PUMP

harvesthealthcare
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General User/Safety Guide

HARVEST 250 PUMP

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CE

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CONTENTS

WARNINGS & CAUTIONS

READ THIS INSTRUCTION MANUAL AND OBSERVE SAFETY INSTRUCTIONS.

⚠ WARNING

- This pump must be properly installed and operated as directed by this user manual.
- The pump should be checked regularly to ensure correct operation. Loss of function will remove all pressure relieving properties.
- This pump, when connected to a pressure relieving system, is intended for use as part of a pressure ulcer prevention program; do not rely solely on this device to achieve the result. The medical professional is responsible for applying best medical judgment when using this system.
- Ensure the pump is set to the requirements of the occupant based on their weight distribution and therapy required. Any changes made should be carried out by a medical professional, as incorrect use could reduce the effectiveness of the product.
- All hoses must be free of kinks, twists and must be properly connected and positioned so as not to cause any obstruction.
- Do not position the pump in a way that prevents access to the control panel, tube set or mains power plug.
- Ensure the mains lead or pump cannot become trapped or crushed, e.g. by raising or lowering of bed or bed rails or any other moving object.
- Check the mains lead is damage free and positioned so as not to cause an obstruction or injury e.g. strangulation or trip hazard. If there is damaged identified to the mains lead whilst in use, ensure the mains lead is turned off at the mains and contact a competent technician.
- Ensure that the electricity supply is of the type stated on the pump unit.
- Do not place pump on or near a heat source or cover with bedding.
- Harvest Healthcare advise against smoking whilst the system is in use to prevent the accidental ignition of associated items which may be flammable, such as bed linen. We advise a risk assessment is carried out before using any medical equipment to protect the user and service user.

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WARNINGS & CAUTIONS

- Do not expose the pump to liquids.
- The mattress/cushion and pump should be cleaned between patient uses.
- Do not use bleach, chlorine releasing agents in concentrations over 1000 ppm, solvents or alcohol-based cleansers, e.g. Phenicol, Hibiscrub, Clearsol, Stericol and Hycoline as these will degrade the pump casing material. Full cleaning instructions can be found on **page 18**.
- Suitable for continuous use.
- Do not modify the mattress/cushion or pump unit in any way.
- Do not connect to any other medical device or equipment.
- Not for use in an oxygen enriched environment.
- Not for use in an outdoor environment.
- Store the system in a clean and dry environment, out of direct sunlight.

Electrical equipment can be hazardous. Only authorised technical personnel should remove the rear pump case for maintenance. Removal of the case by unqualified personnel will invalidate the warranty.

Before cleaning the unit ensure that the electrical supply to the pump has been disconnected by removing the plug from the power supply.

GENERAL INFORMATION

BEFORE USING THIS SYSTEM FOR THE FIRST TIME:

- **Read through this instruction manual fully and in detail.**
- **Note the safety instructions which must be observed.**

Harvest Healthcare products bear the CE mark and meet all safety and functionality requirements.
These safety requirements can only be met if the user is satisfied with the proper condition of the product (including accessories) before use.

INTENDED PURPOSE

Harvest 250 is our mid-range pump designed to provide controlled compressed air to a pressure care mattress. The inflated cells within the supplied mattress provide an option of alternating or constant low pressure functions designed to reduce interface pressure on the skin and therefore reduces risk of the development of pressure ulcers.

It is ideal for use in both community and nursing home settings. A range of features are available with the Harvest 250 including alternating, constant low pressure, max inflate, comfort control and a seated function. Audible, visual, power failure, cycle fault and low pressure alarms, and LED display. The Harvest 250 pump fits all our active overlays and standard replacement mattresses.

Harvest Healthcare supply a pump and mattress but it is the user's responsibility to ensure each system meets the guidelines set out in the pump and mattress guide (shown below). Failure to do this could put the service user at risk. This could prolong the recovery process or increase the risk of further tissue damage.

For information on our mattress range please refer to the mattress user manuals, available on our website, www.harvesthealthcare.co.uk.

