

Dear Customer

Thank you for purchasing this piece of temperature control equipment. To get the best performance from your equipment and for your own safety please read these instructions carefully before use.

GENERAL NOTES

1. This product is designed for heating splinting materials. Always follow good practice.
2. Fill the heat pan prior to connection to electrical supply.
3. Use caution when topping up/draining the heat pan. If this product is not used in accordance with these instructions, then basic safety protection may be affected.
4. The mains supply cord fitted to this product is heat resistant and should be replaced with an equivalent type by a qualified electrician.
5. Ensure that the power supply has a safety earth (ground) terminal.
6. Ensure that the mains switch, and power supply connector are accessible during use.
7. Before using any cleaning or decontamination method please refer to the Maintenance and Cleaning section to ensure the proposed method will not damage the unit.
8. Connect only to a power supply with the corresponding voltage to that specified on the rating label positioned on the rear of the unit.
9. Do not block ventilation slots during use and always follow installation instructions.
10. Drain before moving the heat pan.

LOCATION

The product must be placed on a smooth, level and sturdy work surface, preferably near a drain for emptying. Use in a ventilated room. Suitable for use in ambient temperatures 41°F to 104°F with a maximum humidity 80% (temperature 88°F) decreasing to 50% (temperature 104°F).

DO NOT block or restrict ventilation slots. DO NOT place directly next to hot heat surfaces. ENSURE that there is sufficient space around the product to allow it to provide optimum temperature control.

UNPACKING

Remove the product from its packaging and retain over the warranty period. Contents consist of:

- Bath
- Perforated shelf
- Drainage Hose and Connector
- 28/56 Liter Bath: Eyebolt Kit to aid removal of the shelf
- Power lead and USA plug (56 liter is hard wired)
- Instruction manual

Place the perforated shelf into the bath with the legs facing down. Fit the power lead into the socket at the rear (9 and 28 liter baths).

SAFETY



Do not touch any electrical contacts or open any closure panels.
RISK OF ELECTRIC SHOCK!!

POWER LEAD AND CONNECTION TO ELECTRICAL SUPPLY



Check the electrical supply is compatible with the rating label. **IF IN DOUBT CONSULT AN ELECTRICIAN. THE PRODUCT MUST BE EARTHED!**

Where the mains supply or plug connection differs refer to local regulations or consult an electrician.

WATER LEVEL



Always ensure the product is disconnected from the electrical supply before filling and emptying.

Minimum water level: always fill the heat pan above the 'MIN' mark on the tank. **DO NOT UNDER FILL AND ALWAYS CHECK WHILST IN USE!**

Maximum water level: do not exceed the ridge in the tank.

DO NOT OVERFILL THE BATH! AT HIGH TEMPERATURES OR IMMERSION OF SPLINTING MATERIALS, WATER WILL OVERSPILL!



ADEQUATE WATER LEVELS MUST BE MAINTAINED AT ALL TIMES TO AVOID DAMAGE TO THE HEATING ELEMENT.

ALWAYS FIT THE PERFORATED SHELF/MESH - ENSURE THE LEGS ARE POINTING DOWN.

OPEN THE LID SLOWLY AND CAREFULLY TO ENSURE CONDENSATION RUNS BACK SAFELY INTO THE HEAT PAN!

HOT SURFACES ALWAYS USE THE HANDLE!

LED INDICATORS



HEATING INDICATOR

When LED is illuminated heat pan is being heated.



OVER TEMPERATURE ALARM

LED is illuminated when heat pan is in alarm condition.

TIMER INDICATOR

- Continuous illumination indicates timer is set.

- Flashing illumination indicates timer is running/counting down.



SET TEMPERATURE INDICATOR

Continuous illumination indicates set point is shown on display.

MANOSPLINT DIGITAL HEAT PANS

K-9DB-120, K-28DB-120 AND K-56DB-120 - 2 YEAR WARRANTY

OPERATING INSTRUCTIONS



FUNCTION



DOWN AND UP ARROWS



RUN

Setting Temperature SP1

Press DOWN ARROW key to display SP1. Use UP and DOWN arrow keys to select the desired temperature. Press FUNCTION key to confirm settings.

Setting Timer t

Press FUNCTION key repeatedly until “t” is displayed. Use UP and DOWN arrow keys to select timer timed period required. The timer can be set from 00:01 (1 minute) to 99:59 (99 hours and 59 minutes). Press FUNCTION key to confirm settings. Display will alternate between “Act.t” and actual time.

Please note: the timer cannot be started until the heat pan has reached the set temperature SP1.

Timer Operation

Press and hold the RUN key to start the timer when SP1 has been reached. Pressing the UP arrow at any point will display time remaining. An audible beep and END message will indicate when the timed period has finished. Press the RUN key to clear the message and beep.

Delay Start - Wake Up Operation

Press FUNCTION key repeatedly until “Act.t” is displayed. Using the UP and DOWN arrow keys set the actual (current) time. Time is displayed in 24-hour clock format. Press FUNCTION key to confirm.

Press FUNCTION key repeatedly until “Str.t” is displayed. Using the UP and DOWN arrow keys set the actual (future) time you wish the bath to start heating. Time is displayed in 24 clock format. Press the FUNCTION key to confirm.

Press FUNCTION key repeatedly until “GO” is displayed. At this point ensure the display reads “no”. Press the FUNCTION key to confirm.

