USER MANUAL

Please read and keep these instructions

(CAREL PJ MODELS)

Applicable models:

PESR47DC-UK
PESR47DC-UK Boots
LSFSR47DC-UK
LSFSR47DC-EU
LSFSF39DC-UK
LSFSF39DC-EU
NSF39DC-UK



Thank you for purchasing this LEC Medical product

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1 Safety Information



All installation work and adjustments to the unit, including the replacement of the supply cable, must be carried out by qualified personnel. Work performed by persons with insufficient technical knowledge may adversely affect the performance of the unit, cause damage to the equipment, or cause physical injury to the user.

Only a qualified engineer should remove any panels with the 'DANGER' label (above) attached, as there may be access to live electrical components. Only trained service technicians should remove these panels for service or repair purposes.

WARNING: Please make sure that the equipment is switched off from the mains supply before removing any protective panel.

Any operation on equipment under voltage must be carried out only by specialized personnel AND only if it is absolutely necessary. In this case always take precautionary measures and use control instruments equipped with insulated probes.

WARNING: This appliance contains flammable materials. Please refer to section 13 of this Manual for appliance end of life disposal.

A means for disconnection from the mains must be readily available either by having the plug accessible or by incorporating a switch in the fixed wiring in accordance with the wiring rules.



WARNING SIGN MEANING: Flammable gases can burn when they come into contact with oxygen or a source of heat. In some conditions they can even explode!

2 Before first use

Before you first use this refrigerator /freezer please carry out the following actions:

- Check that the appliance has not been damaged in any way during transportation.
- If any damage is found it must be reported to our customer services department immediately on 0344-815-3742
- Ensure all packaging has been removed, including cardboard, polystyrene and any tape used to hold shelves in place for transportation and disposed of safely and in line with your company policy.
- The appliance has been cleaned prior to dispatch; however, once unpacked, we advise that it should be cleaned using lukewarm water containing a mild detergent and a soft cloth before plugging in.

- We recommend that the appliance is **left in an upright position for a minimum of 24 hours** before plugging in and switching the appliance on. This will allow the refrigerant to settle after transportation. Then run the appliance whilst it is **empty for a minimum of 24 hours before filling** to ensure it is working correctly.
- This appliance is intended for professional use in applications such as pharmacies, laboratories, medical facilities etc.
- This appliance is not intended for use by persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they are supervised or have been given clear instruction concerning use of the appliance by a person responsible for their safety.
- We would highly recommend that children are unable to access or play with the appliance. If children are present they MUST be supervised at all times.

3 Positioning and safely using your LEC Medical appliance

- Make sure the appliance is placed in a dry, well ventilated site, away from heat sources.
- DO NOT place the appliance in a place of high humidity to avoid the accumulation of moisture as this may affect the performance and reliability of the appliance and invalidate your warranty.
- The appliance must be placed on a level surface. If necessary, adjust the feet on the product so the appliance remains level during operation.
- The appliance should have sufficient clearance around it to provide adequate ventilation – 10cm at each side, 7.5cm at the rear and 5cm at the top.
- DO NOT allow the supply cord to become trapped during the positioning of the appliance.
- Before ANY maintenance activity, pull the plug out of the socket by gripping the plug, DO NOT pull on the plug cord.
- DO NOT locate multiple portable socket-outlets or portable power supplies at rear of the appliance.
- DO NOT use double-wire extension cords. If an extension cord is necessary make sure it is a cord, which possess a protection safety certificate.
- If the mains power supply cord is damaged, to avoid any risks to safety, it must be replaced by a qualified service engineer or a suitably qualified person.
- DO NOT attempt any repairs to the appliance yourself (apart from those highlighted in the Maintenance and Service Section). Repairs carried out by someone without the relevant training are putting their personal safety at risk and will invalidate your warranty.
- DO NOT store explosive substances such as aerosol cans with a flammable propellant in this appliance.

- **WARNING:** This appliance is only to be operated by authorised personnel or personnel who have correct knowledge on how the appliance operates.

