aidacare™
HEALTHCARE EQUIPMENT



Clinical Assistance Guide

Mangar Eagle Lifting Cushion

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Mangar Eagle Lifting Cushion

PRODUCT DESCRIPTION

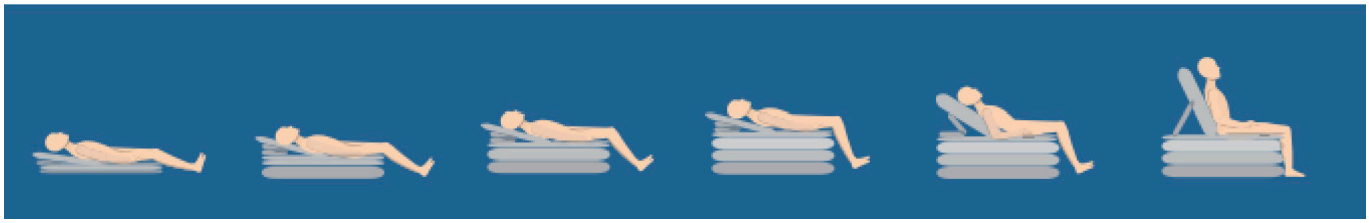


Now exclusive to Aidacare in Australia, the Mangar Eagle lifting cushion is designed to both sit up, and lift a fallen person from the ground or floor. Addressing the safety of both the care giver and person who has fallen, it cradles and lifts users weighing up to 220kg, in a stable and supportive manner, ensuring their safety, comfort and dignity. Once the fallen person has been assessed as safe to lift, the Mangar Eagle is invaluable for reducing the complications associated with a fall, delayed initial recovery and a long lie.

It is lightweight and portable, enabling it to be easily transported to where the person has fallen, whether that is indoors, outdoors or within a confined space. It has a small footprint and can be used in small spaces such as a bathroom or toilet cubicle, where traditional lifting equipment may not fit. The Eagle lifts the fallen person into a raised seated position from which they can stand independently, with care giver assistance, with a lifting aid, or to complete a slide or side transfer.

The Eagle is powered by the Mangar Airflo 24 Compressor and is controlled using an intuitive 4-way hand control. It can be used independently by the person who has fallen, or with the assistance of a single care giver, and aims to help people with their independence and dignity whilst protecting care givers from back injury sustained through lifting.

Minimal training is required to learn how to use the Eagle, making it ideal for use within homecare and supported living environments, with residents who fall regularly.



FEATURES

Lightweight and portable	• 6.3kg total unit weight including cushion; hand control, connectors and bag • Lifting cushion, connectors and hand control are rolled and stored in a carry bag, making it easy to carry, along with the Airflo compressor, to where a person has fallen • Airflo 24 Compressor has a unit weight of 4.1kg and an ergonomic handle for carrying

Easy to setup, use, and store	• Simple to use, requiring very little training • Connect the four hoses from the hand control to the corresponding numbers and coloured connectors on the Eagle • Easy to deflate, fold away and store in the carry bag provided
4 inflation layers	• Each layer inflates individually, allowing inflation to the optimal height for stand, slide or hoist transfers • No danger of overinflating air cells. The Airflo 24 will stop once full pressure is realised • Quickly inflates (usually in less than three minutes) • Can deflate in less than a minute
Intuitive Hand Control	• Numbered hand control makes it easy for carers, or the fallen individual, to follow the bottom up, step-by-step inflation process 1. Inflates backrest; can be omitted if wanting a level surface for the lift 2. Inflates bottom 2 cells 3. Inflates the 3rd cell 4. Inflates the 4th cell; suitable for taller users
Inflatable backrest	• Caters perfectly to those with reduced sitting balance, or health conditions such as hypotension, allowing the user to be comfortably lifted and supported in a reclined or more upright sitting position • Lifts and supports the back, head and shoulders • Can be left flat if required, whilst other layers are inflated
Durable material	• Made from very strong polyurethane coated nylon material, providing extraordinary durability, strength & performance in the toughest of environments. Suitable for both indoor and outdoor use
Infection control	• The lifting cushions have an anti-microbial coating and are radio frequency welded so there is no stitching or gaps where germs can collect • Easy to clean and disinfect using a disinfecting solution or alcohol impregnated wipe
Simple to maintain	• Annual load testing is not required
Safe to use	• **No risk** of entrapment to the fallen person, care giver, pets/children or others around the device during the lift • No need for seatbelt as product holds patient in correct position • **Protects care giver's** back and reduces risk of musculoskeletal injury
High Safe Working Load	• High 220kg SWL caters to a broad range of users

Ideal for single-handed care	• Can be operated by one caregiver, or in some cases, even by the fallen person on their own • Ideal for carer givers caring for individuals who are prone to falls
Suitable for tight spaces	• The sides of the Eagle can be folded up to allow manoeuvring into tight spaces
Battery-powered or mains-operated	• For uninterrupted use, eliminating the need to wait for recharging if the battery is low
Lifespan	• The lifting cushions have a 7 year life expectancy

IDEAL USER CONDITIONS

Advanced age and many health conditions can result in a person being vulnerable to falling. These can include conditions such as:

- Impaired balance/gait, foot problems, restricted mobility, lower limb amputations
- Neurological conditions such as MS, MND, CP, Parkinson's disease, stroke, dementia
- Reduced muscle strength
- Pain
- Medical history of arthritis, cardiac abnormalities
- Previous falls, and fear of falling
- Medication side effects
- Acute illness
- Dizziness; Postural hypotension; Syncope
- Impaired vision
- Low mood

Individuals with cognitive impairments find comfort in the Eagle's gentle lifting mechanism, while the added backrest support provides security and peace of mind for carers and users alike.

