



HYBRID MATTRESS SYSTEM

USER MANUAL

PTM638010

Hybrid Mattress - Single

PTM638015

Hybrid Mattress - King Single

PTM638020

Hybrid Acute Mattress - Single

PTM638025

Hybrid Acute Mattress - King Single

PTM638030

Alternating Air Pump - Digital



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Thank you for choosing this Aspire Lifecomfort Hybrid Mattress System.

This mattress has been designed specifically to offer comfort, support and protection.

It is important that you read this user manual carefully before using your new Aspire Lifecomfort Hybrid Mattress System.

SYMBOLS USED IN THIS MANUAL

The symbols below are used throughout this user manual and on the product to identify warnings and important information. It is very important for you to read them and understand them completely.



WARNING! Indicates a potentially hazardous condition/situation. Failure to follow designated procedures can cause either personal injury, component damage or malfunction. On the product, this icon is represented as a black symbol on a white triangle with a black border.



ALWAYS! These actions should be performed as specified. Failure to perform mandatory actions can cause personal injury and/or equipment damage. On the product, this icon is represented as a white infinity symbol on a black dot with a white border.



DO NOT! These actions are prohibited. These actions should not be performed at any time or in any circumstances. Performing a prohibited action can cause personal injury and/or equipment damage. On the product, this icon is represented as a white symbol with a black circle and black slash.



Range is 30 - 230kg

PATIENT WEIGHT RANGE. This represents the range within which the mattress provides effective pressure redistribution outcomes. Patient weight should NOT fall outside this range at any time as this may void warranty and/or produce ineffective patient support outcomes.

1. INTRODUCTION

The Aspire Lifecomfort Hybrid Mattress Systems can be used as a static support surface or stepped up to an alternating pressure support surface offering a suite of features for an occupant at Medium to High risk of pressure injury.

Ease of use, functionality, serviceability and cleaning practicality are key features of the Aspire Lifecomfort Hybrid Mattress System.

Clinical Applications and Area of Use

This Static or Alternating Mattress Replacement is appropriate for adult patient care and should only be used under the instruction of a carer or health professional where concerns exist around patient safe use.

Intended Use

The Aspire Lifecomfort Hybrid Mattress Systems are intended to help and reduce the incidence of pressure injuries while optimising patient comfort. Aspire Lifecomfort Hybrid Mattress Systems may be used in a variety of environments including, but not limited to in home care, aged care and hospital.

Product Description

The Aspire Lifecomfort Hybrid Mattress Systems offer foam-in-cell technology enabling flexible operation as either a high comfort foam static support surface or powered-up alternating pressure support surface.

The Aspire Lifecomfort Hybrid Mattress Systems offer users a comfortable and relaxing support surface incorporating the established principles of alternating therapy (when pump is connected) which can both prevent skin breakdown and enhance healing.

The Aspire Lifecomfort Hybrid Mattress features a multi-stretch PU coated fabric cover (with high MVTR) along with 6 x foam filled alternating cells, 3 x static head cells and an optimised heel protection zone for pressure redistribution in the vulnerable heel area.

Key Features

- Patient weight range of this mattress replacement is 30 - 230kg, this should not be exceeded at any time
- **Self Adjusting Pressure Redistribution** - In non-powered mode, 9 interconnected foam filled cells allow air to move freely between them via the user's body movements. An integrated memory foam overlay improves immersion, envelopment and comfort
- **Active Pressure Redistribution** - In powered mode, the alternating and static mode become available
- **Alternating Mode** - Provides an active support surface that redistributes pressure beneath the user via a 1 in 2 alternating cycle
- **Intelligent Static Mode** - Uniformly distributes pressure to create a firm surface to assist with patient transfers and bed entry/exit
- **Optimised Heel Protection** - A 12° heel zone redistributes pressure up the lower leg, away from the vulnerable heel region. The castellated surface collapses in a wave-like movement reducing shear
- **Intelligent Hose Management** - When not in use the air-hose can be stored internally, reducing infection control and OH&S issues
- **Memory Foam Top Layer** - Integrated memory foam overlay improves immersion, envelopment and comfort
- **CPR Compatible** - Because the mattress has a foam core, CPR can be conducted at all times by simply disconnecting the pump from the mattress to create a foam patient surface to facilitate cardio pulmonary resuscitation in emergency situations
- **Integrated Shear Reduction** - The memory foam overlay moves independently of the underlying cells, reducing shear as the bed profiles
- **Breathable Cover** - Multi-stretch cover offers a high Moisture Vapour Transfer Rate (MVTR) which promotes air flow and optimal skin microclimate
- **Superior Infection Control** - Fully welded seams, with waterfall zip covers, ensures protection against fluid ingress. Leading European cover fabric maximises hygiene and performance outcomes

2. SAFETY PRECAUTIONS

This user manual outlines the intended use of the Aspire Lifecomfort Hybrid Mattress System. The intended use constitutes how to achieve maximum comfort whilst maximising safety and efficiency for care staff and patients alike.