- **WARNING: This appliance MUST be earthed.**

4 Important Information

The appliance contains environment-friendly, non-ozone depleting refrigerant R600a.



As R600a is a flammable gas, it is important to avoid damage to the refrigeration circuit during transport and installation.
If the refrigeration circuit is damaged, avoid using a naked flame in the vicinity of the appliance and connecting power to the appliance.

Also make sure there is good ventilation in the room. If you are in doubt, please contact your supplier.

FOR SAFETY REASONS PLEASE ADHERE TO THE FOLLOWING:

- WARNING: Keep ventilation openings, in the appliance enclosure or in the built-in structure, clear of obstruction.
- WARNING: Do not use mechanical devices or other means to accelerate the defrosting process, other than those recommended by the manufacturer.
- WARNING: Do not damage the refrigeration circuit.
- WARNING: Do not use electrical appliances inside the food storage compartments of the appliance, unless they are of the type recommended by the manufacturer.

- WARNING: The refrigeration system is under high pressure. Do not tamper with it contact a qualified person before disposal.
- WARNING: To avoid a hazard due to instability of the appliance, it must be fixed in accordance with the instructions.

5 Transporting and moving your LEC Medical appliance

The appliance must always be moved in the vertical position. The appliance must not be tilted any more than 40°. In the event that the appliance is tilted more than 40°, the power supply must not be connected until the appliance has stood upright for at least 24 hours.

6 Loading

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

- The fridge is not overloaded.
- The contents are not packed too closely together.
- The contents do no touch the wall or the bottom of the fridge and are stored away from the fan.
- When loading new stock in to the fridge, ensure product with the earliest expiry date are at the front and used first.
- After restocking the fridge, check the temperature 10 minutes later to ensure that the fridge is cooling down, running satisfactorily and is not overstocked.

7 Min/Max Temperature Recording

After the appliance has been filled and is in use, follow the Medicine and Health Regulations Agency requirements for the recording of temperatures. Refer to Page 9 of this manual for setting temperatures.

8 Energy saving tips

This appliance is cooled by energy-efficient R600a refrigerant. To keep running costs as low as possible always:

- Position the appliance away from heat sources.
- Make sure the air can circulate freely around the appliance, don’t block ventilation grid.
- Ensure that products being stored in the appliance are below room temperature upon entry.
- Make sure the door is opened as little as possible whilst in use and closed as quickly as possible to prevent unnecessary temperature fluctuations.

9 Product specification

These appliances have been designed and built with the intention of the products being used within either a Pharmacy, Laboratory Neonatal unit or Ward and are designed to store contents between set limits:

	REFRIGERATORS	FREEZERS
Pharmacy -	+2°C to +8°C	N/A
Laboratory -	+2°C to +10°C	-18°C to -25°C
Neonatal -	N/A	-18°C to -25°C
Ward -	+1°C to +5°C	N/A

Please see below for specific product information:

Model	Height (mm)	Width (mm)	Depth (mm) Incl. handle	Weight (Kg)	Rated current Amps	Power Watts	Refrigerant type	Ambient/ Room working temp.	No. of shelves	Door Type
PESR47DC-UK	563	478	503 (WB)	18	0.7	114	R600a	+10°C To +32°C	1	Solid
PESR47DC-UK Boots	563	478	490	18	0.7	114			1	Solid
LSFSR47DC-UK	563	478	503 (WB)	18	0.7	114			1	Solid
LSFSR47DC-EU	563	478	503 (WB)	18	0.7	114			1	Solid
LSFSF39DC-UK	563	478	490	19	0.8	121			1	Solid
LSFSF39DC-EU	563	478	490	19	0.8	121			1	Solid
NSF39DC-UK	563	478	490	19	0.8	121			1	Solid

Note: (WB) Wall Bracket

10 Product Details



1. Lock
2. Digital Controller
3. Antimicrobial handle (supplied inside appliance with fixing screws) see instruction below.
4. Adjustable foot (2 at front of appliance).

