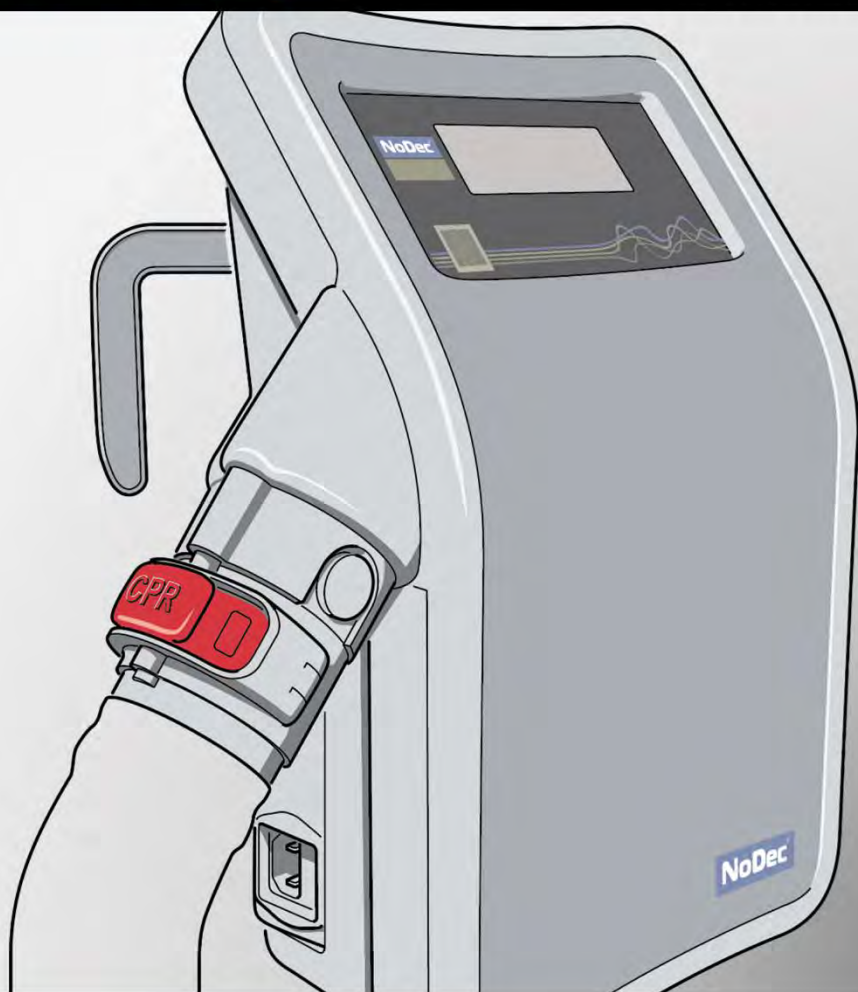


ROBER

roberlimited.com



NoDec[®]

BARI

(FOAM COMBO)

USER INSTRUCTION MANUAL





NoDec[®]

BARI

USER INSTRUCTION MANUAL

INSTRUCTIONS FOR USE

Version 5.0

Sep 2025



Version History

Version	Implemented By	Revision Date	Approved By	Approval Date	Reason
1.0	Ben Smith	N/A	M Hutson	May '16	Original
2.0	Ben Smith	May '18	M Hutson	May '18	<i>Update to Graphics</i>
2.1	Ben Smith	Oct '18	M Hutson	Oct '18	Update to customer specific mattress
2.2	Mike Hutson	May 2021	M Hutson	May 2021	Added CE and EU rep
3.0	Richard Smith	Jul 2023	M Hutson	Aug 2023	Intended Use and Incident Reporting sections added, labelling updated
4.0	R Smith	Apr 2024	M Hutson	Apr 2024	Bed Hook operation instructions updated
5.0	R.Smith	Sep 2025	M Hutson	Sep 2025	UKCA Mark Added

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Introduction

Congratulations on purchasing the NoDec® BARI three-cell cycle alternating pressure air mattress system. This high quality medical product, if installed and cared for in accordance with these instructions, will provide many years of trouble free service and outstanding clinical performance.

The NoDec® BARI is an alternating pressure mattress replacement system designed for the prevention and treatment of pressure ulcers. It is suitable for high risk patients and pressure sores up to Grade V.

This mattress system is manufactured to conform with international standards, EN 60601-1, EN 60601-1-2, and is registered to CE & UKCA.

Please read this Instruction Manual thoroughly before using the NoDec® BARI.

Incident Reporting

In the event of a serious incident occurring in relation to this device, this should be reported to the manufacturer (Rober Ltd) and the competent authority of the member state in which you are situated.

Intended Use

The NoDec® BARI is a three cell cycle alternating pressure mattress replacement system designed for the prevention and treatment of pressure ulcers. It is suitable for high risk patients and pressure sores up to Grade V.

The objective of the NoDec® BARI is to remove the contact pressure created by the patient lying on the mattress. This is achieved by sequentially inflating and deflating the air cells of the mattress. This regularly removes the contact pressure which restores blood flow and tissue oxygenation in the deep tissues about the vulnerable bony prominences.

The mattress system can fit onto any bed type in hospitals, nursing homes and in the community. This mattress replacement system is quiet, comfortable and simple enough for a single caregiver installation. The operator controls the system by use of a touch screen display to improve user interaction.

The system consists of an air filled mattress that is placed on top of a conventional bed frame and is connected via an air supply hose to a separate microprocessor controlled power unit.

The power unit is software driven using a solid-state pressure sensor so it has the capability to monitor the air pressure in the mattress continuously. The system is completely self regulating and automatically maintains the air pressure at the correct level corresponding to the weight of the patient and their position in bed.

An emergency deflation valve system is incorporated to allow cardiac resuscitation procedures. Named appropriately as a CPR unit, it also has self sealing valves which allow the mattress to

remain inflated for up to 12 hours when disconnected from the system.

A number of audio and visual alarms exist to warn caregivers of any problems within the system.

N.B. As with all alternating mattress systems, the NoDec® BARI is contraindicated for use where patients have unstable fractures or spinal injuries.

Further Information

The NoDec® BARI replaces the mattress on any hospital, style bed frame. This mattress replacement system is quiet, comfortable and simple enough for a single caregiver installation.

The frequent removal of contact (interface) pressure has been demonstrated to reduce the risk of pressure injury which is caused by reduced capillary blood flow in the tissue surrounding the bony prominences. The **NoDec® BARI** is also a valuable aid in the treatment of existing pressure injuries up to Grade V.

The objective of the NoDec® BARI is to remove the contact pressure created by the patient lying on the mattress. This is achieved by sequentially inflating and deflating the air cells of the mattress. This regularly reduces the contact pressure which restores blood flow and tissue oxygenation in the deep tissues about the vulnerable bony prominences.

The system consists of an air filled mattress that is placed on top of a conventional bed frame and is connected via an air supply

hose (umbilical) to a separate control unit. This mattress consists of individual cells, protected by a Gerroderm cover.

The control unit is software driven which gives the capability to maintain the air pressure in the cells at the required level and to automatically alter the air pressure depending on the weight of the patient and their position in bed. Air pressure can also be changed depending on required care.

The additional presence of a CPR valve located at the side of the power unit permits the rapid deflation of the mattress in an emergency.



Contraindications

As with all alternating mattress systems, the NoDec[®] BARI is contraindicated for use where patients have unstable fractures or spinal injuries .

Description of Symbols

Throughout this user manual and on the pump unit itself, the NoDec[®] BARI has numerous symbols:

Symbol



Explanation

Type B – Applied Part



Class II Medical Device (certified to class 1)

I / O

On / Off



Refer to Instruction Manual



General Warning

List of Components

Unpack your NoDec® BARI mattress system and check that you have the following :

- NoDec® BARI Pump Unit:

Please note the Name, Model and the Serial Number of your pump in case you need to reference these when contacting Rober or your local distributor.

