



Stainless Steel Counter Refrigerators/Freezers



Models:

G596/G597/G598/G599/G600/G601/G621/G622/U636/U637/U638

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Safety Tips

- Position on a flat, stable surface.
- A service agent/qualified technician should carry out installation and any repairs if required. Do not remove any components or service panels on this product.
- Consult Local and National Standards to comply with the following:
 - Health and Safety at Work Legislation
 - BS EN Codes of Practice
 - Fire Precautions
 - IEE Wiring Regulations
 - Building Regulations
- DO NOT use jet/pressure washers to clean the appliance.
- DO NOT use the appliance outside.
- DO NOT use this appliance to store medical supplies.
- DO NOT use electrical appliances inside the appliance (e.g. heaters, ice-cream makers etc.)
- DO NOT stand or support yourself on the base, drawers or doors.
- DO NOT allow oil or fat to come into contact with the plastic components or door seal. Clean immediately if contact occurs.
- Bottles that contain a high percentage of alcohol must be sealed and placed vertically in the refrigerator.
- Always carry, store and handle the appliance in a vertical position and move by holding the base of the appliance.
- Always switch off and disconnect the power supply to the unit before cleaning.
- Keep all packaging away from children. Dispose of the packaging in accordance with the regulations of local authorities.
- If the power cord is damaged, it must be replaced by a POLAR agent or a recommended qualified technician in order to avoid a hazard.

Product Description

G596 - POLAR 282 litre 2 Door Counter Refrigerator

G597 - POLAR 417 litre 3 Door Counter Refrigerator

G598 - POLAR 563 litre 4 Door Counter Refrigerator

G599 - POLAR 282 litre 2 Door Counter Freezer

G600 - POLAR 417 litre 3 Door Counter Freezer

G601 - POLAR 563 litre 4 Door Counter Freezer

G621 - POLAR 417 litre 3 Glass Door Counter Refrigerator

G622 - POLAR 368 litre 3 Door Counter Refrigerator

U636 - POLAR 240 litre 2 Door Counter Refrigerator

U637 - POLAR 240 litre 1 Door 2 Drawer Counter Refrigerator

U638 - POLAR 240 litre 4 Drawer Counter Refrigerator

Introduction

Please take a few moments to carefully read through this manual. Correct maintenance and operation of this machine will provide the best possible performance from your POLAR product.

Pack Contents

The following is included:

- POLAR Refrigerator or Freezer
- Instruction manual
- Shelf guides (2 per door)
- Floor guards (1 per door)
- Shelves (1 per door)

POLAR prides itself on quality and service, ensuring that at the time of packaging the contents are supplied fully functional and free of damage.

Should you find any damage as a result of transit, please contact your POLAR dealer immediately.

Installation

Note: If the unit has not been stored in an upright position, let it stand upright for approximately 12 hours before operation. If in doubt allow to stand.

1. Remove the appliance from the packaging. Make sure that all protective plastic film and coatings are thoroughly removed from all surfaces.
2. Maintain a distance of 20cm (7 inches) between the unit and walls or other objects for ventilation. Increase this distance if the obstacle is a heat source.

Note: Before using the appliance for the first time, clean the shelves and interior with soapy water.

3. Set the brakes on the castors to keep the appliance in position OR Level the appliance by adjusting the screw feet.

Fitting the Shelves & Floor Guards

1. Place one set of shelf guides on either side of the cabinet at the desired height.
2. Slide the shelf into place.
3. Repeat for the remaining shelves.
4. Place the floor guards on the floor of the cabinet, ensuring the flat side is clear of the floor.

Note: This is vital for ensuring correct drainage of condensation.

