User Manual Dynamic Plus SUPPORT SURFACE

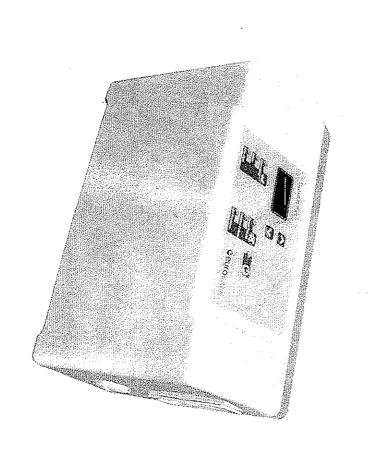


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Preface

Dear User:

service and the maintenance in the future. Thank you for your attention Thank you for your purchase Singa's product. Please keep the following data for the after

- 1. Product sories label (with the product sories No.)
- 2. Purching record, invoice, receipt (with date of purchase and shop stamp
- 3. Product warranty (with date of purchase and shop stamp, Model number & sories 🙌 🚇
- 4. Product carton(with product series No.)

will offer the first after service If any question for the product, you can provide us any one of the above purchase recens, is

Dynamic Plus mattress is designed

pressure on the skin to be released. body can be completely immersed in the mattress; it can well support the user's fody and let the pressure can be released. Dynamic Plus surface support system can ahape the user's budy was the the patient weight to be spread all over on the mattress. skin tissue damage and the risk of bedsores. The Dynamic Plus surface support system employed Phis air mattress can ensure the patient decumbency stability and the user can avoid suffering week The Dynamic Plus surface support system includes the air mattress and the air pump. Dynamic Any movement of fasture on the best the

Whom does the surface support system we design for?

- injury or heavy patients) ➤ Pationts who are exert-term lying in bed to prevent bedsores (such as accidental
- ➤ bedridden patients (such as the olderly, severe bedridden patients, vegetative, etc.)

The purposes of the Dynamic Plus surface support system?

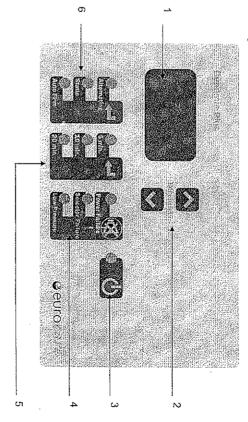
- To spread the pressure on the body / skin.
- To prevent and decrease the skin bedsores

the skin tissue duringed and the badgores occurred the patients stand up or turn over or lift the pullent's body). That's the best way to prevent We recommend to change the position of the pressure points in the skin (such as: to let

Function Introduction

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Dynamic Plus: Model 1



Description of Device

1. TN- LCD monitor:

High efficiency power saving LCD, indicating the current operation function of Dynamic Plus.

Weight option:

Input the user's weight value, then the Dynamic Plus CPU will automatically





set up the most suitable pressure value of the pump.

3. Power:

Following the user manual, the user sets up the Dynamic Plus and the air

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mattress, then turn on the power on the left side. Once the power light is on, the Dynamic Plus is ready and standby. Then user can start to operate any function and use the Dynamic Plus pump.

4. Alarm Functions of the Device:

a. Power Failure:

(I) When the yellow light is on, it means the power (AC100~240V) does not work. The power might shut down or the power cord is pulled out. Please check the power supply and the electric plug.

(II) If the yellow light start twinkling every single second, it means the 9V battery power is weak. Please change a new 9V battery, to esnure the Dynamic Plus in good function of alarm.

b. Selector failure :



If the Selector Failure lights on, it means the air pump can not work in good condition to alternate. Please kindly contact our agents for the repair; never try to fix it by yourself.

c. Low Pressure



mattress

If the low pressure light is on, it is the mattress of air leaking.

Please following the procedure of "troubleshooting" to check the

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Alternating period:



Dynamic Plus *provides* three options (5/10/20 min.) of cycle time.

User should follow up doctors' instructions to select the alternating period.

[NOTE] Singa highy recommend to set up 10 mins. for the mattress afternating. It is the best set up after testing for user's pressure

relief and the most power saving efficiency

Operation mode:



a. Alternating:

To select the Alternating Mode, it enables the mattress to alternate by every three cells.



b. Static:

To select the Static Mode, the device will stop alternating. It will support a firm surface and keep the specific low pressure which allows patient a good sleep.

[Note]: The pump will change to "Alternating" mode after 2 hours of using Static Mode in order to keep the blood circulation function normally and prevent the pressure ulcers effectively.