It is **IMPORTANT** that this user manual is read in its entirety prior to operating the Aspire Lifecomfort Hybrid Mattress System. The manual is designed to ensure that patients are equipped with the information required to competently and responsibly operate the user's mattress and pump.

It is recommended that the user manual be kept in an easily accessible place for quick reference. If required, Aidacare product specialists can provide additional training.

All **WARNINGS** and **CAUTIONS** within this manual should be strictly adhered to. Failure to do so could result in harm to the patient or operator.

CAUTIONS highlighted throughout this manual identify possible hazards in procedures or conditions, which if not followed correctly could result in equipment damage, or failure.

 **WARNINGS** highlighted throughout this manual identify possible hazards in procedures or conditions which if not followed correctly could result in serious injury, or fatality.

General

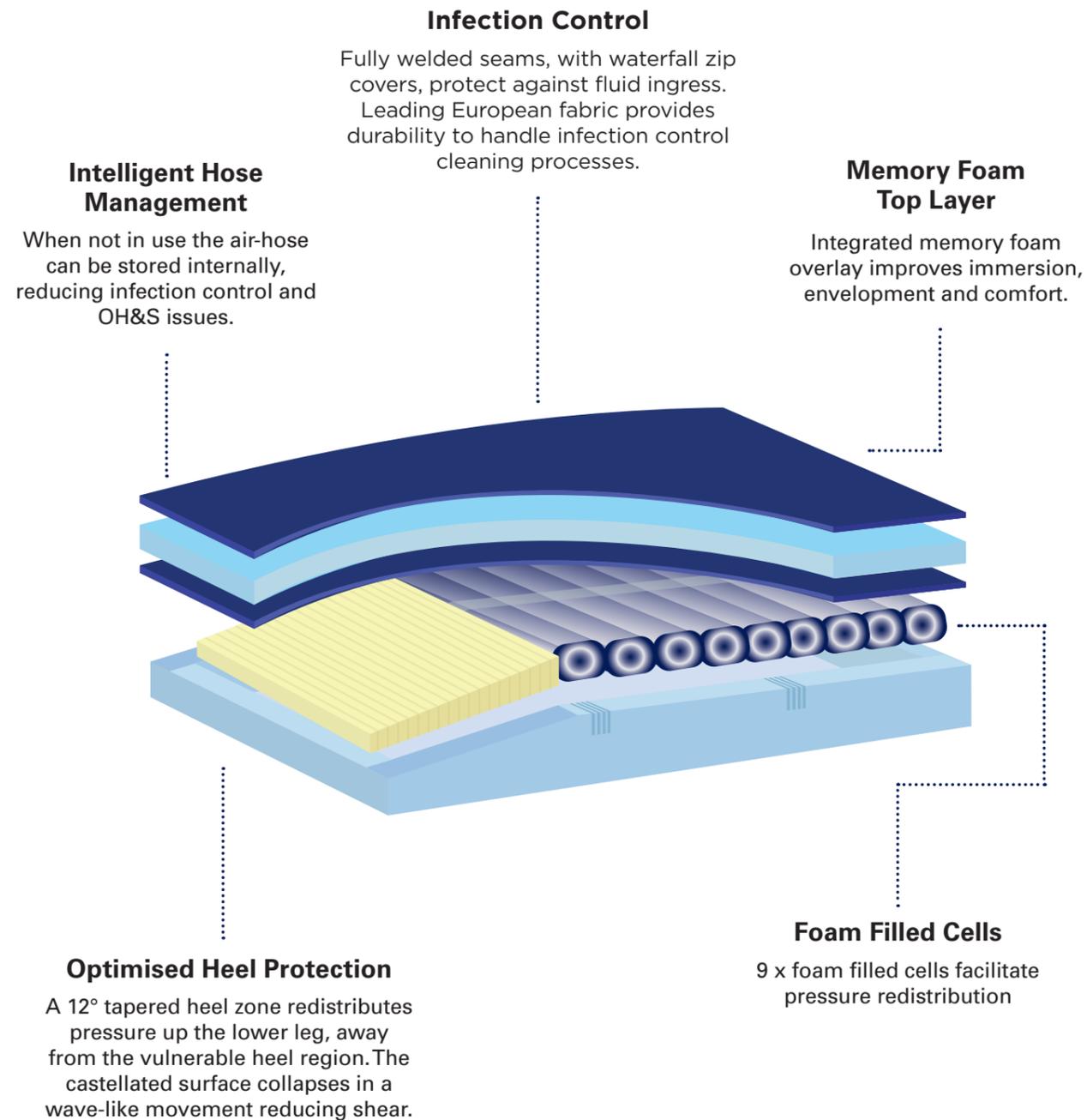
- Electrical equipment can be hazardous if used incorrectly
- Residual Current Devices (RCD) are not supplied with Aspire Lifecomfort Hybrid Mattress Systems. Please consult with your Biomedical Engineer/advisor concerning RCD requirements
- The clinically qualified person responsible should consider the age, size and condition of the patient before using the Aspire Lifecomfort Hybrid Mattress System
- The maximum safe working load of the Aspire Lifecomfort Hybrid Mattress System is 180kg with a safe patient range of 30 - 180kg
- The maximum safe working load of the Aspire Lifecomfort Hybrid Acute Mattress System is 230kg with a safe patient range of 30 - 230kg
- This mattress is not to be used on top of a pre-existing support surface. This is a Mattress Replacement so there is no need for a static foam mattress or pressure safety underlay to be located underneath, this mattress can go directly onto the bed platform

