GRAM

KF 130-11

Fresh line

M56 Series Manual

CONGRATULATIONS ON YOUR NEW GRAM *Fresh line* FRIDGE/FREEZER.

Congratulations on your new fridge/freezer. The fridge/freezer was developed taking the different storage requirements of food items into consideration. Some must be stored cold - others require a little higher temperature. A few must be stored separately so as not to impart flavour and odour to other items of food. Most items of food require high air humidity in order to stay fresh.
To ensure that you get as much joy out of your new fridge/freezer as possible, it is important that you become familiar with the appliances functions and know how to use the accessories. Please read this manual carefully before setting up and using your fridge/freezer.
As these instructions apply to several fridge/freezer models, the equipment may vary from model to model.

Before using the fridge/freezer

On receipt, check to ensure that the fridge/freezer has not become damaged during transportation. Transport damage should be reported to the local supplier before the fridge/freezer is put to use.
It is also highly recommended that your fridge/freezer is left in it's final position in the kitchen for a minimum of 2 hours prior to turning on. This allows the oil to settle in the compressor, which is caused by movement during transportation.
Before filling the refrigerator with items of food, the fridge/freezer's interior should be cleaned with lukewarm water containing a mild detergent. Use a soft cloth. If the fridge/freezer has been stored in cold surroundings (colder than +5°C), it must be allowed to stabilise for at least 2 hours before being switched on.

Read more about setting up and installation on pages 7 through to 12.

CONTENTS

IMPORTANT INFORMATION

The fridge/freezer contains the 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 naked flame in the vicinity of the fridge/freezer and connecting power to the fridge/freezer. Also make sure that there is good ventilation in the room. If you are in doubt, please contact your supplier.

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the appliance.

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 refrigerant circuit.
WARNING: Do not use electrical appliances inside the food storage compartments of the appliance, unless they are recommended by the manufacturer.

Transporting and moving the fridge/freezer

The fridge/freezer must always be moved in the vertical position. The cabinet must not be tilted more than approx 40º. If the fridge/freezer has been tilted more than 40º, the power supply must not be connected until the appliance has stood upright for at least 2 hours.

If the fridge/freezer is not to be used for some time

Turn off the fridge/freezer by turning the dial on the thermostat module to "0" then disconnect the power supply to the fridge/ freezer and if possible, pull the plug out of the wall socket.
Empty, defrost and clean the fridge/freezer. Leave the fridge/ freezer door slightly ajar. This will prevent bad smells in the fridge/ freezer.

Warning

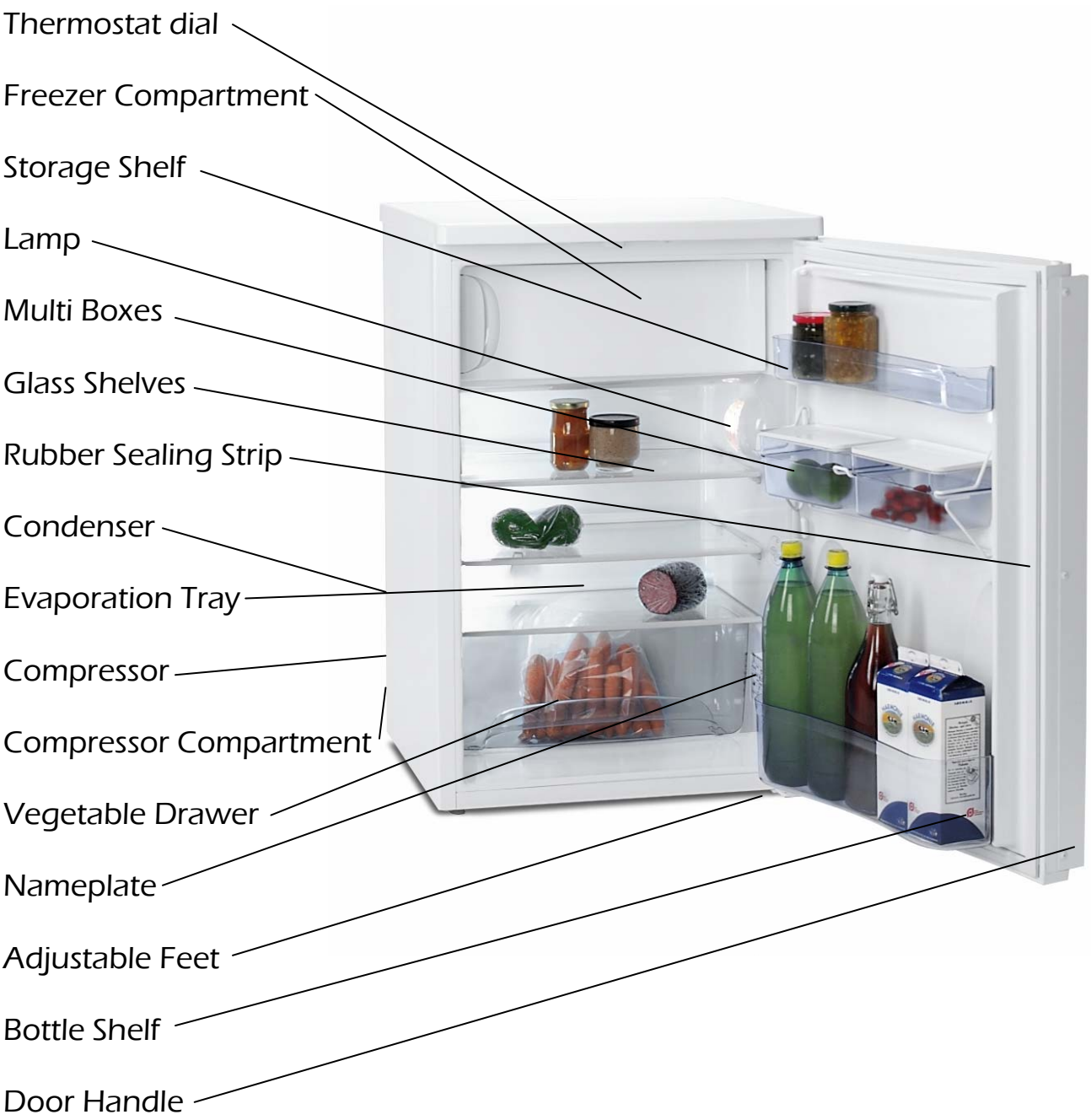
Old refrigerators and freezers are often fitted with complicated latches that can only be opened from the outside. If you have an old unit like this stored away somewhere, or if you scrap it, remember to destroy the latch to prevent children from being exposed to danger by getting locked inside the unit.
Note! Please also observe the environmental rules on disposal.

