

Advanced Refrigerator

RA/PFR/G21043 and RA/PFR/G44043

Operating Instructions



ⓘ IMPORTANT: These operating instructions contain information essential to the safe and reliable operation of your refrigerator. Failure to use your fridge in accordance with these instructions may invalidate your warranty.

PLEASE RETAIN AND KEEP IN A SAFE PLACE FOR FUTURE REFERENCE

www.labcold.com

Cherrywood, Chineham Park, Basingstoke, RG24 8WF

IMPORTANT SAFETY INFORMATION

The maximum shelf /draw loading is 50kg/m
The noise level in normal operation is below 60dB(A)

This refrigerator is climate class 4 and is designed to operate at +16°C to =32°C ambient room temperature

Keep clear of obstruction all ventilation openings in the appliance enclosure.

WARNING!

Do not use mechanical or other means to accelerate the defrosting process.

Do not use electrical appliances inside the storage compartments of the appliance - risk of electric shock.

If the power supply cord is damaged, it **MUST** be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard - risk of electric shock.

Do NOT extend the power supply chord and when positioning the appliance ensure it is not trapped or damaged - risk of electric shock.

Servicing should **ONLY** be carried out by a suitably qualified engineer and only engineers who have been trained in the safe handling and use of hydrocarbon refrigerants should work on the refrigeration system.

Do NOT damage the refrigerant circuit. If you suspect a leak, contact the manufacturer or it's service agents immediately. Do NOT touch the refrigerant it can cause severe eye irritation, redness, tearing, blurred vision and inhalation of vapours may cause drowsiness and dizziness and irritation of the respiratory system. Contact with the liquid may cause cold burns, frostbite or freezing of the skin.

Labcold Advanced Refrigerators are for use by adults only in a professional environment.

Do NOT store explosive substances such as aerosol cans with flammable propellant in this appliance - Risk of explosion.

Keep liquids with high alcohol content in sealed containers in a vertical position.



WARNING!

This refrigerator contains extremely flammable gas

It MUST NOT be located in a room or area with a volume less than 100m³.

This refrigerator contains gas under pressure which may explode if heated.

WEEE: Disposal at end of life.

This equipment, when being disposed of in an EU Member State or the UK, is subject to the Waste Electrical and Electronic Equipment Regulations (WEEE) and must be recycled and disposed of in accordance with the local laws of that State at the time of disposal. This refrigerator contains flammable insulation gases and must be disposed of in the appropriate way by competent persons. Ensure that none of the refrigerant circuit pipes are damaged prior to disposal.

The symbol below on the appliance or accompanying documents indicates that this refrigerator should not be treated as ordinary waste but must be taken to a special collection centre for the recycling of electrical equipment. For more information regarding the treatment, recovery or recycling of this product, contact your competent local office, electrical waste disposal or vendor from whom you purchased the refrigerator.



As this item is designed for medical or scientific use, before presenting for collection and disposal it will be necessary for the user to provide documentary evidence of decontamination and/or that it is entirely safe to handle and dismantle outside of a controlled environment. Goods that cannot be so certified fall outside the scope of the Directive and remain the user's responsibility to dispose of.

Operating instructions for your

Labcold

Advanced Refrigerator

Model Nos: RA/PFR/G21043 and RA/PFR/G44043

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PLEASE RETAIN AND KEEP IN A SAFE PLACE FOR FUTURE REFERENCE

Before Use

Thank you for purchasing a Labcold Advanced Refrigerator which has been designed for professional use in a medical or scientific environment.