3. PRODUCT SAFEGUARDS

SAFEGUARD	DESCRIPTION
 WARNING! To reduce the risk of electrocution	<ol style="list-style-type: none"> 1. Occupants should not operate the product at any time. Always ensure that the pump is unplugged when not in use. 2. Do not disassemble the pump at any time. 3. Do not place or store the pump close to water or any other liquid. 4. Do not submerge the pump in water or any other liquid. 5. Do not make contact with the pump if it has come into contact with water or any other liquid, unplug immediately.
 WARNING! To reduce the risk of burn, electrocution, fire or injury to the patient	<ol style="list-style-type: none"> 1. When powered mode is to be used, the mattress will become active by connecting it to the pump. Ensure the pump is not turned off or unplugged whilst in use. 2. Always ensure that warning labels are adhered to ensuring that voltage is correct, approved power cords are used and that Children & Animals do not come into contact with the packaging materials that could cause suffocation. 3. Equipment is not suitable to be used in the presence of a flammable anaesthetic mixture with air, oxygen or nitrous oxide. 4. Keep away from sharp objects. 5. Close supervision is necessary when this product is used by, on, or near children or people with disabilities. 6. Use this product only for its intended use as described in the user manual. Do not use attachments not recommended by Aidacare. 7. Do not operate this product if the pump has a damaged power cord or plug, not working properly, has been dropped or damaged or dropped/submerged into water or another liquid. If this occurs, contact your Aspire dealer immediately for a product inspection. 8. Keep the power cord away from hot surfaces. 9. Do not block the air valves/tubes/openings by placing on a soft surface such as a bed or couch. Keep all valves/tubes/openings responsible for air flow, clear of all lint, hair and other particles. 10. Do not insert any object into the air valves/tubes/openings. 11. Avoid dropping pump and do NOT mount any heavy objects on top of it. 12. Place the power cord and air hoses at the occupant's foot area to avoid strangling of the occupant's neck. 13. Avoid electromagnetic interference by ensuring that electro-magnetic or RF generated equipment is kept away from the occupant. 14. Over the course of operation, the pump will generate a small amount of heat. Do not maintain skin contact with pump for more than 1 minute at a time. Never cover the pump when it is in use, ensure air flow to pump is free at all times. 15. During a power outage or loss (even if only temporary) the pump will stop and power failure alarm will sound for up to 20 seconds. The pump will return to normal operation once the power supply is resumed. 16. Connect this product to a properly grounded power outlet only. 17. Avoid the risk of electrocution by grounding the ground pin with grounding power outlet. 18. The EMC specification is compliant with all regulations and requirements. For power leads with a ground pin, the connection with properly grounded power outlets will suppress the EMC effect. The pump will work correctly for power leads that are not grounded.

4. PRODUCT OVERVIEW

The Aspire Lifecomfort Hybrid Mattress System has been designed for the aged care and hospital environment. Please take the time to familiarise yourself with the key components shown below:



5. ASSEMBLY & SETUP

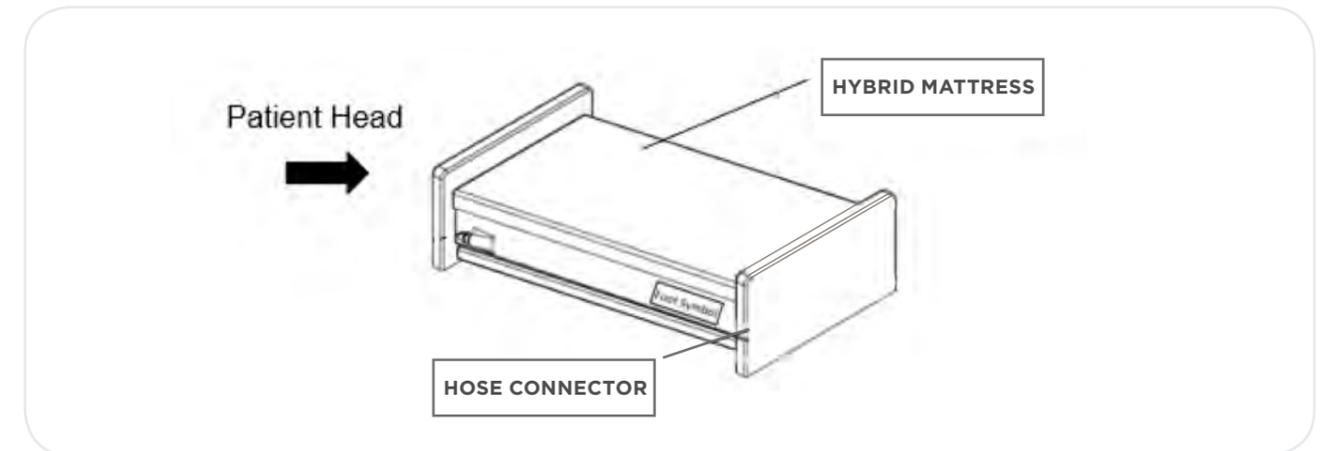
Box Contains:

1. Hybrid Mattress
2. User Manual
3. Digital pump (sold separately)

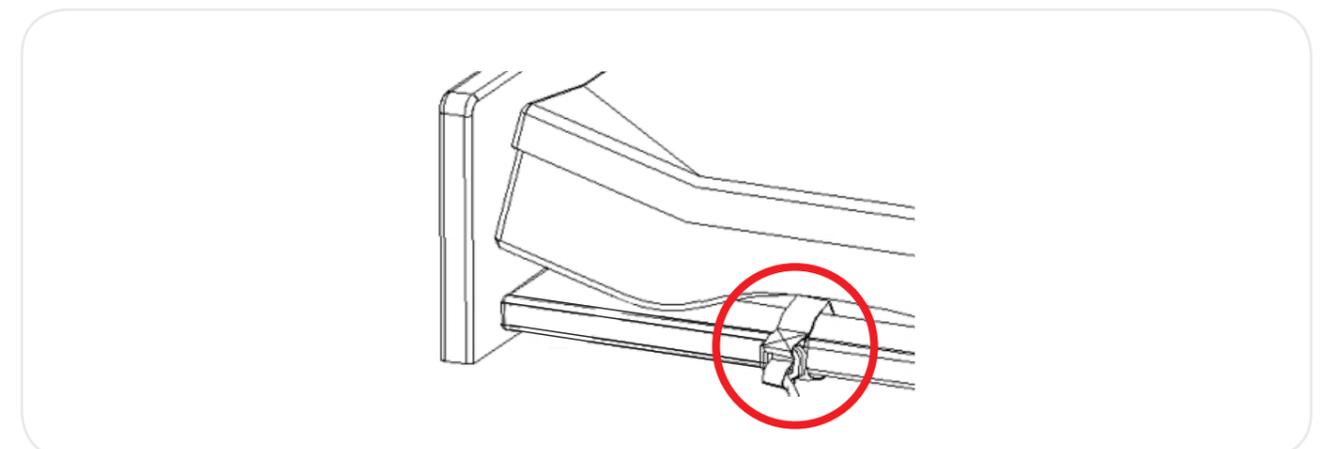


When opening the carton, ensure it is done in a safe and careful manner. **DO NOT USE** a box cutter or sharp implement as this may damage the product.

1. Place the Aspire Lifecomfort Hybrid Mattress System directly onto the mattress platform, ensuring that there is no existing foam mattress or pressure safety underlay underneath. Ensure the **HEEL PROTECTION ZONE** is towards the **FOOT END** of the bed

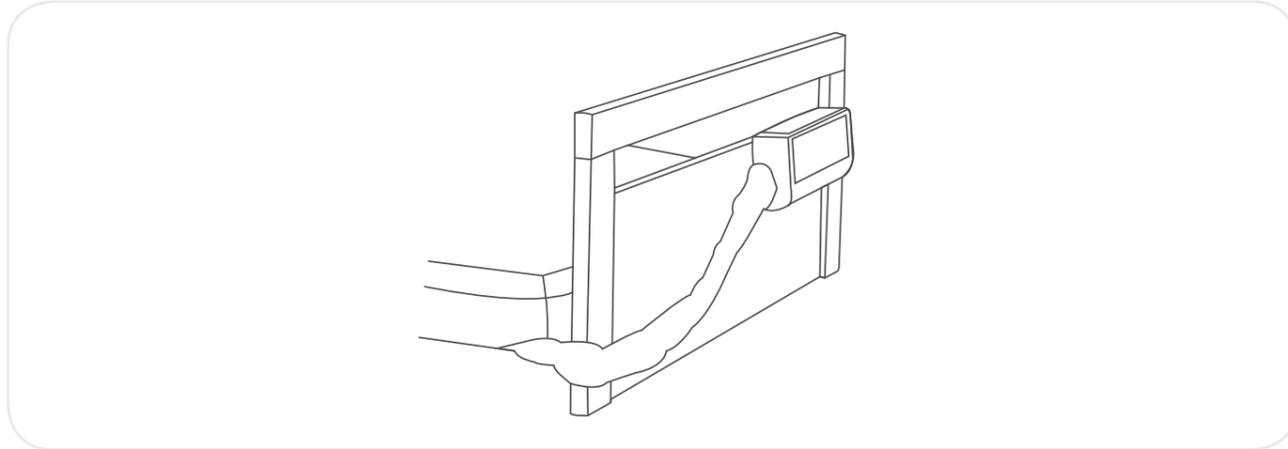


2. Secure the Aspire Lifecomfort Hybrid Mattress System onto the mattress platform by fastening and securing the nylon straps and plastic buckles

