



Crucial Temperature Solutions



Sparkfree Freezer RLVF02/0417 Operating Instructions

www.labcold.com

WARNING!

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

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.

Do not use mechanical or other means to accelerate the defrosting process. Keep clear of obstruction all ventilation openings in the appliance enclosure. This freezer is climate class 4 and is designed to operate at +16°C to +32°C ambient room temperature.

Do not damage the refrigerant circuit

Do not use electrical appliances inside the fridge/freezer

Please note this freezer is not explosion proof.

Do not store explosive substances such as aerosol cans with flammable propellant in this appliance.



WARNING!

Check the serial plate to confirm the gas as some freezers contains extremely flammable gas so MUST NOT be located in a room or area with a volume less than 10m³

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, is subject to the Waste Electrical and Electronic Equipment Regulations (WEEE) and must be recycled and disposed of in accordance with EU directive 2002/96/EC as applied in local laws of that State at the time of disposal. This freezer 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 freezer 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 Sparkfree Freezer

RLVF02/0417

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

PLEASE RETAIN AND KEEP IN A SAFE PLACE FOR FUTURE REFERENCE

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Before Use

Thank you for purchasing a **Labcold** RLVF02/0417 Sparkfree Freezer. Your freezer has been purpose designed and precision built for the safe storage of flammable materials with all possible sources of ignition removed from the inside of the freezer.

WARNING!

Do not store open containers of volatile substances
this is misuse and could lead to dangerous situations.

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

Please note this freezer is not explosion proof.

Do not store explosive substances such as aerosol cans with flammable propellant in this appliance.

Setting Up

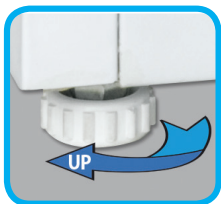
Place your freezer in the location in which it is to be used allowing adequate ventilation for the dissipation of any vapours from the cabinet.

WARNING

Keep clear of obstruction all ventilation openings in the appliance enclosure

❗ Do not place your freezer near a direct heat source or direct sunlight and leave at least 6cm all round the unit for adequate ventilation. **Failure to do so may effect the performance of your freezer.**

Clean your freezer with mild soapy water to remove any dust that may have accumulated during manufacture and dry thoroughly.



Ensure your freezer is level by adjusting the feet at the bottom of the unit.