Although great care has been taken in the manufacture of your fridge, damage can occur in transit. Before using for the first time remove all packaging and give your refrigerator a thorough visual inspection. If any damage is suspected, please contact your retailer immediately upon receipt of your product. **Failure to do this may invalidate your warranty.**

Positioning

Depending on model, this refrigerator weighs between 120 and 250kg. We recommend that it is moved by two people or the proper equipment is used to avoid personal injury or damages. **Do not tilt more than 45 degrees.**

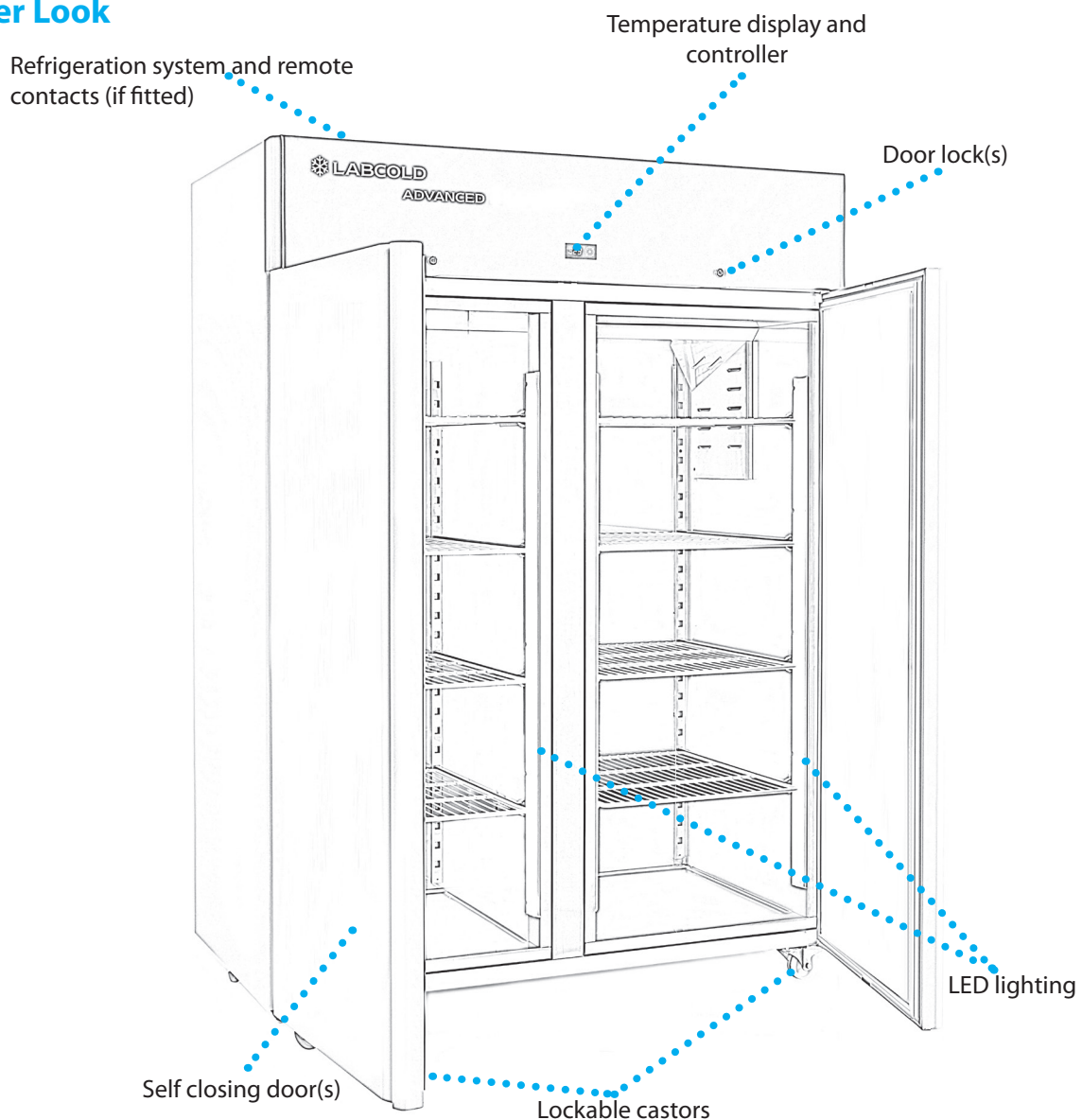
Position your refrigerator on a hard floor in a well ventilated room away from direct sunshine and other heat sources like a radiator. Leave at least 100mm all round the refrigerator to allow for the dissipation of heat. Failure to do this may affect the performance of your fridge and increase power consumption.

