Direct Healthcare Group

Advancing Movement & Health®

Dyna-Form®
Mercury Advance Alternating Cushion

User Manual

Direct Healthcare Services

DIRECTHEALTHCAREGROUP.COM

Dyna-Form®
Mercury Advance Alternating Cushion

The **Dyna-Form® Mercury Advance Alternating Cushion** is a **Very High Risk** dynamic replacement seating system, combined with the benefits of modern foam technology. Offering high levels of patient comfort, this unique system has the facility to "step up" to that of a dynamic cushion when clinically required. Similarly, the cushion's function can be downgraded as the patient's condition improves. A higher maximum weight capacity, up to 24 stone / 152kg, allows the product to meet the modern challenges of those heavier clients.

The outer cover comprising a high frequency welded, multi stretch and vapour permeable fabric satisfies the strictest infection control policies. Designed using the latest medical grade cell technology to create greater postural management and pressure relief, this product is specifically made for users considered to be at 'Very High Risk' of pressure ulcer development and those with minor postural issues.

Contents

Intelligent® Pressure Care Management | Making a Measurable Difference

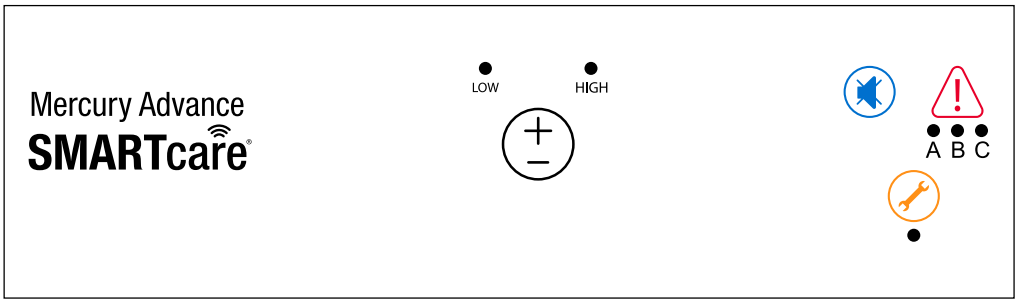
1. Introduction

The cushion consists of a foam head cell and series of 4 transverse air cells, each containing a unique foam profiled insert, which are in turn held within a foam base, all protected by a vapour permeable waterproof cover. The transverse cells are arranged to alternate in a sequence to increase and decrease pressure over the thighs, coccyx and ischial areas.

The digitally controlled Power Unit controls a pump that allows air to flow into, or out of the air cells as required according to the operating mode selected. It also maintains the air pressure within the cushion at the required level and controls the action of the audible/visual Audible Warning system in the event of mains supply failure or over or under inflation pressure.

2. Quick Reference Guide (Frequently used functions)

This is a quick reference guide for the **Dyna-Form® Mercury Advance Alternating Cushion**
Product Code CUS1210001



Power Switch Audible Warning Reset

The power switch simply switches the mains power to the pump on and off.

When the pump detects an Audible Warning condition, this can be silenced as below and re-set by switching the pump off and then back on again.

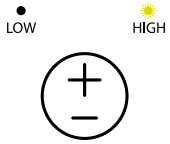
Pump Connector

Please ensure that the Pump connector is always placed fully home, prior to inflating the cushion. NB: The cushion will NOT inflate properly should this not be the case.

LED Mode Settings

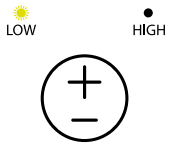
This symbol when illuminated (the green indicator light) is not used to indicate that the equipment is on or ready for use.

When a patient requires a true dynamic function or indeed more pressure in the cells, as they may be uncomfortable or feel as though the support surface is too soft or unstable, then please select a “High” setting (pressure 26mmHg). This must only be used by a trained clinician as often too high pressures can further agitate certain patient conditions.