Suitable for taller or shorter users, as the height is adjustable depending on number of layers inflated

Considerations:

Long wait times for ambulances, family or neighbours to assist with lifting a person who has fallen can result in complications related to delayed initial recovery or a long lie.

A delayed initial recovery is when the faller remains on the floor for between 10 – 59 minutes. The impact of a delayed initial recovery is psychological and emotional trauma with increased post-fall anxiety and reduced functional independence or activity engagement.

Reduced activity, as a result of the fear of falling, can result in reduced mobility and associated reduction in muscle strength and balance, which can in turn, increase the risk of falling, dependency on others and reduce quality of life.

A long lie is when the faller remains on the floor for 60+ minutes. The impact of the long lie is all of those stated within delayed initial recovery but with additional physical and physiological elements.

Lying on the floor for a long time following a fall is the one of the most serious consequences of the fall. The results of a long lie or delayed initial recovery include:

- Skin damage resulting in pressure injuries
- Reduced confidence
- Increased anxiety (post fall syndrome)
- Hypothermia
- Dehydration
- Pneumonia
- Kidney failure
- Death

Most falls do not result in serious injury, but they can cause the person to lose confidence, become withdrawn, and feel as if they have lost their independence. The length of time it takes to help a resident into a safe and upright (standing or seated) position can have a significant impact on their recovery.

For people who fall regularly and are assessed as safe to lift, access to a portable lifting aid can enable the fallen individual or care giver to respond quickly to minimise the impact of the fall.

SAFE USE REQUIREMENTS

- This equipment MUST only be used by persons familiar in its use
- The medical state of the person who has fallen MUST be assessed before commencing a lift
- Ensure that the surface on which the Eagle is to be placed is free from sharp objects.
  NOTE: Place a blanket, groundsheet, towel or similar under the Eagle if using it on a rough surface
- If a slide sheet has been used to transfer the fallen person onto the Eagle, it must be removed from under the user before commencing a lift
- Sections 2, 3 and 4 MUST always be fully inflated in sequence from the bottom up, in order to maintain stability
  NOTE: The backrest may be partially inflated before any other section is raised. Once the lowest section is fully inflated, the backrest can be raised further as required
- **DO NOT** operate the Airflo 24 compressor in the presence of flammable anaesthetic mixtures with air, oxygen or nitrous oxide, as these mixtures can create a combustible environment leading to the potential for fire or even an explosion in the presence of a spark

CLIENT OUTCOMES

Improved health and well-being for the person who has fallen

- Provides a safe, dignified lift for the person who has fallen
- May reduce the psychological and emotional trauma, and increased post-fall anxiety associated with delayed initial recovery and long lie
- Reduces the complications associated with delayed initial recovery or a long lie
- Instantly reduces risk of developing pressure injuries and is suitable for fragile skin
- Can control lift speed to decrease risk of postural hypotension
- Improved independence and control can have positive impacts on health and wellbeing

Provides comfort for the person who has fallen

- The cushion cradles the user as it lifts
- Built-in backrest supports back, shoulders, neck and head
- Can be used in different conditions – material won't get too hot in the sun or too cold in the winter
- Inflation speed can be controlled for cushion and backrest

- Doesn't require the user to be laid flat on ground before use
- The person who has fallen can stay seated for as long as needed to recover before standing
- The user's legs can stay straight if needed, or in any comfortable position

Improved Safety for the person who has fallen

- Lifts the person who has fallen in position that is most comfortable for them e.g. side lying, lying flat, sitting up etc.
- No risk of entrapment regardless of size of user
- There is no need for a seatbelt as the Mangar Eagle holds the user in the correct position, and eliminates the hazard of standing while a seatbelt is attached

Sustainability of carer support

- Protects care giver's back and reduces risk of other musculoskeletal injuries
- Small footprint is ideal for use in a home environment
- Can be used in tight spaces by a single carer
- Can be used by one care giver or even by the fallen person on their own
- No risk of injury to pets/children or others around the device during the lift
- Risk of hospital admission due to complications of long lie declines
- May reduce the risk of post fall anxiety and associated increased dependence

Travel Support

- Lightweight and portable with components stored in a carry bag; suitable for taking when visiting friends, family or even on holidays
- Lifts with ease on any surface, indoor or out