Lock the castors and remove any protective film attached to the refrigerator.

Clean your fridge with mild soapy water and insert the shelves spaced evenly to prevent the airflow being interrupted. Dry thoroughly.

Your refrigerator should now be left in place but not connected to a power source for at least six hours to prevent damage to the compressor

A Closer Look



Plug in and Switch On

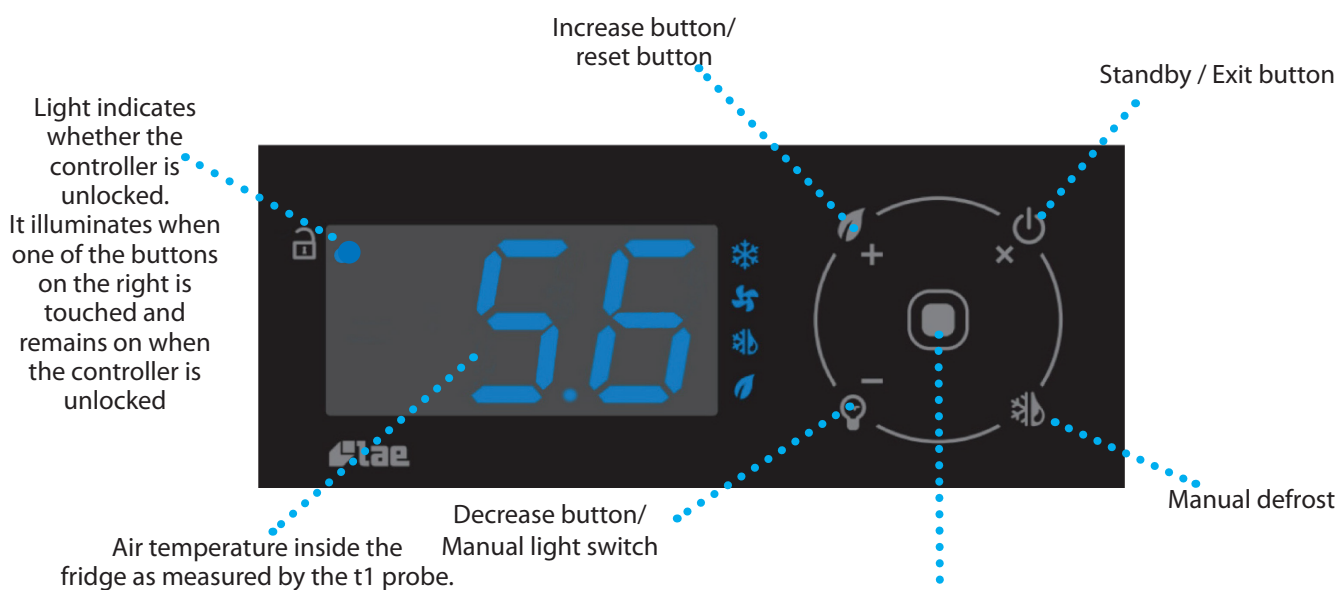
Before plugging in your refrigerator for the first time make sure that the power cable is free from damage and check that your voltage corresponds to that on the serial plate.

It is recommended that you do not use extension leads or multiple socket adapters. Make sure the power cable is not bent, pinched or compressed and can be easily accessed.

When you plug in your fridge for the first time the controller will illuminate and the refrigerator will alarm, you can mute the alarm by tapping the centre button on the controller twice in quick succession, see below.