Power On / Off
True Dynamic /Firmer Setting

When a patient requires less pressure in the cells, as they may be uncomfortable or indeed hyper sensitive to cell movement or indeed if the patient is still reddening further, then please select a “Low” setting (pressure 18mmHg). This must only be used by a trained clinician.



Low / Comfort Pressure Setting

This function is used to silence the Audible Warning. The LED will remain lit if the Audible Warning has been silenced previously, however a fault is still detected. Refer to the power switch in order to re-set fully. If the Audible Warning continues to sound repeatedly, along with an illuminated light, then an engineer must be called.

Silence Audible Warning

This symbol indicates an “Audible Warning Failure”.
Please see troubleshooting guide below for how to re-set.

Audible Warning Failure

This symbol when illuminated indicates a Service is required.
DHG recommends an annual service. The service light will illuminate every 8760 hours of operation (one continuous year running).

Service Indicator

Note: Please ensure (when available) that all securing straps on the base of the cushion are secured onto the NON MOVING PARTS of the chair.

For shut down procedure, see 4.2 Power Unit (Pump) section.

3. Troubleshooting

Warning / Fault	Cause	Solution
Control Unit does not operate; no display lights illuminate	The Control Unit may not be attached to a power source or a fuse may need replacing.	1. Check the Control Unit is connected to mains power outlet with the correct voltage. 2. Check the Control Unit is switched on. Switch off and unplug the unit before restarting. 3. Check the mains plug fuse (5 AMP) then check both Control Unit fuses (1 AMP) – fuses can be released using a screwdriver to push and turn. ⚠ Do not try to open the Control Unit. Opening the unit could cause personal injury or equipment damage. ⚠ Ensure the replacement of fuses is carried out accordance with local legislation.
Warning LED C + audible warning 	Mains failure / Other See above, plus:	1. Reset the audible warning – turn off power and press the audible warning mute button. 2. Check the handle is intact, ensuring all four sealing connectors are firmly fitted to the control unit and the air hoses. Check the CPR tag is attached and all sealing connectors are firmly secure. 3. Check all air hoses along the inside of the cushion – each should be firmly connected. Check each air cell is securely attached to its connecting air pipe. 4. Check all cells, pipes and hoses for any air leakage. 5. Switch on power.
Warning LED B + audible warning 	Pressure too low	1. Reset the warning – turn off power and press the audible warning mute button. 2. Check the handle is intact, ensuring all four sealing connectors are firmly fitted to the control unit and the air hoses. Check the CPR tag is attached and all sealing connectors are firmly secure. 3. Check all air hoses along the inside of the cushion – each should be firmly connected. Check each air cell is securely attached to its connecting air pipe. 4. Check all cells, pipes and hoses for any air leakage. 5. Check that the air filter cover is correctly secured and the air filter is clean. 6. Switch on power.
Warning LED B+C + audible warning 	Pressure too low / Air pipe kinked	1. Check all air hoses along the inside of the cushion – each should be firmly connected. Check each air cell is securely attached to its connecting air pipe.
Warning LED A + audible warning 	Pressure too high	1. Reset the warning – turn off power and press the audible warning button. 2. Disconnect the air hoses to reduce pressure, reconnect when pressure has decreased. 3. Check for twists in the air hoses between Cushion and Control Unit. 4. Switch on power.
Warning LED A+B + audible warning 	Alternating Mode Failure (no alternation)	1. Reset the warning – turn off Power and press the audible warning mute button. 2. Disconnect the air hoses to reduce pressure – reconnect when pressure has decreased.
Warning LED A,B+C + audible warning 	Initialising Failure	1. Press the audible warning mute button to silence the audible warning. 2. Check the power cable is firmly plugged into the mains outlet and the Control Unit; and check the mains power is switched on. 3. Check the Control Unit fuse (1 AMP) – fuses can be released using a screwdriver to push and turn.

