INSTRUCTIONS FOR USE

Nimbus 4 /Nimbus Professional

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EMPOWERING MOVEMENT

Contents

Foreword

Thank you for choosing the Nimbus® pump and mattress system.

About Nimbus 4 and Nimbus Professional

Nimbus 4 and Nimbus Professional provides active therapy for the prevention and management of pressure ulcers.

The systems consist of a pump and mattress replacement. Beds with divided sections for independent elevation of a patient's head and/or knees can be adjusted with these mattresses in position.

WARNING

To prevent injury to the patient when operating the Nimbus 4 and Nimbus Professional system as a caregiver and as a lay person:

Make sure the system is operating according to section Operation on page 21.

If the system is not operating correctly, refer to Troubleshooting and alarm conditions on page 29.

If the system is still not operating correctly, or if you have concerns, contact the patient's doctor or nursing staff for advice.

Before using the product

The information in this Instructions For Use (IFU) is important for your safety. You must read and fully understand this IFU before using the product to help prevent potential injury. The information in this IFU is necessary for the proper and safe operation of the product.

Unauthorised modifications on any Arjo product can affect its safety and performance. Arjo will not be held responsible for any accidents or incidents resulting from such modifications to its products.

Customer contact information

For questions regarding this product or other Arjo products and services, contact Arjo, an Arjo authorised representative or visit www.arjo.com.

Service and support

It is necessary to perform routine maintenance to maintain the safety and reliability of the product. See the Care and preventive maintenance section for more information. Contact your local Arjo representative for spare parts.

Serious incident

If a serious incident occurs in relation to this medical device, affecting the user, or the patient, then the user or patient should report the serious incident to the medical device manufacturer or the distributor. In the European Union, the user should also report the serious incident to the Competent Authority in the member state where they are located.

Definitions in this IFU

WARNING

Warning means: Safety warning. Failure to understand and obey this warning may result in injury to you or others.

CAUTION

Caution means: Failure to follow these instructions may cause damage to all or parts of the system or product.

NOTE

Note means: This is important information for the correct use of this system or product.

Intended use

The Nimbus 4 and Nimbus Professional are intended for use by caregivers[1] in acute and post-acute care facilities, including long-term care, home care facilities and private homes.

The system is indicated for the prevention and/or management of all categories[2] of pressure injuries (pressure ulcer). It should be used as part of an individualised, comprehensive pressure injury protocol. This typically includes: repositioning, nutritional support, skin care.

The system represents one aspect of a pressure injury (pressure ulcer) management protocol. All other aspects of care should be considered by the healthcare professional. If existing wounds do not improve, or the patient's condition changes the overall therapy regimen should be reviewed by the healthcare professional.

The above are guidelines only and should not replace clinical judgement.

The system provides two modes of therapy 'reactive (static or non-alternating) pressure redistribution' and 'active (alternating) pressure redistribution'.

The system should only be used for the purpose specified in this Instructions for Use. Any other use is prohibited.

Patient assessment

We recommend that facilities establish regular assessment routines. Caregivers should assess each patient before using the product. The patient weight must not exceed 250 kg (550 lb).

Contraindications

Do not use with patients with unstable cervical, thoracic and/or lumbar fracture, cervical traction, and skeletal traction. For any other unstable fractures, a medical examination is necessary to determine whether the use of the system is suitable. For any other conditions that may be complicated by a moving surface, do not use the system.

Cautions

If patients have other unstable fractures, or conditions which may be complicated by a soft or moving surface, advice should be sought from an appropriate clinician before use. While the system has been designed to manage patients up to the weight limits indicated above, those approaching this upper limit are likely to have additional care and mobility needs and may be better suited to a specialist bariatric system.

Expected service life

The expected service life of the Nimbus pump is seven (7) years. The expected service life of this equipment is subject to preventive maintenance being carried out in accordance with the instructions for care and maintenance found in the Instructions for Use.

1 Caregiver may be a healthcare professional or lay person who operates this medical device

2 European Pressure Ulcer Advisory Panel, National Pressure Injury Advisory Panel and Pan Pacific Pressure Injury Alliance. Prevention and Treatment of Pressure Ulcers/Injuries: Clinical Practice Guideline. The International Guideline. Emily Haesler (Ed.). EPUAP/NPIAP/PPIA; 2019.

Safety instructions

Before you connect the system pump to a mains socket, read carefully all the installation instructions contained within this manual.

WARNING

To prevent injury, always read this Instructions for use and accompanied documents before using the product.

WARNING

It is the responsibility of the caregiver to make sure that the user can use this product safely.

WARNING

To prevent injury, side rails should be used when the patient is left unattended based on an accepted patient assessment.

WARNING

Alignment of the bed frame, side rails and the mattress should leave no gap wide enough to entrap a patient's head or body, or to allow egress to occur in a hazardous manner where entanglement with the power cable and tubeset or air hoses may result. Care should be exercised to prevent occurrence of gaps by compression or movement of the mattress. Death or serious injury may occur.

WARNING

To prevent serious injury or death, the CPR rapid deflation unit must be visible and accessible at all times.

WARNING

Make sure that the power cable and tubeset or air hoses are positioned to prevent causing a trip or other hazard, and are clear of moving bed mechanisms or other possible entrapment areas. Where cable management flaps are provided along the sides of the mattress, these should be used to cover the power cable.

WARNING

To prevent injury and/or an unsafe product, the pump's case must only be removed by qualified service personnel. There are no user-serviceable parts inside the pump or the mattress.

WARNING

To prevent risks of injury, the power source should always be accessible. To safely cut off the pump's power supply, remove the plug from the power source.

WARNING

To prevent electrical shock, always disconnect the product from the power source before cleaning and inspecting.

WARNING

Keep the pump away from sources of liquids and do not immerse in water.

WARNING

To prevent serious injury, do not use the pump near uncontained flammable liquids/gases or any other sources of liquids.

Continued on next page

WARNING

The cover of this product is vapour permeable but not air permeable and may present a suffocation risk.

WARNING

Do not use the mattress without a cover, it provides a protective barrier.

WARNING

To prevent suffocation, keep the bags supplied with this product away from babies and small children.

WARNING

When not fitted to a bed, the bed hooks on the pump may present a hazard to small children. Store the pump in a safe place.

WARNING

Only the pump and mattress combination as indicated by Arjo should be used. The correct function of the product cannot be guaranteed if incorrect pump and mattress combinations are used.

CAUTION

Placing extra layers between the patient and the mattress potentially reduces the benefits provided by the mattress and should be avoided or kept to a minimum. As part of sensible pressure area care, it is advisable to avoid wearing clothing which may cause areas of localised high pressure due to creases, seams, etc. Placing objects in pockets should be avoided for the same reason.

CAUTION

To prevent damage, do not expose the product to naked flames, such as cigarettes.

CAUTION

In the event of a fire, a leak in the mattress could propagate the fire.

CAUTION

To prevent damage to the system:

- **Do not store in direct sunlight.**
- **Store the pump and mattress in the protective bags supplied.**
- **Clean and disinfect the pump and mattress before storage.**

CAUTION

To prevent damage to the cover, make sure only the recommended cleaning method is used.

CAUTION

To prevent damage, do not use sharp objects or electrically heated blankets on or under the system.

CAUTION

To prevent damage to the product, pets and children must be supervised in the vicinity of the product.

CAUTION

Always make sure the drag handles are fastened to the base cover, when the patient is NOT being transported.

CAUTION

When the pump is in use the operator should remain in the area in case the system alarms.

Preparations

Actions before first use

1. Check the package for damage. If the package looks damaged, contact the transport agency. Do NOT use the product.
2. Check that the items are complete:
   - Pump, with power cable and carry handle
   - Nimbus 4 mattress replacement or Nimbus Professional mattress replacement with covers. Do not use the mattress without a cover.
   - Tubeset
3. Recycle the packaging according to local regulations.
4. Read this IFU.
5. Store the IFU in a designated area where it is easily accessible at all times.