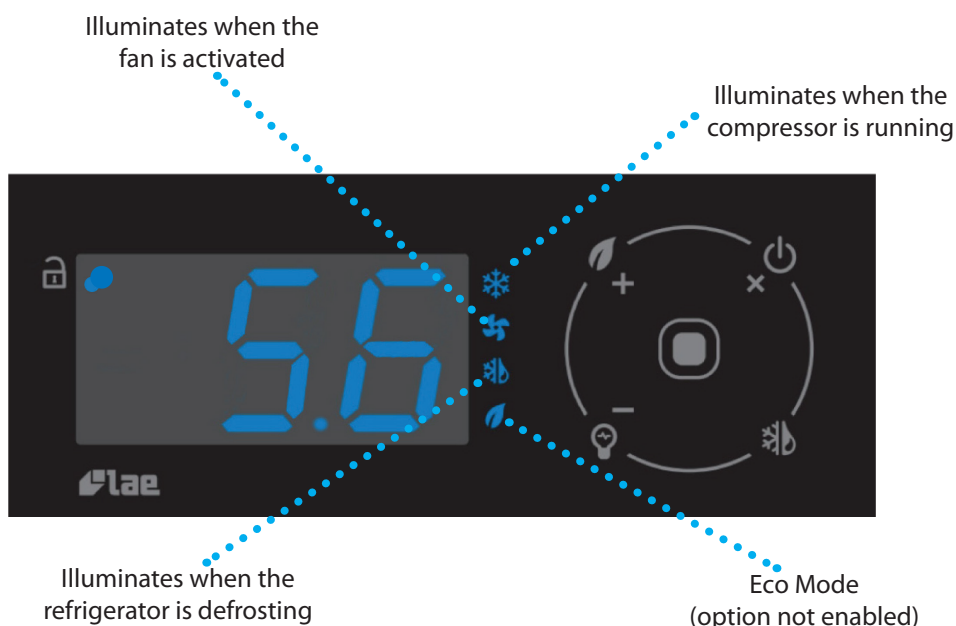
The controller of your refrigerator has been programmed by Labcold technicians to run at 4°C and to alarm at 2°C and -8°C unless differently specified at time of ordering. The fridge also has a door open alarm activated if the door is open for more than 5 minutes.

Controller



Once the fridge is switched on, this will display all the time unless there is an alarm.

Tap here twice in quick succession to unlock the controller. You need to unlock the controller *before* you can view the set point, high/low temperatures, perform hi/lo reset or manually turn the light on.

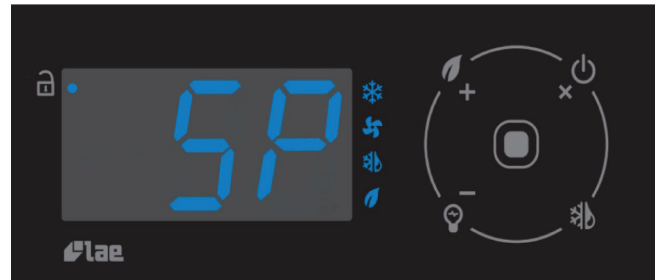


Viewing the set point

Tap the centre of the controller, twice quickly to unlock the controller.

Touch the centre once
The controller will now display **SP**

Touch again and the controller will display the set point which will be 4°C unless specified differently at time of order.



❗ Please be aware that you have to go through the menu sequentially to view further readings, there are no menu short cuts but to return to the beginning of the sequence, press and hold the exit button

Viewing the current air temperature

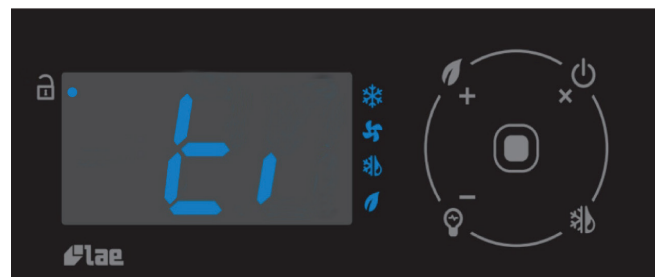
Tap the centre of the controller, twice quickly to unlock the controller.

Touch the centre once
The controller will now display **SP**

Touch again and the controller will display the set point which will be 4°C unless specified differently at time of order.

Touch again and the controller will display **ti**

Touch again and the controller will display the temperature of the air probe



Viewing the current evaporator temperature

Tap the centre of the controller, twice quickly to unlock the controller.