4. Installation

4.1 Cushion (This is the applied part type BF)

Place the Dyna-Form® Mercury Advance Alternating Cushion directly on to the chair ensuring that the Blue multi-stretch waterproof cover is on top and that the umbilical hose is located at the left hand front corner of the chair. Note: Do not place any other cover on top of the cushion as this will reduce the cushion's pressure reducing characteristics.

Static Cushion Use

The Dyna-Form® Mercury Advance Alternating Cushion can be used as a pressure reducing cushion for patients at risk of pressure ulcer damage without the need to attach the pump.

Alternating Cushion Use

If / When required, the Dyna-Form® Mercury Advance Alternating Cushion can be used as an alternating cushion by attaching the Dyna-Form® Mercury Advance Alternating Cushion pump system. **No other system should be attached to the cushion as the design settings and internal air pressure properties of the Dyna-Form® Mercury Advance Alternating Cushion pump are specific to this cushion only.**

The startup time from static to dynamic mode is immediate.

4.2 Power Unit (Pump)

Hang the Power Unit (Pump) on the chair or place safely on the floor. The mounting hooks swivel to suit the thickness of the footboard or rail. Connecting the Umbilical Hose to the Power Unit (Pump), place the 3-pin electrical plug into the wall outlet and switch on:

(a) Open the zip located at the bottom left hand side of the cushion and pull out the Blue Umbilical hose.

(b) Attach the Blue Umbilical Hose to the Power Unit (Pump) by connecting the air connector at the end of the Umbilical Hose to the air inlet connector at the bottom left hand side of the pump. Ensure that the Red CPR Release button is located on top of the Air Inlet connector after connection is complete.

(c) Re-close the zip as far as possible without clamping the Blue Umbilical Hose to ensure the cushion and air cells are sealed within the cover.

(d) Shut down is the reverse of items a, b & c above.

5. Operation

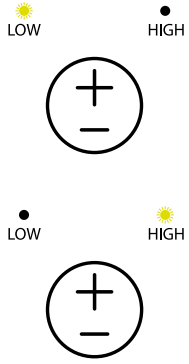
Attach the mains cable to the pump by inserting the "kettle" type connector into the recess located on the left hand side of the pump. The mains cable has been designed specifically as a removable part to aid in easy replacement should it become damaged in use.

The mains plug should be turned off and removed from wall socket as a means of isolation.

Plug the mains cable into a suitable 230v mains socket and switch on the Power Unit using the on/off switch.

After the pump has been turned on both the "High "and the "Low" lights will flash together intermittently until the pump has attained its initial operating pressure. Once the pump has attained its initial operating pressure the "Low" light will stay on constantly and the cushion is ready for use.

5.1 Low / High Settings



The Dyna-Form® Mercury Advance Alternating Cushion, in Alternating Mode, has two pressure settings. The initial setting that the pump will revert to upon set up is “Low”. The “Low” comfort setting is ideal for the lighter patient or those who feel discomfort when on a normal alternating air type cushion system. However, for patients with existing pressure damage or those at Very High Risk, it is recommended that dependant on the clinical judgement of the clinician, the “High” setting is activated by pressing the +/- button once, which is located on top of the pump.

In “High” Mode the pump attains more of the characteristics of an alternating air cushion system whilst still utilising the advantages of the static foam inserts. Repeatedly pressing the ‘mode’ button enables the Low & High modes to be selected in turn.

5.2 CPR Deflation

The CPR system consists of a manually operated button located on the Air Inlet connector attached to the pump. By pressing the Red Button, which will release the connector locking system, the user can remove the connector unit which will deflate the cushion air system back to that of a static foam cushion.

Note: After a short period as the cushion deflates the ‘Low Pressure’ Audible Warning is activated and can be cancelled by switching the Power Unit off.

5.3 Troubleshooting

For assistance (if needed) in setting up, using or maintaining the Dyna-Form® Mercury Advance Alternating Cushion System, or to report unexpected operation or events, please contact Direct Healthcare Group on the contact details on the reverse of this manual.

