The Hot Box will not switch on

- Check the plug is fully inserted into the socket and that it is switched on.
- Check the socket has power. •
- Check the main 5A fuse in the plug.

The Hot Box is not warming up

- Check if the heater is warm after a few minutes of running. DO NOT TOUCH THE HEATER DIRECTLY IT COULD **BE VERY HOT.**
- Isolate the Hot Box from the power supply and remove the controller enclosure front panel. Check the 2A heater fuse.

The humidifier is not working (no LED light on the humidifier)

- Check the water level covers the top of the humidifier.
- Check the water level sensor underneath the black square is not clogged with mineral deposits. Clean with vinegar and a brush.
- Isolate the Hot Box from the power supply and remove the controller enclosure front panel. Check the 2A humidifier fuse.

The humidifier is not working (LED on but little or no mist)

Clean the humidifier with vinegar and a brush to remove mineral deposits. If still not working, replace the humidifier. Replacements can be obtained from Martin Lishman Ltd.

Replacing the humidifier

Lifespan depends on several factors including operating time, water purity etc. If the unit stops producing mist or the Hot Box does not reach the set humidity level, the humidifier should be replaced. Contact Martin Lishman Ltd for more details.

- The fan is not working
 - Check the fan fuse.
 - Make sure the power is isolated and check that the fan blades rotate freely.

Technical Help

For additional help or information please contact Martin Lishman Ltd. Tel: 01778 426600 E-mail: sales@martinlishman.com

Wa<u>rranty</u>

The Martin Lishman Potato Hot Box is guaranteed for 12 months from the date of purchase against any defect or malfunction caused by faulty parts or workmanship. To claim under warranty, the complete item or faulty part (as appropriate) should be returned, at the claimant's expense, to Martin Lishman Ltd with a written explanation of the problem. Should there prove to be a defect or malfunction caused by faulty parts or workmanship, it will be repaired or replaced and returned to the claimant without charge. If a warranty claim is rejected, the cost of replacement or repair will be notified to the claimant before any work is carried out.

Any warranty claim will automatically be invalidated if the Hot Box has been modified or internally tampered with in any way. The manufacturers deem damage or faults occurring to the equipment which have been caused by inappropriate use of the equipment or by use not in accordance with the instruction manual will not be covered under warranty. It is the responsibility of the user to ensure that all electrical equipment has been installed in accordance with the relevant installation regulations, that all appropriate safety checks have been carried out before use and that regular on-going maintenance and safety checks are undertaken.

Under no circumstances will Martin Lishman Ltd re-imburse any costs associated with a warranty claim if these costs have been incurred without agreement in advance

Under the terms of warranty for the Hot Box under no circumstances will liability exceed the cost of replacement or repair. The manufacturers and Martin Lishman Ltd will not be liable for any consequential or indirect loss suffered by purchasers or users of the equipment, whether this loss arises from correct or incorrect use of the equipment, defect or malfunction caused by faulty parts or workmanship or in any other way. Non-exhaustive illustrations of consequential or indirect loss are loss of profits, loss of contracts and damage to property.

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Martin Lishman



Hot Box 125 - 250 - 750

Important - Read these instructions before use



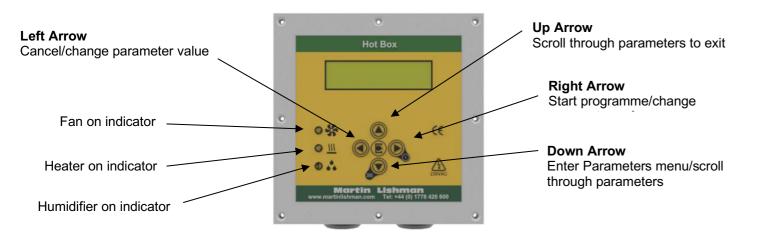
Instruction Manual

Installation

- 1. Place the Hot Box on a flat, even surface.
- 2. Plug the hotbox into a suitable electrical supply outlet.
- 3. This unit is of class 1 specification and its supply must be earthed.

Setting up the Hot Box

The unit is pre-programmed and should not require adjustment. However, should you need to change anything you can do so through the parameter menu.



Parameters

Set Start Delay: Delay before the run cycle commences (Default: 5 min) Set Temperature: Temperature that the hotbox will try to maintain (Default: 30°C/86°F) Set Humidity: Humidity that the hotbox will try to maintain (Default: 93%) Runtime: The cycle time that the hot box will run for before the cycle ends (Default: 12hrs) Units: Celsius or Fahrenheit (Default: Celsius)

Offset Temp: Calibration setting for temperature sensor (This is set from factory and should not be adjusted) Offset Humidity: Calibration setting for humidity (This is set from factory and should not be adjusted) Check water warning: Set the check water warning system to OFF (default when shipped) for normal operation. Turning this ON could result in unexpected stopping of the run cycle if not set up correctly.

