



# INSTRUCTION MANUAL



Laboratory Equipment Pty Ltd

Laboratory Equipment Pty Ltd  
email: [sales@labec.com.au](mailto:sales@labec.com.au)  
Ph: 02 9560 2811 • Fax: 02 9560 6131  
[www.labec.com.au](http://www.labec.com.au)

## 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 SPARK PROOF Fridges and Freezers and should be read before the fridge/freezer 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.

**NOTE: ONLY THE INTERIOR OF THE CHAMBER IS SPARK PROOF!  
THE EXTERNAL COMPRESSOR MOTOR DOES HAVE ELECTRICAL SWITCHING AND MAY  
IGNITE FUMES IF THEY ARE PERMITTED TO ESCAPE FROM THE CHAMBER.**

## Unpacking

Remove all packing and protective wrapping from both interior and exterior of the fridge/freezer. Check the fridge/freezer 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 fridge/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 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.

### Alarm Output (If fitted)

If the fridge/freezer has a safety alarm controller output fitted, the alarm output connection can be connected to an external device (check this contact is not a powered contact before using) 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.

**DANGER: THIS FRIDGE/FREEZER MUST NOT BE CONNECTED TO DIRECT CURRENT SUPPLY**

2. The temperature controller will switch the fridge/ 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. Where there are excessive amounts of fumes which may ignite when the door is opened turn the fridge/freezer off before opening the door and then allow at least 30 minutes and ventilate the room for the fumes to dissipate before switching the fridge/freezer back on. If you are unsure leave off until the room is checked.

### Temperature Controls

See Appendix A

### Maintenance

The cabinet is finished with painted epoxy and to maintain appearance, should be wiped over with a non abrasive household cleanser. The chamber is manufactured from formed plastic and may be cleaned with a gentle cleaner. The door is also plastic lined and should only be cleaned with general purpose cleaners.

**As there is no internal drainage (so any fumes do not come into contact with the external compressor motor) the catchment trough inside the fridge at the base will need to be wiped out weekly to remove any condensate in the trough.**

### Trouble Shooting

SYMPTON	REMEDY
No Power  (Indicator Light is off)	<ol style="list-style-type: none"> <li>1. Check fridge/freezer 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 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> </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.