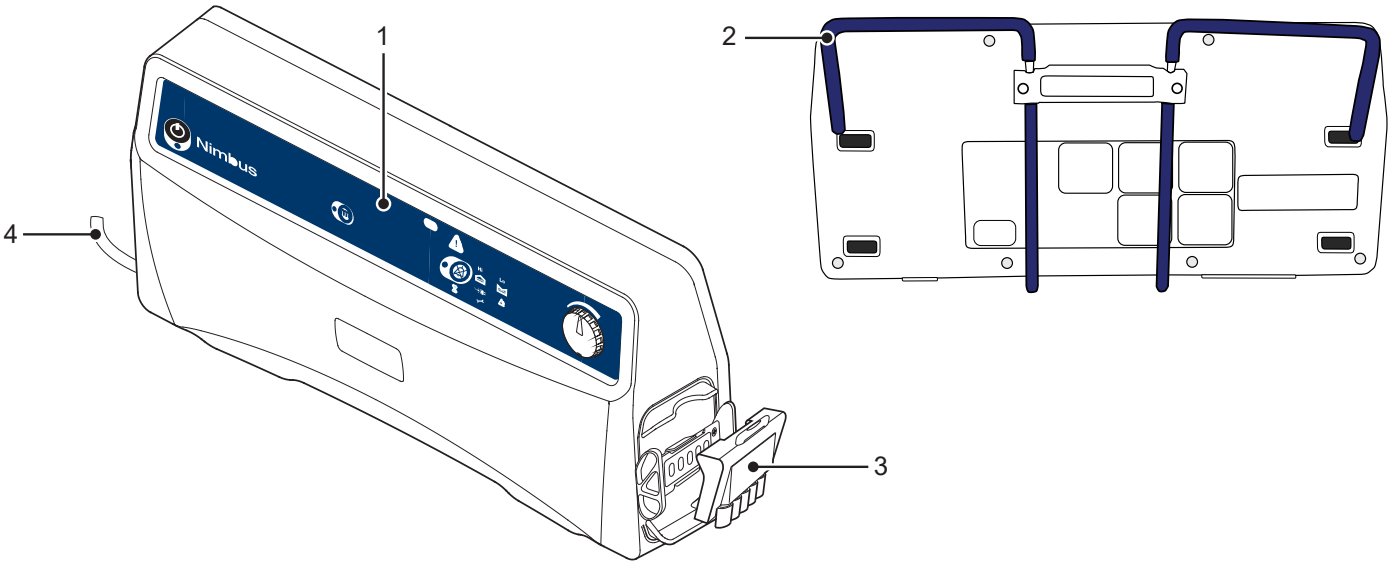
Actions before every use

1. Inspect the system, according to section Care and preventive maintenance on page 28.
2. If any part is damaged - do NOT use the product.

After each patient

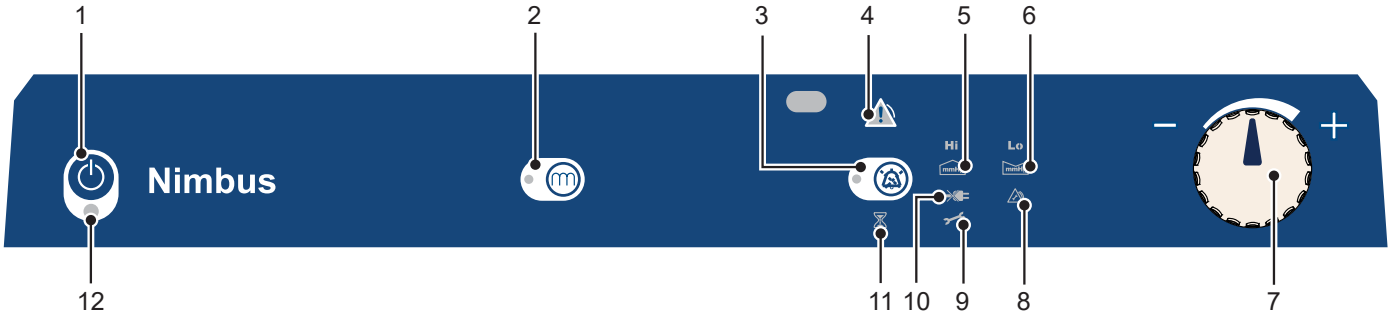
Clean and disinfect the product after each patient according to section Cleaning and disinfection on page 27.

Parts designation - Pump



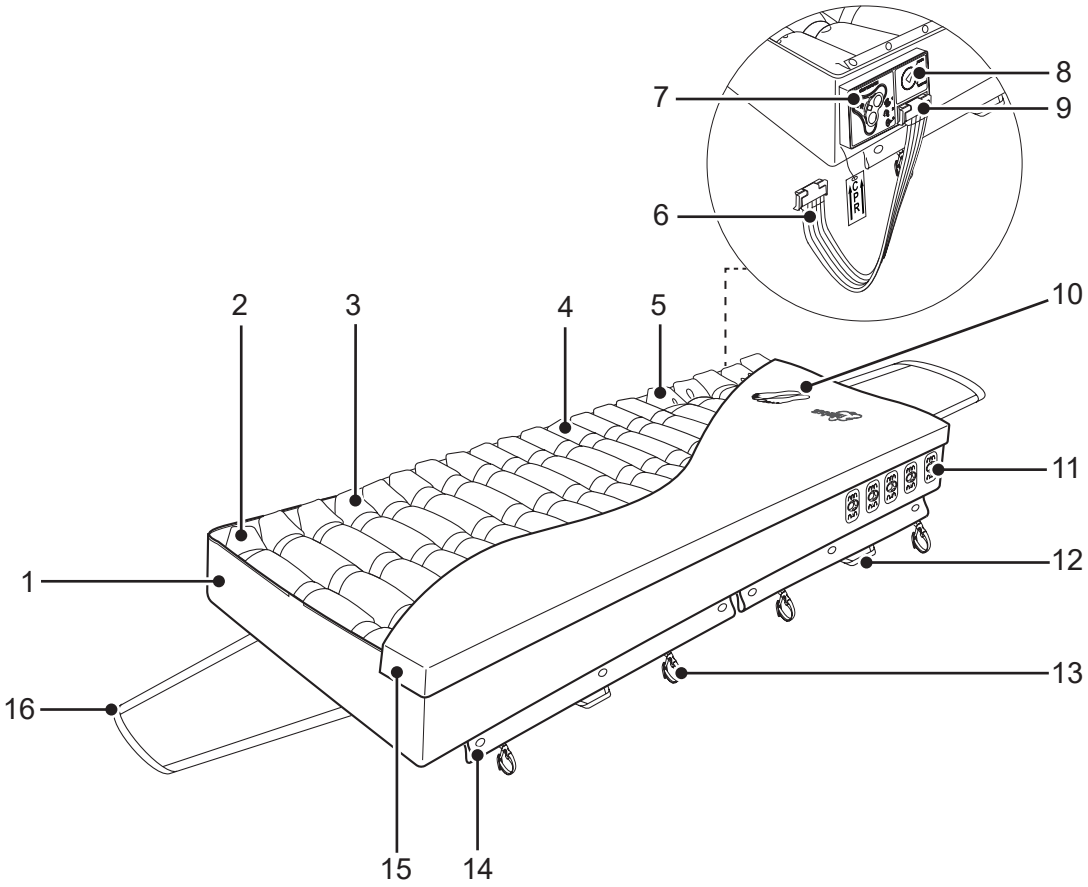
1. Control panel
2. Hanging brackets (on the back)
3. Tubeset connector
4. Power cable

Control panel - buttons and indicators



1. Run/Standby button
2. Reactive mode button with indicator
3. Alarm mute button with indicator
4. Alarm indicator
5. High pressure indicator
6. Low pressure indicator
7. Comfort control
8. Pump fault indicator
9. Service indicator
10. Power fail indicator
11. Wait indicator
12. Run mode indicator