6. Transportation

To change the location of the cushion, remove the Umbilical Cord and allow the cushion to return to its Static Cushion form. Switch off the Power Unit (Pump) using the on/off switch and disconnect the electrical supply cable from the mains socket. The cushion can now be moved to a new location where it must immediately be reconnected to the mains electrical supply and the Power Unit (Pump) switched back on. Once the Cushion has been refilled, the ‘Alternating’ mode will automatically revert back to the Low setting and should be reselected to High should this be desired by the clinician.

Warning: The Cushion will not ‘alternate’ when disconnected from the Power Unit (Pump) and /or the mains electrical. Also refer to environmental conditions section at rear of this manual.

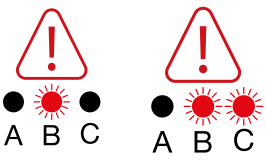
7. Warnings

Warning conditions are indicated by a flashing red display accompanied by an audible warning.
In each case the user should respond by turning the Power Unit’s switch off and investigating the cause.

7.1 High Pressure Warning

This condition could be caused, for example by a kinked Umbilical Hose or visitors, and others, sitting suddenly on the Cushion.

7.2 Low Pressure Warning



This condition could be caused, for example, by incorrect fitting of the air inlet connector, opening of the CPR Valve or a leak in the Cushion due to a cut or puncture.

7.3 Mains Failure Warning

This condition may be caused, for example if Mains power is lost.

7.4 Alternating Mode Failure (no alternation)

This will be indicated by a warning LED on A and B and an audible warning.

1. Reset the warning – turn off Power and press the audible warning mute button.
2. Disconnect the air hoses to reduce pressure – reconnect when pressure has decreased.

7.5 Initialising Failure

This will be indicated by a warning LED on A, B and C and an audible warning.

1. Press the audible warning mute button to silence the audible warning.
2. Check the power cable is firmly plugged into the mains outlet and the Control Unit; and check the mains power is switched on.
3. Check the Control Unit fuse (1 AMP) – fuses can be released using a screwdriver to push and turn.

8. Maintenance Procedures

8.1 Safety Warning

Only qualified technicians trained or formally approved by Direct Healthcare Group Ltd. in the operation and maintenance of Direct Healthcare Group products may carry out maintenance, modification or repair work on the equipment. Unqualified personnel attempting to work on Direct Healthcare Group Power Units risk serious injury to themselves and others and possibly death by electrocution. Inlet fuse NOT to be replaced by operator or patient, to be replaced by service personnel only.

Warning – Do not modify this equipment without authorisation of Direct Healthcare Group.

8.1.1 Servicing

Direct Healthcare Group recommend that the control unit be serviced annually from installation. The service light will illuminate after 8760 hours of operation (one year of continuous operation). The unit contains no user serviceable parts and should only be carried out by persons as described in section 8.1. DHG will make available on request service manuals, component parts lists and other information necessary for any suitably qualified person (As in 8.1) to carry out repair or service
the system. For Service, maintenance and any questions regarding this please contact DHG.

8.2 Cleaning Procedures

Warning: Before cleaning the System make sure that the Power Unit (Pump) is disconnected from the mains electricity supply.

Do not immerse the Power Unit (Pump) in water or other fluids.

Do not autoclave, nor use phenol for cleaning.

Do wash hands before commencing the cleaning process.

Wear appropriate protective clothing such as gloves, apron and a mask.

Ensure all work surfaces are cleaned before and after contact with the Cushion.

8.3. Warning – Cleaning the Cushion

1. Cleaning should take place before and after use, and between patients.
2. With cover left on the cushion disconnect the cushion from the Power Unit (Pump).
3. Clean the surface of the wash down table with Hypochlorite solution or equivalent disinfectant.
4. Wash cushion top using hot water (60 degrees C) containing detergent – dry with a paper towel.
5. For heavy contamination use a Hypochlorite solution 1,000 parts per million available chlorine.
6. Using suitable brush, hot water, detergent or Hypochlorite solution, clean Umbilical Hose and CPR Valve. Dry with paper towel.
7. If required, the cushion Cover may be removed and machine-washed at a temperature of 80 degrees C, for not less than 10 minutes. The individual Air Cells can be wiped down with established disinfectants.
8. To avoid shrinkage of the cover line dry in an indoor clean environment or tumble dry on a low heat setting not exceeding 40 degrees C and not for longer than 10 minutes. Covers must be thoroughly dried before re-fitting to the cushion.

