



**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

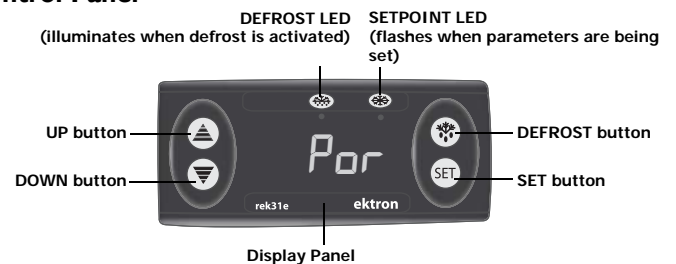
To get the best results from your POLAR appliance, follow these instructions:

- 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 <b>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</b>	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>HLEA</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>LEA</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>PF1</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>HLA</i>	Inner temperature greater than 90°C	Display flashes Alternating error message and current temperature	Call POLAR agent or qualified Technician
<i>LLA</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)
<b>G596</b>	230V 50Hz	340W	1.5A	-2°C to 10°C	282	R134a 240g	850 x 1360 x 700	98
<b>G597</b>	230V 50Hz	340W	1.5A	-2°C to 10°C	417	R134a 240g	850 x 1795 x 700	134
<b>G598</b>	230V 50Hz	450W	2A	-2°C to 10°C	563	R134a 250g	850 x 2230 x 700	153
<b>G599</b>	230V 50Hz	1000W	4.35A	-10°C to -20°C	282	R404 300g	850 x 1360 x 700	103
<b>G600</b>	230V 50Hz	1000W	4.35A	-10°C to -20°C	417	R404 260g	850 x 1795 x 700	136
<b>G601</b>	230V 50Hz	1000W	4.35A	-10°C to -20°C	563	R404 320g	850 x 2230 x 700	155
<b>G621</b>	230V 50Hz	340W	1.5A	-2°C to 10°C	417	R134a 240g	900 x 900 x 700	140
<b>G622</b>	230V 50Hz	340W	1.5A	-2°C to 10°C	368	R134a 250g	850 x 1365 x 700	107
<b>U636</b>	230V 50Hz	250W	1A	-2°C to 10°C	240	R134a 165g	850 x 900 x 700	70
<b>U637</b>	230V 50Hz	250W	1A	-2°C to 10°C	240	R134a 165g	850 x 900 x 700	71
<b>U638</b>	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**