Manufacturer
Details

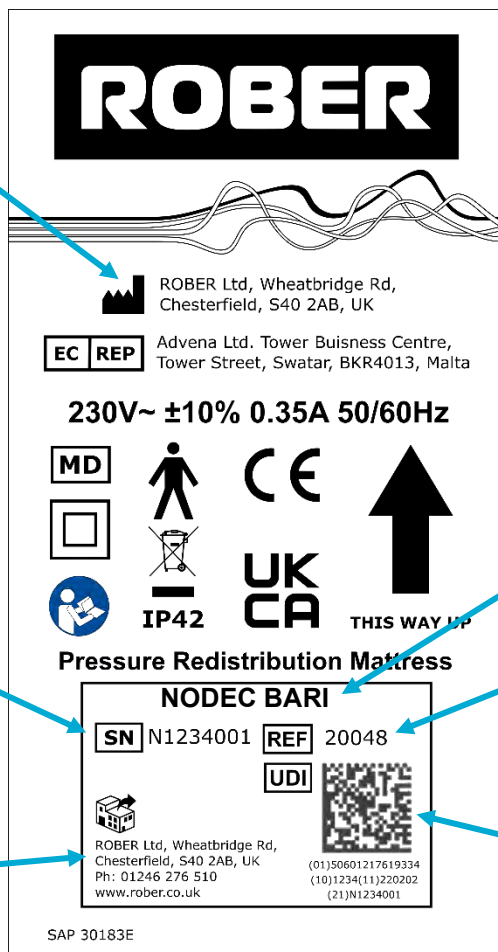
Serial
Number

Distributor
Details

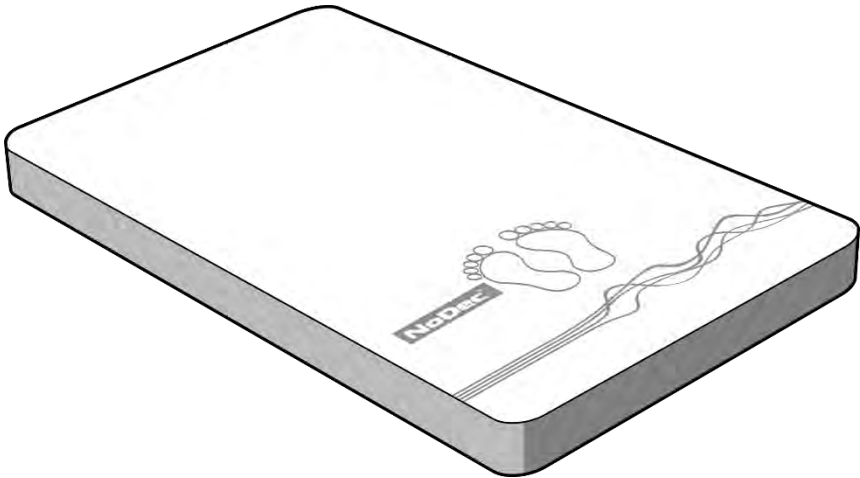
Model
Name

Catalogue
Number

UDI



- NoDec® BARI Mattress:



The top cover is made from Dartex™ which is an antimicrobial, mutli-stretch, vapour permeable, PU coated fabric. The bottom cover is made from durable PVC coated Nylon.

- Power Cord:

The power plug should be appropriate to your country or region.

General Cautions / Warnings



Before setting up the mattress, it is important to read all of the safety instructions below. Any actions or operations performed outside the guidance of this manual are carried out at the user's risk. Rober and/or the supplier are not liable for any such actions.

- Inspect before use. If any faults are discovered, the mattress system should not be used and the supplier immediately notified.,
- Check the power cord is positioned so there is no risk of obstruction or potential injury.
- **Risk of explosion:**
Do not use in the presence of flammable chemicals or gases.
- **Risk of fire:**
Do not place near heat sources or naked flames.
- **Risk of electrocution:**
Ensure that the mains power is fully earthed.
Never partially or fully submerge electrical equipment in fluids.
Check the power cord is free from any damage.
Never handle the plug with wet hands.
Do not open the case. Any repairs should be made by qualified service engineers.
Do not spill food or liquids on the pump unit. *If spillage occurs, disconnect from the mains and allow to dry before re-use.*
- Do not use phenol based cleaning solutions on the mattress or cover.
- Do not place any components of the mattress system in either heat or steam autoclaves.

- **Risk of Suffocation:**

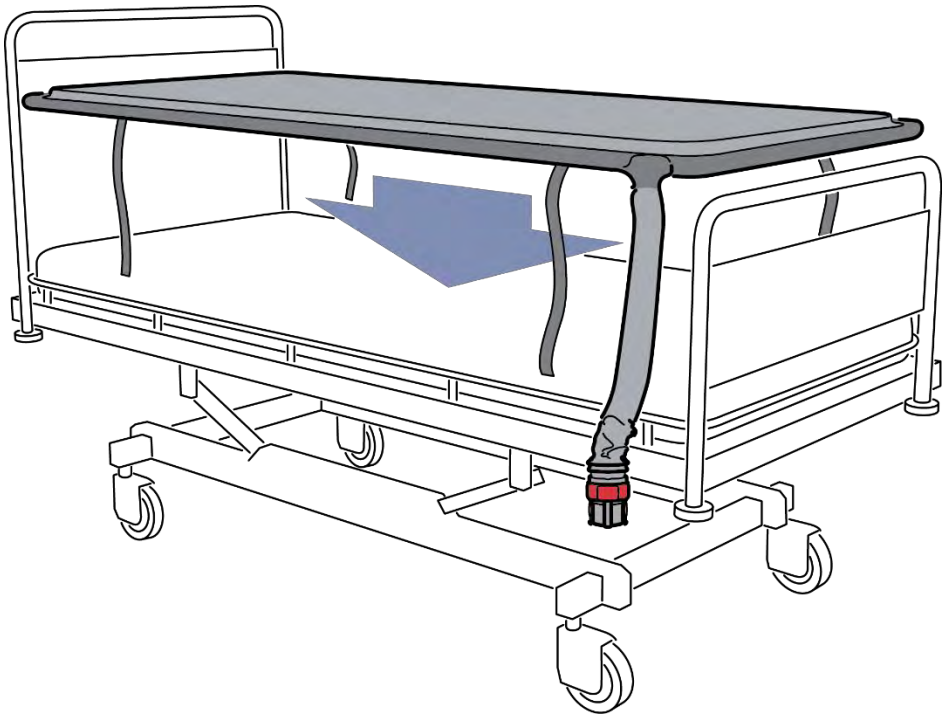
The cover is not air permeable. Ensure the patient can use the product safely.

- Do not drop the pump unit and do not drop objects onto it.
- Never use sharp objects on or near the mattress.
- Never insert objects into the pump.

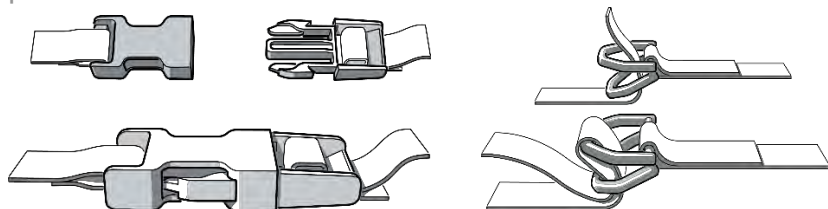
Installation

Please follow these instructions to install your NoDec[®] BARI mattress replacement safely and appropriately.

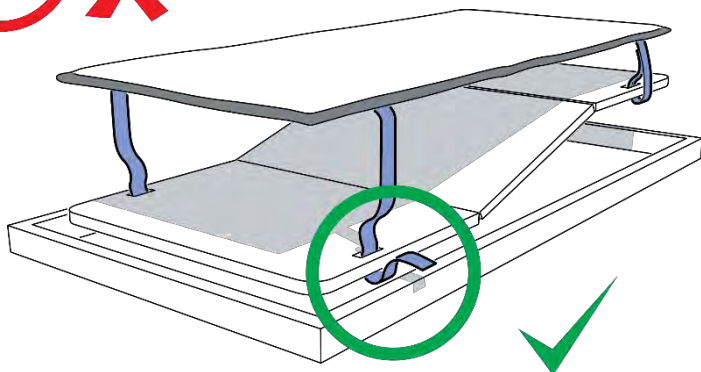
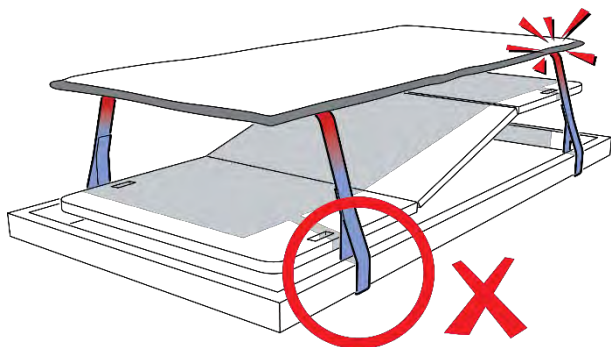
1. Place the mattress onto the bed frame, ensuring the light grey top cover is facing upwards and the air supply hose (umbilical) is positioned at the foot end of the bed.