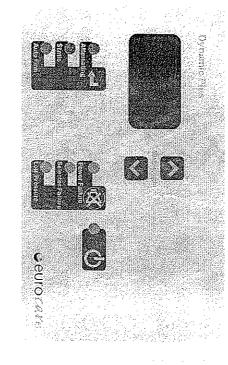


c. Auto Firm:

Auto Firm "ON" represents "Auto Firm" mode, the device will support a firm surface and keep the specific high pressure which provides patient a safety support.

- P.S : A. Make sure the nursing staffs assist patient to get off the bed, and use the qualified safety device to ensure patient against accidents.
- B. Suggest the user get back to the mattress and select the Alternating Mode, when he gets off the mattress in the auto firm mode. That can prevent the patient from ulcers.

Dynamic Plus Model M2

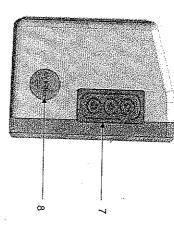


B Device introduction

Please refer the M1 introduction.

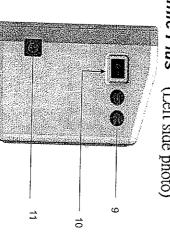
[NOTE] Dynamic Plus M2 features with no "cycle time" function

Dynamic Plus (Right side photo)



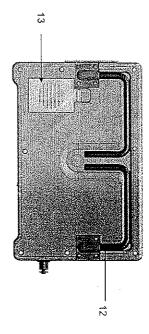
- 7. Tri-tube out-put: Air Flow out-put and Quick Connector
- 8. Filter: Air Flow in-put with an Air Flow Filter inside.

Dynamic Plus (Left side photo)



- Two Power Fuses: water and fire wire are separated, it complies with the standard of CE and FDA medical regulation
- 10.Power Switch: [-] POWER ON : [O] POWER OFF
- 11. Power Connector: Plug the power cord in this connector to provide the pump power (AC100/220V 50/60Hz)

Dynamic Plus (Back side photo)



12. Fixed Hooks: To fix Dynamic Plus on bed edge with the hook and make sure the knots tighten on the bed board.

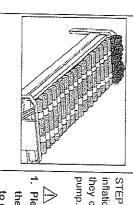
13.Battery Chamber: With built-in 9V battery inside; it's mainly used for Alarming Buzzer Power. The battery is consumable, please check it frequently and replace new one (When the Power Failure lights on and flashes every single second, meaning it is power shortage. Please change a new 9V battery to ensure the power for Alarm Function workable.)
[NOTE] Be sure to use the standard 9V battery. To use either Alkaline, Lithium Cell, or Ni-MH battery is prohibited.

Specification

Dynamic Plus Specification

Model	MI	M2
Air output (LPM)	. 8	8
Electrical AC 100-110V/60Hz,	V	V
AC 220-240V/50Hz	•	-
Working Surrounding	20-40°C /68-104°F	20-40°C /68-104°F
Multiple Sections for Patient's weight	٧	V
(30~130kgs)		
3 Sections A:B:C rating	٧	V
Cycle Time	5/10/20 mins.	8 mins
	Selectable	
Operation Mode	V	٧
(Alternating/Static/Auto Firm)		
Transport	٧	٧
Power Failure alarm	V	V
Selector Failure alarm	V	٧
Low pressure alarm	٧	٧
Auto-pressure detector	V	٧
TN- LCD Display	٧	A
Length of Power cord	300 cm	300 cm
Weight	3.2 kgs	3.2 kgs
Dimension	W260XD125XH170mm	W260XD125XH170mm
Regulation	- 1	01-1-2 CE(Europe)
7,000	CONTRACT (ABBURE)	9002/1008061

Dynamic Plus Installation



inflation tubes should be towards the foot end so that they can be connected to the inflation nozzles on the STEP 1: Place the mattress flatly on the soft bed. The

CAUTION :

1. Please have the tube (to connect with pump) at to connect with the Dynamic Plus. the end side of mattress(feet), that will be easy

Please place the Blue Strip with SINGA Logo mattress bottom end). near the food end(from the right hand side of

For the 4"/5" air mattress setting up, please place the mattress on the soft mattress. mattress over higher than the bed barrier. frame. So that the user would not fall due to the the soft bed, and place the mattress on the bed If you use 8" or 10" air mattress, please remove

Step 2 : Open the cover and organize cells overlapped and bedding last, or four straps fixed at the Put holders under the mattress of the bed head



1. Open the cover to check each nozzle tightly corners of the mattress (or bed frame) to avoid air mattress slide.



connected to beige tubes by the side of the

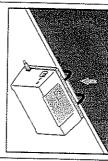
2. Check CPR stopper tightly connected with out the CPR release valve for emergency mattress. In case of emergency, please pull rescue use in a short period of time.



