



**medical refrigeration**

## **User and maintenance Instruction manual**

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MED85F GD – Medical Freezer, (Glass Door)

MED85F GD – Medical Freezer, (Solid Door)

Make a record of the model number and serial number here:

**MODEL NUMBER:**

**SERIAL NUMBER:**

Find these on the label on the back of the freezer.

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## Safety Instructions

When using electrical appliances, basic safety precautions should be followed including the following:

<ul style="list-style-type: none"><li><input type="checkbox"/> This appliance must be properly installed and located in accordance with the installation instructions provided before it is switched on.</li></ul>	<ul style="list-style-type: none"><li><input type="checkbox"/> Keep fingers out of the 'pinch-point' areas: clearance between door and cabinet.</li></ul>
<ul style="list-style-type: none"><li><input type="checkbox"/> Do not climb, stand or hang on the shelves of the freezer.</li></ul>	<ul style="list-style-type: none"><li><input type="checkbox"/> Always turn off the appliance and isolate it (remove the plug) before moving it.</li></ul>
<ul style="list-style-type: none"><li><input type="checkbox"/> Do not store flammable vapours or liquid in the vicinity of this appliance.</li></ul>	<ul style="list-style-type: none"><li><input type="checkbox"/> <b>We strongly recommend that any servicing be performed by a qualified individual only.</b></li></ul>
<ul style="list-style-type: none"><li><input type="checkbox"/> <b>Danger! Risk of child entrapment – Remove the door before you dispose of your appliance.</b></li></ul>	<ul style="list-style-type: none"><li><input type="checkbox"/> This appliance contains refrigerant – this must be disposed of safely in accordance with the legislation in place at the time of disposal.</li></ul>
<ul style="list-style-type: none"><li><input type="checkbox"/> Do not remove the plug provided – Do not use an adapter plug or extension lead.</li></ul>	<ul style="list-style-type: none"><li><input type="checkbox"/> Never unplug the appliance whilst running – switch off the mains supply before removing the plug.</li></ul>

## **Installation instructions**

### **Handling**

- Units are supplied to enable handling most easily by forklift truck or pallet truck. Limit the lift by one individual to 25kg or less.
- Keep the unit vertical.
- Do not tip the unit further than 30 degrees.
- Keep the door closed when moving the freezer.
- Allow 24 hours after transportation before starting the compressor.

### **Positioning and cleaning**

- Position the unit with free air all around – keep all faces at least 100mm (4”) away from walls.
- Position the unit in the shade and ensure it is NEVER in direct sunlight.
- Clearance of at least 300mm from the top of the unit. Ideally there should be 600mm+ clearance above the top of the unit.

### **Leveling**

Ensure the unit is level when in position and before starting the unit.

### **Connection and turning**

- Allow 24 hours after transportation before starting the compressor.
- Plug in the unit and switch on – There are no user adjustable parameters on this unit.
- Allow 24 hours for the fridge to stabilize before loading product. Maximum hold over potential will now be reached.

## **Operating instructions**

### **Care and cleaning**

- Wipe the internal surfaces of the freezer with a clean, dry cloth.
- Never use abrasive or scouring materials to clean the freezer.
- Ensure the door seals are clean and free from obstruction at all times.

### **Shelves**

- Shelves have been provided to enable separation and storage of vaccines and easy rotation of vaccines. Do not store vaccines against the side walls as it generates moisture. Leave a 10mm gap between the vaccines and side walls. Do not store vaccines against the back wall as it generates moisture. Leave a 30mm gap between the vaccines and back wall.
- Keep the shelves clean.

### **Light**

The internal compartment can manually be switched on and off by pressing the light button on the temperature controller.



← Light button

### **Temperature control**

- Due to the unique way that this unit operates there is no need for any user control.
- The unit is designed to -18 degrees centigrade within the storage compartment. If the Temperature controllers indicates any other temperatures then refer to the troubleshooting section of this manual.
  - This unit is fitted with a high/Low sensor. After first power on the unit will wait 24 hours before activating the high/low sensor. This will allow the unit to get to operating temperature. After the initial 24 hours after first power on the buzzer is active and will sound if the unit temperature moves outside the safe temperature zone.

### **Humidity**

- All internal surfaces of the compartment are utilised as cooling elements – this means that heat can move more quickly from the compartment and that temperatures can be stabilised more easily within the freezer.
- During any door opening in humid conditions it is natural for condensation to form on the internal surfaces of the freezer.

### **Normal operation**

- The unit operates at a single set temperature which will appear on the temperature controller.
- This unit is fitted with a door opening sensor. The buzzer will sound if the door is left open for longer than 10 seconds. Please make sure that the door is latched when closed.

## **Maintenance tasks**

### **Daily**

- Check compartment temperature is within acceptable range (-15°C – 20°). Ambient dependent.

### **Weekly**

- Wipe clean the inside of the freezer.
- Wipe clean the door seals.

### **Monthly**

- Check that the condenser is clean and air is free to move over condenser/compressor assembly.
- Check that the electrical cable is in good condition and free from damage.
- Check that the wall socket is in good condition (where the freezer is plugged into the mains power).

## **Defrosting**

A manual defrosting procedure should be performed periodically on the fridge compartment of the appliance to maintain its operating efficiency. Over time, as the door is opened and closed, letting in new air, water vapor from the air condenses on the cooling elements within the cabinet.

## **Transportation / Transport**

The unit can be transported and stored (when the product is inactivated) in ambient temperatures ranging from -30°C to +55°C and can be transported, stored and used (activated) in relative humidity from 5% to 95%.

## **Diagnosing a problem**

1. If the temperature indication on the freezer compartment goes below -20°C then call a maintenance engineer to look at the thermostat control.  
If the temperature is above -10°C then:
2. Check the door is closed and sealing properly – If seals are damaged then report this and get the seals changed.
3. Use something of known temperature to assess the calibration of the thermometer. Also check the compartment temperature with a portable thermometer e.g. glass/alcohol type.
4. Check the mains supply.
5. Check if the unit has been receiving electricity within the allowed tolerance of voltage output supply in your country.
6. Check connection to the mains.

If 3,4,5 & 6 all appear to be in order then remove the vaccines to a safe location and, ensuring constant supply of electricity, monitor the freezer's progress over a 1 week period.

## **Technical Specifications**

<b>Model</b>	<b>MED85R GD</b>	<b>MED85R SD</b>
Product measure (mm) (H x W x D)	970 x 619 x 563	970 x 619 x 563
Gross volume (L)	93	93
Weight (Kg's) – Packaged	65	60
Voltage (V)	230	230
Power consumption (kWh)	0.15	0.15
Frequency	50Hz	50Hz
Refrigerant	Obtain from supplier	Obtain from supplier

## **Refrigeration Circuit Product Disposal WEEE Regulations**



- This symbol means that the product is classed as Electrical or Electronic Equipment and is covered by the European Union WEEE Regulations.
  
- You should take great care in disposing of any such products and MUST NOT under any circumstances dispose of it with your normal waste as they pose a great risk to your community if they are accidentally sent for disposal with landfill.

## **Recycling Information**

Refrigerant: R134a – Must be recovered and re-used.  
Outer casing: Chromadek.  
Foam: Polyurethane Foam  
Plastic: Various – Contact manufacturer for advice.

## **Customer support**

Contact manufacturer:  
Zero Appliances  
Mission Terrace,  
Chlookop Ext. 44,  
Kempton Park  
Johannesburg  
South Africa  
Tel: +27 10 207 1600  
Fax: +27 10 207 1675  
Website: [www.zeroappliances.co.za](http://www.zeroappliances.co.za)