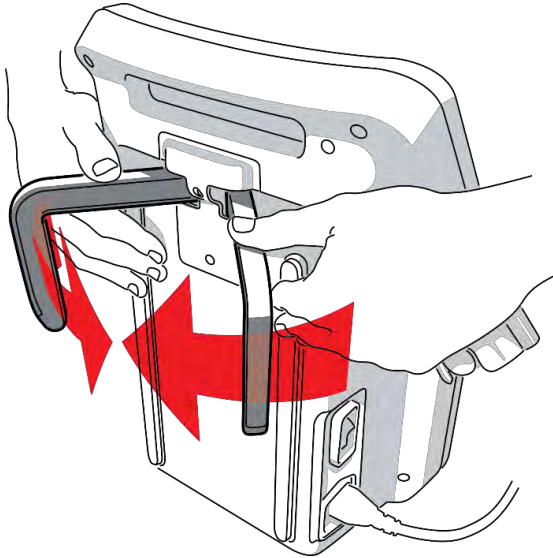
2. Secure the mattress to the bed using the straps and fasteners provided.



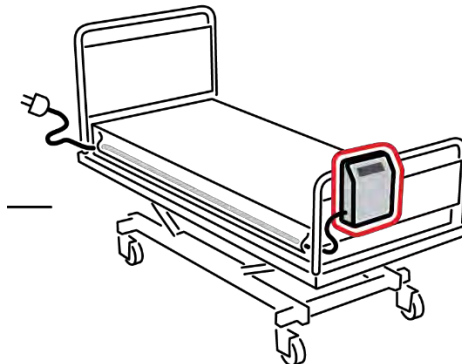
Ensure that fastened straps do not restrict the operation of any moving parts of the the hospital bed. Straps attached around both moving parts and fixed parts of a bed frame will cause severe damage to the mattress. After installation carefully test the functions of the bed to ensure the mattress moves freely with the bed platform.



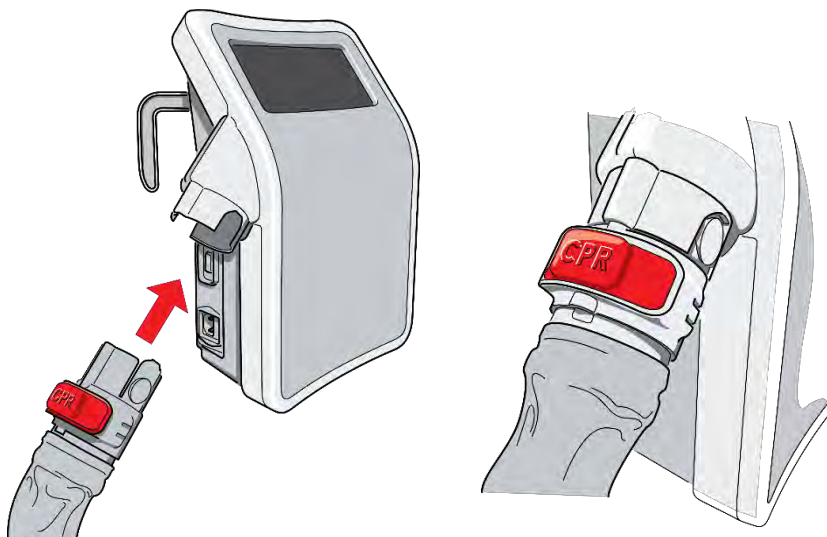
3. The hooks on the back of the NoDec® BARI have been designed to accommodate a variety of bed frames and can be adjusted easily by opening out the hooks and rotating. Once released they will clamp to the bed frame using spring pressure.



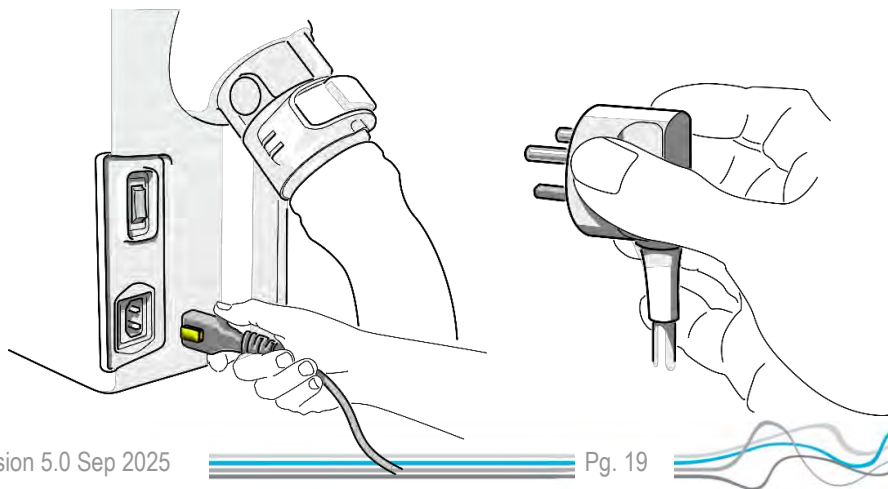
4. Hang the unit onto the bed frame at the foot end of the bed with the control panel facing outwards .



5. Check that the CPR clip is in the closed position and plug the umbilical hose into the dock .



6. Plug the power cable into the pump using the international connector and then plug the other end (*the main disconnection device*) into an **easily accessible** mains supply socket. Turn the unit on using the switch to the right of the unit's international plug socket.

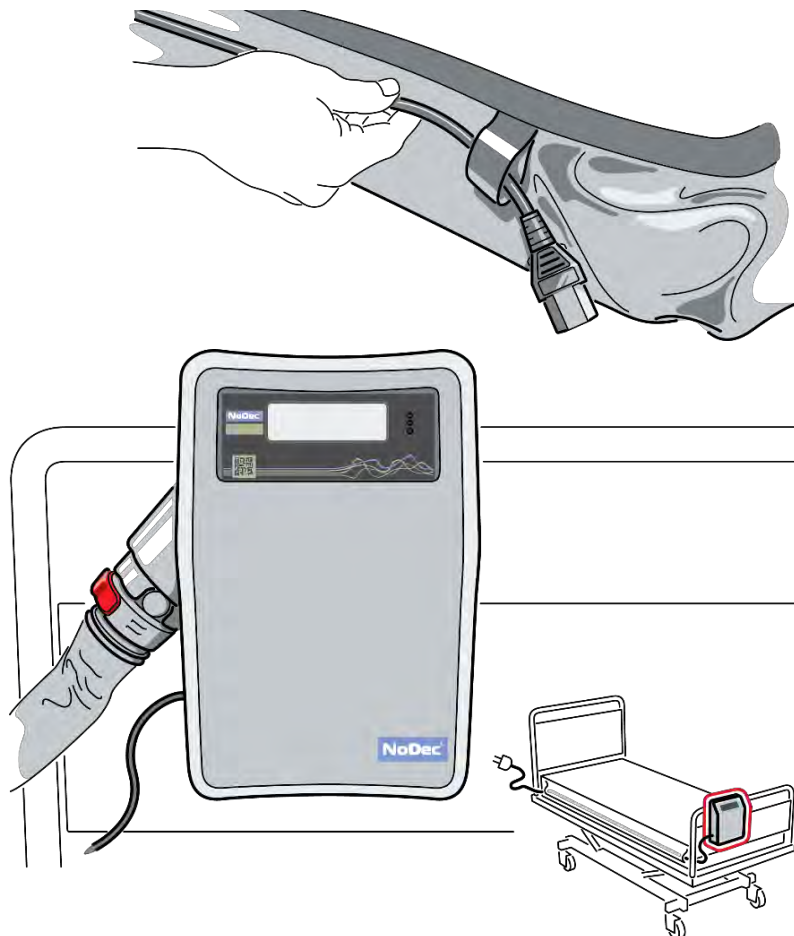




Due to the special design on the power cable's connection, it cannot be pulled out without pushing the yellow button. Ensure that the pump unit is positioned so this button is accessible.



Ensure that the power cable is safely guided through the loops located under the skirt (waterfall). This will help reduce any hazards in relation to the power cable.



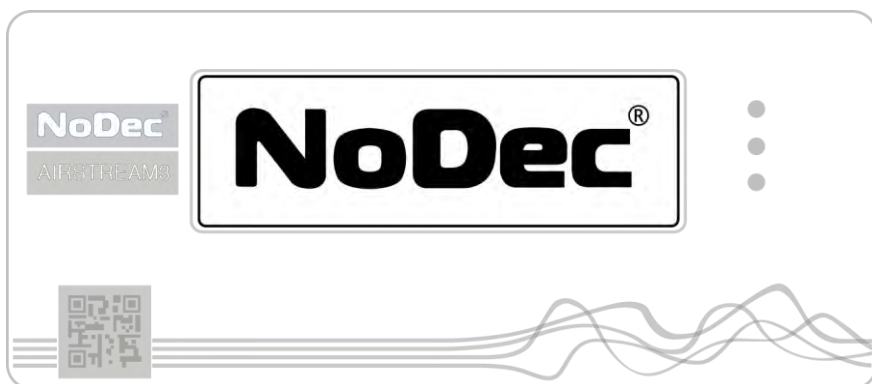
7. Wait for approximately 30 minutes and your NoDec® BARI Mattress Replacement System is ready for use.

