

Airflo 24

User Instructions



English

Simple solutions for everyday independence

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WARNINGS

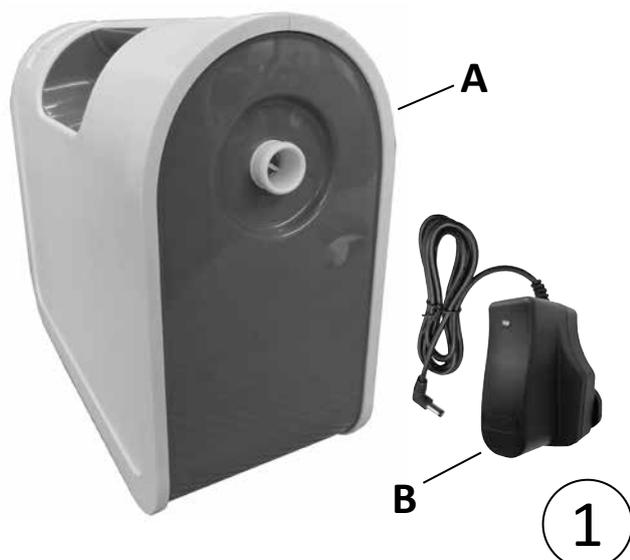
- Be sure that you have read and understood these instructions and those provided with any other Mangar Health product, before operating the equipment.
- To avoid the risk of electric shock, NEVER recharge the battery in the bathroom, outdoors or in a damp environment.
- Always disconnect from the battery charger before cleaning.
- Use only the supplied battery charger.
- 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.
- Ensure that when in use, the Airflo 24 and its connected hoses are laid out in such a way as to avoid any risk of tripping or strangulation.
- Ensure that children and pets do not interfere with the safe operation of the Airflo 24 and inflatable product.
- Keep the Airflo 24 and inflatable product away from sources of heat.
- Disconnect the Airflo 24 compressor from the inflatable product before transporting so as to avoid accidental inflation.
- The Airflo 24 should only be used for its stated purpose and should not be modified in any way.

Intended Use

The Airflo 24 by Mangar Health is a low pressure air compressor, which has been designed to inflate the Mangar 'Camel' and 'ELK' pneumatic lifting equipment through a 4-Way pneumatic hand control. The 4-Way hand control is supplied with the Camel and ELK.

Applied Parts (Accessories) for the Airflo 24:
 Mangar ELK (Emergency lifting cushion)
 Mangar Camel (Emergency lifting cushion)

This product and associated packaging does not contain latex.



Standard Package Contents - fig. ①

1 x Airflo 24 compressor (A) fitted with a 24v-2200mAh NiMH battery pack.

1 x Battery charger (with adaptors) (B).

1 x User Instructions.

Battery Status Indicator

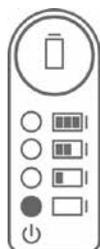


When the 'Power' button is pressed, the compressor will momentarily run and then stop. The bottom light on the indicator will show GREEN.

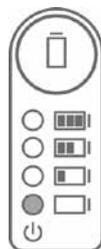
To determine the battery charge state before use, press the 'Battery Status Indicator' button to activate the battery status indicator lights:



Battery State Indicator Button



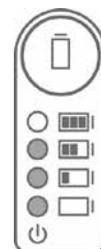
RED
Recharge
Immediately



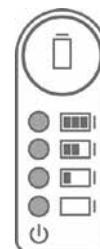
GREEN
OK to Use



GREEN
OK to Use



GREEN
OK to Use



GREEN
OK to Use

NOTE: The battery must be put on charge immediately as soon as the red indicator light appears. Running the Airflo 24 on RED until the battery is exhausted will damage the battery.

When the compressor is running, the battery status indicator lights will only indicate the state of battery charge as it was at the start of the lift. When the compressor stops running, the battery status indicator will show a bottom green light (this will be red if the battery charge has become low). To determine the true battery state following a lift, press the 'Battery Status Indicator' button and the lights will indicate the battery charge state.