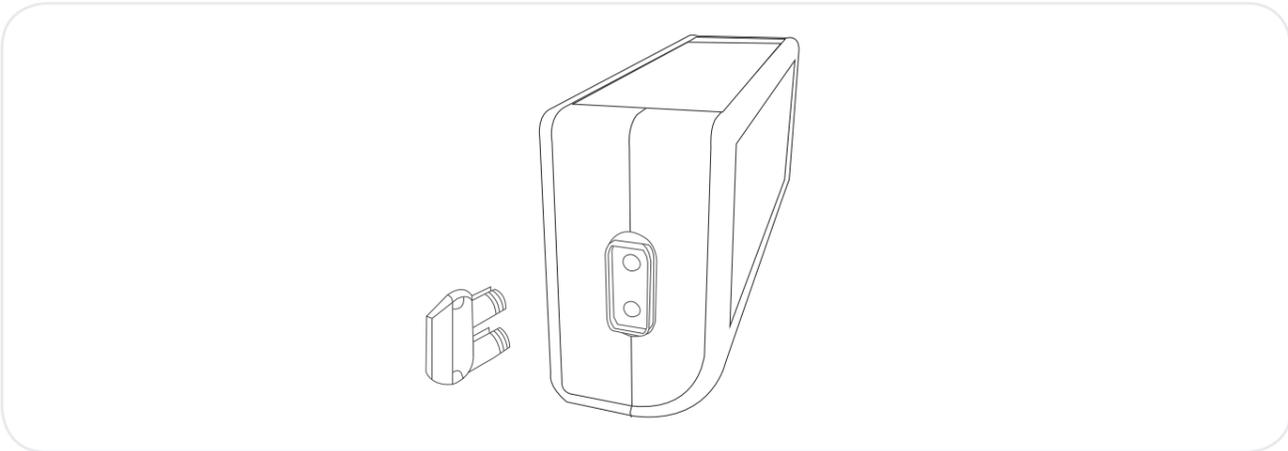


When using Aspire Lifecomfort Hybrid Mattress System with Pump:

3. Position the pump on the **FOOT END** of the bed end. The hanger bracket assembly will position the pump onto the bed end



4. Firmly push the hose connector into the side of the pump until a notable **'click'** sound is heard



5. Connect the mains power cable to the power outlet and turn **ON**



6. Plug the mains power cable into the electrical power socket
7. Set mode suitable for patient (Refer to **OPERATION** for further details on how to adjust the mattress replacement)



WARNING! DO NOT place the pump unit in an area where the power cord can become pinched or stuck



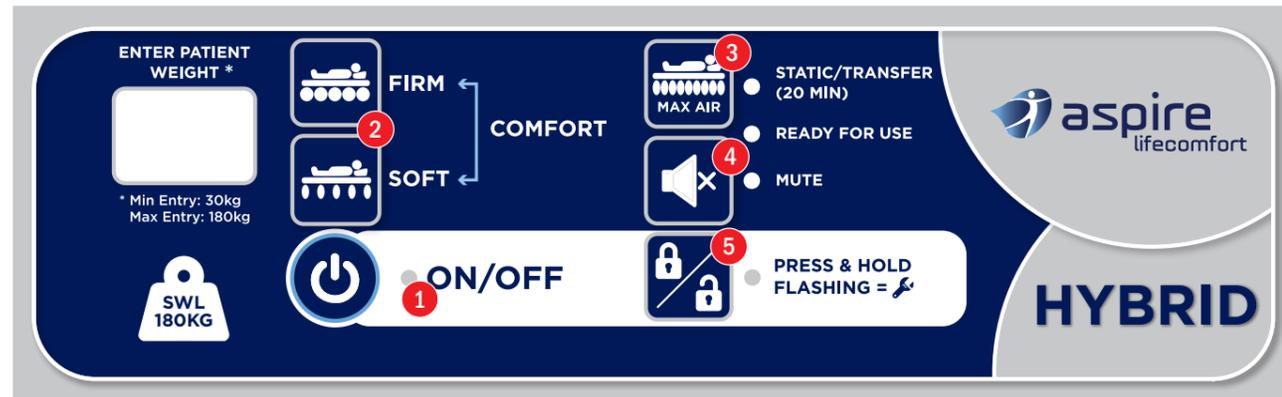
WARNING! The pump is only to be used with the Aspire Lifecomfort Hybrid Mattress System and not any other system

6. OPERATION

Aspire Lifecomfort Hybrid Mattress Systems can be powered by a digital pump (sold separately) which can be controlled with the digital control panel.