Operation

Storing Food

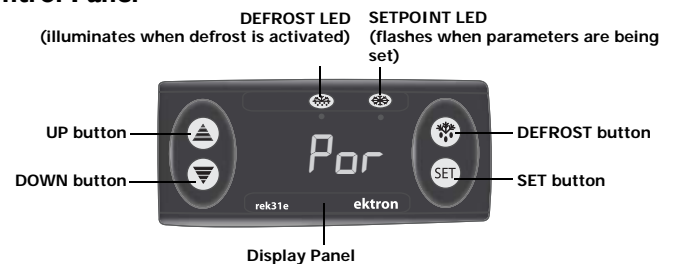
To get the best results from your POLAR appliance, follow these instructions:

- Only store foodstuffs in the appliance when it has reached the correct operating temperature.
- Do not place uncovered hot food or liquid inside the appliance.
- Wrap or cover food where possible.
- Do not obstruct the fans inside the appliance.
- Avoid opening the doors for prolonged periods of time.

Turn On

1. Close the doors/drawers of the appliance.
2. Ensure the power switch is set to [O] and turn on at the socket.
3. Switch on the Power [I]. The current temperature within the appliance is displayed.

Control Panel





Lock/Unlock the Control Panel

To lock the control panel:



1. Press and hold the UP (▲) and DOWN (▼) buttons simultaneously for 10 seconds.
2. **POF** flashes on the display and the keyboard is locked.





To unlock the control panel:

1. Press and hold the UP  and DOWN  buttons simultaneously for 10 seconds.
2. **POn** flashes on the display and the keyboard is unlocked.

Note:
If a button is not pressed for 10 seconds while using the control panel it times out and reverts to standby mode.
When parameters are being set the Setpoint LED will flash on the display.

Enter the Parameter Menu

1. Unlock the control panel, if locked.
2. Press and hold the SET  button until 'd 1' flashes on the display.
3. Press the SET  button repeatedly to scroll to the desired parameter (see below).

| Parameter | Name | Description | Range |
|-----------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| d 1 | Operating temperature | Set the operating temperature of the appliance | -2°C to 10°C |
| d 2 | Temperature Differential | The Temperature Differential is the allowed temperature difference above and below the operating temperature before the compressor starts/cuts off | 0 to 20°C |
| d 3 | Temperature Range | Set the minimum (d3) and maximum (d4) temperatures that the appliance can fluctuate between | -40°C |
| d 4 | | | 95°C |
| d 5 | Compressor Activation Time Intervals | Enter the minimum time interval between the compressor turning off after turning on. | 0-999 seconds |
| d 6 | Maximum Temperature Differential Alarm | Set an alarm to sound if the temperature inside the appliance exceeds the set operating temperature by a specified amount | 0°C-50°C |
| d 7 | Temperature Differential Alarm Delay | Set a delay before the temperature differential alarm is triggered | 0-99 minutes |
| d 8 | Defrost Cycle Time Intervals | Set the time between each defrost cycle | 1-999 hours |
| d 9 | Maximum Defrost Duration | Set the maximum length of the defrost cycle Note: The defrost duration can be overridden by parameter d10 (below), if the cut-off temperature is reached before the end of the defrost duration | 0-999 minutes |
| d 10 | Defrost Cut-off Temperature | Set the defrost cut-off temperature | -45°C to 50°C |
| d 11 | Additional Cut-off Defrost Period | Set an additional amount of defrost time after the defrost cut-off point has been reached (if required) | 0-99 minutes |
| d 12 | Delayed Actual Temperature Display | Set the length of time the inner temperature of the appliance (before defrost started) is displayed for after a defrost cycle has finished | 0-99 minutes |
| d 13 | Compressor On/Off During Defrost | Turn the Compressor On or Off during the defrost cycle | On () or Off () |
| d 14 | Evaporator Drying Time | Set the amount of time the compressor remains turned Off after a defrost cycle, reducing the amount of frost build up | 0-99 minutes |
| = 19 | Temperature Offset | Should there be any variance between measured and actual temperature, the measured temperature can be offset to compensate | -20°C to 20°C |
| = 22 | Unit of Measurement | Set whether the temperature is displayed in Centigrade or Fahrenheit | Centigrade () or Fahrenheit () |
| = 23 | Compressor Operation During Probe Failure | Set whether the compressor runs or remains Off during a temperature probe failure | Compressor runs () Remains Off until fault fixed () Runs intermittently with parameters = 24 and = 25 () |
| = 24 | Compressor 'On' Duration | Set the length of time the compressor runs during a temperature probe failure | 1-99 minutes |
| = 25 | Compressor 'Off' Duration | Set the length of time the compressor remains Off during a temperature probe failure | 1-99 minutes |
| = 34 | Initial Defrost After Startup | Set whether the appliance starts a defrost cycle 10 minutes after startup or after the time programmed in parameter d 8 (Defrost Cycle Time Intervals) | Begins 10 minutes after startup () or when programmed () |
| = 38 | Minimum Temperature Alarm | Set the display to flash should the inner temperature of the appliance drop beyond a specified point from the programmed operating temperature | 1°C to 50°C |