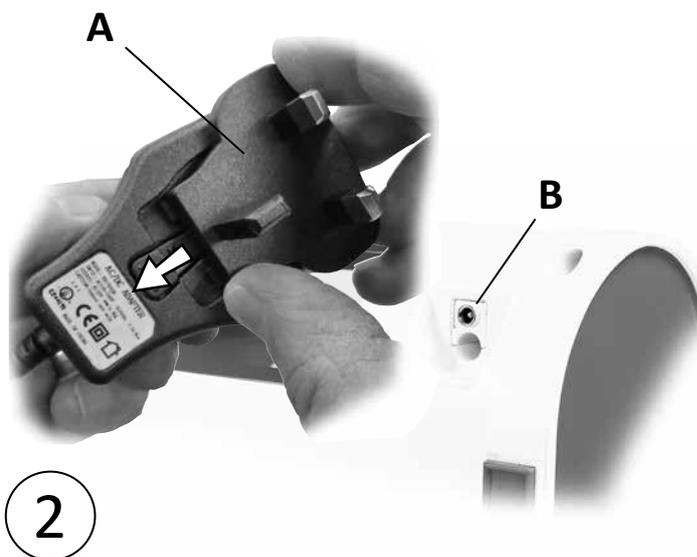
IMPORTANT: To maximize the life and lifting performance of the battery, fully recharge the battery for 16 hours. When the battery is new, it will not reach its peak performance and capacity until it has been discharged and recharged at least 3 to 5 times.

Fully charge the battery for a minimum of 16 hours before using the Airflo 24 for the first time and when a new battery has been fitted.

Battery Charging - fig. ②

Ensure that the Airflo 24 is switched 'Off' by pressing the 'Power' button before connecting the battery charger.

- Check the battery charger casing and lead for signs of damage and if damaged DO NOT USE.
- Fit the appropriate mains plug adaptor to the battery charger (A).
- Plug the battery charger into a mains power socket and connect the charger output lead to the Airflo 24 charging socket (B).

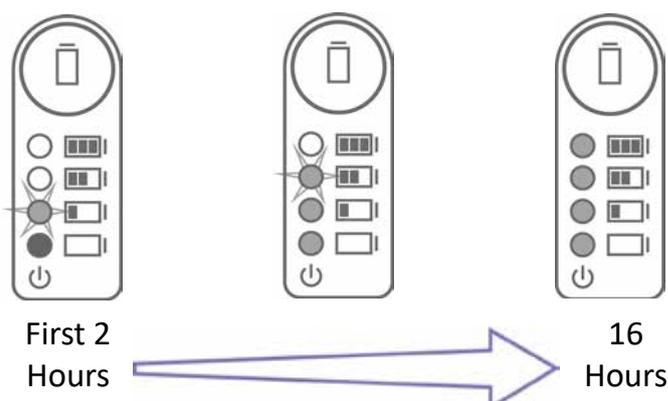


NOTE: The batteries must be recharged for a minimum of 16 hours to achieve full capacity.

When the battery is being charged:

- For the first 2 hours, the bottom light will show a steady red and the next light will be flashing green. After 2 hours the lights will change to two steady green and one flashing green. After 16 hours all lights will become steady green.

NOTE: If charging is momentarily interrupted (a power cut, switching the power socket off or disconnecting the charging lead), on re-connection, the charging process will start at the beginning and follow the sequence above for the next 16 hours.



NOTE: The charger is not capable of providing sufficient power to charge the batteries while the compressor is running.

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 this charger.

WARNING: DO NOT recharge the batteries in a bathroom or in a damp environment.

