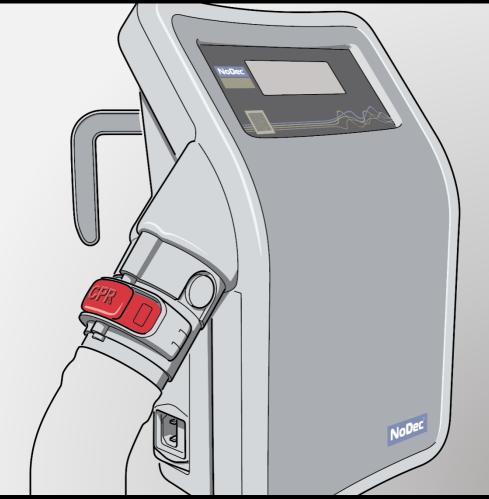


roberlimited.com





USER INSTRUCTION MANUAL



(FOAM COMBO)



BARI USER NODEC® BARI USER INSTRUCTIONS FOR USE INSTRUCTIONS FOR USE Version 2.1 Oct 2018



Version 2.1 Oct 2018

Pg. 3



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	Update to Graphics
2.1	Ben Smith	Oct '18	M Hutson	Oct '18	Update to customer specific mattress





Contents

Introduction	7
Further Information	8
Contraindications	9
Description of Symbols	9
List of Components	.10
General Cautions / Warnings	.12
Installation	.14
Display Screens / Operation Modes	.19
Turning On	. 19
Loading	. 20
Automatic Alternating Mode	. 21
Unlocking	. 21
Unlocking the Screen	. 22
User Settings	. 23
Alternating Mode	. 24
Static Mode	. 26
Changing Pressure Settings	. 27
Maximum Inflation Mode	. 28
Mattress Construction	.28
Patient Dismount Feature	. 29
Alarms	.31
High Pressure Alarm	. 32
Low Pressure Alarm	. 32
Power Failure Alarm	. 33
CPR Emergency	.34
Transport Mode	.35
Preparation	\sim
Version 2.1 Oct 2018 Pa 5	X

ROBER

NoDec[®] BARI (Foam Combo) Instructions for Use

Storage (and Shipping)	35
Further Screen Options	
Options Menu Screen	
Display Brightness	37
Silent Mode	37
Changing Language	38
Cleaning and Maintenance	
Cleaning Procedures	
Cleaning the mattress	39
Cleaning the Pump Unit	41
Maintenance	41
Technical Parameters	42
Power Unit	42
Mattress	42



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 Mark.

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





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.

/ersion 2.1 Oct 2018

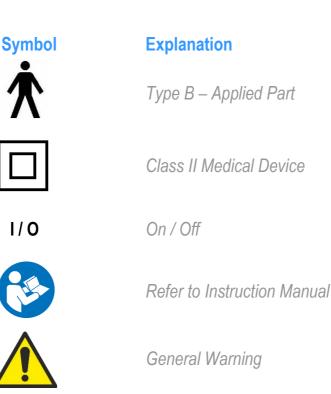


Contraindications

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:







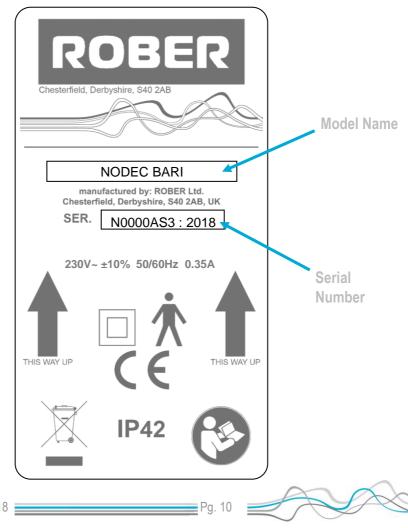


List of Components

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.

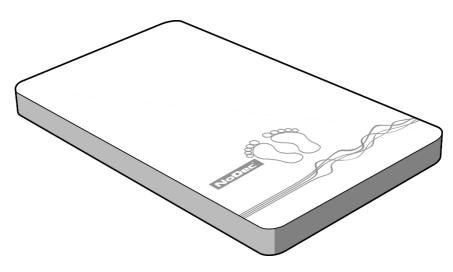


Version 2.1 Oct 2018



NoDec[®] BARI (Foam Combo) Instructions for Use

• 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.

Version 2.1 Oct 2018

12



- **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.

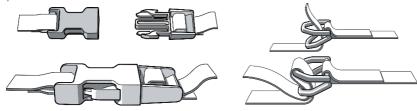
 Place the mattress onto the bed frame, ensuring the light grey top cover is facing upwards and the air supply hose (umbilical) is positioned at the foot end of the bed.