Display Screens / Operation Modes

Before using your NoDec® BARI it is important to understand the touch screen display on the front panel of the pump unit and how to navigate through the various operation modes of the system.

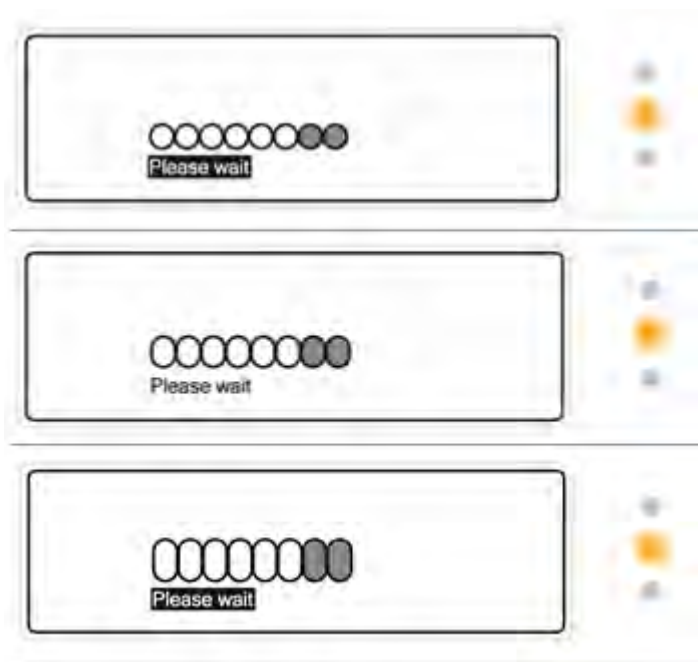
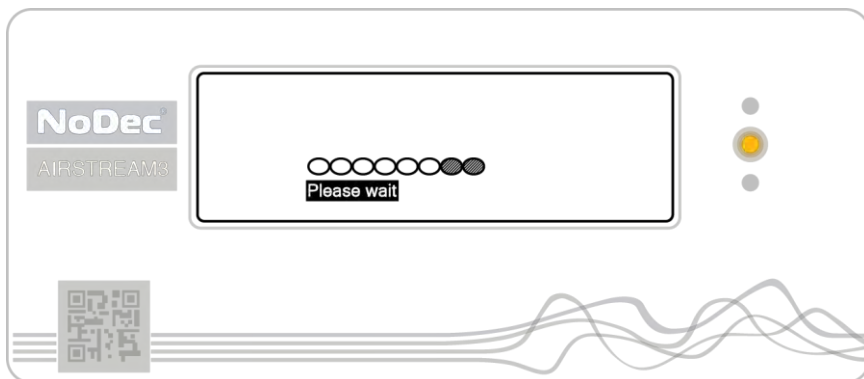
Turning On

As soon as the control unit is turned on the screen will light up and display the NoDec splash screen.



Loading

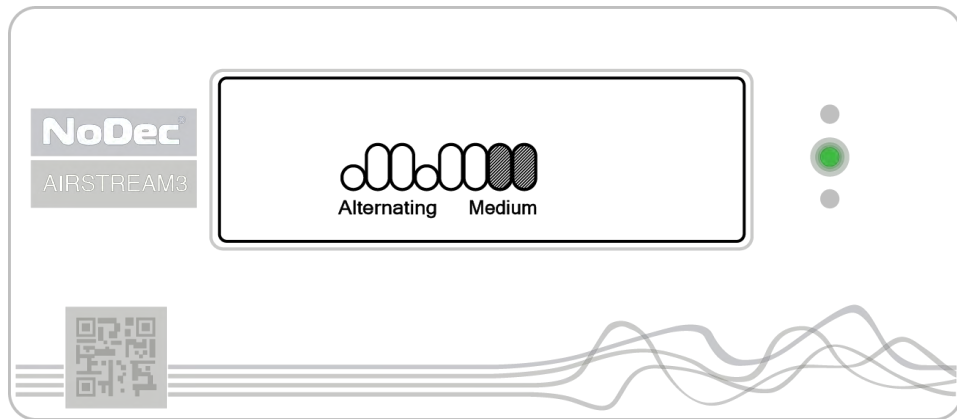
Automatically the system will begin to inflate the mattress and the screen will show 8 cells inflating simultaneously as 'Please wait' flashes. An amber LED illuminates continuously until the mattress is ready to use.



N.B. During this inflation period it is not possible to change any settings.

Automatic Alternating Mode

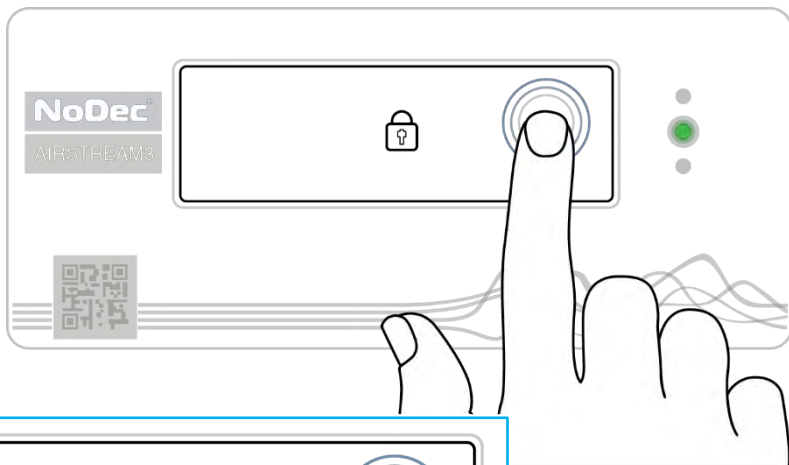
Once the unit has inflated the mattress it will automatically default to Alternating Mode and calibrate to the patients weight. The following screen will be displayed and the LED will turn green.



Unlocking

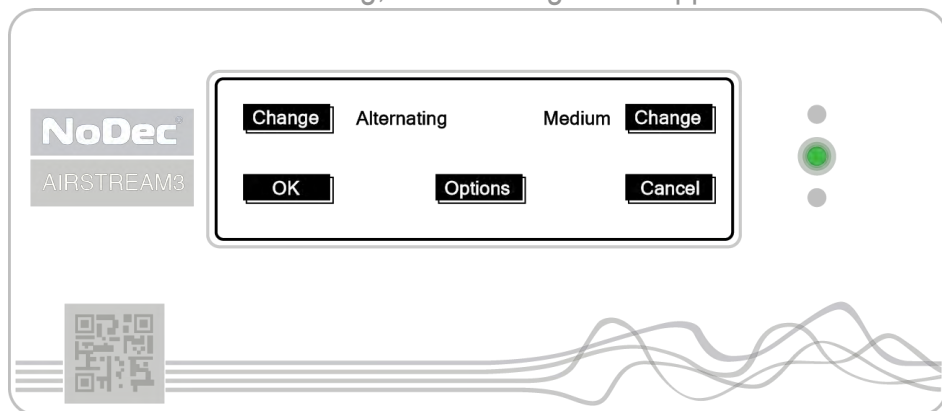
If the user wishes to change the mode or settings they must unlock the display screen first. By pressing and holding down on the touch screen a padlock is displayed. To unlock the touch screen press and hold until the padlock is fully open and the User Settings menu is shown.

Unlocking the Screen



Keep the screen slightly pressed until the lock opens.

After releasing, the following menu appears:



After 20 seconds of inactivity, the system will automatically lock out the display touch screen.

User Settings

The NoDec® BARI has a total of 3 different modes, some of these have additional options for pressure settings:

- **Alternating Mode**

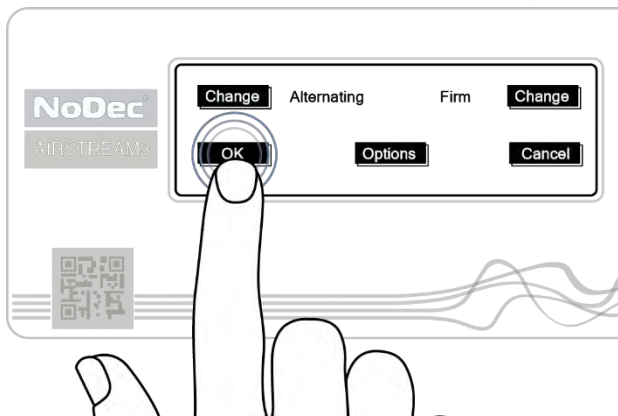
- *Soft*
- *Medium*
- *Firm*

- **Static Mode**

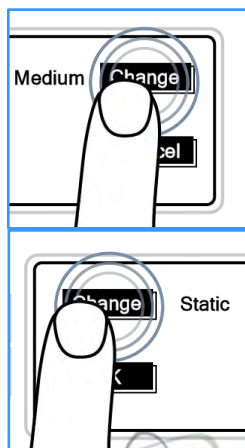
- *Soft*
- *Medium*
- *Firm*

- **Maximum Inflation**

When pressing the different 'Change' buttons displayed the user can cycle through the different options until the desired mode is found. Touch the 'OK' button displayed on the screen to confirm selection.