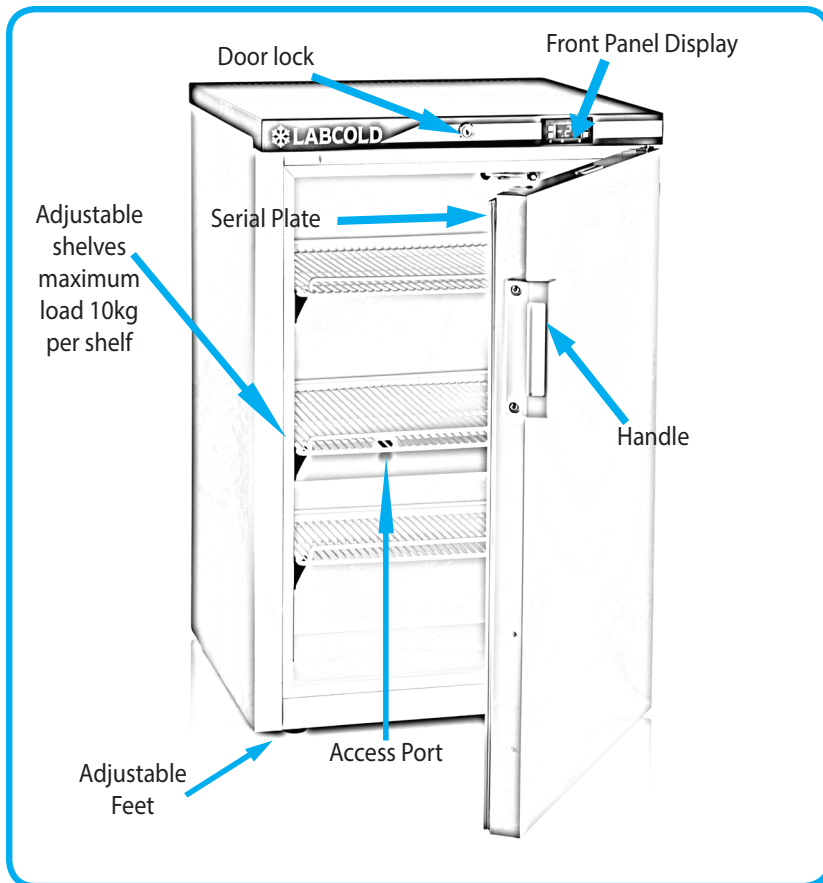
WARNING

Do not use electrical appliances inside the storage compartments of the freezer

YOUR FREEZER SHOULD NOW BE LEFT FOR AT LEAST TWO HOURS BEFORE CONNECTING TO POWER FOR THE FIRST TIME

A Closer Look

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Fitting the handle (if required)



The 135 litre model has a handle. To attach the handle, simply screw to the unit using the holes and screws provided.

WARNING! Failure to fit the handle may result in damage to the door gasket

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Plug in & Switch on

Before plugging in your **Labcold** freezer for the first time make sure 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 cords or multiple socket adapters. Make sure the power cable is not bent, pinched or compressed and that it can be easily accessed.


If necessary push and hold the  button for 3 seconds (approx) to start the freezer

ALTHOUGH THE FREEZER WILL REACH -20°C AFTER A FEW HOURS (APPROX) YOU SHOULD LEAVE THE FREEZER RUNNING FOR 24 HOURS BEFORE FILLING WITH TEMPERATURE SENSITIVE PRODUCTS.

Front Panel Display



Your freezer is preset to -20°C so you do not have to program the set point. To check the set point, simply press the **SET** button.

If the compressor LED is on, the compressor is on. This is a normal part of operation especially after door openings. If the  LED is red, the freezer is either in standby mode or is off. In either of these states it will not be cooling. Press and hold the off/on button to restart the freezer.

THE FREEZER HAS A PRE PROGRAMED SET POINT OF -20°C ONLY A LABCOLD ENGINEER CAN CHANGE THE SET POINT.

Alarms

Door Open Alarm

Your freezer will alarm with a loud beep and flash **ld** if the door is left open for approximately 4 minutes. To mute the alarm, press any button on the controller. The display will still flash **ld** until the door is closed.

High and Low Temperature Alarms

Your freezer has been set up to alarm if the temperature goes below -30°C or above -10°C . As with the door alarm it will make a beeping sound and if the temperature is below -30°C flash **AL** and if the temperature exceeds -10°C it will beep and flash **AH**.

To mute the alarm, press any button on the controller.

WE RECOMMEND ANY TEMPERATURE ALARM IS INVESTIGATED AND THAT YOU CONTACT THE SERVICE TEAM ON 01256 570 580 IF THE ALARM CONTINUES FOR ANY LENGTH OF TIME.

Door Lock

Your **Labcold** sparkfree laboratory freezer is fitted with a door lock and you are provided with 2 keys.



To open this lock push the key in gently and turn the key 90° to the right. To lock, turn the keys 90° to the left. The key can safely be removed from both the locked and unlocked positions.

KEYS SHOULD NOT BE LEFT IN THE LOCK AS THEY PROTRUDE FROM THE FREEZER. THEY COULD CAUSE A HEALTH AND SAFETY HAZARD OR COULD BE KNOCKED, WHICH MAY DAMAGE THE LOCK.

5 Caring for your Freezer

As with all freezers, your **Labcold** sparkfree freezer, although designed to provide you with many years of fault free service, will perform better if attention is paid to the loading and that it is regularly cleaned and defrosted.

Loading

In order to ensure even temperature distribution throughout your freezer it is important that:

- The shelves are not over filled
- The contents are not packed too closely together
- The maximum loading of the shelves is 10kg, do **not** overload
- The contents do not touch the wall or the bottom of the freezer
- After restocking the freezer, check the temperature 10 minutes later to ensure that the freezer is cooling down, running satisfactorily and is not over filled.

