



General User/ Safety Guide
**HARVEST HH20
ACTIVE SEAT
CUSHION**

ACTIVE CUSHIONS



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SAFETY

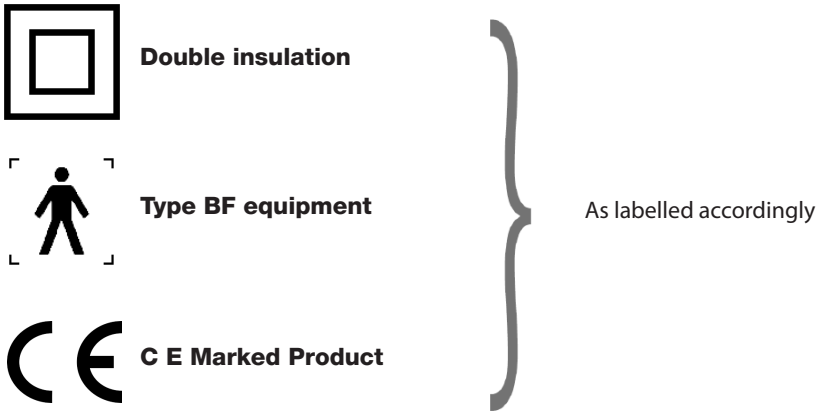
Important

1. Please read carefully and familiarise yourself with the Information in this manual prior to using your equipment.
2. Keep this manual readily available for any future reference.
3. For your safety and to ensure the most efficient performance from your system any precautions detailed in this document should be observed.
4. Do not cover the pump unit with bedding or blankets.
5. Always protect your system from open flames, do not use in the presence of cigarettes or smoking materials. Air circulation in the cushion will assist combustion if the air cells are punctured allowing the released air to fan any burning.
6. Fire retardant bedding is advised for use on and with this product.
Suffocation risk: The cover is not air permeable and may present a suffocation risk to some patients. Ensure that the patient can use the product safely.
7. Do not expose the pump unit to liquids of any kind.
8. Do not use phenol based solutions when cleaning. Please note that certain patient creams etc, that are petroleum based or similar may affect the fire retardancy of the product.
9. When in storage the system must be kept in a clean and dry environment.
10. Do not store in direct sunlight.
11. Always do a risk assessment before using this product. The risk assessment must take into consideration the environment in which the product is being used with special attention to high risk environments and the level and quality of anticipated supervision.
All cover materials on this cushion are tested to BS 7175 : 1989 Crib5

SAFETY

Note:

All Harvest Healthcare pumps are fitted with a functional earth and are labelled accordingly both internally and externally.



There is a possibility of Electro Magnetic Interference. If this occurs increase the distance between the devices.

PUMP POWER REQUIREMENTS

Power Rating	8W
Voltage	AC230V / 50Hz
Fuse	1A
Medical Classification	Type B Applied Part
Safety Standards	EN 60601-1. EN 60601-1-2

WARNING

ELECTRICAL EQUIPMENT CAN BE HAZARDOUS IF MISUSED. ONLY AUTHORISED TECHNICAL PERSONNEL SHOULD REMOVE THE BACK FOR MAINTENANCE. REMOVING THE BACK CASE BY UNQUALIFIED PERSONNEL WILL INVALIDATE ANY WARRANTY

BEFORE CLEANING THE UNIT ENSURE THAT THE ELECTRICAL SUPPLY TO THE PUMP HAS BEEN DISCONNECTED. PLEASE REMOVE THE PLUG FROM THE POWER SUPPLY.

DO NOT USE THIS SYSTEM AS A MEANS FOR LIFTING THE PATIENT. THIS WILL DAMAGE THE SYSTEM AND COULD PUT THE PATIENT AT RISK.