8.4 Warning – Cleaning the Power Unit (Pump)

The Power Unit can be cleaned by wiping with a cloth dampened with a detergent solution or Hypochlorite solution.
Also refer to symbol chart.

8.4.1 Warning

Ensure the Dyna-Form® Mercury Advance Alternating Cushion System is not exposed to:

1. Excessive heat sources e.g. fires, radiators etc.
2. Water, particularly immersion of the pump.

9. Technical Specification

Declaration – Electromagnetic Emissions – for all ME EQUIPMENT and ME SYSTEMS

Guidance and manufacturer's declaration – Electromagnetic Emission

The CUS1210001 is intended for use in the electromagnetic environment specified below.

The customer or the user of the system should ensure that it is used in such an environment.

Emission Test	Compliance	Electromagnetic Environment – Guidance
RF emissions CISPR 11	Group 1	The system 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.
RF emission CISPR 11	Class B	The system 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.
Harmonic emissions IEC 61000-3-2	Class A	
Voltage fluctuations/flicker emissions IEC 61000-3-3	Complies	

9. Technical Specification

Declaration – Electromagnetic Immunity

Guidance and manufacturer's declaration – Electromagnetic Immunity

The CUS1210001 is intended for use in the electromagnetic environment specified below.

The customer or the user of the system should ensure that it is used in such an environment.

Immunity Test	IEC 60601 Test Level	Compliance Level	Electromagnetic Environment – Guidance
Electrostatic discharge (ESD) IEC 61000-4-2	±6 kV contact ±8 kV air	±6 kV contact ±8 kV air	Floors should be wood, concrete or ceramic tile. If floor are covered with synthetic material, the relative humidity should be at least 30%.
Electrical fast transient/burst IEC 61000-4-4	±2 kV for power supply lines ±1 kV for input/output line(s)	±2 kV for power supply lines ±1 kV for input/output line(s)	Mains power quality should be that of a typical commercial or hospital environment.
Surge Immunity Test IEC 61000-4-5	± 1 kV line(s) to line(s)	±1 kV differential mode	Mains power quality should be that of a typical commercial or hospital environment.
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	Voltage Dips $\%U_T$ / Period (Cycles) 30 / 25 60 / 5 >95 / 0.5 Voltage Interruption $\%U_T$ / Seconds >95 / 5	Voltage Dips $\%U_T$ / Period (Cycles) 30 / 25 60 / 5 >95 / 0.5 Voltage Interruption $\%U_T$ / Seconds >95 / 5	Mains power quality should be that of a typical commercial or hospital environment. If the user of the Span system requires continued operation during power mains interruptions, it is recommended that the system be powered from an uninterruptible power supply or a battery.
Power frequency (50Hz) magnetic field IEC 61000-4-8	3 A/m	3 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.

NOTE U_T is the a.c. mains voltage prior to application of the test level.

9. Technical Specification

Declaration – Electromagnetic Immunity – for ME EQUIPMENT and ME SYSTEMS that are not LIFE-SUPPORTING

Guidance and manufacturer's declaration – Electromagnetic Immunity

The CUS1210001 is intended for use in the electromagnetic environment specified below.

The customer or the user of the system should ensure that it is used in such an environment.