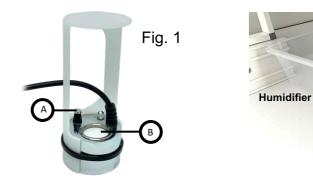
Using the Hot Box

- 1. Place a washed sample of approximately 25 potatoes in each wire tray. Make careful note of where in the processing or grading line each sample was taken from, its variety and the tray number.
- 2. Switch on the Isolator switch located on the front of the lower electrical cover. Upon powering up, the controller will display the current software version then display OFF awaiting a command.
- Set the thermostat control at 30°C and the humidity to 93%. Set the timer control at 12 hours.
- Fill the water tray with COLD, clean tap water up to 5-10mm below brim. (Using soft or boiled water (once cooled down) will help prolong the life of the fan) Insert the humidifier unit (fig.1) into the water near to fan (fig.2).
- Make sure the Hot Box door is closed. 5.
- To run the Hotbox program, press the Right Arrow once and you will be asked if you wish to proceed. The display will 6. read RUN? To continue and run the program press the Right Arrow once more or press the Left Arrow to cancel. If the controller has a program start delay set up in the parameter menu, the controller will count down in hours and minutes. Once the timer has expired, the program will begin to run. The program will run for the length of time set up under the run time parameter, keeping the temperature and humidity inside the box to programmed levels set.
- The Hot Box will hold the internal temperature and the humidity at the set points. It will switch off automatically after the 7. run time expires.
- The fan has a 20 minute run-on timer to prevent overheating of the heating element. 8
- Once the program has ended, leave the door open to allow the RH sensor and the insides of the unit to dry out before starting another program. Failure to do so can result in the RH sensor becoming over-saturated, reducing the Hot Box performance.

Hot Box Care and Maintenance

- The Hot Box is warm and damp by design and will harbour potentially dangerous microbes if not kept clean. It is least once a week.
- At the time of cleaning, check the seals inside the base. If any breaks have occurred, re-seal them with a mould resistant silicone seal.
- sensor becoming over-saturated, reducing the Hot Box performance.
- When testing tubers that have been treated with essential oils such as **MINT OIL** in the Hot Box, it is critical to thoroughly clean and wipe down all internal components after each use. If not, mint oil residue can accumulate, forming deposits that may damage critical parts, including the fan, and lead to Hot Box malfunction.
- The Electricity at Work Regulations 1989 require that any electrical equipment that has the potential to cause injury is maintained in a safe condition.

Humidifier



- Using cold tap water in the tray will help to ensure the correct functioning of the humidifier. In hard water areas, mineral deposits can build up and may affect performance. If required, soak the unit in vinegar for 30 minutes and clean with a small brush.
- mineral deposits and may require cleaning.
- Hot Box does not reach the set humidity level. Replacement humidifiers are available from Martin Lishman.
- The humidifier works best in water depths of 45-70mm. Fill the tray to approx. 5-10mm from the brim. •
- The HotBox can operate for long periods (up to 999 hours). For longer usage periods, check the water level every 12 hours to make sure the humidifier is still submerged. Top up the water if necessary.

Fault Finding

WARNING – Risk of Electrocution

Electrical fault finding can sometimes require coming into contact with potentially exposed electrical conductors. This must be carried out by a competent electrician.

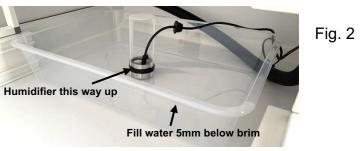
Make sure that the mains power is isolated before removing the front control cover. Electrical maintenance is only to be undertaken by gualified persons. The fan, heater and humidifier are fused separately inside the controller enclosure. All fuses must be replaced with the same type of rating.

The controller contains safety thermal trips which reset automatically.

FUSES	FUSE SIZE AND TYPE	FUSE LOCATION
MAINS FUSE (F1)	Cartridge 5A 5x 25mm	UK Mains plug
HUMIDIFIER FUSE (F2)	Cartridge 2A 5x20mm	Controller Enclosure
HEATER FUSE (F3)	Cartridge 2A 5x20mm	Controller Enclosure
FAN FUSE (F4)	Cartridge 150mA 5x20mm	Controller Enclosure

recommended that the inside is cleaned regularly with an antibacterial cleaner and that the water tray is refreshed at

Leave the front door(s) open when not in use to allow the unit to dry out inside. Failure to do so can result in the RH



The humidifier has a water level sensor to avoid running dry (A). This sensor is also susceptible to interference from

The humidifier ceramic membrane will eventually wear out (B). This will be indicated if it stops producing mist or the