PRODUCT DESCRIPTION

The HARVEST SEAT CUSHION is an alternating pressure relieving seat system used in the prevention and treatment of pressure ulcers. This system is recommended for use by a patient who would normally sit out of bed through the day but who is still at risk from pressure sores. The maximum weight recommended for this system is 25 stone / 159 kg.

The SEAT CUSHION uses the established principles of alternating therapy, this offers the patient comfortable and relaxing support that can both prevent tissue breakdown and help with healing.

The pump unit is both lightweight and compact; its features include a clearly visible low-pressure warning indicator and a manual pressure / comfort control function.

The SEAT CUSHION is made up of alternating cells and 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. All air cells are individually replaceable should any damage occur to them.

Quick release couplings between the pump unit and the seat enable easy patient transfer arrangements. To deflate the system simply disconnect the couplings from the pump unit.

The cover is made of a multi-stretch, vapour permeable, waterproof PU fabric.

INSTALLATION

Installation:

Unpack the system and place the pump unit underneath or next to the chair in a safe place to avoid a trip hazard.

Place the seat cushion in the chair where the patient will be seated with the cells and/or vapour permeable cover upmost.

Connect the tubes leading from the seat cushion to the outlet ports on the pump. Inflation tubes should be at the front of the cushion.

Refer to the comfort control setting (on the front of the pmp) and adjust the dial according to the patient's weight.

Connect the seat pump to the power supply and switch on the pump.

When the low pressure indicator has extinguished the patient may be placed on the support surface.

OPERATION

INFLATING THE CUSHION

Switch on: During this stage select a weight setting to suit the service user. The weight setting is selected by turning the dial to the patient's approximate weight located on the control panel.

NOTE:

Set the pump at the correct pressure to suit the weight of the service user. Refer to the Comfort Control Guide located on the front of the pump.

SWITCHING OFF THE SYSTEM

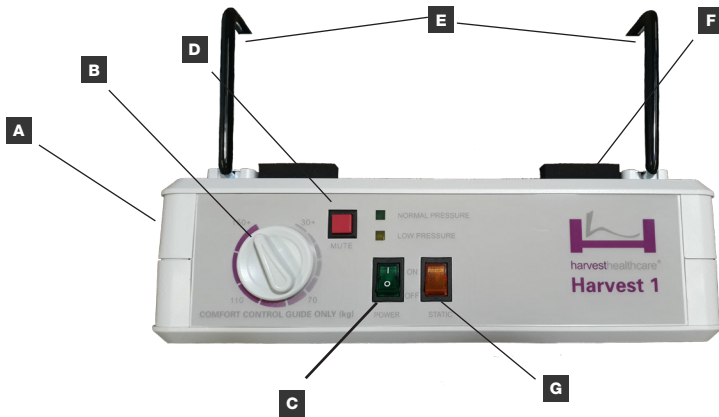
Set the switch on the inlet panel to OFF position and disconnect the plug from the mains supply.

IN THE EVENT OF A POWER FAILURE

If the power is restored, the pump will automatically restart and continue on the previous selected setting.

If the power has not returned after 15 minutes, remove the service user from the seat cushion.

OPERATION



- | | | | |
|----------|-----------------------------|----------|---|
| A | Feed Tube Connection | D | Visual Low-Pressure Warning w/ Alarm Mute |
| B | Manual Comfort Control Dial | E | Bed Hooks |
| C | Power Switch | F | Non-slip Feet |
| | | G | Static Mode |



Static Mode must not be used. This must be manually switched off.

OPERATION

PUMP FEATURES

Orange Low Pressure Warning Light

When the pump starts inflating the cushion the low pressure light will glow orange until the required pressure is reached when the light will extinguish. If the required pressure is not reached within 30 minutes the light will turn orange and an alarm will sound.

If the light still does not go out, contact your supplier for assistance.

Low Pressure Warning Light

The low pressure light will illuminate when a fault is detected. If the warning light does not go out, contact your supplier for assistance. Check for the correct function of the low pressure warning light should be carried out at regular intervals.