Cleaning

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

ⓘ Before cleaning it is essential that you unplug the freezer from the electricity supply, transfer the contents where they can be stored and monitored at the correct temperatures, and defrost it fully.

When cleaning you should:

- **Not** use strong detergents or bleach.
- Wipe the inside of the freezer in the same solution and dry with a soft cloth.
- Wipe the door seal with a damp cloth.
- Gently remove the dust on the outside and back of the freezer. **Take care not to damage the pipes.**

WARNING! 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

Defrosting

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It is recommended that your freezer be defrosted regularly, particularly if there is a significant build up of ice ie about 4mm or more in depth. This will happen more rapidly in times of high humidity, if the door has been opened frequently or left open for a long time, if the freezer is overstocked or the ambient temperature is high or low.

❗ The formation of some frost is perfectly normal and part of normal operation of the freezer

LABCOLD SPARKFREE FREEZERS DO NOT DEFROST AUTOMATICALLY

WARNING

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

To defrost your freezer you should:

- Remove all the contents to a safe place and unplug or disconnect the freezer from the electricity supply
- Leave the unit unplugged with the door open at room temperature until all the ice is melted
- Collect water in tray or with towel
- Do not use a sharp implement to remove any ice, as this will damage the inside of the freezer
- Do not use mechanical, electric or chemical means to speed up the defrosting process
- Dry thoroughly and remove any surplus water before returning to use
- Leave cooling and wait for the temperature to return to the set point and the unit to be maintaining the correct temperature before re-stocking the freezer

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Trouble Shooting

My freezer is not working

- Check that the freezer is plugged in and the plug socket is turned on.
- Try another appliance in the socket. If this appliance works but your freezer doesn't, please contact your retailer. If the second appliance also doesn't work the problem is likely to be with your power socket.

My freezer is making a gurgling noise

All **Labcold** freezers work by condensing an environmentally friendly gas. This is what causes the shelves of the freezer to get cold, and as part of this process the gas has to be compressed into liquid. This is why sometimes you will hear gurgling sounds coming from the freezer.

There is excessive ice in my freezer

This can occur for a variety of reasons:

- The room is too warm/cold or even damp
- The door has been left open
- The freezer has not been defrosted - we estimate that most sparkfree freezers with normal use may require defrosting every six months.

The freezer is rocking

This is because the freezer is not on a level surface. Check that the feet have been adjusted so the top is level and the freezer is standing on a hard surface.

What does the code mean on the display?

Code Displayed	Description	Action Required
Id	Door open alarm	Close the door
dEF	Defrost in operation	None - no fault
⏻	Freezer in standby mode	Press ⏻ for 3 seconds
AH	High temperature alarm	Press button to mute
AL	Low temperature alarm	Press button to mute

My independent thermometer shows a different temperature to the front of the freezer

Your **Labcold** sparkfree freezer has a probe placed at the rear of the freezer and the temperature displayed is calculated by analysing and averaging the temperature data collected by the probe. A thermometer placed in a different part of the freezer may read a slightly different temperature especially if it is placed close to the door or at the top or bottom of the freezer as these are the areas where the greatest temperature fluctuations occur.

My freezer won't start after a power cut

This is because the compressor may have stopped mid cycle. Either keep it plugged in and wait for it to start, or unplug the freezer and plug it back in to restart the compressor.

Useful Information 8

Your **Labcold** sparkfree freezer comes complete with a two years parts and labour warranty (UK customers only).

To register your warranty, please complete the enclosed warranty form or visit our web site at www.labcold.com, click on the 'Warranty Registration' 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 freezer, you should contact your retailer in the first instance. If you bought your freezer directly from **Labcold** you should contact our service team on: **01256 705 580** or Email 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 freezer so we can help you as quickly as possible in the event of a problem.

Model Number _____

Serial Number _____

Retailer _____

Date Purchased _____



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and scientific refrigeration...*

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