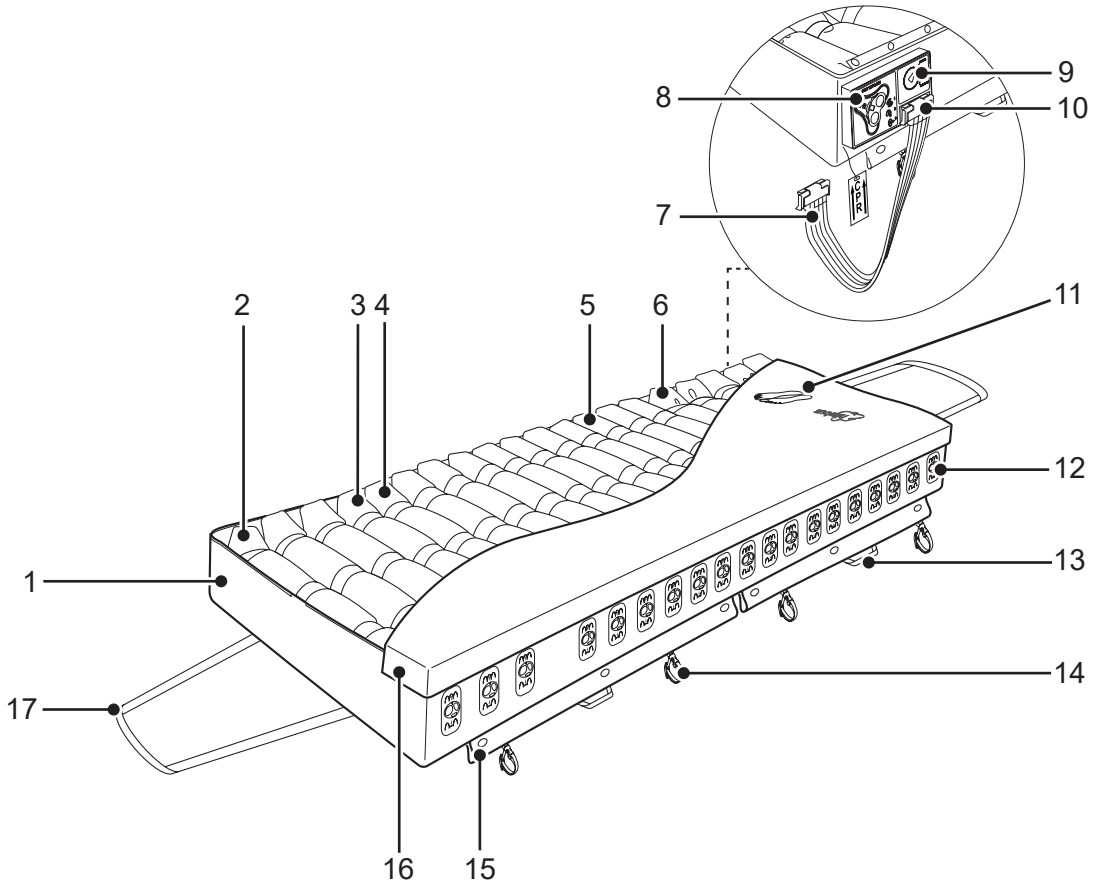
Parts designation - Nimbus 4 mattress



1. Head end
2. Head section cells (3)
3. Torso cells (8)
4. Thigh cells (4)
5. Heelguard® (5)
6. Pump tubeset
7. CPR control
8. Transport control
9. Tubeset connector
10. Foot end
11. Vent valves (5)
12. Carry handle
13. Securing strap
14. Cable management flap
15. Detachable cover
16. Drag handle

NOTE
The drag handles enable transportation of a patient in case of emergency. This is the only situation the drag handles can be unfastened. In any other situation the drag handles must be fastened to the base cover in order to remove the risk of tripping.

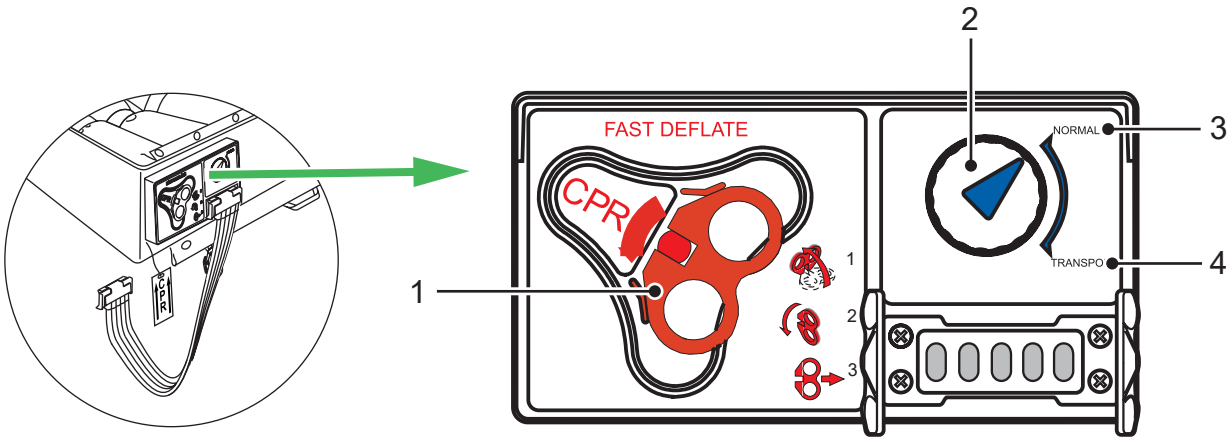
Parts designation - Nimbus Professional mattress



1. Head end
2. Head section cells (Alternating pressure) (3)
3. Shoulder support cell (4th) (Alternating, no vent valve)
4. Torso cells (8)
5. Thigh cells (3)
6. Heelguard® (5)
7. Pump tubeset
8. CPR control
9. Transport control
10. Tubeset connector
11. Foot end
12. Vent valves (19)
13. Carry handle
14. Securing strap
15. Cable management flap
16. Detachable cover
17. Drag handle

NOTE
The drag handles enable transportation of a patient in case of emergency. This is the only situation the drag handles can be unfastened. In any other situation the drag handles must be fastened to the base cover in order to remove the risk of tripping.

Parts designation - CPR and Transport controls



1. CPR handle
2. Transport control
3. Normal mode
4. Transport mode

NOTE
These controls are common to both Nimbus 4 and Nimbus Professional mattresses, and are located at the foot end of the mattress on the opposite side to the Vent valves.

Product description - Pump

Run/Standby button

Press the Run/Standby button to put the pump into the Run mode.

The green indicator is illuminated when the pump is in Run mode.

To put the pump into Standby, press and hold the Run/Standby button for approximately 3 seconds. This prevents accidental operation. The Run indicator is extinguished.

If the pump needs to be completely isolated from the power supply, remove the plug from the power socket.

Reactive mode button

Selects the operating mode, either Reactive or Active. When the pump is first powered up, its default setting is Active mode. To switch to Reactive mode, press and hold the Reactive Mode button for a minimum of 3 seconds.

The yellow indicator is illuminated when Reactive mode has been selected for operation.

To return to Active mode, press and hold the button for a minimum of 3 seconds. Active mode is confirmed by the extinguishing of the button's yellow indicator.

Alarm mute button

An Alarm mute button is provided to silence warning sounds during an alarm condition. Press and hold the Alarm mute button for a minimum of 3 seconds to mute any alarms.

The yellow indicator is illuminated when an audible alarm has been silenced.

NOTE
The Alarm mute button does not operate in a Power fail condition.

Comfort control

The Nimbus 4 and Nimbus Professional systems automatically compensate for patient weight distribution and position, to optimise the mattress pressure relieving performance. The mattress cell pressure can be manually adjusted for patient comfort using the rotary Comfort control.

Turn the Comfort control clockwise for a firmer setting and counterclockwise for a softer setting.

Wait indicator

The Wait indicator is illuminated when the mattress is being inflated.

NOTE
The Wait indicator remains illuminated until the mattress has been fully inflated.

High pressure indicator

The High pressure indicator is illuminated whenever the pump detects high pressure within the mattress.

If this condition occurs, the air supply from the pump is switched off until normal pressure is detected. After two seconds of normal pressure being detected the indicator is switched off and the air supply restarted.

Low pressure indicator

The Low pressure indicator is illuminated whenever the pump detects low pressure within the mattress.

This may indicate that there is insufficient pressure to support a patient or that the Transport control is turned to the Transport position whilst the pump is on and connected to the mattress.

The Low pressure indicator is switched off once normal pressure is reached.

Alarm indicator

The pump unit incorporates a sophisticated alarm detection system that differentiates between patient movement and genuine alarm conditions.

Whenever an alarm condition is detected, the yellow Alarm triangle illuminates together with an indicator of the cause of the alarm. Additionally, an audible warning will sound, which can be temporarily silenced by pressing the Alarm Mute button for a minimum of 3 seconds.

The triangular Alarm symbol is displayed with one or more of the following indicators:

- Low Pressure (refer to Low pressure indicator on page 14).
- High Pressure (refer to High pressure indicator on page 14).
- Pump Fault (refer to Pump fault indicator on page 15).
- Power (refer to Power fail indicator on page 15).

NOTE
For all alarm conditions except Power fail, once the alarm condition has been detected and displayed, it can only be cancelled by pressing and holding the Run/Standby button to put the pump into Standby.

Refer to Troubleshooting and alarm conditions on page 29 for possible causes of the above alarm conditions.

Pump fault indicator

The Pump fault indicator is illuminated when an internal pump malfunction is detected.

The fault can only be rectified by carrying out a service on the pump.

Power fail indicator

The Power fail indicator illuminates when a power failure has been detected.

The alarm continues until:

- The power is resumed, or
- the Run/Standby button is pressed and hold to put the pump into Standby.

The Power fail alarm is powered by a rechargeable battery. The duration of the alarm depends on the level of charge in the battery. The battery may have become discharged or reached the end of its life. It is therefore recommended that the alarm is tested before the pump is used. See Test the Power fail alarm on page 19.

NOTE
If the Power fail alarm does not operate after this test and qualified service personnel has been called, the pump can continue to be used with regular checks of the Power-on status. All other alarms continues to function as normal.