	Harvest 1	Harvest 2	Harvest 3	Harvest 250
Kensington Overlay	✓	✓	✓	✓
Sandringham	✓	✓	✓	✓
Hampton	✓	✓	✓	✓
Hampton II	×	✓	✓	✓
Hampton Extra	×	×	✓	✓
Prime Comfort Active	✓	✓	✓	✓
Duke	×	✓	✓	✓
Duke Extra	×	×	✓	×
Balmoral	×	✓	✓	✓
Balmoral Plus	×	✓	✓	✓
Balmoral II	×	✓	✓	✓
Blenheim Seat Cushion	×	✓	✓	✓

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GENERAL INFORMATION

INTENDED USER / CARER

1 DEFINITION OF INTENDED USERS /CARERS

OPERATOR

An operator is any natural or legal person who uses the equipment or on whose instruction it is used (e.g. nursing homes, specialised retailers, health insurance companies, medical suppliers).

USER/CARE PERSONNEL

Users are persons who as a result of their vocational training, experience or briefing are authorised to operate the equipment.
Furthermore, the user/care personnel can recognise and avoid potential dangers and assess the clinical condition of the service user.

PATIENT/OCCUPANT/SERVICE USER

The person in need of pressure care support, due to being identified as at risk of developing of pressure ulcers by a suitably qualified carer or other.

QUALIFIED PERSONNEL

Qualified personnel are employees of the operator who as a result of their vocational training or briefing are entitled to deliver, assemble, disassemble and transport the product.

2 NON-COMPLIANT USE

All uses deviating from the intended purpose, which may also be hazardous as a result.
This includes for example:

- Incorrect installation.
- Operation by persons who have not been instructed in its use.
- Using the system with non-approved parts/accessories.
- Using the system if any of the components are damaged or faulty.

3 SAFETY INSTRUCTIONS

3.1 GENERAL SAFETY INSTRUCTIONS

During the briefing, specific attention must be drawn to any potential dangers which can occur despite correct operation. Before putting the product into service for the first time, the Instruction Manual must be read fully and in detail by the user/care personnel.

Programming of the system should be carried out by competent trained personnel. Use only spares and accessories supplied or approved by Harvest Healthcare. Only suitably trained personnel are allowed to operate the system.

GENERAL INFORMATION

The mains cable must be free and not be allowed to be caught up in the bed's moving mechanisms. The mains cable may be damaged or it may be pulled out of its socket and electric leads exposed as a result.

If the mains cable or the mains plug are damaged, the relevant part must be replaced. This work should be carried out by the manufacturer or authorised service agents.

When connecting the mains plug do not use multiple sockets since liquids may penetrate into these (fire hazard and electric shock).

3.2 SAFETY INFORMATION FOR THE OPERATOR

With the help of this instruction manual, instruct each user in the safe operation of this system before it is put into service for the first time.

Advise the user of any hazards which may occur if not handled correctly.

Only persons who have been properly instructed may operate this system. This also applies for persons who only operate the system on a temporary basis.

3.3 SAFETY INFORMATION FOR THE USER

Ensure that the operator instructs you in the safe operation of this system.

In addition, pay particular attention to the 'Warnings and Cautions' (**page 4-5**) and the 'General Safety Information' as described in **3.1**.

If there is a suspected fault or damage, switch off the pump and unplug the mains plug from the socket. Clearly mark "Out of Order", take out of service immediately and inform the person in charge without delay.

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GENERAL INFORMATION

3.4 SYMBOLS USED


This symbol indicates general hazards. There is a danger to life and health.


Conformity mark in accordance with the MDR regulation.


The symbol for Protection Class II device, double insulated.


The symbol for type B device according to EN 60601-1.


Fragile, handle with care.


This way up.


Keep dry.


Recycling symbol. Refers to packaging that can be recycled (cardboard).

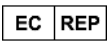

Keep away from sunlight


This product must be disposed of in a designated refuse bin for waste electronic devices (WEEE) in the European Union. Do not dispose of as normal domestic waste.


No smoking. No naked flames.


Read instructions / consult manufacturers guide.


