Direct Healthcare Services

Delivering the Promise

Dyna-Form® Static Air HZ

Service Procedure

The company advises that the mattress should be decontaminated prior to audit dependant on clinical environment requirements.

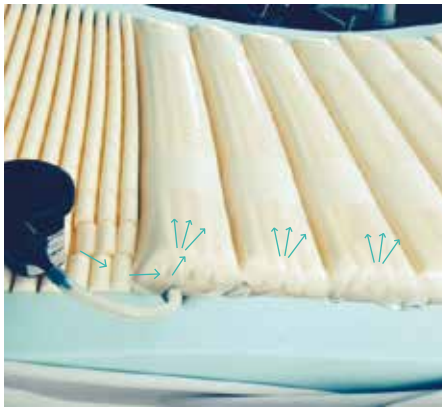
1. Unzip the Top mattress cover to expose the internal foam and air cell structure.

2. Locate “Air Inlet” valve which can be found under the air cell nearest head section.

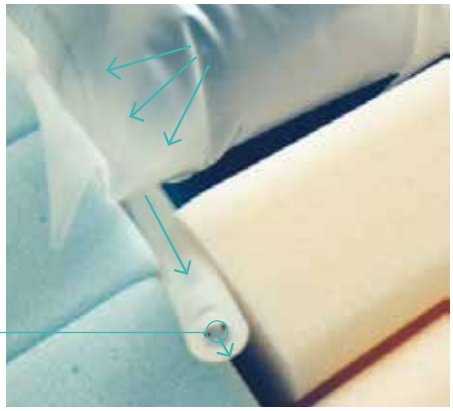
3. Connect a Low Pressure Fast Inflation Pump to the Air Inlet Valve using a 6mm internal ID silicone tube (inflation umbilical pipe).

4. Turn on pump and inflate Air Cells

5. Continue inflating until all Air Cells are fully inflated.



6. When the Air Cells are fully inflated the Pressure Relief valve located near the foot end will open and let excess air pressure out of the mattress.



7. Turn off the power to the pump. Remove Pump and inflation umbilical pipe. The Air Inlet Valve on the mattress will stop any air escaping from the Air cells.

8. If the all the Air Cells have not inflated check for any obvious leaks

9. To check that the Mattress system is working correctly and the Air Inlet and Pressure relief valves are functioning 'depress' the central area of the Heel Lift Cell FULLY with your hand to the mattress foam. The Heel Lift Cell is the larger Air only cell located at the foot end of the mattress.

10. Remove your hand and the Heel Lift Cell should re-inflate automatically using the air pressure contained in the mattress. Repeat this action a second time. If the Heel Lift Cell has re-inflated fully then all Air Inlet, pressure relief valves and air cell seals are working correctly.

11. In order to allow the mattress to depressurise ready for re-use, it may be necessary to remove the Air Inlet Valve from the Air cell nearest the head end (the same Air cell that you inflated with the pump earlier). This will allow the excess air pressure that was used inflating the mattress during the test to be released.

12. When the 6 Air cells have collapsed back to the level of the foam internal core then the Air Inlet valve should be replaced and if necessary a new cable tie put in place. The Heel Air only cells should not deflate unless they are compressed.

13. The Audit is now complete. The cover should be replaced and the mattress is now ready for use.

Tools Required

Fast Inflation Pump
6mm inside diameter silicone air tube
Cutters to remove cable tie from Air Inlet Valve nearhead end.
New mini cable tie to replace above.

a) Example of Low Pressure Fast Inflation Device with small nozzle attachment

b) Inlation umbical pipe (6mm I/D Silicone tube) approximatly 30cm long.

EMI/EMC Statement and Manufacturer's Declaration

This equipment has been tested and found to comply with the limits of EN 60601-1-2 2007.

These limits are designed to provide reasonable protection against harmful interference in both a medical and residential environment. This equipment generates, uses and can radiate radio frequency energy and, if not used in accordance with manufacturer's instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception or other equipment, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment.
- Connect the equipment to an outlet on a circuit different from that to which the receiver or equipment was connected.

The equipment having been tested to operate within the limits of electromagnetic compatibility. (Immunity to interference from nearby sources radiating radio frequency energy). Sources exceeding these limits may give rise to operation faults. Where possible the system will sense the interference and if it is of short duration transparently take countermeasures whilst operating near normally, or failing this will issue a warning and take measures for the continued safely of the user. Further increased levels of energy may cause the system to stop operating, continuously generate random faults or continuous resets.

Try to ascertain the source of the interference by turning nearby or suspect equipment off, and see if the interference effects stop. In any such event the user is encouraged to try to correct the interference by one of the following measures:

- Have the interfering equipment repaired or replaced.
- Reorient or relocate the interfering equipment.
- Increase the separation between the equipment and the possible source of the interference.
- Connect the equipment to an outlet on a circuit different from that to which the interfering equipment was connected.

Information regarding Electro Magnetic Compatibility (EMC) according to IEC60601-1-2:2007, clause 6.8

With the increased number of electronic devices such as PC's and mobile telephones, medical devices in use may be susceptible to electromagnetic interference from other devices.
The EMC (Electro Magnetic Compatibility) standard IEC60601-1-2 defines the levels of immunity to these electromagnetic interferences. From the other hand, medical devices must not interfere with other devices. IEC60601-1-2 also defines the maximum levels of emissions for these medical devices.

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