Manual Defrost

The appliance will automatically run a defrost cycle every six hours.

Note: The cycle starts from the time the appliance is initially powered up.

To manually defrost the appliance:

1. Press and hold the DEFROST  button for 5 seconds.

2. The defrost cycle will start immediately and the Defrost LED illuminates. The defrost will last a maximum of 30 minutes.

Note: Starting a manual defrost also resets the automatic defrost timer.

3. The next automatic defrost will start six hours after the manual defrost has finished.

Cleaning, Care & Maintenance

- Switch off and disconnect from the power supply before cleaning.
- Clean the interior of the appliance as often as possible.
- Do not use abrasive cleaning agents. These can leave harmful residues.
- Clean the door seal with water only.
- Always wipe dry after cleaning.
- Do not allow water used in cleaning to run through the drain hole into the evaporation pan.
- Take care when cleaning the rear of the appliance. Sharp edges can cut.
- A POLAR agent or qualified technician must carry out repairs if required.

Cleaning the Condenser

Periodically cleaning the condenser can extend the life of the appliance.

POLAR recommend that a POLAR agent or qualified technician clean the condenser.

Disposal

EU regulations require refrigeration product to be disposed of by specialist companies who remove or recycle all gasses, metal and plastic components.

Consult your local waste collection authority regarding disposal of your appliance. Local authorities are not obliged to dispose of commercial refrigeration equipment but may be able to offer advice on how to dispose of the equipment locally.

Alternatively call the POLAR helpline for details of national disposal companies within the EU.

Troubleshooting

If your POLAR appliance develops a fault, please check the following table before making a call to the Helpline or your POLAR retailer.

| Fault | Probable Cause | Action |
|-------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| The appliance is not working | The unit is not switched on | Check the unit is plugged in correctly and switched on |
| | Plug and lead are damaged | Call POLAR agent or qualified Technician |
| | Fuse in the plug has blown | Replace the fuse |
| | Power supply | Check power supply |
| | Internal wiring fault | Call POLAR agent or qualified Technician |
| The appliance turns on, but the temperature is too high/low | Too much ice on the condenser | Defrost the appliance |
| | Condenser blocked with dust | Call POLAR agent or qualified Technician |
| | Doors are not shut properly | Check doors are shut and seals are not damaged |
| | Appliance is located near a heat source or air flow to the condenser is being interrupted | Move the refrigerator to a more suitable location |
| | Ambient temperature is too high | Increase ventilation or move appliance to a cooler position |
| | Unsuitable foodstuffs are being stored in the appliance | Remove any excessive hot foodstuffs or blockages to the fan |
| | Appliance is overloaded | Reduce the amount of food stored in the appliance |
| The appliance is leaking water | The appliance is not properly levelled | Adjust the screw feet to level the appliance (if applicable) |
| | The discharge outlet is blocked | Clear the discharge outlet |
| | Movement of water to the drain is obstructed | Clear the floor of the appliance (if applicable) |
| | The water container is damaged | Call POLAR agent or qualified Technician |
| | The drip tray is full | Empty the drip tray (if applicable) |
| The appliance is unusually loud | Loose nut/screw | Check and tighten all nuts and screws |
| | The appliance has not been installed in a level or stable position | Check installation position and change if necessary |

Error Messages

The following table details the cause and subsequent response of the appliance to errors.