This symbol indicates electrical hazards. There is danger to life and health.



EU Representative.

UK Representative.

GENERAL INFORMATION

3.5 CLEANING & DISINFECTION

Do not immerse electrical components in water but wipe with a damp cloth only. The electrical components must not be cleaned with a high-pressure cleaner or water jet. Disinfection by wiping only is allowed.

Full cleaning and disinfection instructions can be found on **page 18**.

3.6 SERVICING & MAINTENANCE

Servicing must only be carried out by qualified personnel.

Harvest Healthcare recommend an annual service must be conducted at least once a year or after a lengthy break in use.

Any defects, damage or signs of wear must be rectified without delay. Only original spare parts from Harvest Healthcare may be used, otherwise all guarantees or warranties will be invalidated.

See **page 19** for 'Routine Maintenance' and 'Routine Servicing'.

3.7 SERVICE LIFE & DISPOSAL

The system must not be disposed of as normal domestic waste after its service life, but must be disposed of in a designated refuse bin for waste electronic devices (WEEE) in the European Union. Do not dispose of as normal domestic waste.

Our full terms & conditions including product warranties are available by request or can be found on our website **www.harvesthealthcare.co.uk.**

PARTS AND DATA MAY UNDERGO FURTHER DEVELOPMENT AND THEREFORE DEVIATE FROM THE DETAILS GIVEN.

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TECHNICAL SPECIFICATION

HARVEST 250 PUMP TECHNICAL SPECIFICATION

Pump Model No.	HPU250
Operating Cycle	10 minutes
Dimensions	275 x175 x 116.5
Weight	2.0kg
Air Flow Output	9 lpm
Pressure Setting	Mattress 18 - 55 mmHg Seated 40 - 75mmHg

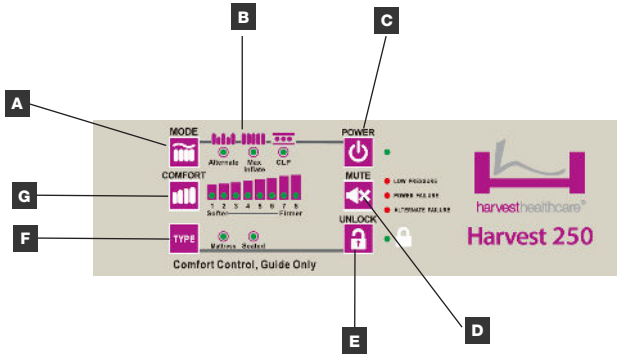
PUMP POWER REQUIREMENTS

Power Rating	10VA
Input Rating	220-240V, 50Hz
Fuse	T 1AL 250V
Classification	IP21
Safety Standards	EN 60601-1. EN 60601-1-2

For any further assistance, please contact a member of the Harvest Servicing team on 01709 388059 or at servicing@harvesthealthcare.co.uk

OVERVIEW

PUMP OVERVIEW



A Mode

B Mode Setting (Alternatng, Max Inflate, CLP)

C Power Switch

D Mute (Low-Pressure, Power Failure, Alternate failure)

E Auto-Lock Indicator

F Type (Mattress, Seated)

G Comfort Setting

A MODE

The mode button when pressed will allow access to the following functions.
Alternating: Cells will fully alternate
Max Inflate: The cells will fully inflate for 20 minutes and then it will revert back to the alternating mode.
CLP: All the cells will inflate but will not alternate. The interface pressure remains constant and will not increase even if the comfort setting is alerted.

G COMFORT

Press this button to increase or decrease the firmness of the mattress or seat cushion when in alternating mode. Setting 1 is suitable for patients under 30 kg / Setting 8 is suitable for patients up to 200kg.
Refer to the mattress / cushion weight guide to check the pump unit is suitable for intended use.

Power failure: The alarm will sound until the power is reinstated. If the 'Mute' button is pressed to silence the alarm, you must press the on/off switch to restart the pump to gain access to the control panel. When the power is reinstated check the status of the pump and ensure it is switched ON.

'Max Inflate' is only used for patient care and will revert back to alternating mode after 20 mins.