Touch the centre once
The controller will now display **SP**

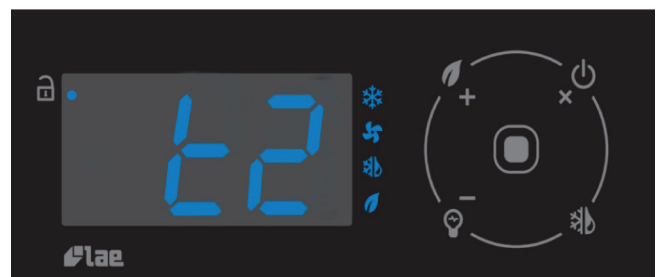
Touch again and the controller will display the set point which will be 4°C unless specified differently at time of order.

Touch again and the controller will display **ti**

Touch again and the controller will display the temperature of the air probe

Touch again and the controller will display **t2**

Touch again and the controller will display the temperature of the evaporator



Viewing the high temperature recording

Touch the centre of the controller, twice quickly to unlock the controller.

Touch the centre once. The controller will now display **SP**

Touch again and the controller will display the set point which will be 4°C unless specified differently at time of order.

Touch again and the controller will display **ti**

Touch again and the controller will display **t2**

Touch again and the controller will display the temperature of the evaporator

Touch again and it will display **thi**

Touch again and it will display the highest air temperature recorded since the last high temperature reset



Viewing the low temperature recording

Tap the centre of the controller, twice quickly to unlock the controller.

Touch the centre once
The controller will now display **SP**

Touch again and the controller will display the set point which will be 4°C unless specified differently at time of order.

Touch again and the controller will display **ti**

Touch again and the controller will display the temperature of the air probe

Touch again and the controller will display **t2**

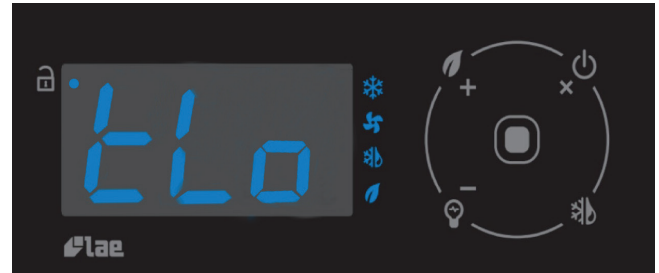
Touch again and the controller will display the temperature of the evaporator

Touch again and it will display **thi**

Touch again and it will display the highest air temperature recorded since the last high temperature reset

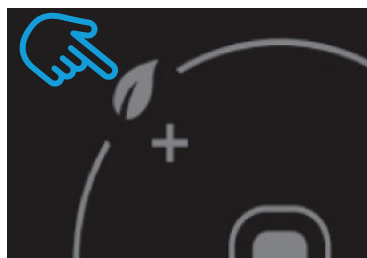
Touch again and it will display **tlo**

Touch again and it will display the lowest air temperature recorded since the last low temperature reset



Resetting the high/low temperature recordings

To reset the high temperature recording follow the procedure for viewing the high temperature and then press and hold the temperature increase + button for 3 seconds.



This will clear the last high temperature recording from the memory of the controller so if you need to record that temperature make a note of it before you clear it.

To reset the low temperature recording, follow the procedure for viewing the low temperature and then press and hold the temperature increase + button for 3 seconds.

Alarms

This Advanced Refrigerator is fitted with an audio visual high and low temperature alarm which activates if the air temperature inside the fridge exceeds 8°C or falls below 2°C for over 15 minutes.

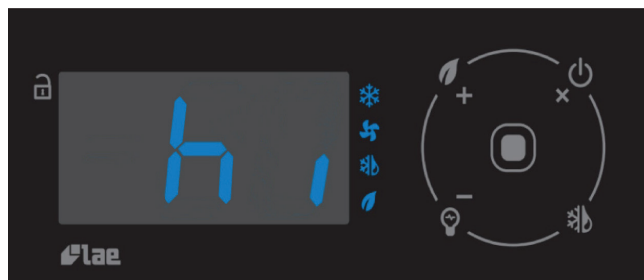
The fridge is also fitted with an audio visual door open alarm. This activates when the door has been open for more than 5 minutes.