Press FUNCTION key repeatedly until “GO” is displayed again. This time using the UP and DOWN arrow keys change the display to “yes”. Press the FUNCTION key to confirm.

The display will now read “ST.By” - your heat pan is now set to Delay Start - Wake Up Operation and will start heating at the time requested.

EXAMPLE SETUP INSTRUCTIONS FOR DAILY USE:

1. Ensure the bath is filled with water to the recommended level. Switch the bath on using the mains switch.
2. Set the 24-hour clock to actual time (Act.t).
3. Set the start time (Str.t) to 8.00am ready for a 9.00am clinic. The bath will commence heating at 8.00am ready for use at splinting temperature at 9.00am.
4. Throughout the day the bath is always at splinting temperature ready for use.
5. End of day: put the bath into standby (ST.By) and the bath will hibernate. Ensure water level is topped up before leaving and close the lid. Leave the bath switched on.
6. Bath will automatically come on at 8.00am as described above.

POWER INTERRUPT DURING TIMER MODE

If the power is interrupted during the timer mode, the display shows “P.OFF” when resumed. To clear press and hold the RUN key until display reverts to actual temperature. Timer mode will then continue. To deactivate the timer, press and hold the RUN key.

LOW LIQUID LEVEL FLOAT SWITCH “FILL” MESSAGE

The bath features a low liquid level alarm - display will read “FiLL”. Heating will be switched off if the liquid falls below the recommended level. To reset top up the liquid carefully as spitting may occur.

OVER TEMPERATURE ALARM

The over temperature alarm is automatically set 39°F above set temperature. When in alarm condition the LED indicator illuminates, and actual bath temperature is shown. Once water temperature has fallen to within range the indicator clears, and actual bath temperature is displayed.

CARE AND MAINTENANCE

Please ensure that the washing agent and sanitizing agent are approved by the H&S department for use on your equipment and stainless steel.



DISCONNECT THE HEAT PAN FROM THE POWER SUPPLY PRIOR TO CLEANING

Allow heat pan to cool to before emptying.

BASIC CLEANING

The stainless-steel crevice free tank and stainless-steel lid should provide years of valuable service and is resistant to chloride containing solutions, but it is important to avoid high concentrations of halogens- particularly chloride.

The heat pan should be emptied at the end of each day, allow to cool then for interior surfaces:

• WASH • RINSE • DRY •

Drain Outlet: Please ensure that the above cleaning process includes the outlet on the side of the tank, paying particular attention to flushing the outlet and tap thoroughly.

Scale Build Up: In hard water areas limescale can build up and reduce the efficiency of the heat pan. Cleaning at the end of each day can prevent this but periodically it may be necessary to descale the heat pan. Add 1 liter of vinegar to the normal capacity of water and heat for 1 hour to 50°C.

Bar Keepers Friend® can be used as a stainless-steel cleanser to remove unsightly mineral deposits.

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EXTERIOR ANTI BACTERIAL PAINTED SURFACES

The heat pan should be cleaned at regular intervals by wiping external surfaces with a cloth or sponge soaked in warm water with a mild detergent. **DO NOT USE STRONG SOLVENTS OR SOLUTIONS CONTAINING CHLORINATED HYDROCARBONS, ESTERS, KETONES OR ABRASIVE CLEANERS AS THIS MAY DAMAGE THE BUILT IN ANTI BACTERIAL PROPERTIES.**

The “anti-bacterial” paint finish inhibits the growth of bacteria. It has been tested by independent specialist houses using internationally recognized test methods and proven to be effective against a wide range of bacteria including Escherichia Coli and Staphylococcus Aureus (MRSA).

We recognize hygienic coatings are part of a controlled approach to a cleaner working environment. Within the paint formulation is an active ingredient with proven anti-bacterial properties which is maintained throughout its life span. In a laboratory environment this is one less source of contamination. Unlike detergents the anti-bacterial paint finish does not offer instantaneous action but is intended for long term general protection against bacterial growth.

Moisture on the painted surface is necessary for the bacterium to absorb the agent and be affected by it. The coating is therefore less active in very dry conditions although moisture in the atmosphere will maintain some activity. Areas where moisture is trapped are difficult to clean and allow bacteria to proliferate but these areas are most active for the anti-bacterial coating improving defense against bacterial growth.

WARRANTY TERMS AND CONDITIONS

This product is covered by a two-year warranty.



ELECTRICAL SAFETY TEST

We enclose the results for this Heat Pans electrical safety tests conducted at the Factory.

DECLARATION OF CONFORMITY

We herewith confirm the following product:

K-9DB-120, K-28DB-120 and K-56DB-120 Digital Heat Pan

 Conforms with the requirements outlined by the following European Directives:	 Conforms with the requirements outlined in the following United Kingdom Directives:
Low Voltage Directive 2014/35/EU	Electromagnetic Compatibility Regulations 2016
EMC Directive 2014/30/EU	Electrical Equipment (Safety) Regulations 2016
RoHS Directive 2011/65/EU	RoHS Directive 2011/65/EU

Conforms with the requirements of the following standards:

BS EN 61010-1: 2010	Safety requirements for electrical equipment for measurement, control, and laboratory use
BS EN 61010-2-010: 2014	
BS EN 61326-1: 2013	Electrical equipment for measurement, control and laboratory use - EMC requirements

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FINAL INSPECTION AND ELECTRICAL SAFETY TEST REPORT

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