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OVERVIEW

Tube Set Connector Port
The tube set from the mattress will connect here. It is important that pump can be disconnected in an emergency if CPR is to be administrated.

Comfort Setting
The pump has numbers 1- 8 printed on the the control panel. Press the comfort button on the control panel until the desired comfort setting is illuminated.
The comfort setting can also be used for the seated function. When the bed is profiled or when the platform is lowered flat, review the setting on the control panel and adjust to suit the service user's needs.

Power Switch
Press the power button on the front control panel once to start and stop the pump. If you cannot turn the pump off check the lock out mode is not activated.

Visual and Audible Low Pressure and Power Failure Warning/Alarm
The pump is fitted with an audible and visual alarm. Press the 'Mute' button to reset the alarm. The alarm will activate after 45 mins if the mattress has not fully inflated while in the start-up mode. When the mattress is inflated the alarm mode will reset and the alarm will now activate if it detects a fault on the system.
The LED next to 'Fault' will illuminate red when a fault is detected with the system.
The LED next to 'Power Failure' will illuminate red when a fault is detected with the power supply. The LED next to Timer will illuminate when the a fault has been detected with the timer motor which controls the inflation and deflation of the cells.

Alternating/Start Up Mode Indicator
When the pump is switched on for the first time it will enter 'Start-up Mode' and inflate all the cells. The 'Alternating Mode' LED will flash to indicate that the pump is in 'Start-up Mode'. Once all the cells have been inflated the LED will change to a constant light and 'Alternating Mode' will be activated automatically. The cells in the mattress will then inflate and deflated to provide pressure relief for the service user.

Auto-Lock Indicator
The pump 'Auto-Lock' will activate automatically after the controls have not been used for one minute, signified by an illuminated LED green light next to the unlock symbol illuminating. This function will prevent unintentional change of the settings on the pump unless unlocked. Unlock the auto-lock by pressing and holding on the unlock button. Wait until the pump beeps once and the LED light extinguishes. Access to the different functions will now be made available.

Mode
The mode button when pressed will allow access to the Alternating, Max Inflate and CLP functions. (Please see page 12 for more details.)

TYPE; Mattress, Seated Mode Indicator
A mattress or a seat cushion can be connected to the Harvest 250 pump. Press the TYPE button until the pump unit beeps. The LED light will indicate which function has been selected. To change the setting, ensure the Auto Lock is switched off. Press the TYPE button until the pump unit beeps. This will allow you to change the setting to either mattress or seat mode. Please note selecting the Seated Mode whilst the pump is connected to a mattress increases the internal cell pressure when the service user is in a seated position on the mattress and requires additional support.

OPERATION

INFLATING THE MATTRESS/CUSHION

1 Attach the mattress or seat cushion tube set to the pump.

2 The 'Alternating Mode' LED will now start flashing to indicate the pump is in 'Start Up Mode'. Once the mattress or seat cushion is fully inflated the LED will stop flashing. While in 'Start Up Mode' **DO NOT** select **'Max inflate'** mode as the pump low pressure alarm might activate. If this occurs, switch off the pump and switch it back on to reinflate the mattress.

A constant LED light in alternating or max inflate mode confirms that the mattress is now ready to use.

Select the Mattress or Seated button. Use Mattress Mode for the alternating mattress, and Seated Mode for a seat cushion or additional support. When the mattress is profiled, set the pump to the desired comfort setting and select alternating mode. CLP mode can be used if required. Once CLP Mode is selected, the mattress will remain permanently in CLP mode. The pressure in the cells will stay consistently low, and the cells will not alternate.
Always ensure the patient is reviewed regularly when the mattress is in use, and adjust settings accordingly.

To turn off the system, press the power OFF button and unplug it from the mains supply.
When the pump unit detects a fault and auto-lock has been activated, press the ON/OFF button to reset the pump unit and gain access to the control panel.

TRANSPORT MODE

If the pump needs to be disconnected for any reason attach the transport cap to the feed tube connector. This will prevent deflation by retaining the remaining air within the mattress.
The alternating action stops in this mode.