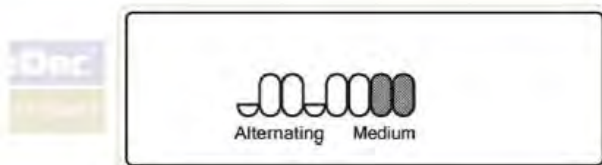
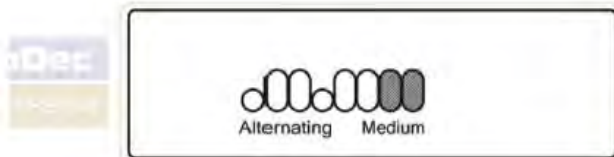
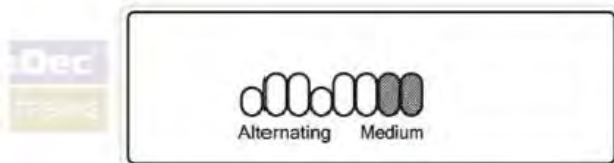
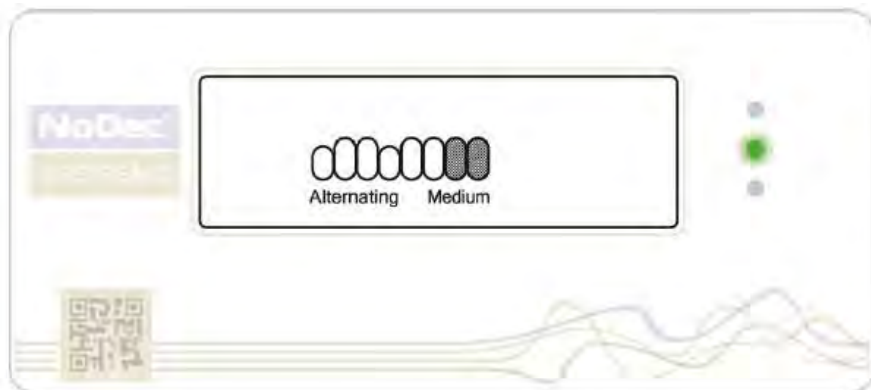


N.B.: To return to normal operation without making any changes, press the Cancel button.



Alternating Mode

On Start-up the system defaults to Alternating mode and automatically calibrates to patient weight and body position.



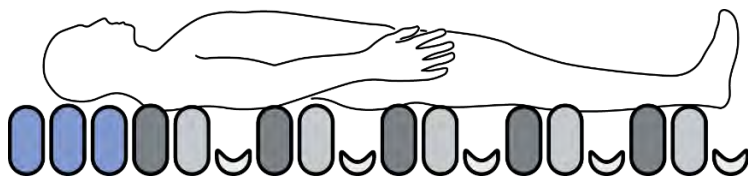
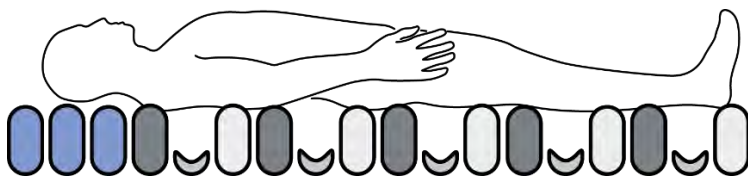
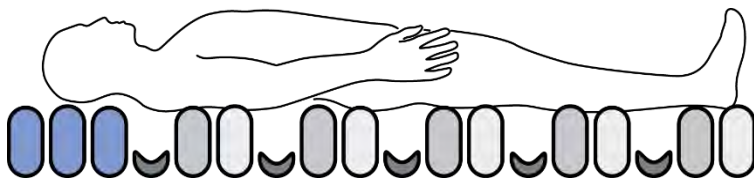
As the control unit deflates the cells the Display Screen reflects the mattress' behaviour in real time.

During 'Alternating Mode' the air cells inflate and deflate in a 1 in 3 pattern with a cycle time of 7.5 or 15 minutes depending on regional preferences.

When the "A" cell's air is sucked out, pressure is completely removed in the portion of the body originally in contact with those cells.

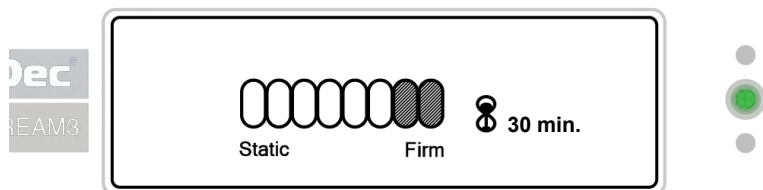
After 2.5 (or 5 minutes, depending on cycle time) the "A" cells re-inflate and the "B" cells deflate for the next 2.5 minutes. This is then repeated for the "C" cells.

Over the 7.5/15 minute cycle, contact pressure is completely removed routinely from all parts of the body in contact with the active components of the mattress.

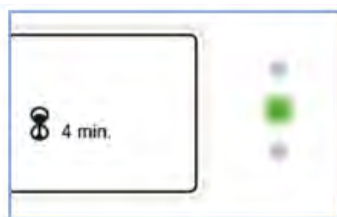
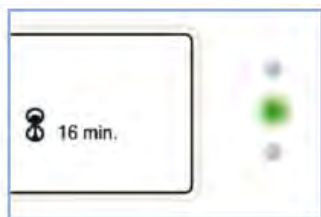


Static Mode

In this mode all cells are inflated, the mattress calibrates to patient weight and then remains in static mode. After a preset period of 30 mins, this mode will revert to alternating mode. This is for patient safety and to reduce further potential problems with pressure ulcers.



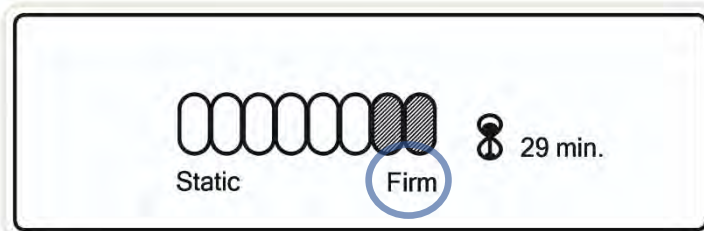
N.B. Depending on the regional preferences this timer may be set to 30 mins, 2 hrs or unlimited.



The static mode may be useful in examining a patient who has recovered from pressure ulcers. The patient does not need to be placed on another mattress for the exam and if decubitus should recur, the appropriate care may be continued and the unit set to alternating pressure mode. The static mode is also often used to support care such as washing the patient or physiotherapy.

Changing Pressure Settings

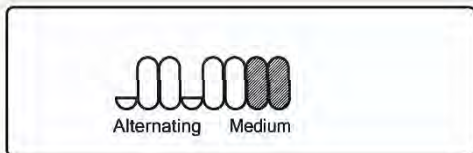
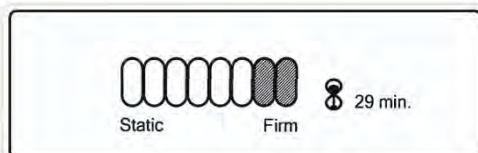
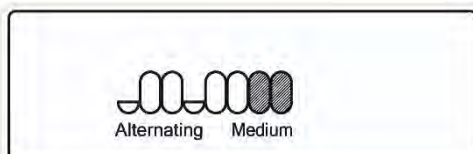
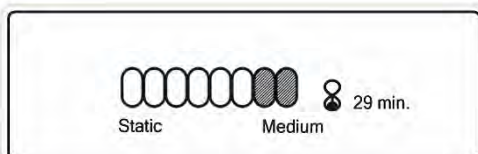
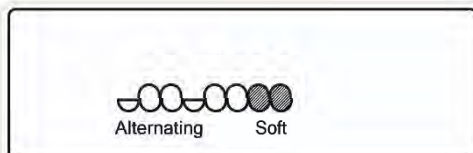
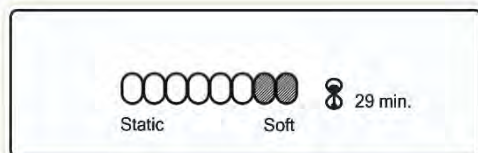
Changing between Soft, Medium and Firm pressure settings is very simple. The current pressure setting is displayed beneath the 'Head cells'.



There are also clear differences between the sizes of the cells shown in different pressure modes.