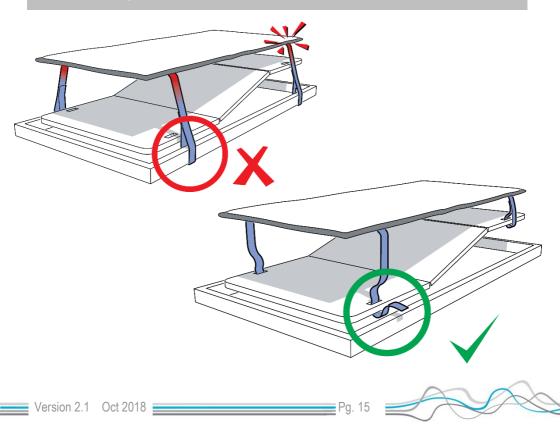
NoDec[®] BARI (Foam Combo)

- Instructions for Use
- 2. Secure the mattress to the bed using the straps and fasteners provided.



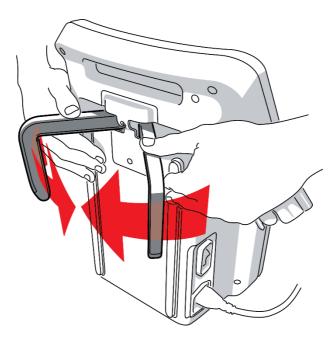


Ensure that fastened straps do not restrict the operation of any moving parts of the the hospital bed. Straps attached around both moving parts and fixed parts of a bed frame will cause severe damage to the mattress. After installation carefully test the functions of the bed to ensure the mattress moves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

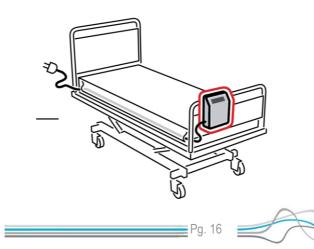




3. The hooks on the back of the NoDec[®] BARI have been designed to accommodate a variety of bed frames and can be adjusted easily by pushing down on the hooks and rotating.



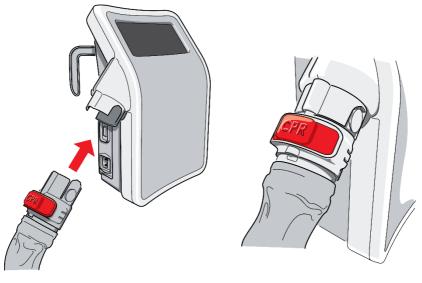
4. Hang the unit onto the bed frame at the foot end of the bed with the control panel facing outwards .



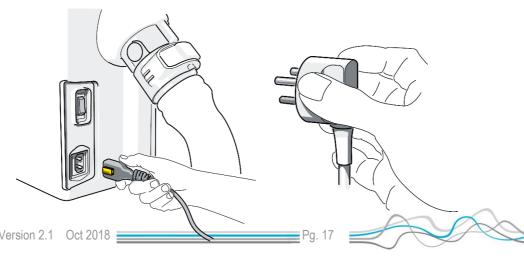




5. Check that the CPR clip is in the closed position and plug the umbilical hose into the dock .



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





NoDec[®] BARI (Foam Combo)



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.





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.

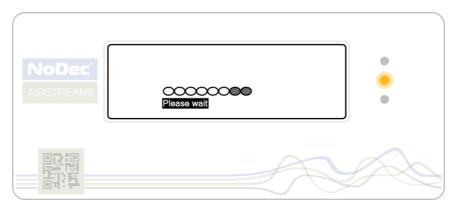


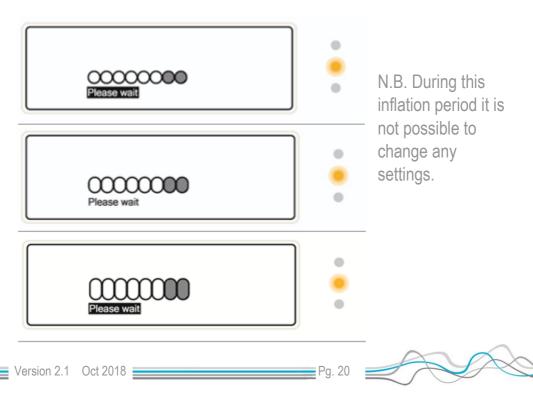




Loading

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.