SPECIFICATIONS

Seat height (fully inflated)	Seat depth	Back/ Headrest length	Overall length (approx.)	Overall width (approx.)	Deflated & rolled (in bag) cm/inches		Total Unit Weight	Maximum air pressure	SWL	Max/Min Temperature	Lifts per charge
cm/in	cm/in	cm/in	cm/in	cm/in	Length	Diameter	kg/lbs	bar/psi	kg/stone	^{0}C /^{0}F	
56/22	57/22.5	52/20.5	112/44	64/25	72/28	26/10	6.3/13.9	0.35/5	220/35	+50-15/122/5	up to 6 lifts

2 YEARS WARRANTY
Excluding Batteries

CARE & MAINTENANCE

Battery Care

- To maintain battery condition, it is recommended that the Airflo 24 is left continuously on charge when not in use. The batteries cannot be overcharged using the charger
- DO NOT recharge the batteries in a bathroom or in a damp environment
- To avoid the risk of electric shock, do not use the optional mains power adaptor in the bathroom, outdoors or in a damp environment

Routine Cleaning

Mangar Eagle

- Fully inflate all sections of the Eagle
- Sponge clean with a non-abrasive liquid cleaner or disinfectant clinell Universal wipes, Actichlor Plus, or similar can be used
- Dry thoroughly
- Do not dry using hot air

Airflo 24 Compressor

- Unplug the Airflo 24 from the battery charger
- Clean the external surfaces using a non-abrasive damp cloth with warm water
- Wipe dry thoroughly with a dry towel before reconnecting to the battery charger
- Do not allow moisture to enter any part of the compressor
- Do not use solvent-based products

Disinfecting

Mangar Eagle

- Always perform routine cleaning before disinfection is carried out
- Inflate the EAGLE, followed by disinfection using a high-grade disinfectant or solution of Sodium Hypochlorite or similar
  - A concentration of 1,000ppm should be used for routine disinfection
  - Concentration of 10,000ppm should be used for the disinfection of equipment contaminated with blood, bodily fluids or infection
- Leave the solution on the product for approximately 10 minutes before thoroughly rinsing off with clean cold water
- Do not dry using hot air

Airflo 24 Compressor

- Always perform routine cleaning before disinfection is carried out
- Disinfect using a high-grade disinfectant or solution of Sodium Hypochlorite or similar. A concentration of 1,000ppm should be used for routine disinfection, and a concentration of 10,000ppm should be used for the disinfection of equipment contaminated with blood, bodily fluids or infection
- Leave the solution on the product for approximately 10 minutes before thoroughly rinsing off with clean cold water
- Do not allow moisture to enter any part of the compressor. Allow to air dry or wipe dry thoroughly with a dry towel before reconnecting to the battery charger

Maintenance

- Other than routine cleaning, the Eagle is maintenance free
- The Airflo 24 has been designed to be maintenance free and apart from replacing the battery, the Airflo contains no other serviceable parts
- Winncare recommends that your Eagle Lifting Cushion and Airflo 24 compressor are inspected every 12 months by either your supplier or other suitably qualified person
- Contact Aidacare on **1300 133 120** for further information

Transportation and Storage

- Disconnect the Airflo compressor from the Eagle before transporting so as to avoid accidental inflation of the cushion
- Ensure that the Eagle is clean and thoroughly dry before storing
- Store in a dry environment
- To maintain the Airflo 24 battery when being stored for long periods, put on charge for 12 hours every 3 months

FURTHER READING

Winncare Falls Management Training:

Falls Lifting Equipment Post Fall Management - Mangar Uk (Mangarhealth.com)

Fall prevention and recovery:

The Impact On Health And Well Being Webinars - Mangar Uk (Mangarhealth.com)

Mangar Health Post Fall Management:

- Post Fall Management Post-Fall-Management-Ebook_compressed.pdf (Mangarhealth.com)
- Delayed Initial Recovery And Long Lie After A Fall Among Middle-Aged And Older People With Multiple Sclerosis -Etienne Bisson Phd, Elizabeth Peterson Phd, Marcia Finlayson Phd – 2015 – Archives Of Physical Medicine And Rehabilitation
- Critical Falls: Why Remaining On The Ground After A Fall Can Be Dangerous, Whatever The Fall - Bloch - 2012 - Journal Of The American Geriatrics Society - Wiley Online Library

ISTUMBLE app:

- The post fall assessment tool devised by paramedics, created and trademarked by Winncare
- ISTUMBLE APP - Help with Falls Management | Mangar UK (mangarhealth.com)

Concept of the term long lie:
A Scoping Review Jenny Kubitza, Iris T. Schneider, And Bernd Reuschenbach Eur Rev Aging Phys Act. 2023 Concept Of The Term Long Lie: A Scoping Review - Pmc (Nih.gov)

Frequently Asked Questions About:

Falls In The Elderly

AIDACARE KNOWLEDGE HUB

Aidacare Website:

- Mangar Eagle - Lift Cushion

PDF Library:

- Aidacare flyer
- Aidacare user manual

Video Library:

- Mangar EAGLE Lifting Cushion | ATSA 2024

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