Service indicator

The Service indicator symbol illuminates after a set number of running hours to indicate that the pump is ready for service. This service period is set to 12 months run time.

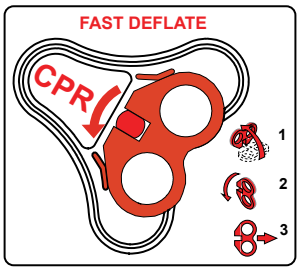
NOTE
The pump continues to operate normally even when the Service indicator symbol is illuminated.

Product description - Mattress

CPR control

If cardiac arrest occurs, the mattresses can be rapidly deflated using the CPR (Cardio-Pulmonary Resuscitation) control to allow cardiac resuscitation procedures to be performed.

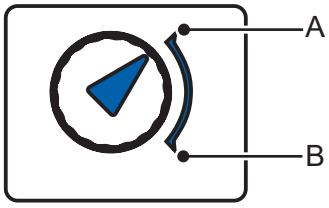
The CPR (Cardiopulmonary Resuscitation) control is positioned at the head end of the mattress to allow rapid deflation of the mattress.



Transport control

The Transport control has two positions, Normal (A) and Transport (B).

- In Normal position the two operating modes (Active and Reactive) can be chosen.
- In Transport position the mattress is sealed and the support surface is equally pressurised. The pump and/or tubeset can then be removed. The mattress supports the patient for up to 12 hours.



Vent valves

The Vent valves along the side of the mattress enable individual cells to be deflated.

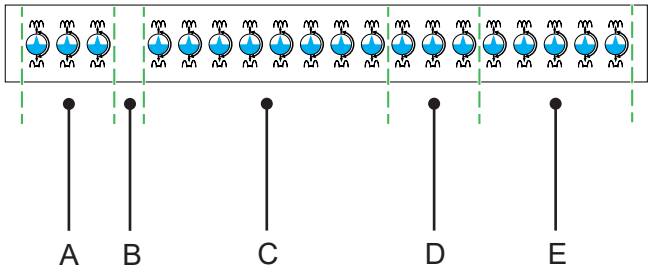
Nimbus 4 mattress

The Nimbus 4 mattress has five Vent valves in the Heelguard section at the foot end of the mattress.

Nimbus Professional mattress

The Nimbus Professional mattress have the following Vent valves:

- The three Head section cells (A - at the head end) have Vent valves.
- The single Shoulder Support (4th) cell (B) has no Vent valve and cannot be deflated.
- The eight Torso cells (C), three Thigh cells (D) and five Heelguard cells (E - at the foot end) have Vent valves.



During system operation, open individual Vent valves on the Torso, Thigh and/or Heelguard® cells to deflate the cell and assist with pressure area care and patient management, including everyday interventions such as chest x-rays.

AutoMatt® sensor pad

The mattresses incorporate an advanced AutoMatt® sensor pad which ensures the patient is automatically supported at optimum pressures regardless of size, height, position or weight distribution.

Heelguard® cells

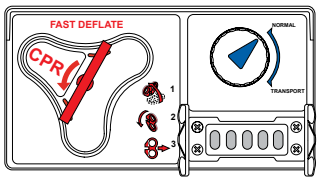
Both mattresses have five Heelguard® cells at the foot end. The cells provide maximum pressure relief for the patient's heels.

CPR rapid deflation unit

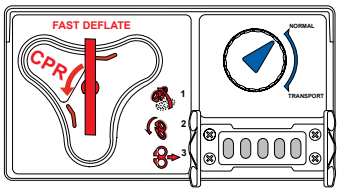
In the event of the patient suffering a cardiac arrest, the CPR rapid deflation unit can be activated.

Activate the CPR rapid deflation unit

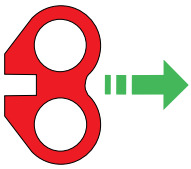
1. Lift the red CPR handle at the foot end of the mattress.

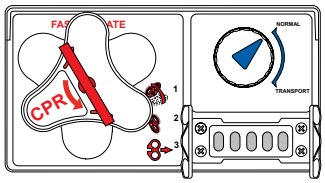


2. Turn the handle counterclockwise.



3. Pull the handle away from panel.





4. The grey triangular seal rotates and the air rapidly exhausts from the mattress.

Reset the CPR rapid deflation unit

1. Turn the grey triangular seal clockwise and push onto the connectors.
2. Turn the red handle clockwise.
3. Fold the handle flat to lock in position.

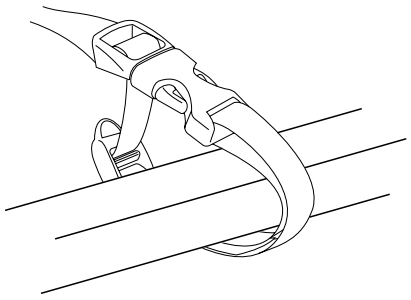
Installation

Install the mattress

1. Remove any existing mattress from the bed frame.

> **NOTE**
> **Heavily ridged bed baseboards may require special considerations for correct system operation - consult your Arjo sales office.**

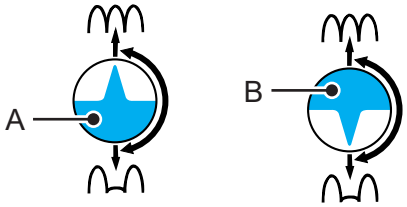
2. Check that there are no protruding sharp objects on the bed frame surface.
3. Unroll the mattress onto the bed base and make sure that the CPR control is at the foot end, and the CPR label is hanging freely.
4. Attach the mattress to the bed frame using the fastener straps, as shown. These eight fastener straps can be moved to any of the 10 anchor points on the base of the mattress, to allow for attaching the mattress to different types of bed frame.



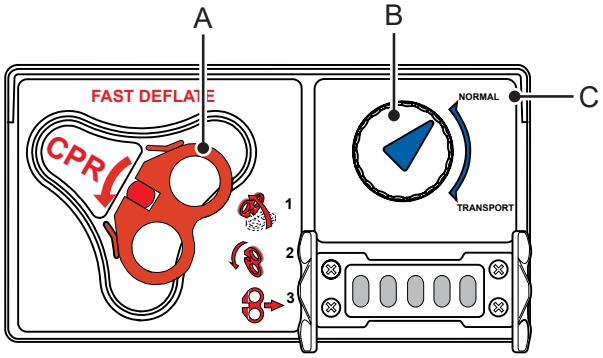
> **NOTE**
> **If the bed has divided sections for independent elevation of a patient's head and/or knees, attach the mattress to the movable parts of the bed frame only.**

> **NOTE**
> **Secure drag handles by fastening them to the base cover.**

5. To make sure that the pressure relieving properties are not impaired, the mattress cover must not be pulled tight and covering sheets should fit loosely.
6. Make sure that ALL the Vent valves are closed (A) and not open (B).

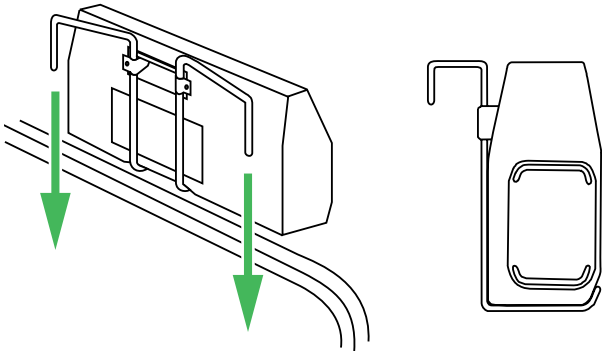


7. Make sure the CPR control (A) is closed and locked in position and the Transport control (B) is set to NORMAL (C).



Install the pump

1. If the pump is to be hung from the end of the bed, make sure that the bed bracket is securely attached to the pump, and then attach the pump and bed bracket to the bed frame.

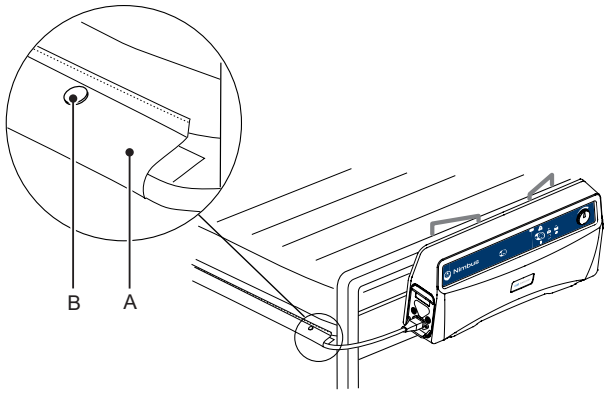


2. Alternatively the pump can be placed underneath the bed, either upright or lying on its back.
3. Insert one end of the power cable into the receptacle on the pump.
4. Connect the power cable to a power source.