High temperature alarm

This is activated when the temperature as detected by air probe exceeds 8°C for over 15 minutes.

The controller will flash **hi** and emit a beeping sound.

If you are completely satisfied that the high temperature alarm is nothing to worry about, for example you have just plugged it in, you can mute the alarm by tapping the centre button twice in quick succession.



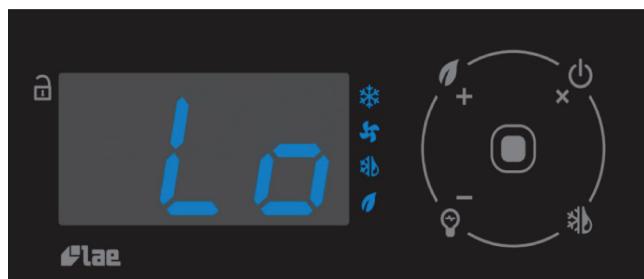
- ❗ We recommend that **ALL** alarm incidents are investigated and the contents of the refrigerator moved to another temperature controlled environment if the cause of the alarm is not immediately obvious and rectifiable.

Low temperature alarm

This is activated when the temperature as detected by the air probe is lower than 2°C for over 15 minutes.

The controller will flash **Lo** and emit a beeping sound.

If you are completely satisfied that the low temperature alarm is nothing to worry about, you can mute the alarm by tapping the centre button twice in quick succession.

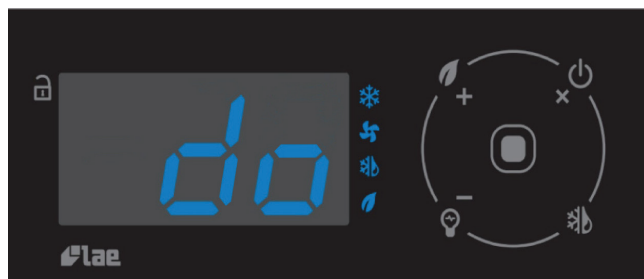


Door open alarm

This is activated if the door is left open for more than 5 minutes.

The controller will flash **do** and emit a beeping sound.

As soon as the door is shut the alarm will be cancelled but if you need the door open for more than 5 minutes you can mute the alarm by tapping the centre button twice in quick succession.



Muting an alarm

Tap the centre button in quick succession and the controller will no longer beep but the alarm cause ie high or low temperature, door open etc will still flash on the controller to remind you that the controller is detecting a problem.

Other alarms

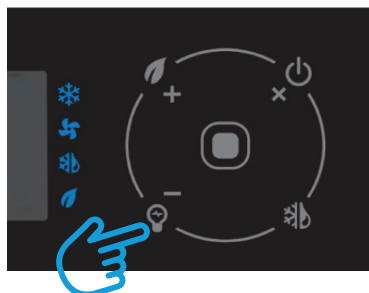
If there is an issue with the refrigerator the controller will show other alarms.

Should your fridge show any of the alarm states below, please contact our service team for advice.

Controller Display	Cause
E1	Air temperature probe failure
E2	Evaporator probe failure
hc	Condenser high temperature
cL	Condenser needs cleaning

Turning the light on

To put the light on independently of door openings, unlock the controller with two taps as explained on page 1 and press the decrease button/manual light switch.



Manual defrost

Your refrigerator features automatic defrost which runs every 12 hours. However, should you wish to perform a manual defrost unlock the controller and press the manual defrost button.



The controller will display **def** to confirm the refrigerator is in defrost mode.

WARNING! Do not use mechanical devices or other means to accelerate defrosting

Turning the refrigerator off with the controller

You can turn the refrigerator off without disconnecting it from the mains. Simply, unlock the controller and press and hold the standby/exit button.



The controller will display **off** to confirm the fridge is in standby mode and not cooling.

To turn back on, press and hold the standby/exit button again.