Immunity Test	IEC 60601 Test Level	Compliance Level	Electromagnetic Environment – Guidance
Conducted RF IEC 61000- 4-6	3 Vr_{ms} 150 kHz to 80 MHz	3 Vr_{ms}	Portable and mobile RF communications equipment should be used no closer to any part of the CT515, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance $d = 1.167\sqrt{P}$ $d = 1.167\sqrt{P}$ 80 MHz to 800 MHz $d = 2.333\sqrt{P}$ 800 MHz to 2.5 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, as determined by an electromagnetic site survey, [a] should be less than the compliance level in each frequency range. [b] Interference may occur in the vicinity of equipment marked with the following symbol:
Radiated RF IEC 61000-4-3	3 V/m (Professional Healthcare Environment) 10 V/m (Home Healthcare Environment) 80 MHz at 2.7 GHz	10 V/m	

NOTE 1 At 80 MHz and 800 MHz, 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.

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 Span system is used exceeds the applicable RF compliance level above, the system should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the system.

b. Over the frequency range 150kHz to 80MHz, field strengths should be less than 3V/m.

9. Technical Specification

Recommended separation distances between portable and mobile RF communications equipment and the EQUIPMENT or SYSTEM – for ME EQUIPMENT or ME SYSTEM that are not LIFE – SUPPORTING

Recommended separation distances between portable and mobile RF communications equipment and the MAT1210001 Alternating Control Unit.

The CUS1210001 is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the system can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the system as recommended below, according to the maximum output power of the communications equipment.

Rated maximum output power of transmitter (W)	Separation distance according to frequency of transmitter (m)		
	150 KHz to 80 MHz $d = 1.167\sqrt{P}$	80 MHz to 800 MHz $d = 1.167\sqrt{P}$	800 MHz to 2.5 GHz $d = 2.333\sqrt{P}$
0.01	0.117	0.117	0.233
0.1	0.369	0.369	0.738
1	1.167	1.167	2.333
10	3.689	3.689	7.379
100	11.667	11.667	23.333

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.

10. Technical Data

10.1 Power Unit (Pump)

Serial Number.....As per label on rear of pump
Electrical Supply. ..... 220 – 240 volt, 50 Hz
Power Consumption .....10 watts
Fuses.....TA1H 250V
Protection against shock .....Class 2
Noise Level .....Approx. 30 dB (A)
Dimensions .....245 x 160 x 95 mm
Weight..... 1.7 kg
Service Interval ..... 12 months / 8760 hours
Expected life .....5 years
Shelf life of parts .....5 years

10.2 Cushion

Serial Number..... Label on inside of cushion cover
Number of Air Cells.....5 Air Cells / 1 Static Foam Cell
Dimensions .....460 x 460 x 100mm (Nominal)
Weight.....3 kg
Expected life of cushion.....5 years
Shelf life of cushion parts .....5 years

11. Optimum Conditions

(Applies to Cushion and Pump)

11.1 Environment Conditions for Use

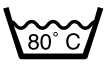
Transport..... -25˚C – +70˚C
Storage ..... -25˚C – +70˚C
Usage ..... +5˚C – +40˚C
Humidity..... 10% – 93%
Atmospheric Pressure ..... 700hPa – 1060hPa
Operational Altitude..... ≤ 2000m

11.2 Exposure

Exposure to direct sunlight, dust, lint and general debris is not considered to be an issue with the Dyna-Form® Mercury Advance Alternating Cushion System.

12. Symbols Guide

Cushion Symbols



WASH AT 80˚


TUMBLE DRY ON LOW


DO NOT DRY CLEAN


REFER TO USER MANUAL


TYPE BF APPLIED PART


DO NOT BLEACH


DO NOT IRON


NO SMOKING

MAXIMUM USER WEIGHT LIMIT 254 KG / 40 STONES


DO NOT USE SHARP INSTRUMENTS

DO NOT USE PHENOL

WARNING

THIS IS A STATEMENT THAT ALERTS THE USER TO THE POSSIBILITY OF SERIOUS INJURY OR OTHERWISE ADVERSE REACTIONS WITH THE USE OR MISUSE OF THE DEVICE