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3. Carefully Check the tubes can not be folded, side of the mattress. or disconnected with the beige tubes by the

Step 3 : Hang up the pump over the frame or board at secured under the bed. Make sure the pump is upright and the foot end of the bed. Or, put pump on the ground



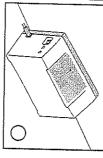
CAUTION:

properly placed by the following figures CORRECT INSTALLATION of Dynamic Plus pump



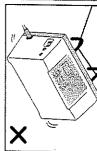
Correct :

Use the hanger to hang pump over the frame



Correct :

Put pump on the ground under the bed. Make sure the pump is upright and secured



place. Do not hang pump on the wire or unstable



Do not put pump upside down or sideways.

"click" sound heard. Step 4: Connect the quick connector with pump till the



- 1. Way to pull out the quick connector: 1)use the Dynamic Plus pump from left hand at the same gently press both ends' grooves, 2)to hold thumb and index finger from the right hand to
- 2. Without properly removing the quick connector properly, the company will be unable to incidentally. Note if operation is not done break up the Quick Connector by strong force compensate. Dynamic Plus pump from left hand, you might by pressing both ends' grooves and hold

Step 5: The power cord of pump is connected to the household main (110V or 220V) power supply



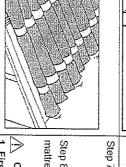
sure the voltage is compatible Before you plug in power cord into the outlet, make

figures.

in standby. Step 6: Turn on the power switch in the right hand side

of pump to light up the green(power indicator), pump is Users press the (power indicator) and LCD panel shows

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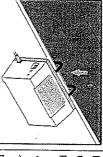
Step 7: About 40-80 minutes, the mattress getting order. Avoid the cells squeezed inflated, and organize the cells overlapped in

mattress) and flat the cover. Step 8: Fixed the release buckles (or zip up the

CAUTION:

- 1. Firs time fully inflation will take around 40-80 minutes, in accordance with different sizes of the mattress.
- 2. The user will be placed on the mattress when getting inflated (Step 7).

pump outputs proper air pressure of user's body weight user's body weight. LED indicator shows user's weight. Press the indicator to select weight, corresponding to Step 9: Weight selection



∠LCAUTION:

- mattress, it may reduce the bedsore relief. 1. Don't put too heavy or thick blanket on the
- 2. Air mattress is intended for the effect in reducing the incidence of skin pressure and prevention of

the pressure of the skin by using mattress. over or get off the bed daily, then alleviate or ease We highly recommend the users should be turned

Automatic Stop Inflation

While the air pressure drops below the default Low air pressure limit, Mai air pump Dynamic Plus pump's "Power Saving Mode" is controlled by microcomputer which limits further inflation while the air inflation reaches the default High air pressure of the cells. Also, automatically detects of insufficient air pressure from the cells and then starts intlation.

Dynamic Plus pump - Operation Instruction

[Alternating Mode]

STEP 1



in standby mode. the green { power indicator } by the left side of panel. Dynamic Plus pump is Turn on the power switch on the right side of Dynamic Plus pump to light up

Users press the power indicator and LCD panel shows figures. Dynamic Plus is in boot state

STEP 2:





user's body weight

Press 【Weight Indicator】 to select weight, corresponding to a

STEP 3 : Select [alternating]



After Power On, the Pump will switch to 【Auto Firm】, to detect if any damage or air leakage from the cells

limit, the pump will switch to 【Alternating】 automatically, If the air pressure from the cells reach the Default High Air Pressure

[Static Mode]







STEP 1 : Select [Static] while the Dynamic Plus is in [Alternating] mode Note 1 : Dynamic Pfus pump automatically distributes the airflow to fully inflate the cells up

to 65% of air pressure. Each cell is inflated in moderate hardness to provide users

Note 2: In order to prevent the occurrence of bedsores and pressure ulcers, the pump will comfort of the appropriate decompression mattress. Users have a good sleep

change to "alternating" mode after 2 hours of being in "static". Because of poor decompression of skin during sleep, please carefully set this mode on operation.

STEP 2 : Select [Alternating] when Dynamic Plus working in [Static] mode

















Dynamic Plus pump will be switched to "Alternating" mode.