| Error Message (flashing) | Cause | Appliance Response | Action |
|--------------------------|------------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| <i>H_{EA}</i> | The inner temperature exceeds the set maximum temperature | Display flashes Alternating error message and current temperature | Check Troubleshooting Guide If problem persists call POLAR agent or qualified Technician |
| <i>L_{EA}</i> | The inner temperature exceeds the set minimum temperature | Display flashes Alternating error message and current temperature | Check Troubleshooting Guide If problem persists call POLAR agent or qualified Technician |
| <i>PF 1</i> | Short circuit or interruption of the thermostat probe input line | Display flashes | Compressor operates as specified by parameter '=23' |
| <i>PF2</i> | Short circuit or interruption of the evaporator probe input line | Display flashes | Defrost as specified by parameters <i>dB</i> and <i>d9</i> |
| <i>H_{LA}</i> | Inner temperature greater than 90°C | Display flashes Alternating error message and current temperature | Call POLAR agent or qualified Technician |
| <i>L_{LA}</i> | Inner temperature lower than -45°C | Display flashes Alternating error message and current temperature | Call POLAR agent or qualified Technician |

The alarm message will end when the alarm trigger is no longer present, except PF1 and PF2 that require the appliance to be turned Off, then On again.

Technical Specifications

| Model | Voltage | Power | Current | Temperature Range | Capacity (litres) | Refrigerant | Dimensions H x W x D (mm) | Weight (Kg) |
|-------------|-----------|-------|---------|-------------------|-------------------|-------------|---------------------------|-------------|
| G596 | 230V 50Hz | 340W | 1.5A | -2°C to 10°C | 282 | R134a 240g | 850 x 1360 x 700 | 98 |
| G597 | 230V 50Hz | 340W | 1.5A | -2°C to 10°C | 417 | R134a 240g | 850 x 1795 x 700 | 134 |
| G598 | 230V 50Hz | 450W | 2A | -2°C to 10°C | 563 | R134a 250g | 850 x 2230 x 700 | 153 |
| G599 | 230V 50Hz | 1000W | 4.35A | -10°C to -20°C | 282 | R404 300g | 850 x 1360 x 700 | 103 |
| G600 | 230V 50Hz | 1000W | 4.35A | -10°C to -20°C | 417 | R404 260g | 850 x 1795 x 700 | 136 |
| G601 | 230V 50Hz | 1000W | 4.35A | -10°C to -20°C | 563 | R404 320g | 850 x 2230 x 700 | 155 |
| G621 | 230V 50Hz | 340W | 1.5A | -2°C to 10°C | 417 | R134a 240g | 900 x 900 x 700 | 140 |
| G622 | 230V 50Hz | 340W | 1.5A | -2°C to 10°C | 368 | R134a 250g | 850 x 1365 x 700 | 107 |
| U636 | 230V 50Hz | 250W | 1A | -2°C to 10°C | 240 | R134a 165g | 850 x 900 x 700 | 70 |
| U637 | 230V 50Hz | 250W | 1A | -2°C to 10°C | 240 | R134a 165g | 850 x 900 x 700 | 71 |
| U638 | 230V 50Hz | 250W | 1A | -2°C to 10°C | 240 | R134a 165g | 850 x 900 x 700 | 72 |

Electrical Wiring

POLAR appliances are supplied with a 3 pin, moulded, BS1363 plug and lead, with a 13 amp fuse as standard.

The plug is to be connected to a suitable mains socket.

POLAR appliances are wired as follows:

- Live wire (coloured brown) to terminal marked L
- Neutral wire (coloured blue) to terminal marked N
- Earth wire (coloured green/yellow) to terminal marked E

All POLAR appliances must be earthed, using a dedicated earthing circuit.

If in doubt consult a qualified electrician.

Electrical isolation points must be kept clear of any obstructions. In the event of any emergency disconnection being required they must be readily accessible.

Compliance

POLAR parts have undergone strict product testing in order to comply with regulatory standards and specifications set by international, independent, and federal authorities.

POLAR products have been approved to carry the following symbol:



Notes



POLAR Telephone Helpline: (+44) 0845 146 2887

POLAR, Fourth Way, Avonmouth, United Kingdom, BS11 8TB

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