Cable management

In order to prevent a trip hazard, the power cable should be put through one of the cable management flaps which are on each side of the mattress base cover, as follows:

1. Locate one of the cable management flaps.
2. If necessary, open the press studs along the flap.
3. Run the power cable along the side of the mattress securing the flap (A) round the cable using the press studs (B).



Test the Power fail alarm

The Power fail alarm is powered by an internal rechargeable battery. The duration of the alarm depends on the level of charge in the battery, which also depends on the age and condition of the battery.

The battery has a service life of between five to seven years. It is not user replaceable and must be replaced as part of the service procedure.

It is recommended that the alarm is tested when the pump is installed, as follows:

> **NOTE**
> **Refer to section Product description - Pump on page 14 for a comprehensive description of the buttons, indicators and controls on the pump.**

1. Connect the pump to the power cable to a power source.
2. Press the Run/Standby button on the pump to put the pump in the Run mode. Allow it to run for 10 - 15 seconds.
3. Remove the power cable from the power source without putting the pump into Standby first.
4. The power fail alarm operates within 10 seconds, as follows:
   - The yellow Alarm triangle illuminates.
   - The Power indicator illuminates.
   - An audible warning sounds.
5. The alarm continues until:
   - The power is resumed.
   - You press and hold the Run/Standby button to put the pump into Standby.
6. If the alarm does not operate, run the pump for approximately four hours to recharge the battery.
7. Retest the alarm after the battery has been recharged. Allow the alarm to operate for approximately two minutes to make sure that it has been adequately recharged.
8. If the alarm does not operate for two minutes, call qualified service personnel.

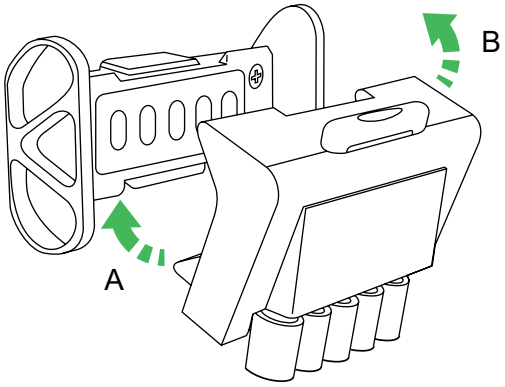
> **NOTE**
> **If the Power fail alarm does not operate after this test and qualified service personnel has been called, the pump can continue to be used with regular checks of the Power-on status. All other alarms continue to function as normal.**

Connect the tubeset

1. Locate the bottom (A) of the tubeset connector onto the bottom of the pump/ mattress connector.

Continued on next page

2. Pull the top of the tubeset connector (B) up and over the top of the pump/mattress connector, until the tubeset connector “clicks” into position.



3. Make sure both connections are secure.

The system is now ready for use. Refer to sections Parts designation - Pump on page 10 and Operation on page 21 for day-to-day operating instructions.

Operation

These instructions cover day-to-day operation of the system. Other operations, such as maintenance and repair, should only be carried out by qualified service personnel.

Before using the Nimbus 4 or Nimbus Professional system make sure that it has been installed correctly in accordance with section Installation on page 18.

- The CPR unit on the mattress is closed and locked in position.
- The Transport control on the mattress is set to Normal.
- ALL Vent Valves on the mattress are closed.

NOTE
Refer to section Parts designation - Pump on page 10 for a comprehensive description of the controls and indicators on the pump.

Inflate the mattress

1. Connect the pump to the power supply using the supplied cable.
2. Press the Run/Standby button to put the pump into the Run mode. The Run indicator changes to green.
3. The pump runs a self-test for approximately three seconds then all the indicators on the front panel are illuminated.
4. When normal operating pressure has been reached, both the Low pressure and Wait lights are extinguished.

   NOTE
   It may take up to 15 minutes to inflate the mattress. However, at the lower end of the operating temperature range, it may take longer to inflate. Always wait until both the Low pressure and Wait indicators have been extinguished.

5. **WARNING**
   Do not place the patient on the mattress until it is fully inflated and normal operating pressure has been reached.

   Place the patient on the mattress in the supine (face up) position. Refer to section Patient positioning guide - Nimbus Professional mattress on page 23.

   NOTE
   If the operation of the pump changes during use, refer to section Troubleshooting and alarm conditions on page 29 before calling qualified service personnel or contacting your local Arjo sales office.

6. Adjust the Comfort control to the patient's requirements.

Operating modes

The systems has two operating modes:

- Active mode provides pressure relief and should be used in most cases. In Active mode the support surface provide pressure relief for the patient's whole body every 10 minutes.
- Reactive mode provides a stable, non-moving support surface (all cells are equally inflated).

The pump defaults to the Active operating mode when first powered up.

To select the required operating mode, see Reactive mode button on page 14.

NOTE
When changing between operating modes, the patient's monitoring and repositioning program should be reviewed.

Vent valves guidelines

The following guidelines should be adhered to when selecting Vent valves to open on the Nimbus 4 and Nimbus Professional mattresses:

For permanent off-loading/pressure relief

1. Select no more than one cell directly under the area you want to relieve (head, torso, calf or heel section).

   NOTE
   This single cell can be left permanently deflated.

   NOTE
   If more than 1 adjacent cell is deflated this may also affect the off-loading performance of the mattress, particularly when the bed is elevated above a 30 degree head of bed elevation. A full clinical assessment of the patient should be performed before deciding whether to deflate more than one adjacent cell for wound care applications, or for permanent off-loading procedures.

2. Open the Vent valve to deflate the cell.

For temporary nursing procedures

1. Select one or more adjacent cells.

   NOTE
   Deflating more than one adjacent cell may affect the support of the patient during the normal alternating cycle, so should only be used for temporary procedures.

2. Open the Vent valve(s) to deflate the cell(s).
3. Once the nursing/clinical procedure is complete re-inflate the cell(s) by closing the Vent valve(s).

For complex patient needs

For complex patient needs, you can off-load more than one area on the patient for longer periods, but with the following restrictions:

- Deflate only one cell in the torso section.
- Deflate only one cell in the calf/heel section.
- Deflate only one cell in the head section when the patient is in the supine (face up) position, or all three cells in the head section when the patient is in the prone (face down) position.

NOTE
Do not deflate any more cells in each area or it may affect the support of the patient during the normal alternating cycle.

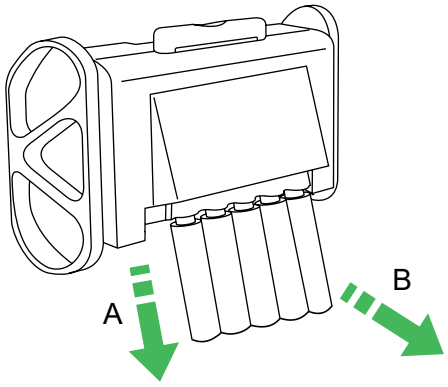
Transport mode

To set Transport mode

1. Turn the Transport control knob clockwise to Transport.
2. Put the pump into Standby.

   NOTE
   If the Transport control is set to Transport with the tubeset connected and the pump switched on, the pump indicates a Low Pressure fault alarm.

3. **Disconnect the tubset:** move the tubeset connector down by pulling the tubeset extrusion (A) downwards, and then pull the bottom of the tubeset connector (B) away from the bottom of the pump/mattress connector.



To resume normal operation

1. Re-connect the pump and tubeset to the mattress.
2. Turn the Transport control knob counterclockwise to Normal.
3. Put the pump into the Run mode.
4. Check the system is operating normally.

Patient positioning guide - Nimbus Professional mattress

WARNING

A full patient assessment, as to the suitability for Prone Nursing, is essential before commencing the procedure.

Safety sides should be used where appropriate (Refer to Safety instructions on page 7.

It is important that the patient's head, neck and shoulders are in the correct anatomical position.

When using the Head section deflate, care must be taken to support the head and neck, and any lines or tubes which are at risk of displacement, and to avoid running lines underneath the head where unrelieved pressure may cause blockage or tissue injury.

Care should be taken at all times to check that all tubes/lines are positioned correctly and do not present a strangulation or trip hazard.

In the Prone position, regular checks should be made to make sure the patient is free from a build up of pressure on the anatomically sensitive areas such as:

- **Head and facial areas including eyes**
- **Top of the shoulders**
- **Sternum**
- **Breasts and genitals**
- **Knees and toes**

General

The Nimbus Professional mattress allows the patient to be placed in either the Supine (face up) or Prone (face down) positions.