[Alternating Mode] → [Static Mode] → [Auto Firm Mode] → [Alternating

[Auto Firm] Mode

Mode]

Mai, air will go to 【Auto Firm Mode】 from 【Alternating Mode】 → 【Static STEP 1: Select [Auto Firm] when Dynamic Plus is in [Alternating] mode. Mode] → [Auto Firm Mode] as a cycle

Note 1 : Dynamic Plus pump automatically distributes airflow to fully inflate the cells up to

from which will be at nursing carer's convenience for taking shower or feeding for mattress easily. The mattress will keep hardness and offer the best body support, 100% of air pressure. Each cell is inflated in hardness to help users get off the

Note 2: I. During the 【Auto Firm】, We highly recommend the user should be accompanied by carer to avoid unexpected injury from loosing balance.

 ${\rm I\hspace{-.1em}I}$. To prevent the bedsores get worse or the occurrence of bedsores and after 2 hours of being in "Static" mode. pressure ulcers, the pump will automatically switch to 【Alternating Mode】

STEP 2 : Select [Alternating] when Dynamic Plus working on [Auto Firm] Dynamic Plus pump will be switched to 【Alternating】 Mode with no delay.

Troubleshooting

When *Dynamic Plus* pump functions properly, no LED light of failure on the panel will light up. If one of failure LED lights up, please refer to the troubleshooting list as below.

Problem	Possible cause	Solution
[power indicator]	Eiro hirond	
Fail to light up.	Fuse burned.	Replace the earth or hot wire fuse in
Ĝ		left of the pump.
[power indicator]	THE PROPERTY IN COLUMN THE PROPERTY OF THE PRO	
Fail to light up	Motherboard Failure	
		Please contact with the distributors.
É		
[power failure]		•
Yellow lights up	I hable to nower mains	 Press to turn off the buzzer.
3	(AC220V)	2. Check if outlet supply is normal
Powerfalling	•	and/or if there is the mains power
Salector Faigre		outage.
P	÷	Check if the host power cord plug is loose
[power failure]		
Yellow flashing lights	9V square battery is low	 Press to turn off the buzzer.
S S		2. Replace immediately the 9V
		square battery to protect all
		warning function properly.
[alternating failure]		THE TAX AND ADDRESS OF THE TAX A
Yellow lights up	Internal Air Allocation	
	s out	 Press to turn off the buzzer.
Solution and the second	of work	2. Please contact with the
		distributors.
EN Traisme		

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Yellow fights up. Yellow fights up. Substitution of the control	Yellow lights up.	Yellow lights up. Campralling State of the	Yellow lights up. Yellow lights up. Warren Allow Substitution Warren Million Warren Milli	[low pressure] Yellow fights up. Output and Acceptance of the Control of the Cont
Air leak of the cells	Air leak of the round one-way valve	Air leak of the CPR emergency valve	Air leak of beige tubes by the side of mattress.	Air leak of the quick connector
 Press to turn off the buzzer. Check up if leakage from cells Check up if the beige tubes well connected with the cells. 	 Press to turn off the buzzer. Check if the round one-way valve is broken. Check up if the round one-way valve well connected with beige tubes by the side of mattress 	 Press to turn off the buzzer. Check if CPR emergency valve is closed Check if CPR emergency valve is connected with the tubes of the mattress. 	 Press to turn off the buzzer. Check up if beige tubes are broken. Check if beige tubes well connected with the tubes of mattress 	 Press® to turn off the buzzer. Check up if the black rubber oil seal from the quick connector is broken. Check up with the quick connector well connected to the main device properly. Check up if the quick connector end well connected to the beige tubes by the side of mattress

Maintenance

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Dynamic Plus pump and the air mattress. Please refer to the recommendalion regarding regular cleaning and maintenance of the

Dynamic Plus pump

- ➤ DO NOT immerse or soak the pump which will cause Dynamic Plus badly damaged
- ▶ Place the pump on a work surface and spray or wipe the outside of the case with quaternary ammonium solution. (If cleaning solution gets inside, damage will occur.)
- ➤ It is recommended to replace the air filter of the pump every 3 months in order to safeguard the normal air flow and air pressure of Dynamic Plus pump.

Air mattress

- Separate the cover and cells, washing by warm water below +25°C and low irritating detergent per week at least, in order to safeguard the health of users.
- ► Dry the mattress on a SUNLESS area after cleaning. Do not use dryer drying the cover. normal functions of waterproof and air permeability. This will easily lead to the separation of composition of the cover which affects the
- ► Wash the cover immediately and clean up the contamination once air mattress set is safeguard the users' health: contaminated by the users' urine, blood, body fluids, excreta or food, in order to
- ► To maintain hygiene, pressure relief and feeling of comfortable, it is recommended to replace the cover when it is broken or washed more than 20 times.