The 2 roller castors at the rear of the under counter appliances ease product movement.

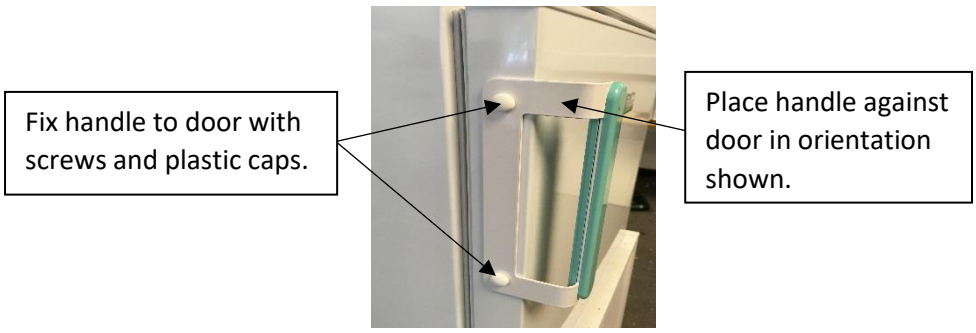
Additional or replacement parts are available from our spare parts department.

See back of booklet for contact details

Fitting the handle:

1. Take the handle, screws and plastic caps from inside the plastic bag inside the appliance.

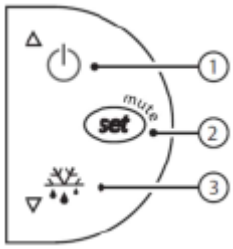
2. Place the handle against the door and fit screws as shown below.



11 Controller



11:1 Button Functions



- Button 1 = UP/ON-OFF
- Button 2 = SET/MUTE
- Button 3 = DOWN/DEFROST

12 How to Read and Reset the Min/Max Temperatures

12:2:1 To read MAXIMUM and MINIMUM recorded temperatures since last reset do the following.

1. Press BUTTONS 1 and 3 together to enter the Recorded Temperature Mode.
2. The controller display will flash 'HI' and 'Maximum Temperature' recorded since last reset.
3. Press BUTTON 3 to display the Minimum recorded temperature.
4. The controller display will flash 'Lo' and 'Minimum Temperature' recorded since last reset.
5. To display the MAXIMUM or MINIMUM temperatures alternatively press BUTTONS 1 or 3.
6. To return back to current temperature display mode press BUTTON 2.
7. Alternatively if no buttons are pressed for 1 minute the controller will return to the current temperature display mode.

12:2:2 To reset the MAXIMUM and MINIMUM recorded temperatures do the following.

1. To reset 'Maximum Temperature' enter the Recorded Temperature Mode.
2. With the 'HI' and 'Maximum Temperature' displayed press BUTTON 2 for 3 seconds.
3. The controller will display 'rES' for 1 second then returns to 'HI' and 'Maximum Temperature'.
4. To reset 'Minimum Temperature' press BUTTON 3.
5. With the 'Lo' and 'Minimum Temperature' displayed press BUTTON 2 for 3 seconds.
6. The controller will display 'rES' for 1 second then returns to 'Lo' and 'Minimum Temperature'.
7. To return back to current temperature display mode press BUTTON 2.
8. Alternatively if no buttons are pressed for 1 minute the controller will return to the current temperature display mode.

13 Alarm Conditions

The digital controller is programed to provide an audible and visual alarm in the event any of the following alarm conditions occur.

1. High temperature alarm – controller flashes 'HI' and 'Fridge/Freezer Temperature'
2. Low temperature alarm – controller flashes 'Lo' and 'Fridge/Freezer Temperature'
3. Door open alarm – if the door is open for more than 1 minute – controller flashes 'dor'
4. Temperature probe failure – controller displays 'E0'

The audible alarm can be muted by pressing BUTTON 2.

Note: First Connection to the mains

The controller will switch into the higher temperature alarm 'HI' until the preset temperature is achieved.
The alarm will be signaled by a intermitted beep and flashing 'HI' and 'Fridge/Freezer Temperature' on the display.
To mute the alarm, press BUTTON 2. 