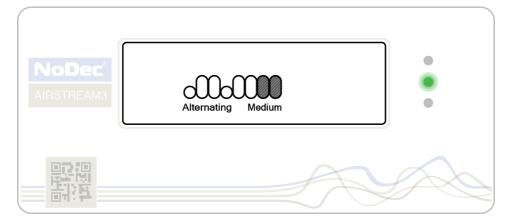






Automatic Alternating Mode

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 dispayed and the LED will turn green.



Unlocking

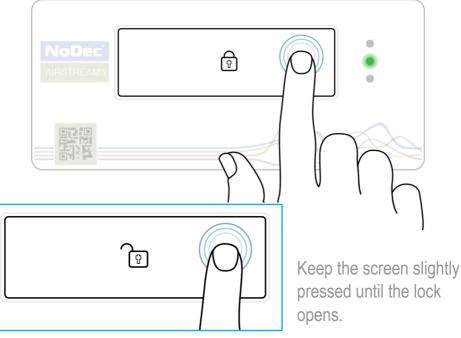
If the user wishes to change the mode or settings they must unlock the display screen first. By pressing and holding down on the touch screen a padlock is displayed. To unlock the touch screen press and hold until the padlock is fully open and the User Settings menu is shown.



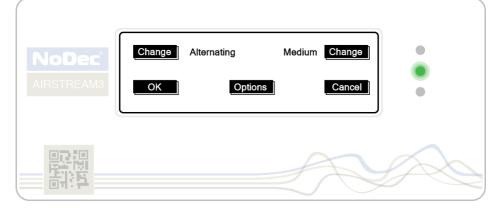


NoDec[®] BARI (Foam Combo) Instructions for Use

Unlocking the Screen



After releasing, the following menu appears:



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

Pg. 22





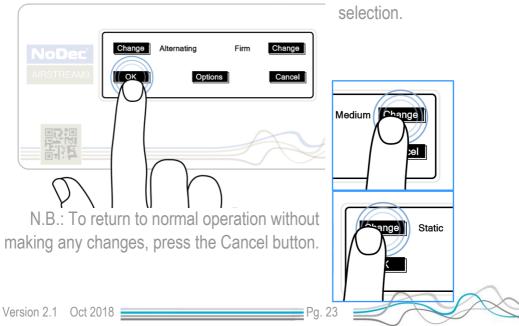
User Settings

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

- Alternating Mode
 - o Soft
 - o Medium
 - o Firm
- Static Mode
 - o Soft
 - o Medium
 - o Firm

Maximum Inflation

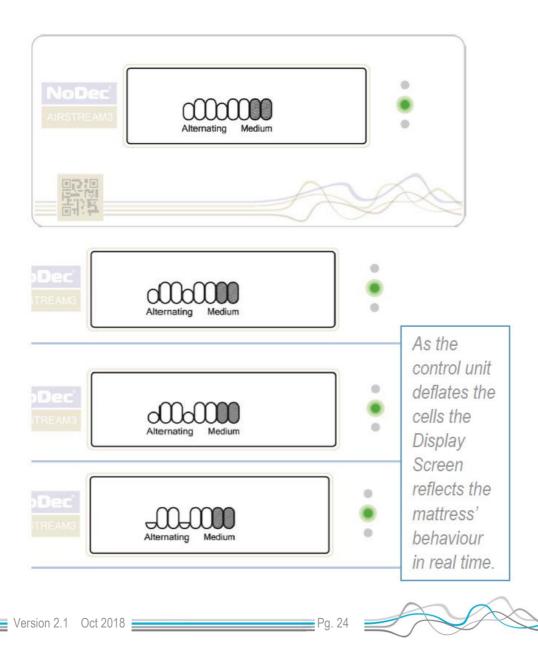
When pressing the different 'Change' buttons displayed the user can cycle through the different options until the desired mode is found. Touch the 'OK' button displayed on the screen to confirm





Alternating Mode

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



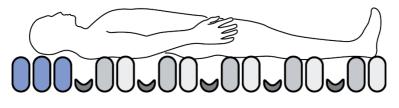


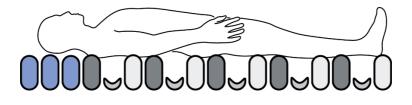
During 'Alternating Mode' the air cells inflate and deflate in a 1 in 3 pattern with a cycle time of 7.5 or 15 minutes depending on regional preferences.

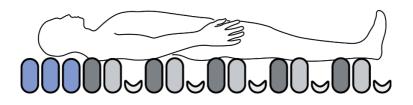
When the "A" cell's air is sucked out, pressure is completely removed in the portion of the body originally in contact with those cells.

After 2.5 (or 5 minutes, depending on cycle time) the "A" cells reinflate 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.