Adjusting the Comfort Setting

Adjust the comfort setting by turning the dial on the control panel.

Static Function



Static Mode must not be used. This must be manually switched off.

OPERATION

Setting Procedure

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

1. Sit the patient on the seat cushion
2. Set the correct pressure setting on the pump according to the patient weight guide on the face of the pump. Ensure that the correct pressure setting has been selected for the sitting position.

NOTE:

Ensure that the pressure setting is set to the correct setting when the patient is returned to the bed if the pump has been used with a cushion. Failure to do so could result in the patient being put at risk.

DISINFECTION PROCEDURE

The following guidelines are suggested by Harvest Healthcare as being suitable infection control procedures.

Further information and guidance is available from Harvest Healthcare on request and also your local Health and Safety advisor. It is advised that this procedure be adopted on transfer of the system between patients.

PUMPS

General cleaning may be achieved by using a cloth dampened with a mild detergent and water solution. This may be followed up by either wiping with a sodium hypo chlorite solution to a dilution of 1000 PPM (parts per million) or by using an alcoholic wipe.

These products are available from Harvest Healthcare.

NOTE:

DO NOT use hyper carbonate or phenol based cleaning solutions.

DO NOT use any abrasive compounds or cleaning pads.

DISINFECTION PROCEDURE

Seat Cushion

During general use the cushion and internal tube sets can be cleaned by using a mild detergent solution. Where appropriate the seat cover can be completely removed for laundering or sterilisation. Wherever there is staining or body fluids on the cushion, including cells and tubing, then a sodium hypo chlorite solution to a dilution of 1000 PPM should be used following thorough cleaning with soap and water.

All covers may be laundered as follows:

Pre Wash	Cold	10 minutes
Main Wash	>71°C	10 minutes

Followed by cold rinses and extraction.

Do not use phenol based solutions

CAUTION

During cleaning procedures suitable protective clothing should be worn including suitable eye protection.

Ensure that the mains power supply to the pump has been disconnected prior to cleaning.

ROUTINE MAINTENANCE

Suitably qualified personnel should carry out routine maintenance every 12 months from initial date of purchase.

The following checks should be carried out:

1. Inspect filter
If the filter is dirty, clean with a vacuum cleaner and refit
2. Ensure that the hoses both inside the pump and also on the cushion are kink and split free. If any splits are found then replace all the damaged area.
3. Ensure that the pump is giving out enough MMHG (millimetres of mercury) on the maximum output by using either a sphygmomanometer or any mercury / digital pressure gauge. If not adjust the comfort control parameters to the correct range. If the pump is still not achieving the correct MMHG then replace the motor or the relevant defective parts.

(Contact Harvest Healthcare for guidance on how to repair the diaphragm.)

4. Check that the comfort control is working within the correct parameters. If not contact Harvest Healthcare for guidance.
5. Check that the timer is changing; if they is not changing replace it with a new one. Check the static function is switched off.
6. Check that all the indicators; lights and alarms are working correctly. If any are found to be defective replace them with new ones.

(Replacement parts are available to order from Harvest Healthcare)

ROUTINE MAINTENANCE

1. **Pumps**

All Harvest Healthcare Pumps have a guarantee for a period of 12 months from date of purchase.

2. **Mattresses/Seat Cushions**

All Harvest Healthcare Mattresses/Seats and Covers have a guarantee for a period of 12 months from date of purchase.

3. **Guarantee**

Harvest Healthcare guarantees to repair or replace pumps/ mattresses/ seat cushions issued to its customers which are found to be defective whilst still under the guarantee or warranty period (if applicable see our standard conditions on pages 12, 13 & 14).

Harvest Healthcare's guarantees are subject to the following conditions:

- a.** That the equipment has been used for the purpose for which it was intended.
- b.** That the usage has been on a fair wear and tear basis and excludes user damage.
- c.** That Harvest Healthcare's cleaning / disinfecting guidelines have been followed.
- d.** That Harvest Healthcare's maintenance guidelines have been followed.
- e.** That all maintenance has been carried out by suitable qualified personnel.

