

User and maintenance
Instruction manual

ECF 530 – Medical Freezer (-20°C freezer)

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 refrigerators.



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

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 horizontal.
- Do not tilt the unit more than 30 degrees in any direction.
- Keep the lid and latches closed when moving the freezer.
- Allow 24 hours after transportation before starting the compressor.

Positioning and cleaning

- Position the unit with free air flow 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.

Levelling

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
- Allow freezer to run for 24 hours before loading it.

Operating instructions

Care and cleaning

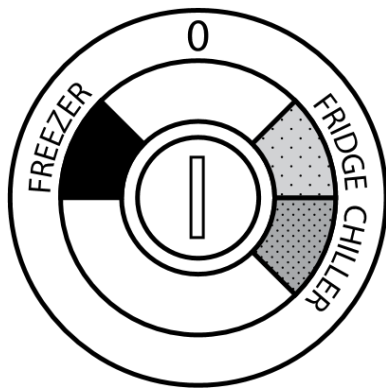
- Wipe the internal surfaces of the freezer with a clean, dry cloth after defrosting.
- Never use abrasive or scouring materials to clean the freezer.
- Ensure the lid seals are clean and free from obstruction at all times.

Baskets

- Baskets have been provided to enable separation and storage of medical items and easy rotation thereof.
- Keep the baskets clean.

Temperature control

- Freezer setting
 - -20 °C to -23 °C when loaded (ambient depended).
 - -18 °C to -20 °C when empty (ambient depended).
- Chiller setting
 - -8 °C to -12 °C when loaded (ambient depended).
 - -4 °C to -20°C when empty (ambient depended)
- Fridge setting
 - -2°C to 2.5°C when loaded (ambient depended)
 - 0°C to 4.5°C when empty (ambient depended)
 - The thermostat can be changed to meet desired temperature ranges. Please note that this freezer is fitted with a mechanical thermostat so temperature deviation of up to 6°C is considered normal.



Turn clockwise to get lower compartment temperatures.

Humidity

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

Maintenance tasks

Daily

- Check and ensure compartment temperature is within acceptable range (refer temperature control section).

Weekly

- Wipe clean freezer door seals and lid.

Monthly

- Check that the condenser is clean
- Check that the electrical cable and plug is in good condition and free from damage.
- Check that the wall socket is in good condition (where the freezer is plugged into the main power socket).

Defrosting

A manual defrosting procedure should be performed at least three times a year on the freezer compartment of the appliance to maintain its operating efficiency. Over time, as the lid is opened and closed, allowing in fresh air, water vapor from the air condenses on the cooling elements within the cabinet. When defrosting is required switch off the freezer and unplug it from the wall socket. Defrosting can now be done.

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 -30°C call a maintenance engineer to look at the thermostat control. If the temperature rises above -10°C then:
2. Check the lid is closed and sealing properly – If seals are damaged report this and get the seals changed.
3. Check the mains supply.
4. Check if the freezer has been receiving electricity within the allowed tolerance of voltage output supply in your country.
5. Check connection to the mains.

If 2,3,4 & 5 all appear to be in order then move items from the freezer to a safe location and, report the problem.

Technical Specifications

Model	ECF530
Product measure (mm) (H x W x D)	874 x 1751 x 680
Gross volume (L) Freezer	542
Weight (Kg's) – Packaged	79
Voltage (V)	230
Power consumption (kWh)	1.736
Frequency	50Hz
Refrigerant	R600a
Refrigerant charge (Grams)	79g

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: 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,
Chloorkop Ext. 44,
Kempton Park
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