Various modes can be set on the digital pump to ensure maximum comfort and safety for the occupant.

Control Panel Operation

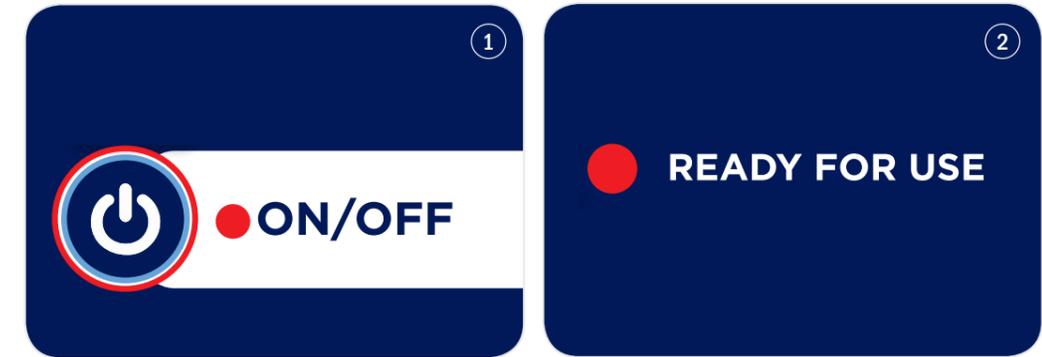


- 1 Power On/Ready for Use
- 2 Comfort Level
- 3 Static/Transfer Mode
- 4 Mute
- 5 Function Lock Out

Power On/Ready For Use

The power button for the pump is located on the front of the pump.

1. Press the power button **ON**
2. The LED next to the power button will illuminate. Cells will inflate, **READY FOR USE** LED will illuminate and alternation will begin (unless static/transfer mode is selected)



Comfort Level

Comfort level can be set specific to the occupants weight, ensuring for the correct amount of pressure redistribution.

1. Press the **FIRM** button to adjust patient weight **UP**, when released the correct amount of pressure will be distributed throughout the mattress
2. Press the **SOFT** button to adjust patient weight **DOWN**, when released the correct amount of pressure will be distributed throughout the mattress
3. The LED screen to the left of the comfort adjustment buttons will show the patient weight that has been set by pressing the **FIRM/SOFT** buttons



Static/Transfer Mode

When a static surface or patient transfer is required, the **STATIC/TRANSFER** mode can be enabled.

1. Press the **MAX AIR** button to initiate Static/Transfer Mode
2. The LED will flash until maximum pressure is achieved, it will then become solid when **STATIC/TRANSFER** mode is ready



NOTE: After 20 minutes the system reverts to alternating mode. This ensures maximum user protection and pressure management if staff forget to reactivate alternation.

Mute

1. Press the **MUTE** button to nullify all alarms from the pump
2. If the issue is not rectified, the mute button will be automatically disabled and the alarm reactivated. This is a safety function to ensure a prompt response when an issue or fault occurs



Function Lock Out

Carers can lockout functions to ensure they are not accidentally knocked or changed, impacting the operation of the system for the user.

1. Press and hold the function lock out button until the LED light is illuminated. When illuminated the functions are locked out
2. To reverse this process, press and hold the function lock out button until the LED light is out. When LED is off all functions are unlocked



7. PRODUCT SPECIFICATIONS

PUMP UNIT	
Code	PTM638030
Dimensions (mm)	320mm L x 130mm W x 230mm D
Weight (kg)	3.5kg
Cycle Times	11 minutes
Static Time	20 minutes
Pump Output Pressure Range (mmHg)	10-52 mmHg
Power	220-240V; 50Hz
Fuse Rating	3A
Frequency	50 Hz (230V)
Classification	Class II Type BF
Operation Environment	5°C - 40°C 15%RH - 93%RH (no condensation)
Storage Environment	-25°C - 70° 93%RH (no condensation)
Environment Pressure	70 kPa-101.3kPa
Environment Horizontal Pressure	3000m
Water and Dust Protection Classification	IP21

AIR MATTRESS - HYBRID		
	Single	King Single
Code	PTM638010	PTM638015
Dimensions (mm)	1980mm L x 895mm x 170mm H	1980mm L x 1050mm x 170mm H
Weight (kg)	20kg	22kg
Cell Material	PU	PU
No. of Air Cells	9 (6 x alternating & 3 x static head)	9 (6 x alternating & 3 x static head)
Cover Material	Multi-stretch PU coated fabric with high MVTR	Multi-stretch PU coated fabric with high MVTR
Bottom Material	Polyester-PU	Polyester-PU
S.W.L	180kg	180kg

AIR MATTRESS - HYBRID ACUTE		
	Single	King Single
Code	PTM638020	PTM638025
Dimensions (mm)	1980mm L x 895mm x 170mm H	1980mm L x 895mm x 170mm H
Weight (kg)	20kg	22kg
Cell Material	PU	PU
No. of Air Cells	9 (6 x alternating & 3 x static head)	9 (6 x alternating & 3 x static head)
Cover Material	Multi-stretch PU coated fabric with high MVTR	Multi-stretch PU coated fabric with high MVTR
Bottom Material	Polyester-PU	Polyester-PU
S.W.L	230kg	230kg

8. CLEANING

To ensure all infection control protocols are strictly adhered to, it is extremely important to follow the below steps to keep the Aspire Lifecomfort Hybrid Mattress System clean at all times.

