



# INSTRUCTION MANUAL



## **Introduction**

Congratulations on the choice of an Australian made quality product. Labec products are manufactured, tested and calibrated to meet published standard specifications under our strict quality assurance guidelines.

This Instruction Manual is for the guidance of operators of Labec Oil Baths and should be read before the bath is connected to the electricity supply.

It is hoped that this manual will supply all the information that the customer should require for satisfactory operation of the bath. If, however, there are any questions that remain unanswered then the customer should contact our Service Department.

## **Unpacking**

Remove all packing and protective wrapping from both interior and exterior of the bath. Check the bath for the possible transit damage. Ensure all ordered accessories are present. If any physical damage or shortages are evident, do not discard the packaging material until the bath is inspected by the distributor, agent or manufacturer.

**NOTE: All claims for shortage or damage must be made within fourteen days (14) from delivery.**

Subject to our standard published conditions of sale, we have reasonable grounds to believe that we have ensured, so far as is reasonably practical, that the products listed in our catalogue and brochures have been designed and constructed so as to be safe and without risk to health when properly installed and used in their environment by appropriate and trained personnel, and where applicable, in accordance with our published instructions.

## **Installation**

### **Electrical**

**This equipment must be tagged and tested according to AS/NZS3760:2010 prior to use and thereafter on a regular basis dependent upon the environment.**

It is preferable to locate the bath close to a power point and recommended that double adaptors are not used. Check the total wattage if connecting to multi-point outlets. Check the rating plate for power requirements. Installation is to be carried out by a qualified electrician in accordance with the power requirements of the product specifications.

### **Location**

Select a location free from draught and away from direct sunlight or other heat source.

### **Temperature Control**

LABEC Oil baths are fitted with a digital temperature controller as per Appendix A, connected to the element. The bath has been stringently tested before shipment to ensure all is in working order.

### **Description of Controls**

Adjust the temperature controller as per Appendix A. An orange heater light will illuminate when power is being supplied to the elements.

**Caution**

Please observe the following safety measures before using your LABEC equipment.

1. These baths are **NOT FLAME PROOF** and under no circumstances should inflammable, combustible or explosive material be placed in the bath.
2. Low ignition temperature materials and those materials which give off inflammable or explosive vapors should not be placed in the bath.
3. Avoid heating substances which give off corrosive vapor.
4. Users are advised of the dangers of heating combustible materials. The manufacturer can recommend special types of elements which will prohibit the baths temperature reaching known ignition points.
5. Observe those rules pertaining to wiring and installation of electrical appliances as recommended by the local supply authority.

**WARNING**

It is detrimental for any of the substances listed below to be inside this equipment. The interior of the bath may be damaged if exposed to any of them. Corrosion of the stainless steel and other surfaces will be directly attributable to the presence of one or more of these substances and will not be a defect or failure for which the manufacturer will accept responsibility.

	SALT	ACIDS	MISCELLANEOUS
ORGANIC SUBSTANCES			
ALKAFORM	AMMONIUM BROMIDE	ACETIC	BROMIDE
ANAESTHESIA	AMMONIUM CHLORIDE	BORIC	CHLORINE
CARBON	CALCIUM CHLORIDE	CARBOLIC (PHENOL)	FLUORINE
TETRACHLORIDE	CALCIUM HYPOCHLORITE	CHROMIC	IODINE
FORMALDEHYDE	FERRIC CHLORIDE	HYDROCYAIC	SULPHUR DIOXIDE
LYSOL(CRESOLS ETC)	HYDROGEN PEROXIDE	NITRIC	
TRICHLORETHYLENE	MAGNESIUM CHLORIDE	OXALIC	
	MERCURIC CHLORIDE	HYDROCHLORIC	
	POTASSIUM CHLORIDE	PHOSPORIC	
	POTASSIUM HYPOCHLORITE	SULPHURIC	

	POTASSIUM HYPOCHLORITE	SULPHUROUS	
	SODIUM CHLORIDE	TARTARIC	
	SODIUM HYPOCHLORITE		

### Operation

1. Connect the bath to an alternating current supply of voltage specified on the rating plate.
2. Ensure the oil level is above the elements.

### DANGER: THIS BATH MUST NOT BE CONNECTED TO A DIRECT POWER SUPPLY

3. Switch the MAINS on then Turn the simmerstat/thermostat or temperature controller up as required and check the indicating lamp is illuminated.
4. An indicating lamp on the controller will illuminate when the heaters are operating.
5. Ensure the over heat cut off is set by pressing it in or the overtemperature alarm AL4 is set above the desired operating temperature (depending on which is present).

### Safety Cut/ Overtemperature

If the bath is fitted with a manual reset button, be sure this is depressed before use. If the level is too low or runs out the switch will pop out and turn the heaters off until the reset is depressed.

If the bath is fitted with an inbuilt over heat safety protection. It must be set to slightly above the desired setpoint temperature and will prevent overheating. It will maintain the Alarm Set Value. Change the AL4 value to slightly above the setpoint temperature as set out in the instruction page. The Alarm will be activated if the incubator exceeds the AL4 value or if the sensor is broken or damaged. Adjusting the Alarm Hysteresis value will cause the incubator to cool down by that value before it begins heating again. For example if the Alarm Hysteresis is set to 100 the incubator must cool down by 100°c below AL4 before it will begin to reheat. Where you require the incubator to switch off completely should an alarm condition result then please contact the manufacturer to purchase the OST100 manual overtemperature reset control system.

### Maintenance

The casing is finished with stainless steel and to maintain appearance should be wiped over with a non abrasive cleanser.

The interior is also stainless steel and may also be cleaned with a solvent

## Trouble Shooting

SYMPTOM	REMEDY
No Power  (Indicator Light is off)	<ol style="list-style-type: none"><li>1. Check the bath is plugged in and power switched on.</li><li>2. Ensure mains power supply point is functioning by using a test appliance on power socket.</li><li>3. Check internal RCD has not tripped.</li></ol>
Failure to heat or maintain temperature  (Indicator light is on)	<ol style="list-style-type: none"><li>1. Ensure the temperature controller set point is above ambient.</li><li>2. Check the safety controller fitted is above the main controller setting.</li><li>3. Cut out button has popped out.</li></ol>

If the fault cannot be found call your distributor or the manufacturer quoting the serial number of the unit from the manufacturers label.

### Declaration of Conformity

Each product is thoroughly inspected and tested to not only ensure that it meets the specifications provided, but to also meet Australian Electrical Standard AS3820 and EMC Standard AS/NZ1044:1995, and therefore being accredited with a C Tick label.