STATIC

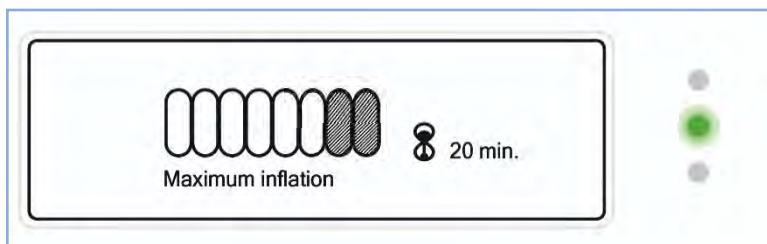
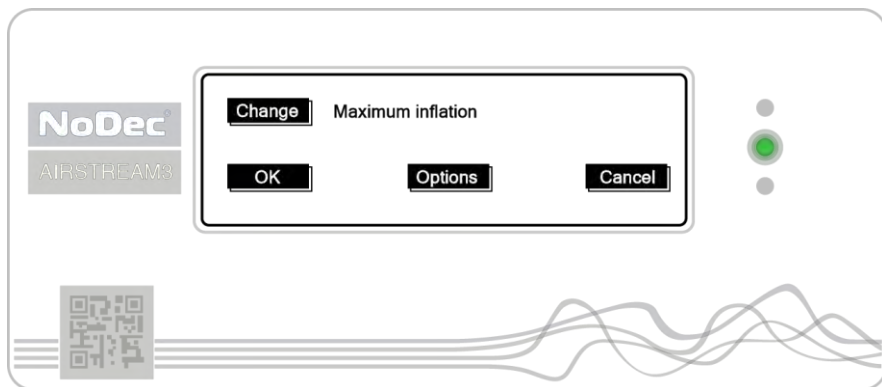
ALTERNATING



The pressure settings "Soft" and "Medium" are more suited for the comfort of small and underweight patients. The pressure setting "Soft" is only suitable for patients weighing 60 kg or less.

Maximum Inflation Mode

The mattress is fully inflated to an 'Extra Firm' pressure setting in order to replicate a normal hospital mattress. This mode is useful for evaluating a patient who has recovered from pressure ulcers. The patient does not need to be moved to another mattress for evaluation and if pressure ulcers return then pressure care should continue and the control unit set to alternating mode.

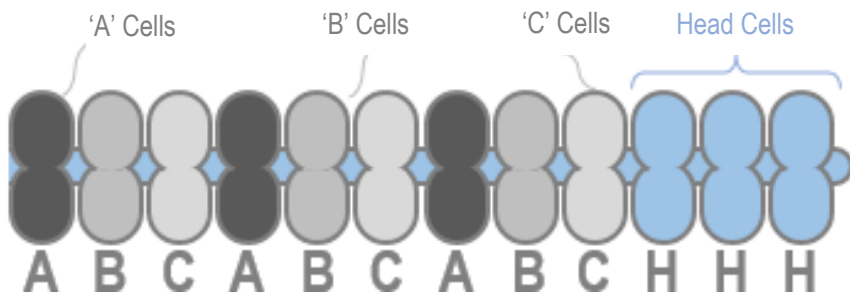


N.B. For patient protection this mode has a preset time period of 20 minutes.

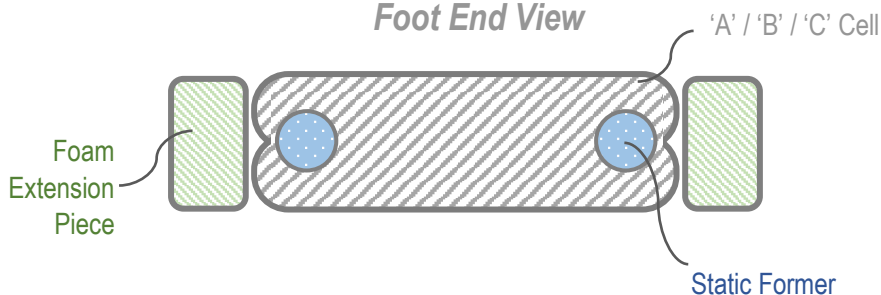
Mattress Construction

The NoDec® BARI mattress is made up of 26 single air cells and two internal side formers. There is also the addition of two foam extensions pieces which can be used with extending bariatric beds. The mattress size of 90cm can be extended to both 100cm and 120cm through the use of foam bolsters. These bolsters can be removed or inserted accordingly.

Mattress Side Profile



Foot End View

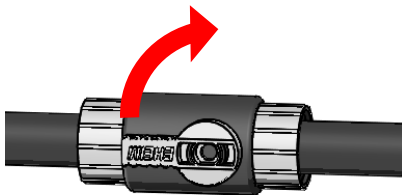


Patient Dismount Feature

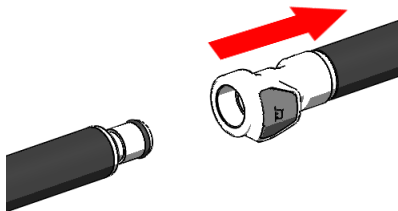
Included within the mattress design is a special feature that aids bariatric patients getting off the mattress by deflating the middle section.

Following the “Deflation” arrow on the mattress cover, the caregiver must remove any foam extension pieces before proceeding.

- Set the Pump onto **Static Mode** (page 26)
- Have the patient sat up on side of the mattress indicated by the “Exit” arrow.
- Approach the “Deflation” side and unzip the bottom cover from the head end of the mattress, this will reveal three taps.
- Turn each tap in sequence as follows:



- Towards the foot end of the mattress, unclip three visible valves as follows:



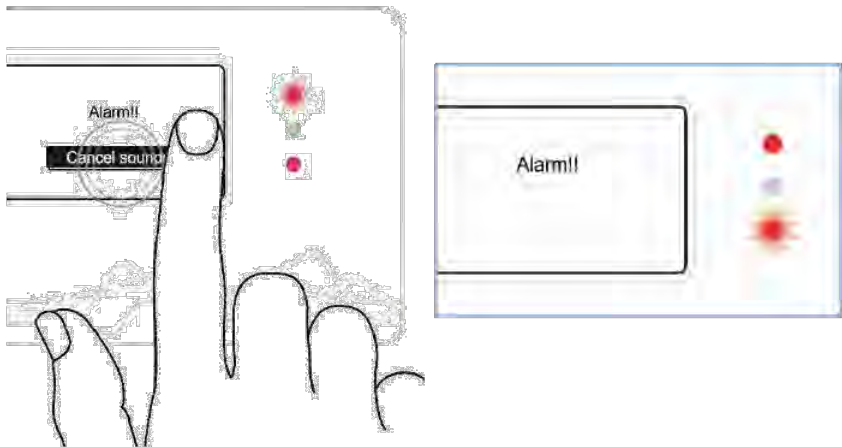
- The middle section will deflate and the patient can be easily removed from the mattress.



Ensure that the mattress is returned to it's normal use before giving any patient care by following these steps in reverse.

Alarms

Each of the following alarm displays will be accompanied by a fixed tone audible alarm. The audible alarm can be cancelled by pressing the “*Cancel Sounder*” Button, however if the cause of the alarm is not resolved after 15 minutes the audible alarm will reactivate.

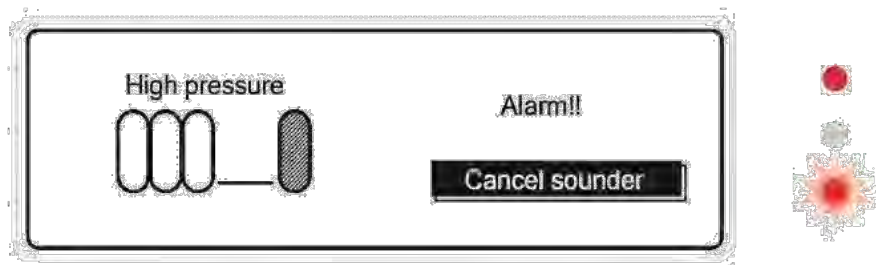


To turn off the alarm permanently, or reset the pump after fixing the cause of the alarm, simply switch the pump unit off and then on again.

ALL ALARM CONDITIONS ARE SHOWN BY ALTERNATING
FLASHING RED LEDS

High Pressure Alarm

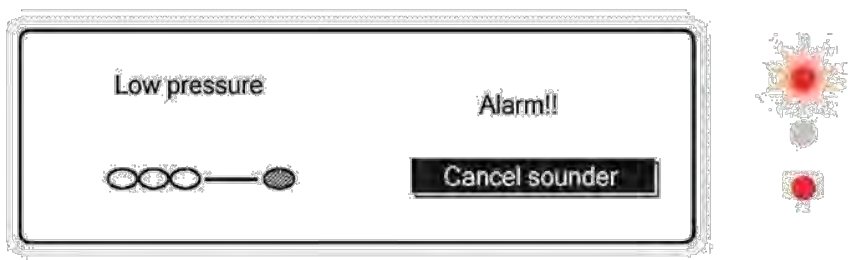
This condition could be caused by an over pressure in the mattress e.g. by another person sitting on the mattress. This alarm is shown by the following screen, accompanied by the **two LEDs flashing RED**.