GUARANTEES & WARRANTIES

4. **Claims Relating To Guarantee Or Warranty**

In the event of a fault being discovered within the guarantee or warranty period, the customer shall notify either Harvest Healthcare or your local distributor at the earliest opportunity.

If upon inspection, Harvest Healthcare accepts liability then the equipment shall be repaired or replaced immediately.

If Harvest Healthcare does not accept liability it shall inform the customer of its reasons and provide the customer with an estimate for either repair or replacement.

TROUBLE SHOOTING

PART 1

Fault Occuring	Ensure That	Possible Solution To The Problem (Next Stage)	If your Product Is Still Not Working
The pump is showing no indications that is is on.	Mains is plugged in. The switch is in the on possition.	Connect the appliance to the nearest mains socket and ensure that the green mains switch is on.	Return the pump unit to Harvest Healthcare of your local distributor.
	The fuse in the plug is not blown.	Replace them with the correct fuses (3amp).	
The pump appears to be running but is not extinguishing the low pressure light.	The hoses are connected correctly.	Disconnect the hoses and re-connect them into the outlet connectors on the side of the pump.	Return the system to Harvest Healthcare or your local distributor.
	There are no leaks in the cushion.	Replace the damaged cushion section with the correct spare parts.	
Low opressure light does not light when pump disconnected	All the ports are free from blockage	Clear any debris for outlet and pipework	Contact Harvest Healthcare

TROUBLE SHOOTING

PART 2

Fault Occuring	Ensure That	Possible Solution To The Problem (Next Stage)	If your Product Is Still Not Working
The pump is on and is not inflating the cushion.	The connectors are connected correctly.	Disconnect the connectors and re-connect them to the connectors on the side of the pump.	Return the pump unit to Harvest Healthcare or your local distributor.
The pump is on and is not inflating the cushion.	There are no leaks in the cushion.	Replace the damaged parts with the correct spares, available from Harvest Healthcare.	Return the system to Harvest Healthcare or your local distributor.
	There are no kinks in the tubing down the sides of the cushion.	Untwist any kinks found.	
	Check that the pressure is in the correct range for the patient weight.	Turn the pressure up or down to within the correct range. A guide is the front of the pump of the back of this booklet.	

TROUBLE SHOOTING

PART 3

Fault Occuring	Ensure That	Possible Solution To The Problem (Next Stage)	If your Product Is Still Not Working
The system does not appear to be alternating. Check the static function is switched off.	There are no kinks in the tubing down the side of the cushion.	Untwist any kinks found.	Return the pump unit to Harvest Healthcare or your local distributor.
The pump is operating noisily;	The pump is not resting against a solid surface.	Re-position the pump either on the floor or attach to a suitable surface.	Return the system to Harvest Healthcare or your local distributor.

All circuit diagrams and parts are available from Harvest Healthcare upon request.

DECLARATION OF CONFORMITY

DECLARATION OF CONFORMITY

Declaration of Conformity Annex VII EU Directive 93/42/EEC

We, as company: Harvest Healthcare Ltd
Sheaf House
Bradmarsh Way
Bradmarsh Business Park
Rotherham, S60 1BW

Confirm on our own behalf that the Medical product : Harvest Pump 1

complies with all applicable requirements in Appendix I of the **EU directive 93/42EEC**

The following compliance evaluation process was applied: **Annex VII**

EU legislation for this type of product and covers all safety, health, and environmental requirements.

Modification of these products without consultation with Harvest Healthcare Ltd, this declaration of conformity will lose its validity.



Director
Rotherham, 1/10/2017

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Serial No:

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**The pump is supplied by Harvest Healthcare Ltd and
complies to the standard EN 60601-1.**

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