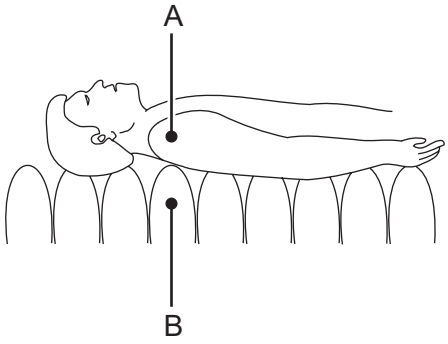
In both the Supine and Prone positions, patients should be positioned on the mattress so that the shoulders (A) are in line with the Shoulder support (4th) cell (B). The Shoulder support cell is in Active mode.

In Prone position the three head cells (C) must be fully deflated.

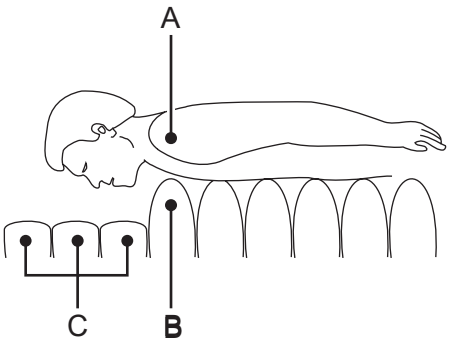
NOTE

It is important for the optimal use of the system that patients are positioned correctly on the mattress.

Supine position (Face up)

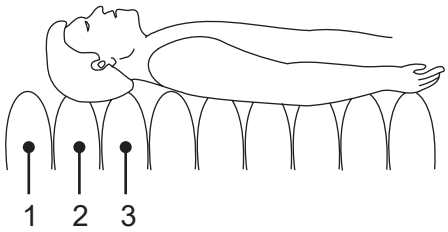


Prone position (Face down)



Supine position (face up)

Make sure the Vent valves on the three Head section cells (1-3) are closed so that the cells are fully inflated to support the head.



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In Active mode, all 20 mattress cells, including the Head section cells (1-3), alternate on a 10-minute cycle. This affords protection to all vulnerable areas including the occiput (back of the head).

NOTE
Rarely, some patients prefer not to have gentle cell alternation beneath the head. This can be resolved by placing a thin pillow underneath the head.

Deflate the Head section

When the patient is in the supine position, the Head section cells can be deflated to enable the following.

- Neck extension (e.g. for emergency procedures or cannulation).
- Access to the head (e.g. hygiene or wound care).

The action should be supervised by a competent clinician.

Always support the neck before and during Vent Valve operation.

Never leave the patient unattended.

Open the Vent Valves on the three Head section cells so that up to three of the cells are fully deflated.

NOTE
The Shoulder support (4th) cell continues to alternate.

If the head cells are to remain deflated make sure adequate support of the head and shoulders and provide other methods of routine pressure redistribution.

Prone position (face down) - Not for Homecare environment

Prone nursing is usually prescribed as an emergency therapy for patients in acute respiratory distress or to manage extensive wounds on the dorsum, such as pressure ulcers or burns.

The decision to adopt the prone position must be authorised by the clinician responsible for the patient's care.

NOTE
Turning a patient into a prone position carries a moving and handling risk to both the patient and the clinical staff: conduct a full assessment, comply with local protocols and use positioning aids and side rails where necessary.

NOTE
The anaesthetist or most senior member of the team should be positioned at the head end of the bed to co-ordinate the turning procedure. This person is also responsible for the safety of the patient's head, neck and ventilation tubing. The other members of the team should help to safeguard all lines and assist with the turning procedure as directed.

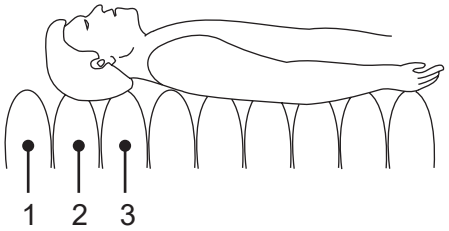
NOTE
Before commencing the turn, it is recommended that all non-essential lines and monitoring equipment are disconnected.

1. Press the Reactive button to put the pump into Reactive mode, so that the mattress cells remain constant with all cells equally inflated.

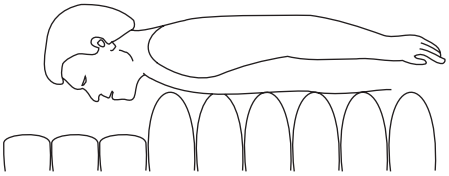
   NOTE
   The mattress must be stable and not alternating while the patient is turned, so that the patient is correctly positioned on the mattress.

2. Position the patient so that the shoulders are in line with the Shoulder support (4th) cell.

3. Open the Vent valves (1-3) on the three Head section cells so that they are deflated.



4. Turn the patient into the prone position whilst supporting the head.



5. Adjust the head position using pillows, foam or gel pads so that a comfortable posture is achieved without hyperextension.
6. Make sure that any lines/tubes are not placed underneath the head, check that the ears are free from pressure and bony prominences are well padded.
7. Check that the shoulders are still in line with the Shoulder support (4th) cell.

> **NOTE**
> **The Shoulder support (4th) cell has no Vent valve and continues to alternate to provide both support to the patient's shoulders and pressure redistribution over the vulnerable shoulder area.**

8. Press the Reactive button to put the pump back into Active mode.

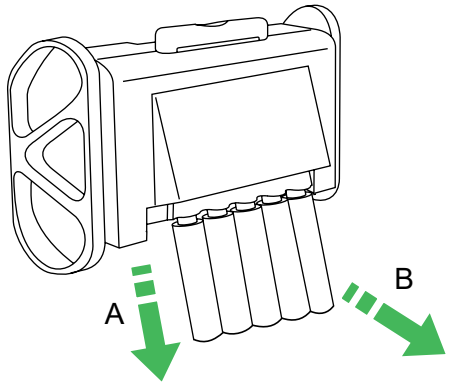
> **NOTE**
> **Wait for at least one full cycle (10 minutes) before making a final adjustment of any supporting pillows or pads.**

9. Determine an individualised repositioning schedule based upon the patient's condition.

Deflate and store the mattress

Disconnect the tubeset

1. Make sure the pump is disconnected from the power supply.
2. Move the tubeset connector down by pulling the tubeset extrusion (A) downwards, and then pull the bottom of the tubeset connector (B) away from the bottom of the pump/ mattress connector.



3. Lift the top of the tubeset connector from the top of the pump/mattress connector.
4. Remove the tubeset from the pump and mattress.

Deflate the mattress

1. Activate the CPR control to deflate the mattress.
2. Make sure the Transport control is set to Normal.
3. Fold the mattress over in the middle to assist in air evacuation. If necessary, gently press on the base cover to increase the air loss.
4. Roll up the mattress, starting at the foot end.

> **NOTE**
> **Make sure the mattress is dry before rolling it up.**

Cleaning and disinfection

The following processes are recommended, but should be adapted to comply with the local or national guidelines (Decontamination of Medical Devices) which may apply within the Healthcare Facility or the country of use. If you are uncertain, you should seek advice from your local Infection Control Specialist.

The Nimbus 4 and Nimbus Professional system should be routinely decontaminated between patients and at regular intervals while in use as is good practice for all reusable medical devices.

WARNING

To prevent electrical shock, always disconnect the product from the power source before cleaning and inspecting.

WARNING

Protective clothing should always be worn when carrying out cleaning and disinfection procedures.

CAUTION

To prevent product damage:

- **Do not use Phenol-based solutions or abrasive compounds or pads during the disinfection process as these damage the surface coating.**
- **Do not wring/mangle, boil or autoclave the cover.**
- **Avoid immersing electrical parts in water during the cleaning process.**
- **Do not spray cleaning solutions directly onto the pump.**

Cleaning

1. Clean all exposed surfaces and remove any organic debris by wiping with a cloth moistened with a simple (neutral) detergent and water.
2. Dry thoroughly.

Do not allow water or cleaning solutions to collect on the surface of the pump.

Chemical disinfection

To protect the integrity of the cover Arjo recommends a chlorine releasing agent, such as sodium hypochlorite. The recommended strength is 1 000 ppm available chlorine (this may vary from 250 ppm to 10 000 ppm depending on local policy and contamination status).

Alcohol based disinfectants (strength 70 %) may be used as an alternative.

If an alternative disinfectant is selected, confirm the suitability for use with the chemical supplier prior to use.

1. Wipe all cleaned surfaces with the solution, rinse and dry thoroughly.
2. Make sure the product is dry before storage.

Thermal disinfection

For information for the mattress top cover, including laundering guidelines, refer to Cover specification on page 33.

Re-use with multiple patients

Professional hygiene maintenance is required before re-use of the system with a different patient.