Mattress Pump

- Wipe with a damp cloth that has been pre-soaked with a mild detergent
- Ensure pump is kept free of dust and other particles



DO NOT! Immerse or soak the mattress pump at any time

Mattress Cover

- To remove small spills or stains, wipe the mattress cover with a damp cloth that has been pre-soaked with a mild detergent or single use disinfectant wipe
- To remove large spills or stains, the top cover should be completely removed and laundered as per below procedure:
 1. Remove top cover by unzipping all 4 x sides from the mattress base
 2. Prewash top cover at up to 95° for 15 minutes
 3. Main wash top cover at up to 95° for 15 minutes
 4. Dry mattress cover prior to use by hanging up on a line/air dryer or on a low heat setting it can be tumble dried for up to 90 minutes
 5. Once dry, reattach top cover by zipping all 4 sides back onto the mattress base



DO NOT! Use phenol based products



WARNING! After cleaning, the mattress must be completely dried prior to use



WARNING! Do not dry mattress cover in direct sunlight to prevent wearing out of text on cover

9. MAINTENANCE & STORAGE

To ensure longevity of your Aspire Lifecomfort Hybrid Mattress System, it is very important that it is correctly stored and regularly maintained.

General

- Check mains power cable and plug for any abrasions or excessive wearing
- Check mattress cover for signs of wear or damage
- Check air hoses for any kinks or breakages

Fuse Replacement

- Disconnect the mains power if there is a blown fuse
- Remove the cover on the side casing of the pump
- Remove old fuse and reinsert a new fuse, fix in place with the cover



WARNING! Only use fuse supplied by your Aspire Dealer, ensuring it has the correct rating and specification

Air Filter Replacement

- Remove the cover on the rear casing of the pump
- Remove old filter and reinsert a new filter, fix in place with the cover

NOTE: If the filter does not require replacement, it can be cleaned by being washed gently with a mild detergent and warm water. Ensure the filter is dry prior to installing back into mattress pump.



WARNING! Only use filter supplied by your Aspire Dealer, ensuring it has the correct rating and specification

Storage

- Release all air from mattress cells by unplugging mattress pump from hose
- Store pump hose in storage pocket at **FOOT** end of mattress
- Secure and tighten mattress straps under mattress to prevent damage
- Store mattress in dry and cool area when not in use
- Store pump in dry and cool area when not in use

10. TROUBLESHOOTING

PROBLEM	SOLUTION
Pump will not connect with mattress	<ul style="list-style-type: none"> • Check mattress and pump are compatible, only digital Aspire pumps are to be used with this system • If problem persists, contact your Aspire dealer
Pump not working	<ul style="list-style-type: none"> • Check pump is connected to mains power • Check power switch is in the ON position • If problem persists, contact your Aspire dealer
Power failure	<ul style="list-style-type: none"> • Contact your Aspire dealer immediately
Low pressure LED light flashing/alarm is going off	<ul style="list-style-type: none"> • Check air hoses/tubes are tightly secured • Check all coupling connections along the mattress are secured • If problem persists, contact your Aspire dealer
Pump is on but mattress will not alternate	<ul style="list-style-type: none"> • Ensure the mattress is inflated • Check if ALTERNATING mode is ON • If problem persists, contact your Aspire dealer
Alarm is sounding	<ul style="list-style-type: none"> • If problem persists, contact your Aspire dealer
Noisy pump	<ul style="list-style-type: none"> • Check pump is mounted correctly and flat against FOOT end of bed • If noise persists, contact your Aspire dealer
Bottoming out but no alarm	<ul style="list-style-type: none"> • Check pressure setting is correct for specific patient • If the problem persists, contact your Aspire dealer

As a quick reference tool, refer to the troubleshooting sticker on the front of the pump casing for quick solutions. Always refer to the user manual where possible.