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OPERATION

SETTING UP PROCEDURE

It is important to follow the correct setting up procedure to ensure the patient receives sufficient support whilst achieving maximum pressure relief and comfort.
Failure to follow this procedure could result in the service user being put at risk.

1 When the mattress or seat cushion is fully inflated, regularly review the comfort setting to ensure it meets the patient's comfort needs.

The pump, when activated, defaults to the last input comfort setting and automatically maintains internal pressures based on patient positioning. It is recommended to increase or decrease the comfort settings for lightweight or heavyweight patients or or use the seated mode when the backrest is raised.
Pump comfort settings should be set based on a healthcare professional's clinical judgment and regular assessment. Recommendations are as follows:

0-50 kg: Settings 1 & 2
51-100 kg: Settings 3 & 4
101-150 kg: Settings 5 & 6
151-200 kg: Settings 7 & 8

A risk assessment should be carried out by a healthcare professional to ensure the mattress system is suitable for the patient's individual requirements.

2 **Mode:** Check that the correct mode has been selected: Alternating, Max Firm, or CLP. Alternating mode is normally the default unless a medical professional has selected a different mode.

CLP Mode: Constant low pressure mode can be selected to allow the end-user to have more immersion into the cells. When selected, the cells will stop alternating, and the pump will maintain the cells at a constant low pressure. The comfort setting can be altered, but the pressure in the cells will not increase. This type of therapy must be monitored by a care professional.

Max Inflate Mode: This mode can be used for patient care or to aid in transferring on or off the mattress. Note that if selected, it will automatically revert back to alternating mode after 20 minutes.

3 **Type:** Check the mode setting. The Mattress/Seated button is used to select the type of accessory that has been connected to the pump unit. The Seated button may be used to provide more support to an end-user if the mattress is profiled. We recommend switching this off once the mattress has been laid flat. Always monitor the settings that have been selected on the control panel.

OPERATION

4 The pump is designed to inform the carer or end-user if there is a malfunction with the with the mattress or seat cushion.

5 The pump will alarm if it detects a pressure drop. If the alarm is intermittent, do not ignore this warning. The pump unit or accessory will need to be repaired or removed from service and labeled as “DO NOT USE - OUT OF SERVICE.

6 **Power Failure:** This is normally caused by the power cable being pulled out of the wall socket or pump. Check that the IEC cable has not been damaged and is still fitted correctly. If there has been a power outage in the building, the pump unit will reactivate once the power is reconnected. Remove the pump from service if the fault cannot be identified and apply a “DO NOT USE - OUT OF SERVICE” label.

7 **Alternate failure:** The pump will alarm if the timer motor fails and stops the cells from alternating. Do not ignore this warning. Repair or remove this equipment from service and apply a “DO NOT USE - OUT OF SERVICE” label.

8 **Auto Lock:** The LED light next to the unlock button will be illuminated to indicate the control panel is locked and cannot be accessed. Depress the unlock key until the pump beeps to gain access to the control panel.

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OPERATION

Harvest 250 Pump, has been designed to be compatible with the Hampton II, Balmoral II, Balmoral Plus, Kensington and Sandringham active mattresses.

The Harvest 250 Pump can be used with other types of active systems that Harvest Healthcare Ltd manufactures.

The Hampton II, Balmoral II, Balmoral Plus systems have been designed with no minimum weight limit, and the patient would not bottom out at a weight below 32KG. This is achieved by using a pump unit with a low-pressure range of 18mmHg +/- 3mmHg.

All these medical devices in the list below meet our approved specifications and are suitable to be attached to the Harvest 250 Pump.

Although the systems have been designed with no minimum weight limit it is recommended that end users below 32kg are reviewed on a more regular basis to ensure the suitability of the mattress surface for their individual needs. The manufacturer cannot guarantee the clinical benefits and it is down to the clinical judgment of a medical professional.