Care and preventive maintenance

Maintenance

The equipment has been designed to be virtually maintenance free between service periods.

Service period

Arjo recommended that the Nimbus 4 and Nimbus Professional systems should be serviced after 12 months' continuous running time, by qualified service personnel. This is indicated by the illumination of the Service symbol (refer to Control panel - buttons and indicators on page 10).

General care of pump

- Check all electrical connections and the power cable for signs of wear or damage.
- Test the Power fail alarm before use (refer to Test the Power fail alarm on page 19).

If the pump has been subjected to abnormal treatment, e.g. immersed in water or dropped, the unit must be returned to an authorised service centre.

Pump biofilter

The internal biofilter can be run continuously for two years before it requires autoclaving or replacement. The biofilter can only be replaced by qualified service personnel.

General care of mattress

1. Remove the cover from the mattress.
2. Inspect the cover for signs of wear or any tears, and check that all cover fasteners are secure.
3. Check the security of all internal connections, including:
   - Between the cells and the manifold.
   - To the CPR/Transport Control.
4. Make sure all cell fasteners are correctly connected to the mattress base sheet and are not loose or damaged.
5. Make sure the drag handles are fastened to the base cover to remove the risk of tripping.

Troubleshooting and alarm conditions

The following table provides a troubleshooting and alarm condition guide for the Nimbus 4 and Nimbus Professional systems in the event of malfunction. These alarms do not cause any delay or interruption in therapy.

NOTE
Refer to section Control panel - buttons and indicators on page 10 for a comprehensive description of the alarms and indicators on the pump.

INDICATOR	POSSIBLE CAUSE	REMEDY	PRIORITY
No indicators illuminated on the pump control panel.	There is no power to the pump.	1. Make sure there is a power supply to the pump. 2. Make sure the power cable is correctly fitted. 3. Call qualified service personnel.	N/A
 and 	The pump is inflating the mattress.	Both indicators extinguish when the operating pressure is reached.	N/A
	The CPR control is not fully closed.	Close the CPR control.	
	The tubeset is not connected properly.	Check the tubeset connectors and make sure they are securely connected to the pump and mattress.	Low priority according to IEC60601-1-8.
	The tubeset connectors are damaged.	Make sure the surfaces of the tubeset connectors are clean and not damaged.	
	CPR control not fully closed.	Close CPR control.	
	The Transport control on the mattress is set to Transport.	Turn the Transport control to Normal.	
	There is a leak in the system.	Call qualified service personnel.	
	The tubeset is blocked.	Check that the tubeset is not kinked.	Low priority according to IEC60601-1-8.
 and 	Power Fail Alarm. [a] The pump has detected a power failure.	1. Re-apply power or press and hold the Run/Standby button for 3 seconds to put the pump into Standby. 2. If power failure is prolonged, switch to Transport mode and disconnect the tubeset. The mattress will remain inflated for up to 12 hours. 3. If power is re-applied and pump is still not operating, call qualified service personnel.	Low priority according to IEC60601-1-8.

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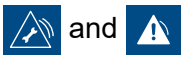
INDICATOR	POSSIBLE CAUSE	REMEDY	PRIORITY
 and	Pump failure.	Do not use the pump. Call qualified service personnel.	Low priority according to IEC60601-1-8.
	The pump needs a service.[b]	Call qualified service personnel.	
Mattress cells will not inflate.	Vent valves are open. The CPR control is not fully closed.	Close Vent valves. Close the CPR control.	

a If the pump has not been used for a long period, the internal battery which provides the Power Fail Alarm indication may be discharged. Run the pump for a few hours to recharge the internal battery, and the Power Fail Alarm indication will be provided as normal. To check that the Power Fail Alarm is operating correctly, refer to Test the Power fail alarm.

b The service period is set to 12 months run time.

If the trouble shooting procedures do not return the system to normal performance, stop using the system immediately and call qualified service personnel.

Technical specifications

PUMP		
Model:	Nimbus	
Supply Voltage:	220-240 V	100-120 V
Supply Frequency:	50/60 Hz	50/60 Hz
Power Input:	35 VA	
Size:	508 x 220 x 100 mm (20 x 8.7 x 4 in.)	
Weight:	5.7 kg (12.5 lb)	
Case Material:	ABS Plastic	
Plug Fuse Rating:	5A to BS1362 (UK ONLY)	
Pump Fuse Rating:	2 x T1AL 250 V	
Degree of protection against electric shock:	Mains Connected - Class II Type BF.	
Degree of protection against liquid ingress:	IP21 - Protection against ingress of solid objects more than 12.5mm diameter and water droplets falling vertically.	
Mode of operation:	Continuous	

PUMP ENVIRONMENTAL INFORMATION			
Condition	**Temperature Range**	**Relative Humidity**	**Atmospheric Pressure**
Operating	+10°C to +40°C (+50°F to +104°F)	30% to 75% (non-condensing)	700hPa to 1060 hPa
Storage (Long Term)	+10°C to +40°C (+50°F to +104°F)	20% to 95%(non-condensing)	700 hPa to 1060 hPa
Storage (Short Term)	-20°C to +65°C (-4°F to +149°F)	20% to 95% (non-condensing)	500 hPa to 1060 hPa

NOTE
If the pump is stored in conditions outside the "Operating" ranges, allow time for its temperature to stabilise to normal before use.

NOTE
One of the effects of prolonged exposure to high temperatures is to increase the self-discharge of the internal battery. This will reduce the duration of power fail alarms. The pump will fully charge the battery over a 24-hour period when the pump is connected to a power supply.

TUBE SETS		
Part Number:	151200	151201
Length:	1000 mm (39.4")	2500 mm (98.4")
Materials:	Tube: 5-way moulded PVC Connectors: Moulded Nylon	

MATTRESS SPECIFICATION		
Nimbus 4	**Standard Width**	**Narrow Width**
Reliant IS2 Standard Cover	650001DAR	650201DAR

Continued on next page

MATTRESS SPECIFICATION		
Nimbus 4	**Standard Width**	**Narrow Width**
Premium Fabric Cover	650001P	650201P
Length	2085 mm (82”)	
Height:	215 mm (8 1/2”)	
Width:	890 mm (35”)	800 mm (31 1/2”)
Weight:	11.5 kg (25.3 lb)	10.3 kg (22.7 lb)
Cell Material:	Polyurethane	
Base Material:	PU Coated Polyester	
Top Cover Material:	PU Coated Fabric or Premium Fabric	
Nimbus Professional	**Standard Width**	**Narrow Width**
Reliant IS2 Standard Cover	651001DAR	651201DAR
Premium Fabric Cover	651001P	651201P
Mattress SKU	651001DAR	651201DAR
	651001P	651201P
	651001DARW	651201DARW
	651001DARIT	651201DARIT
Length	2085 mm (82”)	
Height:	215 mm (8 1/2”)	
Width:	890 mm (35”)	800 mm (31 1/2”)
Weight:	15.5 kg (34.1 lb)	14.3 kg (31.5 lb)
Cell Material:	Polyurethane	
Base Material:	PU Coated Polyester	
Top Cover Material:	PU Coated Fabric or Premium Fabric	

For the dimension and weight specifications in this IFU, there could be some tolerance, not explicitly listed. Arjo is entitled to have the final explanation on these specifications.

PRODUCT				
Mattress SKU	**Product Description**	**Sewn Cover Part Number**	**Welded Cover Part Number**	**Premium Cover Part Number**
651001DAR	Nimbus Pro	651082	-	-
651201DAR	Nimbus ProNAR	651282	-	-
650001DAR	Nimbus 4	650082	-	-
650201DAR	Nimbus 4 NAR	650282	-	-
651001DARW	Nimbus Pro Welded	-	651082W	-
651201DARW	Nimbus Pro NAR Welded	-	651282W	-
650001DARW	Nimbus 4 Welded	-	650082W	-
650201DARW	Nimbus 4 NAR Welded	-	650282W	-
651001P	Nimbus Pro Premium	-	-	651082P
651201P	Nimbus Pro Narrow Premium	-	-	651282P

PRODUCT				
Mattress SKU	**Product Description**	**Sewn Cover Part Number**	**Welded Cover Part Number**	**Premium Cover Part Number**
650001P	Nimbus 4 Premium	-	-	650082P
650201P	Nimbus 4 NAR Premium	-	-	650282P

COVER SPECIFICATION		
Feature	Standard Cover (Reliant IS^2)	Premium Fabric
Removable Cover	Yes	Yes
Moisture Vapour Permeable	Low	Low
Low Friction	No	No
Water Resistant / Repellent	Yes	Yes
Polyurethane coating includes an antimicrobial agent to control microbial deterioration of fabric	Yes	Yes
Fire Retardant[a]	BS 7175: 0,1 & 5	BS 7175: 0,1 & 5
2-Way Stretch	Yes	Yes
Recommended Wash Temperatures	60°C (140°F) 15 min	60°C (140°F) 15 min
Maximum Wash Temperatures	Max 95°C (203°F) 15 min.	Max 95°C (203°F) 15 min.
Recommended Drying Temperatures	60°C (140°F) or air dry	60°C (140°F) or air dry
Max Drying Temperatures	Max 80°C (176°F)	Max 80°C (176°F)
Wipedown Chemicals[b]	Chlorine at strength of 1000ppm or Alcohol at 70% concentration; no phenol; ensure product is dry before storage	Chlorine at strength of 1000ppm or Alcohol at 70% concentration; no phenol; ensure product is dry before storage

a For additional flammability testing standards, refer to individual product law tags, if applicable

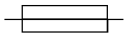
b Chlorine concentrations may vary from 250 ppm to 10 000 ppm depending on local policy and contamination status. If an alternative disinfectant is selected from the wide variety available, Arjo recommend that suitability for use is confirmed with the chemical supplier prior to use.