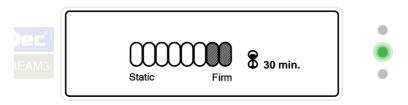




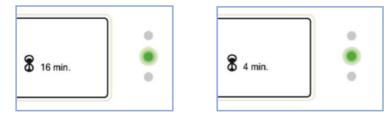


Static Mode

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.



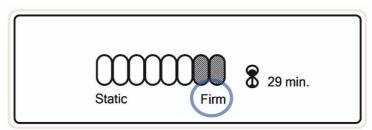
The static mode may be useful in examining a patient who has recovered from pressure ulcers. The patient does not need to be placed on another mattress for the exam and if decubitus should recur, the appropriate care may be continued and the unit set to alternating pressure mode. The static mode is also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





Changing Pressure Settings

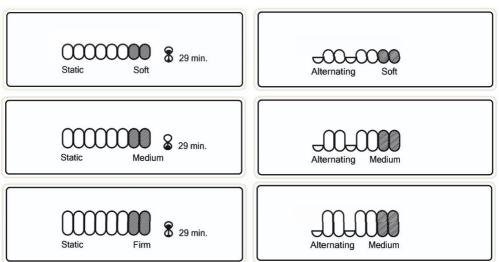
Changing between Soft, Medium and Firm pressure settings is very simple. The current pressure setting is displayed beneath the 'Head cells'.



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.

NoDec	Change Maximum inflation
AIRSTREAM3	OK Options Cancel

Maximum inflation 8 20 min.	
-----------------------------	--

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

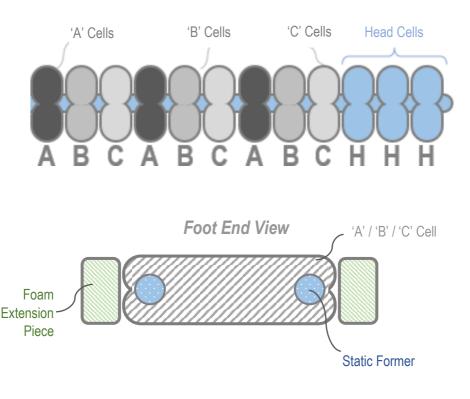
Mattress Construction





NoDec[®] BARI (Foam Combo)

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

Patient Dismount Feature





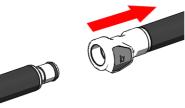
Included within the mattress design is a special feature that aids bariatric patients getting off the mattress by deflating the middle section.

Following the "Deflation" arrow on the mattress cover, the caregive 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.



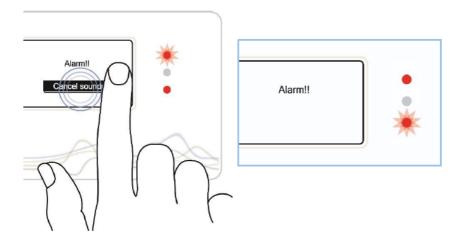
Ensure that the mattress is returned to it's normal use before giving any patient care by following these steps in reverse.





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.

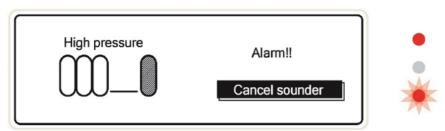
ALL ALARM CONDITIONS ARE SHOWN BY ALTERNATING **FLASHING RED LEDS**





High Pressure Alarm

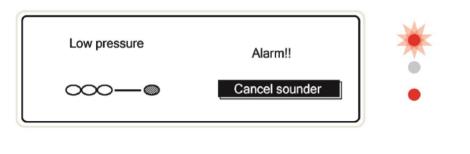
This condition could be caused by an over pressure in the mattress e.g. by another person sitting on the mattress. This alarm is shown by the following screen, accompanied by the **two LEDs flashing RED**.



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 if this 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**.

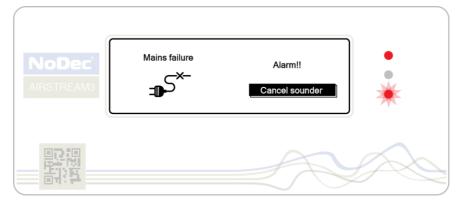






Power Failure Alarm

If there is a failure of the mains power supply or the unit is accidently 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.

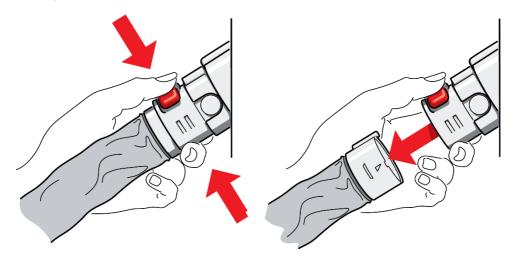
N.B. The Power Failure Alarm is powered through a small battery. The sole function of this battery is to operate the alarm in case of a mains power failure.





