



Laboratory Equipment Pty Ltd

INSTRUCTION MANUAL

FOR LABORATORY REFRIGERATOR FREEZER

Laboratory Equipment Pty Ltd
"Proudly Australian Owned and Operated."
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Introduction

Congratulations on the choice of another 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 Combination Refrigerator/Freezers and should be read before the unit 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 this product. 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 Refrigerator/Freezer. Check the Refrigerator/Freezer for any 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 Refrigerator/Freezer 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 Refrigerator/Freezer/Freezer/Freezer close to a power point and recommended that double adaptors are not used. Check the total wattage if connecting to multipoint 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. The unit must be EARTHED.

DANGER: THIS UNIT MUST NOT BE CONNECTED TO DIRECT CURRENT SUPPLY

Alarm Output/BMS (If fitted)

If the Refrigerator/Freezer has a safety alarm controller output fitted (BMS is a voltage free connection) the AUX alarm output connection can be connected to an external device such as a phone dialler or similar or building maintenance system to indicate temperature fluctuations. Do not set the alarm hysteresis too close to the set temperature or the alarm will activate too often.

Operation

1. Connect the chamber to an alternating current supply of voltage as specified on the rating plate mounted on the side or rear of the chamber. The main temperature controller will turn on automatically.
2. The temperature controller will switch the Refrigerator/Freezer on and control temperature.
3. Set the alarm values if required.
4. Set the temperature controller at the required temperature using the up and down arrows on the keypad. See Appendix A for more details.

5. Final adjustment of the temperature controller may be required after the chamber has reached operating temperature and this should be checked with a suitable thermometer located in the chamber (A thermometer is not supplied with the chamber).
6. The shelves can carry around 20 kilograms each.

Temperature Controls

See Appendix A

Maintenance

The cabinet is finished with stainless steel or painted epoxy and to maintain appearance should be wiped over with a non abrasive household cleanser. The chamber is manufactured from aluminium, stainless steel or formed plastic which may be cleaned with a gentle cleaner. If the door is also plastic lined it should only be cleaned with general purpose cleaners. Glass doors should be cleaned with glass cleaner. If a fan motor is fitted the fan motor is pre-lubricated with sealed bearings which should not require maintenance for some time depending upon extent of usage. The shelves are manufactured from plastic coated steel or stainless steel and a non abrasive cleaner should be used. The magnetic door gasket should be cleaned with detergent only ensuring it is dried completely after washing.

Defrosting

Over a period of time the shelves may build up a layer of frost upon them which will effect the operation of the Refrigerator/Freezer. We recommend defrosting when the ice frost layer is around 5mm thick and by scraping it off with a plastic or wooden scraper NOT METAL, otherwise turn the unit off for a period of 24 hours with the door opened to allow the frost to melt away.

Trouble Shooting

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

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