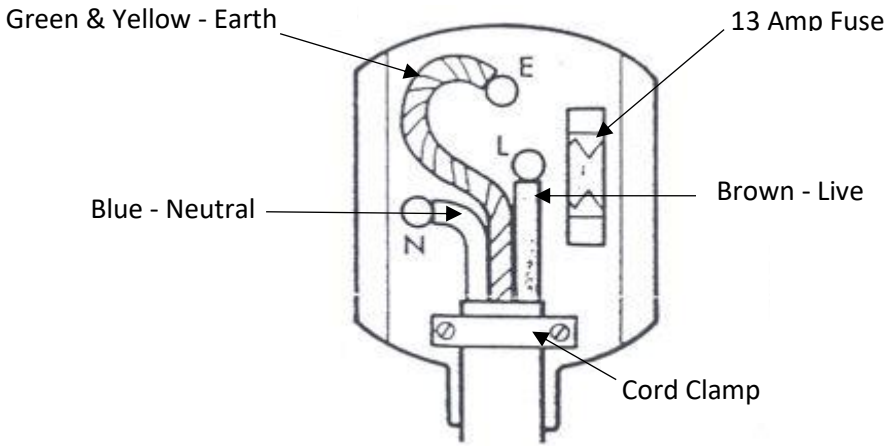
Until the preset temperature is achieved, the audible alarm will be repeated every 15 minutes.
Such an operating mode is normal until the required temperature settings are reached.

14 Electrical Connection

The appliance is intended for connection to alternating current. The connection values for voltage (V) and frequency (Hz) are declared on the name plate in the cabinet. Power must be connected via a wall socket with a switch. It is strongly recommended that the wall socket is easily accessible. All earthing requirements stipulated by the local electricity authority. The cabinet plug and wall socket should give correct earthing. If in doubt, contact your local supplier or an authorised electrician.
If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

WARNING: **THIS APPLIANCE MUST BE EARTHED**

The flexible cord (mains lead) fitted to this appliance has three cores for use with a 3-pin 13-amp plug. If a BS 1363 (13-amp) fused plug is used it should be fitted with a 13-amp fuse.
The cores in the mains lead are coloured in accordance with the following code:
GREEN AND YELLOW: EARTH
BLUE: NEUTRAL
BROWN: LIVE
These colours might not correspond with the colour markings identifying the terminals in your plug.



15 Disposal of your appliance

WEEE: Disposal at end of life.

WARNING: This appliance contains insulation, gases and refrigerant and must be disposed of in the appropriate manner. Please ensure the appliance is disconnected, emptied and clearly labelled by an authorized person.

When the appliance is being disposed of in an EU Member State, it is subject to the Waste Electrical and Electronic Equipment Regulations (WEEE). It 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.

As this item is designed for medical 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.

A relevant label has been placed on the appliances packaging (see below). The product has been manufactured of recyclable materials.



If in doubt with any of the above information, please contact the manufacturer or your local authority for advice on how best to dispose of this product.

16 Remote alarm contacts

Some LEC Medical appliances in this manual include remote alarm contacts and these terminal contacts enable the user to connect to a remote control station; these contacts can be found on the rear of the cabinet. (Fig 1)
WARNING: These contacts must only be accessed by a competent electrician.

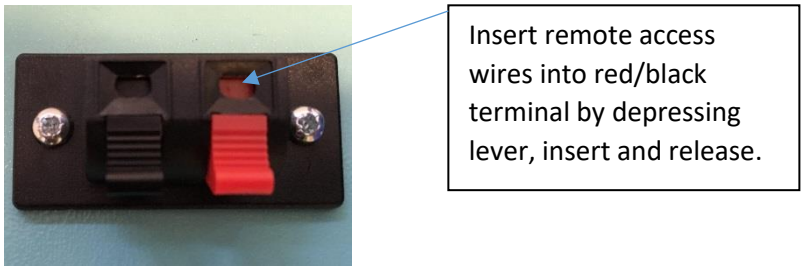


Figure 1

To attach a remote alarm, depress the red and black levers and insert a 0.75mm cable (stripped to 6mm) into each slot see fig 1.