Manufactured by Grand Healthcare:

Hampton II
Balmoral II
Balmoral Plus
Kensington
Sandringham

Manufactured by Harvest Healthcare:

Prime Comfort Active Mattress
Partnership Active Mattress
Duke Active Mattress

CLEANING & CARE

PUMPS

DO NOT USE HYPERCARBONATE, PHENOL-BASED CLEANING SOLUTIONS, ABRASIVE COMPOUNDS OR CLEANING PADS.

NOTES FOR CARE OF ASSOCIATED PRODUCTS

- Following the use of a detergent and/or disinfectant solution, wipe down the surface with clean water using a clean cloth and allow it to dry.
- Frequent or prolonged exposure to high concentrations of disinfectant solutions will reduce the useful life of the pump.
- For general cleaning wipe with a soft cloth dampened with a mild detergent and water solution. This may be followed by either wiping with a sodium hypochlorite solution to a dilution of 1000ppm (parts per million) or by using alcohol wipes.

TRANSPORT & STORAGE

Storage Conditions:
-15 ^{0}C without relative humidity control; and +40 ^{0}C at a relative humidity up to 80%, non-condensing.

Operation Conditions:
A temperature range of +5 ^{0}C to +35 ^{0}C; a relative humidity range of 20% to 80%, non-condensing.

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ROUTINE MAINTENANCE & SERVICING

These checks should be carried out at each decontamination process, i.e. between patients or patient occupancy and weekly for longer term patients.

PUMP

1 Check the pump casing for cracks or other damage that could be dangerous.
2 Check the power cord (ensure there are no bare wires).

If any faults are detected remove the equipment from use and contact the Harvest Healthcare Service Department or your distributor.

OTHER COMPONENTS

- Check air cells and mattress interior for signs of damage or contamination, e.g. staining or fluid ingress at each decontamination process, i.e. between patients or patient occupancy (or weekly for longer term patients).
- The individual cells can be wiped clean with a mild antiseptic solution.
- All cells are replaceable and can be sourced from Harvest Healthcare.

POWER UNIT

Disconnect the power unit from the electricity supply before carrying out maintenance, repairs or cleaning.

Check all electrical connections and power lead for signs of wear and damage.
The power unit can be wiped down with a detergent or disinfectant solution. Do not use solvents. Unsuitable for sterilisation.

The use of inappropriate cleaning and detergent materials on medical equipment could damage surfaces and may compromise the ability to decontaminate medical devices adequately or may interfere with device function.

When the pump or mattress is no longer required dispose of the equipment in accordance with the local regulations. WEEE requirements do apply to the pump unit and any electrical components including cables which are used for or with this product.

SERVICING YOUR SYSTEM

The Harvest 250 pump should be serviced every **12 months** by Harvest Healthcare approved personnel using genuine Harvest Healthcare spare parts.

Failure to follow the service schedule may invalidate future warranty claims (‘Guarantees & Warranties’ can be found on page 23).

TROUBLESHOOTING

FAULT	CHECK THAT	STAGE 2 CHECK	IF PROBLEM PERSISTS
Pump shows no indication that it is powered up.	1. Mains plug is plugged in and power switched on. 2. The power switch on the pump is switched on. 3. The fuse in the mains plug is not blown. 4. The wall socket that the pump is connected to is working correctly.	1. Connect the pump to the nearest (working) mains outlet. 2. Replace the internal fuses located in the pump rear case unit. Only fit a 1 AT Glass or cartridge fuse 5 x 20mm 250volts. 3. Try a different device in the mains outlet.	Contact Harvest Healthcare technical support. **Before calling:** Please ensure you have the serial number and model of equipment. Please record details of the results of the recommended tests. (Notes pages are provided at the back of this user manual).