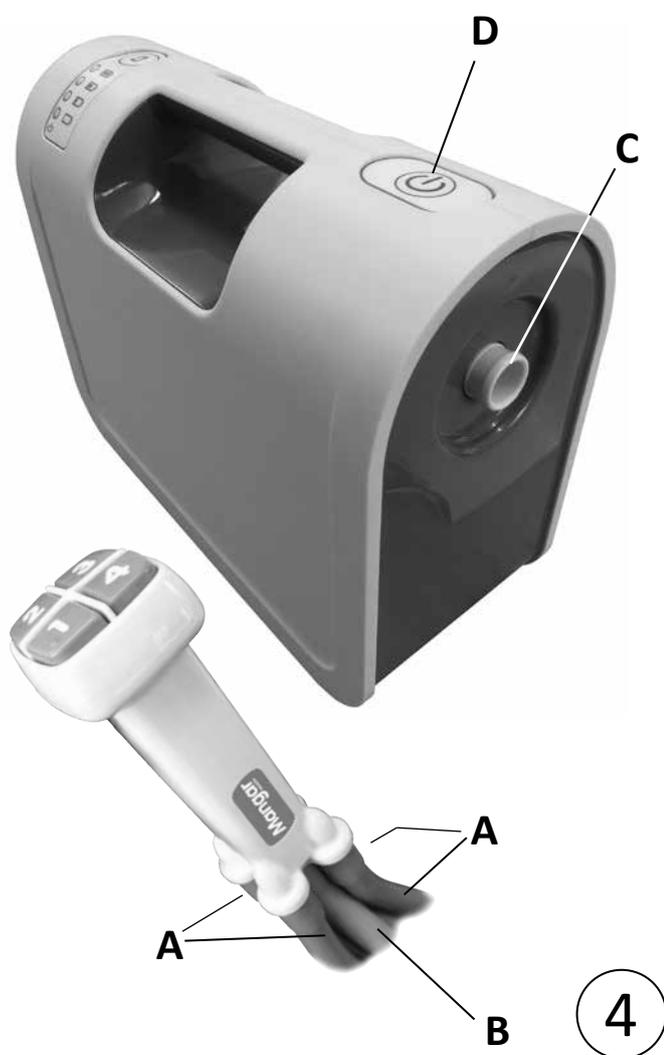
To disconnect the charger from the mains power supply, unplug the charger from the mains power socket.



Mains Power Adaptor *(optional)*

An optional mains power adaptor is available to power the Airflo 24 directly from a mains power socket. Connect the mains power adaptor between a mains power socket and the adaptor inlet socket on the end of the Airflo 24 (Fig. 3).

NOTE: The Airflo batteries are not being charged when the mains power adaptor is connected.



Operation - fig. ④

Disconnect the Airflo 24 from the battery charger and place it in a safe and convenient position.

- Connect the four hoses (**A**) from the 4-Way Hand Control to the corresponding numbered and coloured connectors on the Mangar Camel or ELK.
- Connect the hose (**B**) from the hand control to the Airflo 24 air outlet socket (**C**). The connector will 'click' into place when firmly pushed onto the socket.
- To switch on, press the 'Power' button (**D**). The compressor will run when a button on the hand control is pressed and stop when the button is released. An internal pressure switch will stop the compressor running when each corresponding section of the inflatable product has reached full pressure.
- Pressing any of the numbered hand control buttons will deliver air to the corresponding numbered hose (follow the User Instructions for the Mangar Health product that is to be inflated).
- To switch the Airflo 24 off after use, press the 'Power' button. The bottom indicator light will go out.

Cleaning

Unless contamination is suspected, periodic cleaning is all that is recommended. The Airflo 24 should be cleaned/disinfected as follows:

- 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

- Pre-clean using a damp cloth and then disinfect using a hard surface alcohol impregnated wipe.

Storage

- When not in use, store in a dry place together with these instructions. To maintain the batteries, when being stored for long periods, put the Airflo 24 on charge for 16 hours every 3 months.
NOTE: Ensure that the batteries are fully charged before storing the Airflo 24 for long periods.

Maintenance - fig. ⑤

The Airflo 24 has been designed to be maintenance free and apart from replacing the battery, the Airflo contains no other user serviceable parts.

Battery replacement:

- Turn the Airflo 24 onto its end containing the air outlet socket, remove the screw (A) and slide the end panel (B) away from the housing.
- Disconnect the wire from the battery pack and remove the battery pack from the battery compartment.
- Fit the replacement battery pack, ensuring that the connector is secure, refit the end panel and secure the screw (A).



When it becomes apparent that the Airflo 24 is producing fewer than expected lifting cycles, the battery is probably reaching the end of its working life and should be replaced.

If a fault should develop or if you require assistance in setting up using or maintaining the equipment, please contact our Customer Service Department on **Freephone 0800 2800 485** (UK only. Outside of the UK please contact your supplier). A service manual (MI0357) is available for service personnel.

Disposal

When the Airflo 24 has reached the end of its working life, remove the battery for safe disposal in accordance with local regulations, and dispose of the Airflo 24 at your local household waste recycling centre (civic amenity site).