END OF LIFE DISPOSAL
Fabric material used on the mattress or any other textiles, polymers or plastic materials etc. should be sorted as combustible waste.
Mattresses at the end of life should be disposed of as waste according to the national or local requirements, which may be landfill or combustion.
Pump units that have electrical and electronic components should be disassembled and recycled per Waste of Electrical and Electronic Equipment (WEEE) or in accordance with national or local regulations.

Labels

The pump serial number label is on the back of the pump case. The mattress serial number label is on the top of the CPR/Transport control. Quote these serial numbers when requesting service.

Labels on pump

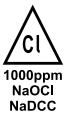
SYMBOLS EXPLANATION	
	Refer to instruction manual/ booklet - Instructions for use should be read. White character on blue background.
	Caution is necessary when handling this product.
	Name and address of the manufacturer
CE 2797	CE marking indicating conformity with European Community harmonised legislation. Figures indicate Notified Body supervision.
MD	Indicates that the product is a Medical Device according to EU Medical Device Regulation 2017/745.
REF	Catalogue number
SN	Serial number
UDI	Unique device identifier
	Type BF Applied part: Protection against electrical shock in accordance with IEC 60601-1.
	Class II electrical equipment
	Fuse
	Separate electrical and electronic components for recycling in accordance with the European Directive 2012/19/EU (WEEE)
CLASSIFIED C UL US E348583	With respect to electric shock, fire and mechanical hazards only in accordance with CAN/CSA C22.2 No. 60601-1:14 + A2:2022 and ANSI/AAMI ES60601-1:2005 & A1:2012 & A2:2021. MEDICAL EQUIPMENT
IP21	2: Protected against access to hazardous parts with a finger. Protected against solid foreign objects of diameter 12.5 mm and greater. 1: Protected against vertically falling water drops.

UNITED KINGDOM	
UK CA 0086	UK marking indicating conformity with UK Medical Devices Regulations 2002 (SI 2002 No 618, as amended) Figures indicate UK Approved Body supervision.
	UK Responsible Person & UK Importer: Arjo (UK) Ltd, ArjoHuntleigh House, Houghton Regis. LU5 5XF For Northern Ireland (NI) CE marking will still apply until further amendment to applicable regulations.

Labels on mattress

SYMBOLS EXPLANATION	
	Foot end of mattress
	Operating instructions - Consult Instructions for use.
	Patient weight range 250 kg (551 lb)
	Maximum patient weight
	Name and address of the manufacturer
	Manufacturing date
MD	Indicates that the product is a Medical Device according to EU Medical Device Regulation 2017/745.
REF	Catalogue number
UDI	Unique device identifier
SN	Serial number
	Date of first use
	Hospital name
	Recommended wash temperature: 15 min at 60°C (140°F) Maximum wash temperature: 15 min at 95°C (203°F)
	Recommended wash temperature: 15 min at 60°C (140°F)
	Tumble dry at 60°C (140°F)

Continued on next page

SYMBOLS EXPLANATION	
	Tumble dry at 60°C (140°F) Maximum drying temperature: 80°C (176°F)
	Do not use phenol-based cleaning solutions
	Use solution diluted to 1000 ppm of available chlorine
	Wipe all surfaces with cleaning solution, then wipe with a cloth moistened with water and dry thoroughly.
	Do not iron

Electromagnetic compatibility

Product has been tested for compliance with current regulatory standards regarding its capacity to block EMI (electromagnetic interference) from external sources.

Some procedures can help reduce electromagnetic interferences:

- Use only Arjo cables and spare parts to avoid increased emissions or decreased immunity which can compromise the correct functioning of the equipment.
- Make sure that other devices in patient-monitoring and/or life-support areas comply to accepted emissions standards.

WARNING

Wireless communications equipment such as wireless computer network devices, mobile phones, cordless telephones and their base stations, walkie-talkies, etc. can affect this equipment and should be kept at least 1.5 m away from the equipment.

Intended Environment: Home Healthcare Environment and Professional Healthcare facility environment.

Exceptions: HF Surgical Equipment and the RF Shielded room of an ME SYSTEM for magnetic resonance imaging.

WARNING

Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.

GUIDANCE AND MANUFACTURER'S DECLARATION - ELECTROMAGNETIC EMISSION		
Emissions test	**Compliance**	**Guidance**
RF emissions CISPR - 11	Group 1	This equipment uses RF energy only for its internal functions. Therefore its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment. This equipment 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.
RF emissions CISPR - 11	Class B	
Harmonic emissions IEC 61000-3-2	Class A	
Voltage fluctuations/flicker emissions IEC 61000-3-3	Complies	

GUIDANCE AND MANUFACTURER'S DECLARATION - ELECTROMAGNETIC IMMUNITY			
Immunity test	**IEC 60601-1-2 test level**	**Compliance level**	**Electromagnetic environment -guidance**
Electrostatic discharge (ESD) EN 61000-4-2	±2 kV, ±4 kV, ±8 kV, ±15 kV air ±8 kV contact	±2 kV, ±4 kV, ±8 kV, ±15 kV air ±8 kV contact	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material the relative humidity level should be at least 30 %
Conducted disturbances inducted by RF fields EN 61000-4-6	3 V in 0.15 MHz to 80 MHz 6 V in ISM and amateur radio bands between 0.15 MHz and 80 MHz 80 % AM at 1 kHz	3 V in 0.15 MHz to 80 MHz 6 V in ISM and amateur radio bands between 0.15 MHz and 80 MHz 80 % AM at 1 kHz	Portable and mobile RF communications equipment should be used no closer to any part of the product, including cables, than 1.0 m, if the transmitter's output power rating exceeds 1 W[a] Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, should be less than the compliance level in each frequency range[b] Interference may occur in the vicinity of equipment marked with this symbol: 
Radiated RF electromagnetic field EN 61000-4-3	Home Healthcare environment 10 V/m 80 MHz to 2.7 GHz 80 % AM at 1 kHz	Home Healthcare environment 10 V/m 80 MHz to 2.7 GHz 80 % AM at 1 kHz	
Electrical fast transient/burst EN 61000-4-4	±1 kV SIP/SOP ports ±2 kV AC port 100 kHz repetition frequency	±1 kV SIP/SOP ports ±2 kV AC port 100 kHz repetition frequency	Mains power supply should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	±0.5 kV ±1 kV; ±2 kV, AC Mains, Line to Ground ±0.5 kV ±1 kV, AC Mains, Line to Line	±0.5 kV ±1 kV; ±2 kV, AC Mains, Line to Ground ±0.5 kV ±1 kV, AC Mains, Line to Line	Mains power quality should be that of a typical commercial or hospital environment.
Power frequency Magnetic field EN 61000-4-8	30 A/m	30 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.

GUIDANCE AND MANUFACTURER'S DECLARATION - ELECTROMAGNETIC IMMUNITY			
Immunity test	**IEC 60601-1-2 test level**	**Compliance level**	**Electromagnetic environment -guidance**
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	0 % U_T; 0.5 cycle At 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315° 0 % U_T; 1 cycle and 70 % U_T; 25/30 cycles Single phase: at 0° 0 % U_T; 250/300 cycle	0 % U_T; 0.5 cycle At 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315° 0 % U_T; 1 cycle and 70 % U_T; 25/30 cycles Single phase: at 0° 0 % U_T; 250/300 cycle	Mains power quality should be that of a typical commercial or hospital environment. If the user of the pump requires continued operation during power mains interruptions, it is recommended that the pump be powered from an uninterruptible power supply or a battery.

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

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 product is used exceeds the applicable RF compliance level above, the product should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary.

b Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 1 V/m.

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