ALPHA$X$cell®

Active pressure relieving mattress overlay system for medium risk patients in all environments
TECHNICAL SPECIFICATION

AlphaXcell

Order Code

Pump
Model (UK)
Power
Model (USA)
Power
Model (Euro)
Power
Model (Australia)
Power
Model (R.O.W.)
Power
Size
Weight
Electrical Safety Standards

AXL30
(Complete System)

ALX01
220v-240v - 50Hz 14VA

ALX03
120v ±10% - 60Hz 14VA

ALX04
220v-240v - 50Hz 14VA

ALX08
220v-240v - 50Hz 14VA

ALX09
220v-240v - 50Hz 14VA

128 x 270 x 162mm
2.8 Kg
BS 5724, Part 1
IEC 601-1
VDE 0750: Teil 1
UL 2601-1
EN 60601-1

Overlay
Model
Size
Cell height
Patient Weight Limit

ICT20
2040 x 860mm
114mm inflated
140 Kg

REFERENCES

8. BJM Research & Consultancy 1996.
Active Pressure Relieving Mattress Overlay System
ACTIVE PRESSURE RELIEVING MATTRESS OVERLAY SYSTEM

ALPHAXCELL has proven to be one of the most effective active pressure relieving mattress overlay systems for those assessed to be at medium risk of pressure sore development or existing pressure sores up to and including grade 2\(^1\).

ALPHAXCELL is the value for money overlay, combining optimum patient comfort with clinical and technical effectiveness for use in any patient environment.

ACTIVE PRESSURE RELIEF

ALPHAXCELL is a true alternating system. It is effective because it supports the patient at low pressures and provides active pressure relief by a series of individual cells which gently inflate and deflate alternately, over a ten minute cycle. The three head cells remain static for patient comfort.

Pressure relief allows oxygenation and perfusion of tissue to occur, preventing breakdown and enhancing healing. By restoring blood vessels to their fully opened shape, true alternating systems can generate up to 1.75 times the blood flow of static systems.\(^2\)

ALPHAXCELL ACTIVE PRESSURE RELIEF

ALPHAXCELL PERFORMANCE EXAMPLE

FEMALE, 63kg, HEIGHT 1.64m, BMI 23.3

ACTIVE PRESSURE RELIEVING MATTRESS OVERLAY SYSTEM

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ALPHAXCELL ACTIVE PRESSURE RELIEF

ALPHAXCELL - THE FACTS

- Excellent PRI (Pressure Relieving Index) results in interface pressures below 20 mmHg for at least 50% of the cell cycle\(^3\), relieving pressure regularly below true capillary closing pressures
- Helps in the management of those with superficial tissue damage\(^4\)
- Contributes to the healing of pressure sores\(^4\)
- The 10 minute cell cycle mimics natural body movement\(^5, 6, 7\).
- The overlay provides approximately 4\(\frac{1}{2}\)\(\text{”}\) (114mm) lift ensuring effective patient support and comfort
- ALPHAXCELL is manually adjustable to individual patient requirement (no pre-set pressures)
- Varies shear-fields continuously thus reducing shear factor

PRESSURE CONTROL

- Weight indicator for ease of use
- Adjustable to patient weight
- Adjustable to patient position
- Clear user friendly instructions
- Maximum patient weight 140kg (22 stones)
SLIMLINE UNOBTRUSIVE DESIGN

- Ergonomically designed
- Lightweight and compact
- Tough durable casing
- Eliminates recess areas where dirt may collect
- Integrated spring loaded hanging hooks to fit most beds
- Minimal noise and vibration levels
- Snap fit tube connectors for secure connection and to prevent accidental disconnection
- User guide on pump

SOPHISTICATED ALARM INDICATORS

- Audible and visual alarms
- Power on indicator
- Inflation wait indicator
- Low pressure alarm
- Power fail alarm
- Integral battery backup for alarms

“The beds are affordable... we’ve found nothing to replace ALPHAXCELL”8.
ALPHAXCELL - THE BENEFITS

COVER

Ultra two way stretch cover which conforms to the contours of the body. The cover is vapour permeable, fire retardant, soft yet durable and is water resistant. It is also easy to clean and can be removed for laundering.

TRANSPORT FACILITY

Easy to use transport facility which seals the mattress overlay for one hour. This ensures the patient is still supported by low pressure even when being transported or for additional safety in the event of a power failure.

INTEGRATED AIR FILTER

This feature helps filter particles thereby enhancing product durability. The filter is easily accessible at the back of the pump in order to be changed on an annual basis.

CPR FACILITY

The CPR facility is situated at the top of the mattress on the left hand side. It can be activated in a single handed release operation and deflates the torso section in under 20 seconds for additional patient safety.

SECURITY TIES

Safe and strong adjustable Velcro® straps and securing aprons ensure the ALPHAXCELL is secured to the mattress for maximum patient safety.

MODULAR CELL CONSTRUCTION

The modular construction of the ALPHAXCELL ensures all cells can be individually replaced proving to be extremely cost effective.

INFECTION CONTROL

ALPHAXCELL has a bacteriostatic cover. The mattress and pump are easy to clean and launder according to Department of Health guidelines HSG (95) 18.

COMPACT STORAGE

As storage at hospitals or loan stores is at a premium ALPHAXCELL is designed to occupy minimum space when not in use, we always keep these practicalities in mind when designing our products.