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.



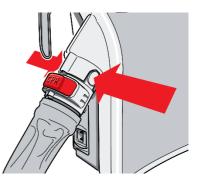
ROBER

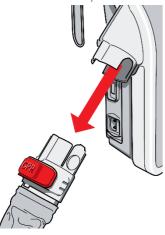
Transport Mode

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 seperated.





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

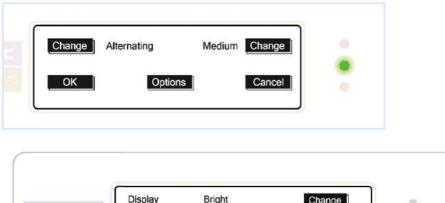




Further Screen Options

Options Menu Screen

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



NoDec WIZARD	Display Silent mode Language	Bright Off English	Change Change Change OK	•
			A	A

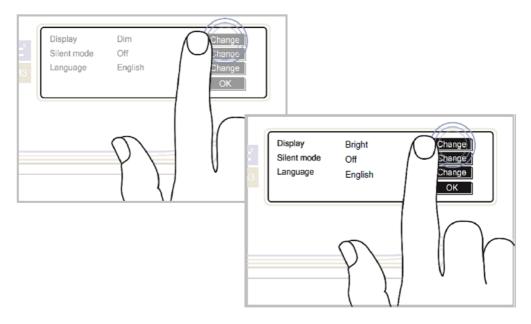
Here it is possible to 'Dim' the display and turn on 'Silent Mode', both of which may be useful during night hours in a hospital ward environment.





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



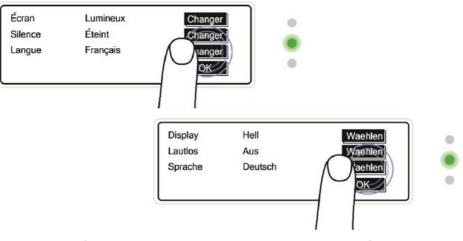
Even when Silent Mode is selected, an audible warning will still sound under alarm conditions.



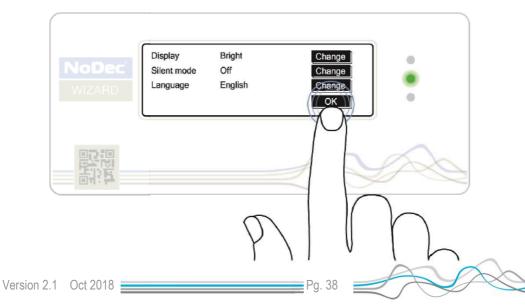


Changing Language

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.

Clean the surface of the wash-down table

2. with hypochlorite solution or an equivalent disinfectant.

Wash mattress top cover using hot water

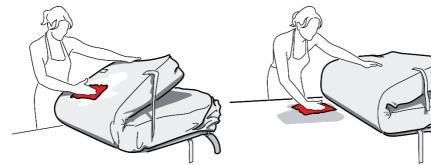
- **3.** (60 °C) and detergent. Dry with a paper towel.
- Fold mattress in half-length ways andclean both the table and the exposed mattress.







NoDec[®] BARI (Foam Combo)



Turn over mattress so the other bottomhalf is exposed and clean both mattress and table.

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

Wipe the umbilical hose with hot water and detergent. Dry with a paper towel and

7. 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 by sterilised using ETO or Draeger processes.

Pg. 40



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
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	
	2000 x 900 x 200 mm (standard size)	
Dimensions (L x W x H)	2000 x 1000 x 200 mm (inc. foam bolster)	
	2000 x 1200 x 200 mm (inc. foam bolster)	
Number of Cells	26	
Weight	11 kg	
Matrress Material	PU	
Cover Material	Dartex / PVC Coated Nylon	
Elemmebility Deting	Complies with BS7175 Ignition Source	
Flammability Rating	0, 1 and 5	
Maximum Weight of Patient	400kg	



Rober Limited

Wheatbridge Road Chesterfield Derbyshire S40 2AB UK t +44 (0)1246 245404

- **f** +44 (0)1246 245400
- e info@roberlimited.com

Benmor Medical (UK) Ltd

The Aurum Centre Ham Barn Business Park Farnham Road HampshireAl Garhoud, Dubai GU33 6LB

t +44 0333 800 9000 f +44 0333 800 9001