Trouble shooting guide

- | | |
|---|--|
| <p> Compressor does not run when the 4 way hand control buttons are pressed.</p> | <p> Bottom Battery Status Indicator light flashing 'Red'.</p> |
| <p> Ensure that the Airflo 24 has been switched on.</p> | <p> This happens when the compressor's internal temperature cut-out has tripped. Leave the Airflo 24 for 60-90 minutes to cool.</p> |
| <p> Check that there are no kinks in the air hose.</p> | <p> Compressor causes electrical interference with another piece of electrical equipment.</p> |
| <p> Compressor keeps stopping when trying to inflate the lifting aid.</p> | <p> Move either the compressor or other item further away from each other until the interference stops.</p> |
| <p> Check that there are no kinks in the air hose.</p> | |

Specifications

Airflo 24

- Weight: 4.1Kg (9 lbs)
- Output pressure: 0.31 bar (4.5 psi)
- Batteries: 1 x 24v- 2200mAh Ni-MH battery pack
- Battery Life: Greater than 500 charging cycles (2- 5 years depending on usage)
- Environmental protection: IP51 (Protection against large dust deposits & vertical falling drops of water)
- Type BF equipment
- This equipment has been tested and meets the requirements of current EMC legislation

Charger: *Model number* - HX2902SR

- Input: AC 100v - 240v, 50-60Hz, 0.5A Max
- Output: DC 30v, 0.45A
- Class II Double insulated equipment

Symbols used on Airflo 24 and Charger labels



Warning



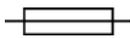
Attention consult instructions



Type BF equipment (protection against electric shock)



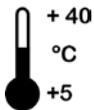
Alternating current (AC)



Fuse (with rating)



Direct current (DC)



Max/Min operating environment temperature



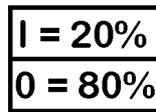
For indoor use only. Do Not connect to mains power in a bathroom or outdoors.



Class II Double Insulated equipment



Dangerous voltage



Duty cycle

I = Operating time

O = Non operating time

(Max continuous operating time = 5 minutes)



Recycle



Do not dispose of in household waste



Date of manufacture



Power Button



Battery Status Indicator Button

Symbols used on packaging



Keep packaging dry



Handle with care



Max/Min storage temperature



Net & gross weights



Stack no more than five high



Recycle packaging



Do not dispose of in household waste

93% RH
15% RH

Max/Min humidity when transporting or in storage

700 mBar
1060 mBar

Max/Min pressure when transporting or in storage

+70° C
-25° C

Max/Min temperature when transporting or in storage

Warranty

The warranty is given against defects in material and workmanship and comprises piece, parts and labour. The warranty is not valid in the case of fair wear and tear, wilful damage, common neglect, misuse or unauthorised alteration or repair by unqualified persons.

The following statements do not affect the consumer's statutory rights. This product is sold on the understanding that in the event of any defect of manufacture or material appearing within the warranty period, the defect will be rectified free of charge providing that:

- Reasonable evidence is provided (e.g. purchase invoice, delivery note) that the claim is being made within the warranty period.
- The defect is not attributable to accidental damage (either in transit or otherwise), misuse or unauthorised repair.

Airflo 24 serial number:

Date of purchase:

Invoice/Delivery note number:

We strive to provide our customers with reliable and durable products of the highest quality. In addition to our standard warranty, and for added peace of mind, our Customer Service Department offers an **Annual Service and Clean package**.

To find out more about this service please call our Customer Service Department on **Freephone 0800 2800 485** (UK only).

DECLARATION OF CONFORMITY

This is to certify that :-

The
Airflo 24 Compressor -

complies with:-

The requirements for Class 1 devices according to Annex VII of the Medical Devices Directive 93/42/EEC as amended by 2007/47/EC

IEC 60601-1

Medical Electrical Equipment - General requirements for basic safety and essential performance

IEC 60601-1-11

Medical Electrical Equipment - Requirements for use in the home care environment

IEC 60601-1-2

Medical Electrical Equipment - Electromagnetic compatibility

Signed:



Date: April 2017

C. Butcher (Finance Director)

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Mangar
HEALTH





Please note that these instructions are available in other languages and can be downloaded from our website by visiting www.mangarhealth.com

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