycle: 5 minutes minimum.
   e) Air-dry or place in dryer at very low or no heat.
8. After the cover, interior sacs, and base are dry, store them in a sterilized bag and seal for next use.

Notice: DO NOT use water temperatures greater than 100°F (40°C).

BLOWER CLEANING INSTRUCTIONS:

CAUTION:
A. It is recommended that gloves and protective clothing be worn at all times during cleaning and disinfecting
B. Hypercarbonate and phenol based solutions should not be used.
C. Make sure unit is turned “off” and unplugged before cleaning.

For normal soil, wipe down with a standard cleaning spray and wipe off excess moisture with a towel. Spray with a disinfectant and let it stand for a few minutes before wiping down. Check corners and creases for soil build-up. Look to see if any external parts are damaged or need replacing such as: hooks, foot pads and filter. Replacement parts can be purchased. See last page for parts listing.
Maintenance:

Foam air filter on the back of the control unit must be cleaned periodically with warm soap and water. Replacement of the foam filter is recommended every 6 months.

Storage:

Deflate mattress using the CPR valve until all air is exhausted completely. With the cover on, roll the mattress starting at the foot section. Secure with straps and keep mattress in a clean dry area away from heat or flames.

TROUBLE SHOOTING GUIDE

If mattress is not inflating:

- Make certain none of the hoses are punctured, kinked or disconnected.
- Check for proper connections from the hoses to the pump. Make sure they are secure.
- Check or clean intake filters.
- Be sure CPR valve is closed.

If there is power loss:

- Check the ON/OFF switch.
- Check to be sure that unit is plugged in.
- Check the fuse located just under the power cord plug on the blower unit.
Frequently Ordered Parts

The following is a list of parts that are frequently ordered for self replacement and repairs. To aid you in ordering parts, please use the provided product numbers given below for each part. The replacement of some parts not listed here may require sending in the unit to the manufacturer for repairs.

**Black Connector** – Connects from mattress to blower unit side panel. Allows air movement to inflate mattress.

**Filters** – Removes dust and other particles from the air as it is pulled into the blower unit.

**Male CPC (Chrome)** – Attached to blower unit side panel. Connects to Female CPC to remove exhaust air from unit to mattress.

**Female CPC** – Connects from mattress to Male CPC on blower unit. Removes exhaust air from unit to mattress.

**Power Cords (removable and fixed)** – Grounded power cord for providing power to the blower unit.

**Hooks** – Collapsible hooks that allow the unit to be hung on bed frame.

**Brackets** – Attach the hooks to the bottom case of the unit.
Return/Exchange Goods Policy:

- **Return of Goods:** 18% Return Charge for a Restocking Fee for returned goods when customer makes a wrong order of items, still in original Packing. A Return Authorization Number (RAN) Form(s) will need to be filled out and processed through the Sunflower Medical LLC Customer Service Department. Once RAN is issued, customer must return all items placed on the RAN within five working days from the date of the RAN to Sunflower Medical LLC. Without an Authorized RAN, all items will be returned to the customer at the customer’s expense.

- Repairs or Replacements are offered for defective items. Also a RAN action must be completed before any repairs or replacements can be completed.

- **Sunflower Medical LLC:** Replacement for wrong Items shipped, RAN form must also be completed, and then items will be replaced or repaired at no cost.
WARRANTY PROVISIONS:

Warranty: Sunflower Medical LLC; Warrants that all products provided under this agreement are free from defects in material and workmanship, for the following stated warranty period from the date of delivery.

Sunflower Medical LLC guarantees all purchased equipment to be free from defects in material and workmanship as follows: Control Unit – One (1) year; Mattress – Two (2) years on air cell welds; One (1) year on Bottom Cover, Manifold & Foam Base; Top Cover – Ninety (90) Days. All parts found defective within that period shall be repaired and/or replace, with the cost of repair and/or replacement, to be borne by Sunflower Medical LLC. The warranty is not valid and repairs and/or replacement will not be made free of charge, if the product has been misused or damaged by accident.

Sunflower Medical LLC reserves the right to make this determination based upon the condition of product upon time of receipt.