FAULT	CHECK THAT	STAGE 2 CHECK	IF PROBLEM PERSISTS
The pump appears to be running but the mattress is not inflating correctly and or the low pressure light is illuminated.	**PLEASE NOTE** **Inflation can take up to 30 minutes.** 1. The hoses are routed correctly (not kinked) and connected to the pump correctly. 2. The CPR valve is not trapped and is in the closed position.	1. Disconnect and then re-connect the hoses to the outlet on the side of the pump. 2. Open then reclose the CPR valve, make sure the valve is not trapped in the bed mechanism.	Contact Harvest Healthcare technical support. **Before calling:** Please ensure you have the serial number and model of equipment. Please record details of the results of the recommended tests. (Notes pages are provided at the back of this user manual).
	1. There are no leaks in the mattress. 2. The tubes in the mattress are not disconnected or kinked.	1. Replace any damaged or leaking mattress parts with the correct genuine Harvest Healthcare spare parts. 2. Straighten out any kinked pipes and reconnect any disconnected joints.	

TROUBLESHOOTING

FAULT	CHECK THAT	STAGE 2 CHECK	IF PROBLEM PERSISTS
Some of the cells appear to be deflated.	This is normal for alternating pressure therapy. The mattress is made up of individual air cells. The alternating section is split up into 2 sections consisting of odd cells e.g. 1,3,5 etc and even cells e.g. 2,4,6 etc. These two sections will alternate through a 10 minute cycle in which time both sets of alternating air cells will have inflated and deflated sequentially.		
The system does not appear to be alternating.	1. **Check the CLP mode has not been selected.** 2. Carefully mark one of the inflated cells with a pen. 3. Ensure that there are no kinks in the pipework down the side of the mattress.	1. Monitor the cell for 7 minutes to see if it deflates. 2. Straighten out any kinked pipes.	Contact Harvest Healthcare technical support. **Before calling:** Please ensure you have the serial number and model of equipment. Please record details of the results of the recommended tests. (Notes pages are provided at the back of this user manual).

FAULT	CHECK THAT	STAGE 2 CHECK	IF PROBLEM PERSISTS
The pump is vibrating or making excessive noise.	The pump is fitted to the bed correctly.	Reposition the pump unit.	Contact Harvest Healthcare technical support. **Before calling:** Please ensure you have the serial number and model of equipment. Please record details of the results of the recommended tests. (Notes pages are provided at the back of this user manual).
The mattress is uncomfortable.	Check the comfort setting on the pump.	Set the pump to the correct setting using the guide on the front of the pump case.	

PARTS LIST

APPLIED PARTS

HPU250	Harvest 250 Pump (only)

REPLACEMENT PARTS

PU401	9 Liter Compressor
PU402	Mains Lead
PU403	Mains PCB Board
PU404	Upper PCB Board
PU405	Pump Adaptor
PU406	Pump Adaptor
PU407	Upper Case
PU408	Lower Case
PU409	Pump Panel
UN410	Pair of Pump Hooks

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GUARANTEES & WARRANTIES

PUMP

The pump is covered by warranty for a period of 3 years from the date of purchase. This excludes all serviceable parts such as the bellows and filters which are recommended to be changed every 12 months in line with the service schedule.

GUARANTEE

Harvest Healthcare Ltd guarantees to repair or replace all goods supplied to its customers which are found to be defective whilst still in their applicable warranty period. All warranties are subject to the following conditions:

A Warranty/guarantee is subject to all guidelines being adhered to.

B That the equipment has been used for the purpose for which it was intended.

C That the usage has been on a fair wear and tear basis. This does not include user damage.

D That Harvest Healthcare's cleaning/disinfecting guidelines have been followed.

E Harvest Healthcare's maintenance guidelines have been followed. (Please refer to 'Routine Maintenance & Service' section in this manual)

F That ALL maintenance has been carried out by a suitably qualified and competent person.

G That all parts used are OEM (Original Equipment Manufacturer) parts and were supplied by Harvest Healthcare either directly or through a distributor.

H All warranties begin from the time the product leaves the premises of Harvest Healthcare

I All repairs and replacements will be at the sole discretion of Harvest Healthcare.

Our standard terms and conditions of sale can be found on our website or by request to Harvest Healthcare Ltd.

If this device malfunctions and a serious incident occurs please contact Harvest Healthcare Ltd or your competent authority. A member of our service team will be happy to help you and offer advice.

E-mail: **servicing@harvesthealthcare.co.uk**
Telephone: **01709 377172**

NOTES

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NOTES

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