In the event of a door open alarm, high or low temperature alarm or power failure a remote relay will switch within the controller to make an electrical circuit.

Please note that the contacts supplied are voltage free. A voltage of between 12V DC and 230V AC can be connected at the contacts. The maximum load must not exceed 2A. The minimum power rating is 500mA / 12V AC.

In a normal condition (i.e. no alarm) the relay OPENS the contact for the remote alarm facility.
In an alarm condition the relay CLOSES the contact for the remote alarm facility

17 Reversing the door

In order to reverse the door please follow the below instructions. This should be carried out by 2 people for safety purposes and the power should be turned off prior to starting.

1. Tilt the appliance backwards by 40° and lean on a vertical, hard surface such as a wall.
2. Remove the screws from the bottom hinge (fig 2), remove adjusting foot and remove hinge. Re-fit the adjusting foot after hinge removed.

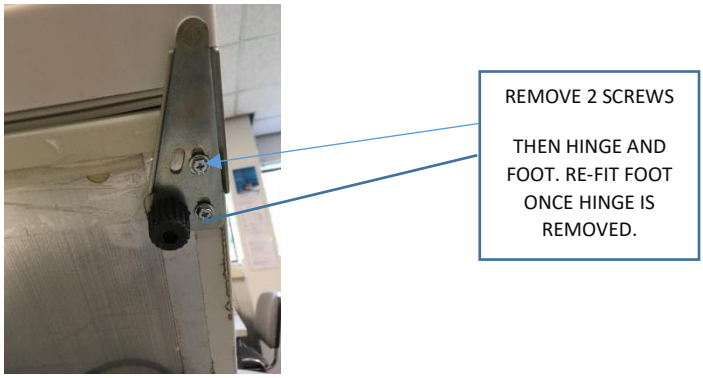


Fig 2

3. Pull the door from the bottom to remove from the appliance.
4. Remove the top cover by removing the 2 screws on the rear (fig 3) lifting the cover slightly then slide forward. One person should hold the worktop on the side of the unit (fig 4) while the other swaps over the top hinge.



Fig 3



Fig 4

5. Remove the top, right hand hinge (figure 5)

6. Install the hinge on the top, left hand side (figure 6).



Fig 5



Fig 6

7. Insert the door into the top, left hand hinge (figure 7).
8. Install the bottom, left hand hinge (figure 8) re-fit adjusting foot.