Issue	Possible Cause	Possible Resolution
Alarm beeping/Flashing/No lights	<ul style="list-style-type: none"> • The plug is not properly connected/switched off at the wall • A power outage has occurred • The fuse is broken • The machine/system is broken 	<ul style="list-style-type: none"> • Make sure the power is correctly connected • Is the voltage normal (power outage occurred?) • Await re-connection of power • Check the fuse, replace if broken • Switch off and on again (pump) • Contact your local Aspire dealer or Aidaca re to arrange repair or replacement
Alarm beeping/Flashing/Mattress soft or flat	<ul style="list-style-type: none"> • The mattress is not connected to the pump correctly • Air tube is disconnected or damaged • CPR is not attached properly 	<ul style="list-style-type: none"> • Check the tube connectors are attached to the mattress • Ensure the CPR is closed tightly • Contact your local Aspire dealer or Aidaca re to arrange repair or replacement
Alarm beeping/Flashing/Mattress too hard or soft	<ul style="list-style-type: none"> • The air pressure is not adjusting to required level 	<ul style="list-style-type: none"> • Hold down lock key (3 seconds). Then adjust the pump pressure (firmer or softer) according to the user weight until suitable / comfortable • Contact your local Aspire dealer or Aidaca re to arrange repair or replacement
Mattress flat/Very soft	<ul style="list-style-type: none"> • Air hoses are loose or not connected properly • CPR not attached properly • The air pressure is not adjusting to required level 	<ul style="list-style-type: none"> • Check all the air hoses and connectors • Ensure the CPR is closed tightly • Adjust the pressure on the pump. If it is showing maximum pressure and full inflation has not been achieved, then the pump may be faulty • Contact your local Aspire dealer or Aidaca re to arrange repair or replacement
Noisy pump	<ul style="list-style-type: none"> • The pump is not located on a flat area or not hooked properly on the bed end • Pump has been dropped/loose internal components 	<ul style="list-style-type: none"> • Ensure the pump is on a flat area and in a suitable position on the bed end • Contact your local Aspire dealer or Aidaca re to arrange repair or replacement



11. WARRANTY & SERVICE

Aspire Lifecomfort Hybrid Mattress Systems carry a comprehensive warranty as detailed below. Please keep proof of purchase for proof of warranty commencement.



Consumer Warranty Against Defects:

Aidacare is bound by Australian Consumer Law in respect to Warranty Against Defects. A copy of the Aidacare Warranty Against Defects statement is available on the Aidacare homepage at www.aidacare.com.au. All warranty matters should be directed to Aidacare Customer Service on 1300 133 120.

Aidacare does not warrant against excessive or incorrect use, modification or any situation that could not be deemed as fair wear and tear. This is a back to base warranty and does not cover freight costs pertaining to the return of any items under warranty. Aidacare acknowledges and conforms to all ACCC guidelines around consumer rights. For further information contact Aidacare on 1300 133 120 or email product@aidacare.com.au

Aidacare will not warrant the safety and or correct functioning of products where any original components have been changed or modified by non-Aidacare approved and trained service & maintenance staff or external providers. Furthermore, safety is not guaranteed where components have been replaced with non-original Aidacare approved parts. If any faults are detected upon receipt of this product please phone Aidacare. Any faults that are detected during normal use should be reported to Aidacare immediately to determine if warranty conditions apply and if so, the necessary repair or replacement work to be completed.

Spare parts list is available upon request.

For servicing, preventative maintenance and any other questions regarding this or any other Aidacare product please contact:

Aidacare Pty Ltd
4 Noonan Rd, Ingleburn NSW 2565
T - 1300 133 120
W - www.aidacare.com.au
E - product@aidacare.com.au

12. SERVICE LOG BOOK

YEAR 1	Date: _____
Service Type: _____	
Condition Report: _____	

Action taken: _____	
Inspected By: _____	
Signature: _____	
YEAR 2	Date: _____
Service Type: _____	
Condition Report: _____	

Action taken: _____	
Inspected By: _____	
Signature: _____	
YEAR 3	Date: _____
Service Type: _____	
Condition Report: _____	

Action taken: _____	
Inspected By: _____	
Signature: _____	
YEAR 4	Date: _____
Service Type: _____	
Condition Report: _____	

Action taken: _____	
Inspected By: _____	
Signature: _____	
YEAR 5	Date: _____
Service Type: _____	
Condition Report: _____	

Action taken: _____	
Inspected By: _____	
Signature: _____	

YEAR 6

Date: _____

Service Type: _____

Condition Report: _____

Action taken: _____

Inspected By: _____

Signature: _____

YEAR 7

Date: _____

Service Type: _____

Condition Report: _____

Action taken: _____

Inspected By: _____

Signature: _____

YEAR 8

Date: _____

Service Type: _____

Condition Report: _____

Action taken: _____

Inspected By: _____

Signature: _____

YEAR 9

Date: _____

Service Type: _____

Condition Report: _____

Action taken: _____

Inspected By: _____

Signature: _____

YEAR 10

Date: _____

Service Type: _____

Condition Report: _____

Action taken: _____

Inspected By: _____

Signature: _____



Imported by:

AIDACARE P/L | 4 Noonan Rd, Ingleburn NSW 2565

T - 1300 133 120 | W - www.aidacare.com.au