To resolve this issue, carefully push the CPR button and let out a small amount of air and then re attach the hose end. Reset the pump afterwards. Persistent high pressure alarms may indicate an internal fault. If it occurs mattress system use should cease. The pump should immediately be sent for servicing

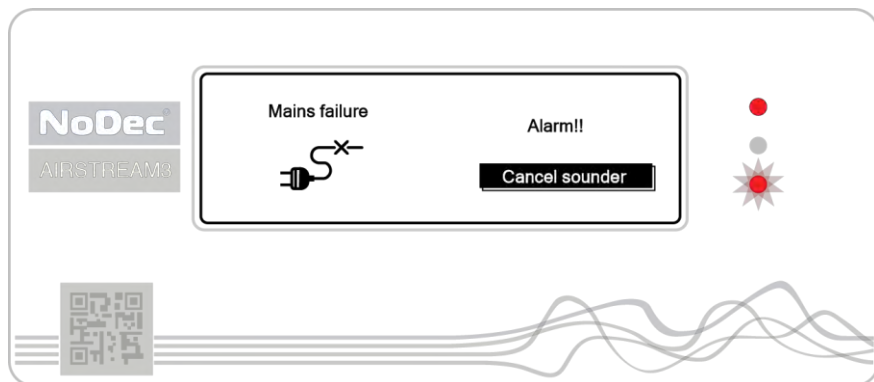
Low Pressure Alarm

This condition could be caused by releasing the CPR valve or a leak in the mattress. This alarm is shown by the following screen, accompanied by the **two LEDs flashing RED**.



Power Failure Alarm

If there is a failure of the mains power supply or the unit is accidentally unplugged from the mains then the following screen is shown, accompanied by the **two LEDs flashing RED**.

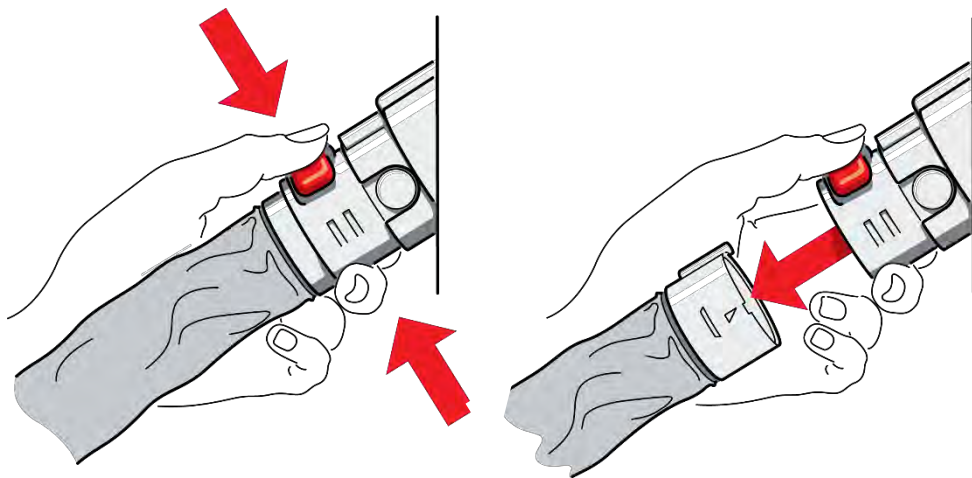


It is possible to resolve this alarm by simply plugging the power cable back into the mains, without the need to reset the control unit however this depends on the region.

N.B. *The Power Failure Alarm is powered through a small battery. The sole function of this battery is to operate the alarm in case of a mains power failure.*

CPR Emergency

In the case of a patient emergency where CPR may be necessary, the NoDec[®] BARI has been equipped with a CPR release which rapidly deflates the mattress so that cardiac resuscitation can be performed on a firm surface.



To deploy this emergency system, simply grip the CPR unit and push the RED BUTTON. The hose end closest to the mattress should spring out and the mattress will rapidly deflate.



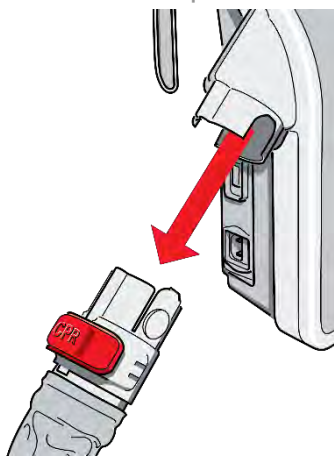
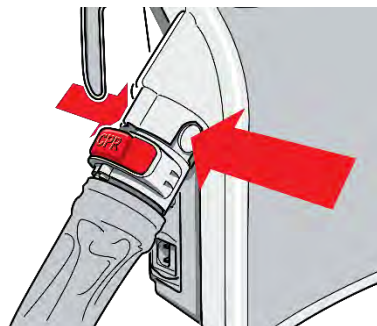
Ensure that after the CPR release has been disconnected, and CPR is complete, the hose end is pushed back in until an audible click is heard from the Red Button and then the pump is reset.

Transport Mode

In this configuration the mattress can be transported easily around the hospital.

Preparation

When separating the pump unit from the mattress the unit should first be SET TO STATIC MODE. When all cells are inflated the pump should be SWITCHED OFF and the umbilical hose separated.



Simply push the buttons on the sides of the umbilical dock and the umbilical will disconnect. The mattress itself will remain inflated for several hours.

Storage (and Shipping)

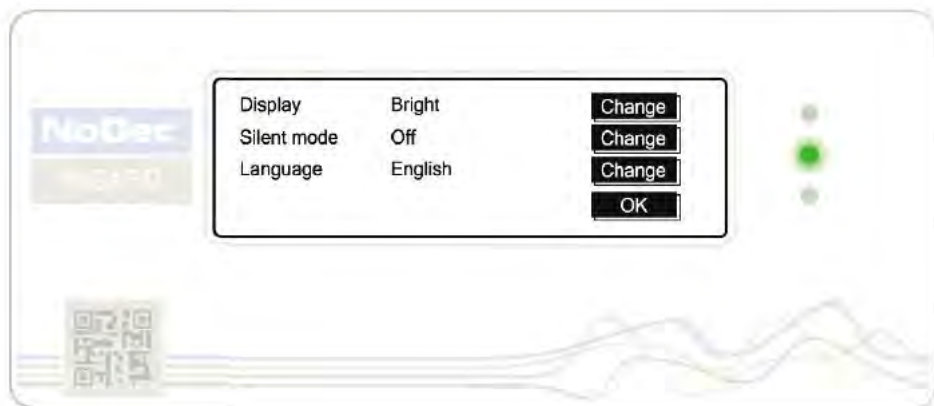
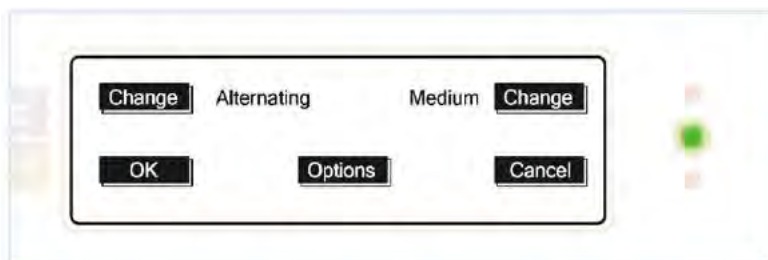
The Power Unit should be stored standing upright in a vertical manner NOT laid flat. The following conditions should apply, where possible, for the longevity of internal components:

Ambient Temperature	+10°C – +30°C
Relative Humidity	10% – 100% non condensing
Atmospheric Pressure	700hPA – 1060hPA

Further Screen Options

Options Menu Screen

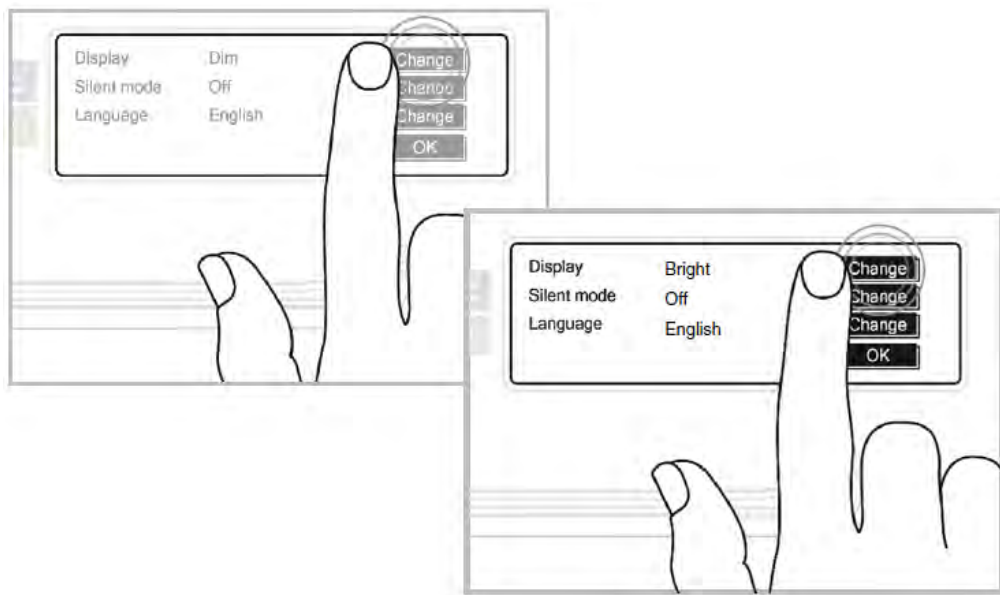
To access the options menu screen simply unlock the display and press 'Options'. The following Menu will be shown.