Fig 7



Fig 8

9. Remove the caps from the screws holding the handle in position.

10. Remove the handle screws.

11. Remove the caps on the opposite side of the door.

12. Screw the handle into position and add the caps to cover the screws.

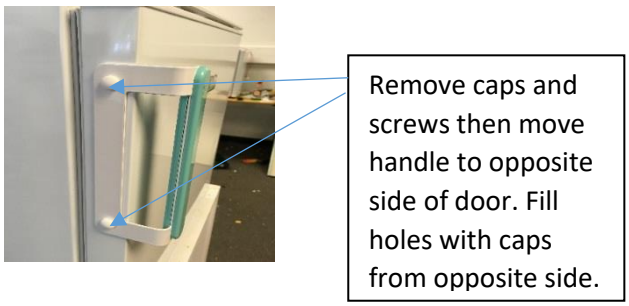


Fig 9

18 Troubleshooting

PROBLEM	REASON	SOLUTION
The appliance does not work.	A gap in the electric system circuit.	1. Make sure the plug is properly inserted into the socket. 2. Make sure the socket is not faulty. 3. Make sure the power supply cord is not damaged.
	The compressor hardly ever activates.	1. Check to see if the ambient temperature corresponds to that on the data plate.
The appliance is not meeting the correct temperature.	The door doesn't shut tight or is opened too often.	1. Rearrange the products so they don't hamper the door. 2. Shorten the time the door is open for.
	The ambient room temperature is either too high or too low.	1. Check to see if the ambient temperature corresponds to that on the data plate.
	Air circulation at the back of the appliance is hampered.	1. Move appliance further away from the wall.
	The appliance has been placed in an unsuitable location.	1. If the unit is subject to constant sunlight, or another heat source e.g. Radiator, it will need to be relocated away from heat sources or direct sunlight. 2. Check that the appliance has 50mm around the sides, 75mm at the rear and 25mm at the top. Again, if it doesn't, the appliance needs to be moved to a new location.
	The appliance is overloaded with products.	1. The appliance requires space between stored items in order for the air to circulate correctly.
	The internal fan may be faulty.	1. Check that the fan is working correctly. 2. If the fan is faulty or not operating correctly, please call a service engineer immediately.
The appliance is noisy.	The appliance is not level.	1. Move appliance to location with a level surface.
	Check that the appliance is not touching nearby items of furniture or other objects.	1. Follow the location guidelines set out in the instruction manual, where we recommend 50mm around the sides, 75mm at the rear and 25mm at the top.
	Note: 'Whooshing' and 'gurgling' noises caused by the refrigeration system are perfectly normal and cannot be avoided.	

Important: If the advice/suggestions provided above do not solve the problem, please do not hesitate to call our After Sales department on +44 (0)344 815 3742, especially if the enquiry involves electric components.

19 Frequently Asked Questions

19.1 Are there any restrictions as to where I can locate my LEC Medical appliance?

Yes, for optimum performance, it's important that you position your appliance on a hard flat surface in an area where the ambient temperature corresponds to that stated on the appliances' data plate. Ensure the appliance has sufficient clearance around it to provide adequate ventilation. We do not recommend positioning your appliance close to a heat source such as a radiator or in direct sunlight.

19.2 Can I plug my LEC Medical appliance in straight away after unpacking?

No, we recommend that you leave the appliance to stand for 24 hours before plugging in to allow the refrigerant to settle after transportation and delivery. You should then run the appliance whilst it's empty for 24 hours before filling to ensure it is working correctly. Also, remember to follow the cleaning instructions found in the instruction manual, as they outline important cleaning instructions prior to filling.

19.3 What should I do if my floor is uneven?

Your LEC Medical appliance will feature 2 front adjustable feet, so it is essential that these are adjusted by following the instructions found in the user manual supplied with the product.

19.4 How often should I clean my LEC Medical appliance and how?

You should regularly clean your appliance. We recommend that the appliance should be wiped with a soft cloth dampened with lukewarm water containing a mild detergent. Rinse with clean lukewarm water, and dry thoroughly. For full cleaning instructions, please refer to the instruction manual.

19.5 How often should I defrost my appliance?

Freezers rely on manual defrosting and should be done at least twice a year or when the frost build up is more than 5mm. **Do not use any metal instruments or external heat sources to speed up or assist this process as damage may result.**

19.6 What should I do if the lock or key is damaged?

Simply call our Spares department on 0344 815 3742 and we will arrange for a replacement lock to be fitted if the appliance is still within warranty. Additional keys can also be purchased from our Spares department.

19.7 Can I purchase replacement parts?

Yes, we have a number of replacement parts. To order, please call our Spares department on 0344 815 3742.

20 Contact Information

20.1 Sales Enquiries:

Email: sales@gdpa.co.uk
Tel: 0344 815 3742

20.2 Marketing Enquiries:

Email: marketing@gdpa.co.uk
Tel: 0344 815 3742

20.3 Spares and After Sales Service:

Email: info@gdha.com
Tel: 0344 815 3742

20.4 After Sales

Email: trade@gdha.com
Tel: 08344 0815 372

20.5 Address:

LEC Medical
Stoney Lane,
Prescot,
Merseyside,
L35 2XW.

20.6 For details on the warranty of this appliance or for any other information please visit: www.LEC-medical.co.uk