CAUTION

THIS IS A STATEMENT THAT ALERTS THE USER TO THE POSSIBILITY OF A PROBLEM WITH THE SYSTEM ASSOCIATED WITH ITS USE OR MISUSE

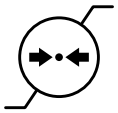
General Symbols


CAUTION


PROTECT FROM HEAT AND RADIOACTIVE SOURCES


TEMPERATURE LIMITATION

HUMIDITY LIMITATION


ATMOSPHERIC PRESSURE LIMITATION

Pump (Unit) Symbols


SERVICE REQUIRED


REFER TO USER MANUAL


DO NOT DISPOSE OF WITH HOUSEHOLD WASTE. PLEASE REFER TO DHG WEBSITE


DOUBLE INSULATED CLASS II

IP21

IP: INGRESS PROTECTION
2: PROTECTION AGAINST FINGERS OR OTHER OBJECT NOT GREATER THAN 80MM IN LENGTH AND 12MM IN DIAMETER
1: PROTECTION FROM VERTICALLY DRIPPING WATER

Contraindications For Use (Warning)

The Dyna-Form® Mercury Advance Alternating Cushion System should not be used for patients with unstable fractures, gross oedema, burns, or intolerance to motion.

General Information (Caution) (Warning)

- There are no special skills required to operate the system.
- The Medical Professional is responsible for applying his/her best medical judgment when using the system.
- The electricity supply is of the type indicated on the Power Unit (pump).
- Check the mains lead is free from damage and is positioned so as not to cause an obstruction, or injury. E.g. Strangulation of a child or trip hazard.
- Ensure the mains lead cannot become trapped or crushed, e.g. within the mechanism of the chair, footstool or another object.
- The power unit (pump) must only be used with a suitably approved power cord and plug set as supplied by DHG.
- The system is not to be used in the presence of flammable anaesthetics.
- Suitable for continuous use.
- Not suitable for sterilisation.
- Do not position the power unit to make it difficult to disconnect the power supply or plug.
- Do not place the System on or close to a source of heat (i.e. a radiator) as this excessive exposure to heat may weaken the cell material.
- Do not use with hot water bottles or electric blankets.
- DHG strongly advise against smoking whilst the Power Unit (pump) is in use. This is to prevent accidental secondary ignition of items which may be flammable e.g. bed linen. The materials used in the manufacture of the Dyna-Form® Mercury Advance Alternating Cushion System comply with the required fire safety regulations.
- Do not use sharp objects on or near the cushion system as this will cause damage.
- Do not store in damp conditions.
- Do not use in an oxygen enriched environment.
- Not suitable for use in an Outdoor Environment.
- Intended for both Home Healthcare and Professional Healthcare environments.
- Do not connect to any other medical device or equipment.
- Correct fuse rating MUST be used. Failure to do so could result in the risk of a fire.
- The System should be cleaned after use or between patients. Refer to Cleaning section.
- All internal and external hoses must be free of twists, kinks. The external hose should also be properly connected and positioned so that the risk of obstruction or injury is eliminated.
- Do not use bleach, phenols. Chlorine based products which exceed 1000ppm. Solvents or alcohol based cleaners.
- All the above warnings and cautions together with safety considerations should be observed at ALL times during its use.
- Select correct setting 'Hi' or 'Low' as required. Care should be taken not to accidentally change settings once set. This may affect the desired requirement of the therapy. This could also be caused by pets, pests or children.
- This device does not emit radiation.

13. Detachable/Removable Parts

1. Cushion (Detached from the pump by removing the CPR connector). Part No. CUS1210002 (or variants of for the size)
2. Electric power cable. (Removed from the pump by pulling the cable away from the mains inlet on the side of the pump). Part No. SP021016

N.B. The battery is an integral part of the PCB and is not removable or changeable.

Caution

Use of detachable parts not listed is not recommended by Direct Healthcare Group.

14. Disposal

Please refer to DHG website for recommendations and responsibilities for disposal within the UK WEEE guidelines.

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