

# Alpha Active 4

This Quick Reference Guide has been produced to assist Healthcare Professionals and other users with only the functional aspects of the system. The guide does not replace the general safety warnings, cautions and recommendations provided in the product instructions for use, part number 648936XX.

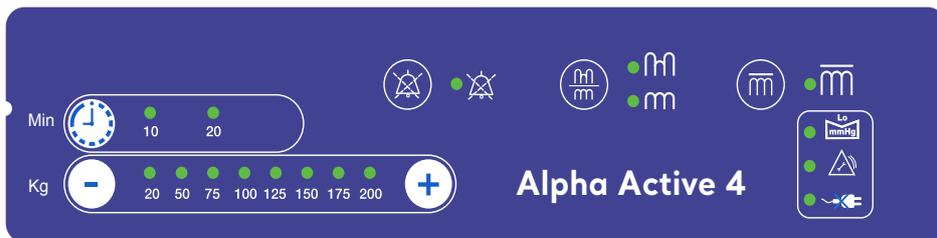
Refer to the product instructions for use before using this product.

**Indications:**

- The Alpha Active® 4 system is indicated for patients weighing up to 200 kg (440 lb)
- *The Alpha Active 4 system is indicated for the prevention and/or management of all categories<sup>1</sup> of pressure ulcer, when combined with an individualised, comprehensive pressure ulcer protocol.*

**Contraindications:** Do not use the system for patients with unstable spinal fractures.

**Caution:** 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.



**On/Off button** - pressing the **On/Off** button will activate the pump.



**Alarm Mute** - during an alarm condition the sound of the alarm can be muted by pressing the **Alarm Mute** button. The yellow indicator will then remain on but the alarm will be muted.



**Mode Select** - the mode selector allows the mode of operation to be selected.

Two modes of operation are available, Alternating or Static (non-alternating). The indicator next to the respective icon indicates the currently selected mode.

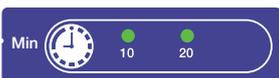


**Auto-firm mode** - selects the Auto-firm, non-alternating mode. The orange indicator will illuminate when the pump is in this mode. Auto-firm lasts 30 minutes, after which the pump will default back to the previous setting.



Two buttons (+ and -) are used to set the pressure inside the mattress replacement and therefore the amount of support the patient receives.

The pressure setting is indicated by the green indicator above the selected setting.



A single button allows the cycle time to be selected for the most appropriate patient therapy.

The cycle time setting is indicated by the green indicator above the selected setting.



The **Low Pressure indicator** is illuminated whenever the pump detects low pressure within the mattress overlay. An audible alarm will sound unless cancelled by the mute button. The indicator will extinguish once normal pressure is reached.



The **Service/pump fault** indicator will illuminate and remain on if the pump has detected an internal fault. A service engineer should be called.



The **Power Fail** indicator will illuminate when a mains power failure has been detected. An audible alarm will sound until power is resumed or the pump is switched off using the on/off button.

If a Power Fail condition arises disconnect the tubeset from the pump and place the attached cap over the end of the tubeset to put the mattress into transport mode.

Once power is resumed, re-connect the tubeset to the pump and carry out "Support Setting Procedure" on next page.

**Note:** Weight settings are affected due to power fail. There are two variants of pump in the market as follows:

1. The pump will revert to a default patient weight setting of 125 kg (275 lb) once power is restored after a power outage or generator test.
2. The pump will revert to the last setting set by the caregiver once power is restored after a power outage or generator test.

To determine which pump is being used once the pump is operating, set the pump to 20 kg (44 lb) and disconnect from the power supply. Reconnect power and if the pump reverts to 125 kg (275 lb) you have pump 1 and if it reverts to 20 kg (44 lb) you have pump 2.

1. NPUAP/EPUAP International Pressure Ulcer Guideline, 2014.

## Installation

### Mattress Installation

Zip the protective cover over the mattress. Make sure the Arjo logo is uppermost and at the foot end of the mattress. Make sure the CPR unit is secured in its closed position.