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Handling and Storage

Dynamic Plus pump

➤ Unplug the pump and store with proper identification tag. Wind the power cord and place it in a suitable plastic bag. Follow the national requirement to dispose the pump

Air mattress

► Do not fold or roll the mattress after deflating the air mattress.

Lay the mattress flatly for storage, avoiding in the conditions of high temperature, humidity, direct sunlight, and heavy crush.

IMPORTANT SAFEGUARDS

DANGER

To reduce the risk of operation

- ▶ Before using *Dynamic Plus* pump and air mattress, ptease read this user's manual and follow the steps of the proposed operation to avoid the risk of improper operation.
- ➤ This equipment is strictly prohibited combination with other devices, in order to avoid the risk of improper operation.
- ➤ Once the fault occurred, please follow the Troubleshooting Guide or repair of the regional distributors at the moment. Please stop using of this equipment.

To reduce the risk of electrocution

- ► Use a grounding wire with a grounding pin, then this three-wire plug must be plugged properly into an outlet and grounded as shown in national requirement.
- ➤ The users take a sponge bath or shower on the mattress, please set *Dynamic Plus* pump power off.
- ➤ Do not place and use this equipment in the bathroom or high humidity environment.

To reduce the risk of mechanical injury

- ▶ Please mount this equipment in accordance with the users manual. It may cause the users or the equipment fall down without following installation of users manual
- Do not disassemble the device by the non-authorized repair professionals

To reduce the risk of chemical injury

Use the suitable battery according to the specification of users manual.

WARNING

- This equipment is strictly prohibited combination with other devices, in order to avoid the risk of improper operation.
- Do not use with non standardized parts
- ► Do not smoke around this equipment to avoid the risk of fire
- ➤ Place this device away from the source of heat and fire to avoid the risk of endangering this equipment.
- ▶ Do not install this equipment in place away from the professional medical beds, to prevent users from mechanical injury risk.
- ➤ The device is limited to indoor use. It is strictly prohibited to install the device in outdoor
- ➤ This equipment is strictly prohibited the sharp objects or nearby hairpins metal jewelry or needles, to avoid the risk of the mattress broken.

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Consumption of Parts FUNCTION and PROPOSED

PARTS	FUNCTION	Recommended replacement time
9 volt bailery	Provide electricity to all warning function message	Replace the battery immediately as [power failure] yollow flashing lights
Air filters	Provide clean air to pump	Replace once every 3 months
Dial lubricants	Lubrication use of gas circulation motor actuation	Smear the motor annually
Cover	Protect tubes and cells cleaning. Keep users in a waterproof & breathable environment.	Replace the cover as broken or washed 20 times
Hypoallergenic environmental TPU cell	Provide physical support, skin vacuuri	Replace TPU cells once every 3 years or cell is broken.
Beige tubes by side of the mattress	Maintenance cells airtight	Replace beige tubes once every 2 years, or tube is broken.
Oil seal	Maintenance cells airtight	Replace oil seal once every 5 years

Above conditions due to equipment location there is a significant gap, the Company reserves the right to modify and recommendations based on the actual situation.

Dynamic Plus Surface Support System 2-Year Limited Warranty

Acute Healthcare Pty Ltd covers any defects in materials or workmanship of the Dynamic Plus Surface Support System, under nounal use and specified conditions, for a period of two year from the date Dynamic Plus Surface Support System was originally purchased as a new one, no matter who is the present owner.

Within a reasonable amount of time after you return the pump/mattress to us, we will repair any defect in material and workmanship and ship it back to you, all free of charge. We will not repair a pump or mattress free of charge if it has been misused or damaged by an accident.

You must send the pump or mattress to us with the original sales ticket and you must pay all delivery costs. It must be sent to Acute Healthcare Pty Ltd. You must return the warranty registration card, attached to this brochure, or register the warranty online, within thirty days of purchasing the cushion. We will not require the original sales ticket if you or the previous owner, have completed and returned the warranty registration card / registered the warranty registration form online, and we have it on file. Failure to submit the original sales ticket or failure to have the warranty registration card in our file voids this warranty.

Acute Healthcare ?ty Ltd shall not be responsible for incidental or consequential damages with respect to economic loss or injury to person or property, whether as a result of breach of warranty, negligence or otherwise. Acute Healthcare Pty Ltd will not be responsible for the results of careless handling or unreasonable use.

Any impelled warranties arising by operation of law shall be limited in duration to the terms of this warranty. This warranty gives you specific legal rights, and you may have other rights that vary from state to state.

For any further information, please contact our Customer Services Department



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