Here it is possible to 'Dim' the display and turn on 'Silent Mode', both of which may be useful during night hours in a hospital ward environment.

Display Brightness

By pressing 'Change' as shown, this will 'Dim' or 'Brighten' the display.



Silent Mode

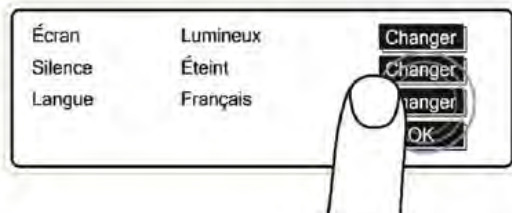
*By pressing 'Change', this will turn Silent Mode 'On' or 'Off'.
The Display will not make a sound upon touching the screen*



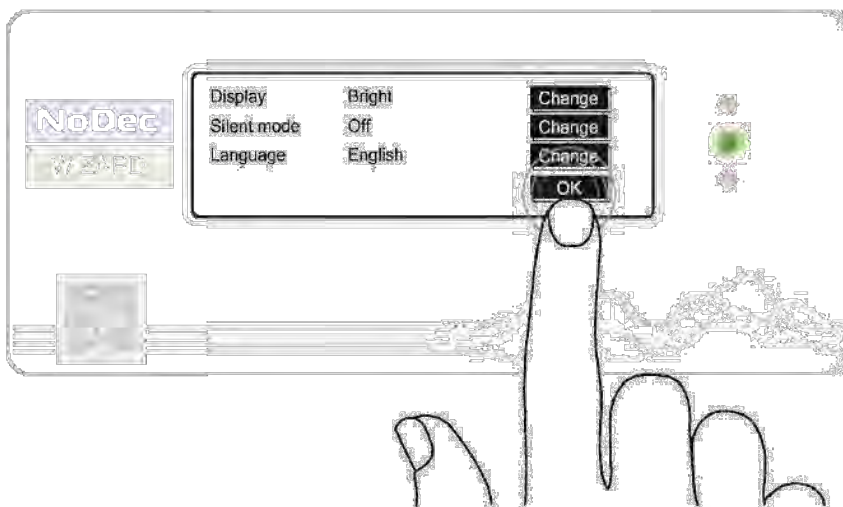
Even when Silent Mode is selected, an audible warning will still sound under alarm conditions.

Changing Language

By pressing 'Change' multiple times the control unit will cycle through preselected languages depending on geographical regions. If you cannot find the required language please contact your distributor.



After making all required selections, press 'OK' to ensure that all changes are made.



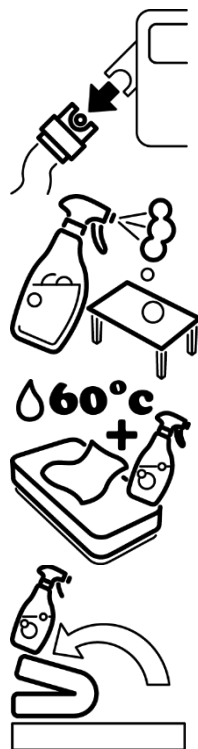
Cleaning and Maintenance

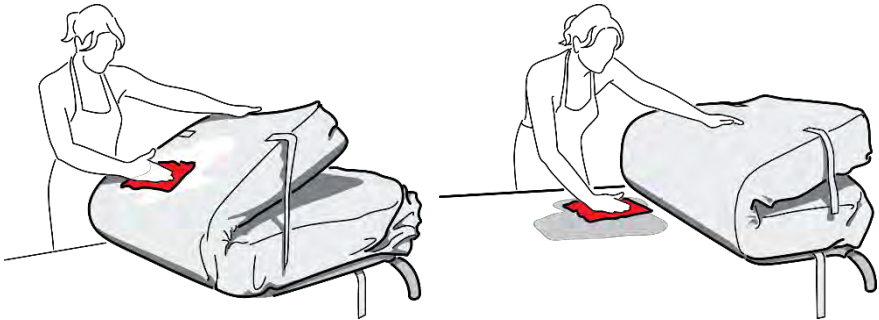
Cleaning Procedures

Cleaning the mattress system every week is recommended, or sooner if heavily soiled. Please make sure that hands are cleaned and appropriate protective clothing is worn before commencing the cleaning process.

Cleaning the mattress

1. *Leave the cover on the mattress and disconnect the mattress from the unit.*
2. *Clean the surface of the wash-down table with hypochlorite solution or an equivalent disinfectant.*
3. *Wash mattress top cover using hot water (60 °C) and detergent. Dry with a paper towel.*
4. *Fold mattress in half-length ways and clean both the table and the exposed mattress.*

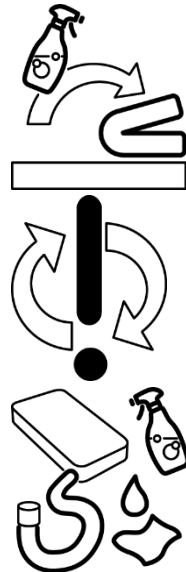




5. Turn over mattress so the other bottom half is exposed and clean both mattress and table.

6. Repeat Steps 3 – 5 using hypochlorite solution or equivalent disinfectant.

7. Wipe the umbilical hose with hot water and detergent. Dry with a paper towel and repeat wiping down using hypochlorite or equivalent solution.



If required, the cover can be removed and machine-washed at a temperature of **80 - 90 °C for a minimum of 10 minutes**.

For general disinfectant purposes a hypochlorite solution (or similar) of 1,000 ppm should be used. For any covers contaminated with organic matter use a solution of 10,000 ppm.

The cover may also be sterilised using ETO or Draeger processes.

Cleaning the Pump Unit

The Pump Unit can be cleaned by wiping a cloth dampened by a disinfectant solution or sterilised using ETO or Draeger processes



Ensure the unit is disconnected from the mains electricity supply before cleaning.

DO NOT autoclave the mattress or pump unit

Maintenance



Only qualified technicians, trained or formally approved by Rober Limited, may carry out maintenance, modifications or repairs on the mattress system.



NO maintenance or servicing should take place while the Mattress System is in use. Ensure that the patient is clear of the system, when carrying out maintenance.

Technical Parameters

Power Unit

Model	NoDec® BARI
Dimensions (L x W x H)	350 x 180 x 380 mm
Weight	6.8 kg
Power Supply	230 V ~ ±10%, 50 / 60 Hz
Power Consumption	max. 40W
Current	0.35A
Ingress Protection Rating	IP42
Classification	Class B Medical Device Class II protection (certified to class 1)
Fuses	2 x T 1,6 A, 250 V ~ 5 x 20 mm
Operating Cycle	Continuous
Flammability Rating	UL94 V-0
Ambient Temperature	+10°C to +30°C
Relative Humidity	30% – 75% non condensing
Atmospheric Pressure	700hPA – 1060hPA

Mattress

Model	NoDec® BARI
Dimensions (L x W x H)	2000 x 900 x 200 mm (<i>standard size</i>) 2000 x 1000 x 200 mm (<i>inc. foam bolster</i>) 2000 x 1200 x 200 mm (<i>inc. foam bolster</i>)
Number of Cells	27
Weight	11 kg
Mattress Material	PU
Cover Material	Dartex / PVC Coated Nylon
Flammability Rating	Complies with BS7175 Ignition Source 0, 1 and 5
Maximum Weight of Patient	400kg

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Your local distributor is:-



Registered Manufacturer

Rober Limited, Wheatbridge Road, Chesterfield, Derbyshire. UK. S40 2AB

Tele: +44(0)1246 245404 www.roberlimited.com



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Advena Ltd. Tower Business Centre, 2nd Flr, Tower
Street, Swatar, BKR 4013, Malta.