### Installing the Pump

Position the pump, feet down, on any convenient horizontal surface or alternatively suspend from the bed foot rail by means of the integral hanging brackets.

Make sure the mattress tube-set is not "kinked" or twisted and connect it to the pump until it clicks into place. Make sure the tube-set is securely connected to the pump.

Insert the mains power plug into a suitable mains power socket.

### Quick Start:

Press the **On/Off** button on the side of the pump. Allow approximately 30 minutes for the mattress to inflate fully.

**Warning: Do not place the patient on the mattress until it is fully inflated.**

Place a sheet over the Mattress Replacement (MR) and tuck in loosely. Make sure the CPR unit is clearly visible at the head end of the bed.

### Support Setting Procedure

Lie or sit the patient on the mattress.

Select the appropriate cycle time.

Set pressure dial on pump according to patient weight. This should serve as an approximate guide only. An independent clinical determination needs to confirm that the patient is properly supported.

Wait 10 - 20 minutes while the pump adjusts the pressures.

### SAFETY SIDES

**Regarding the use of safety sides, always refer to your local hospital policy AND the product instructions for use.**

### Changes in Patient Position:

When a patient is in the lying (supine) position, their body weight is dispersed over a large area. When in the sitting position, their body weight is concentrated within a much smaller area and therefore will require more support than in the lying position.

Therefore, when the patient changes position, it may be necessary, in order to maximise the benefit of the support surface, to make adjustments to the setting of the patient weight selector.

**From Lying to Sitting** - Increase pressure control.

**From Sitting to Lying** - Decrease pressure control.

This adjustment should be in conjunction with independent clinical determination of appropriate support.

**Static** - Provides a stable, non-moving support surface for instances where a dynamic support surface is contra-indicated. In Static mode the support surface remains constant (all cells are equally inflated). Additional nursing assessment must be undertaken in order to direct an individualized repositioning programme.

When operating the system in Static mode it may be necessary, where possible, to reduce the pressure setting to increase patient comfort and safety.

### Transport Mode

The patient may be transported on the Alpha Active mattress overlay.

1. Disconnect the tube-set from the pump.
2. Place the attached cap over the end of the tubeset.

Once the cap is attached the mattress will automatically switch to transport mode.

The patient will remain supported by the mattress for up to 12 hours.

To resume normal operation, reconnect the tubeset and run the pump.

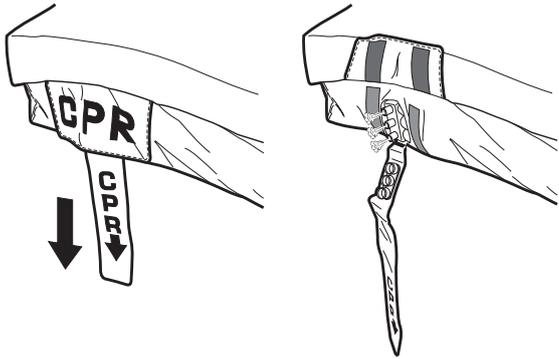
### Caution

**Transport mode is non-therapeutic offering support only for up to 12 hours. It is recommended that when in transport mode the patient is frequently monitored.**

### RAPID DEFLATE IN THE EVENT OF CARDIAC ARREST

In the event of a patient suffering cardiac arrest and CPR needing to be administered:

**To activate Rapid Deflate:**  
Located at the head end of the mattress overlay (on the same side as the tubeset) is a red strap labelled CPR. In the event of a cardiac arrest pull this from the mattress to deflate.



The diagram consists of two parts. The left part shows a hand pulling a red strap labeled 'CPR' from a mattress overlay. A downward arrow indicates the direction of pull. The right part shows the same hand pulling the strap further, revealing a stopper mechanism at the end of the strap.

**To reset Rapid Deflate:**  
Replace the stopper securely and reconnect the air tubes to the pump.

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