If the refrigerator is to be turned off for a long period of time we recommend it is also disconnected from the mains supply.

Door lock

Your Advanced Refrigerator is fitted with a door lock above each door with two keys supplied. To lock the door, push the key in gently and twist 90° to the left, to unlock, twist 90° to the right.

The key can be safely removed from both the lock and unlocked positions.

Keys should not be left in the lock as they protrude from the fridge and could cause a health and safety hazard or could be knocked which may damage the lock

Caring for your refrigerator

Loading

In order to ensure that there is even temperature distribution throughout your refrigerator it is recommended that:

- The shelves are not over filled
- The contents are not packed too close together
- The contents do not touch the wall or bottom of the fridge

Cleaning

It is recommended that your refrigerator is cleaned on a regular basis.

Before cleaning it is essential that you unplug the refrigerator from the electricity supply - risk of electric shock

Unplug the refrigerator before cleaning and remove all the contents.

- Use a mild detergent - **do not** use strong detergents or bleach
- Dry with a soft cloth
- Wipe the door seal with a damp cloth
- Gently remove the dust on the outside and top of the fridge. **Take care not to damage the pipes**

Defrosting

The refrigerator has an automatic defrost. However, It is recommended that your fridge is defrosted regularly and if there is a build up of ice over 10mm. This will happen more often in times of high humidity or if the door has been left open for a long time, if the refrigerator is over stocked or the ambient temperature is high or low.

To defrost your fridge you should:

- Remove the contents to a safe place and unplug or disconnect the refrigerator from the electricity supply
- Leave the fridge unplugged with the door open at room temperature until any ice has melted
- Do not use any sharp instruments to remove any ice, this may damage the refrigerator
- Dry thoroughly and remove any excess water before returning to use
- When completely dry and free of ice, connect the refrigerator to the power supply and turn on
- Leave the refrigerator cooling until it reaches the desired temperature before restocking to prevent spoilage

WARNING

Do not use anything electrical to accelerate the defrosting process - risk of electric shock

Trouble shooting

My refrigerator isn't working?

- Check that the refrigerator is plugged in and the plug socket is turned on
- Try the fridge in another plug socket
- Check that the refrigerator isn't in standby mode - see page 6

My refrigerator is running at too high a temperature?

- Check that there is not a build up of ice on the inside of the refrigerator
- Check that the door is not or has not been left open for a long time
- Check that the refrigerator is not too full, overfilling the fridge will result in the performance being impaired
- Check that the ambient temperature is not too high
- Check that it has not been recently stocked with warm material as this will raise the internal temperature

If none of the above solves the problem call our service department on **01256 705 580** for advice

There is ice build up

- Check that the door shuts properly and the gasket is not worn
- Check that the refrigerator is not placed near a heat source
- Check that the refrigerator is not overstocked
- Defrost your refrigerator at the earliest opportunity

The refrigerator makes a clicking and gurgling noise

This is all part of the normal operation of the fridge. Whenever the compressor turns on, the fridge will make a clicking sound and because the refrigerant flows through small tubes you may sometimes hear a gurgling sound.

Useful Information

Your **Labcold** Advanced Refrigerator comes complete with a two year parts warranty and labour warranty*. Comprehensive preventative annual maintenance contracts are also available at additional cost.

To register your warranty, please complete the enclosed form or visit our website at www.labcold.com, click on the 'Register your warranty' tab and follow the instructions. Full warranty terms and conditions can also be viewed and downloaded from the **Labcold** website.

In the unlikely event that there is a problem with your refrigerator, you should contact your retailer in the first instance. If you bought your fridge directly from **Labcold** you should contact our service team on: **01256 705 580** or e-mail them at service@labcold.com.

When you register your warranty or want to report a performance issue you will need to have the following information to hand. Please fill this in as soon as you get your refrigerator so we can assist you as quickly as possible should you have a problem or need to book a maintenance visit.

**Labour warranty UK only*

Model Number: _____

Serial Number: _____

Retailer: _____

Date Purchased: _____



*the professional choice for medical
and scientific refrigeration...*