Disposal

If a fridge/freezer is to be disposed of, this must be done in an environmentally correct way, in accordance with current rules of disposal.
Please observe the environmental rules on disposal. There might be special requirements/conditions to be observed. Information on disposal can be obtained from:
- Gram A/S
- Your white-goods supplier
- Authorities (your local council, Ministry of the Environment, etc.)

PRODUCT DESCRIPTION

The fridge/freezer is intended for use in a normal household. It is designed for temperature class SN-T in accordance with European standard EN 153. This means that the fridge/freezer will run best at a room temperature of +10ºC to +43ºC.



SETTING UP AND INSTALLATION

Where to place the fridge/freezer

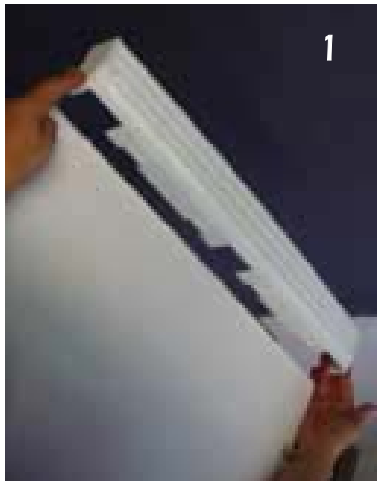
For safety reasons the fridge/freezer must not be installed outdoors; it must be placed in a dry room. Never place the appliance close to sources of heat such as cookers or radiators, and avoid placing it in direct sunlight. The surface on which the appliance is placed must be level and sturdy. The small wheels mounted at the rear of the fridge/freezer make it easy to place it in the required position.

Important Note: The use of other gas appliances inside the building, such as cook tops, ovens and heaters may create extra moisture in the air, along with places that experience general high humidity. This may cause the refrigerator/freezer to build up an excess of ice on the evaporator plate causing the drip tray at the back to overflow with water during the defrost process. To help eliminate excess moisture, a dehumidifier or ventilation unit is recommended.

The fridge/freezer can be set up free-standing against a wall or built into a kitchen cabinet.

It is important that the appliance stands completely level and that there is good air circulation over, under and around it. The fridge/freezer can be adjusted by turning the two adjusting screws on the plinth. After adjustment, the feet and the two rear wheels must be in contact with the surface on which the appliance stands. It is extremely important that the fridge/freezer's adjustable feet are set correctly to avoid movement or future distortion of the cabinet.

It is also advantageous, but not necessary, that the fridge/freezer is tilted slightly towards the rear to allow the door to close on it's own.



Models with table top (KS150/FS120/KF130) are suitable for building in under a worktop or in a continuation of a worktop if the kitchen elements have a standard height of 850mm. Before fitting, attach the ventilation grill supplied, to the top of the fridge/freezer. (1)

If the refrigerator is placed beside another refrigerator or freezer, there must be at least 20mm clearance between them.

If the appliance is not built in but positioned with it's door hinge side against a wall, there should be at least 50mm between the appliance and the wall in order to allow the door to open easily.

The fridge/freezer must not be placed against the back wall where the condenser plate can touch it. Allow a minimum of 20mm between the condenser and the back wall. Use the grey rubber spacers provided in the parts kit to ensure there is a sufficient gap.

The illustrations on the following pages (9 & 10), show how to create sufficient air circulation around the cabinet. The dimensions give the actual size of openings. The circulation area must be at least 200 cm^2.

Building into a kitchen cabinet

Building into a kitchen cabinet with sufficient ventilation around the fridge/freezer to dissipate heat from the compressor. The appliance can stand direct on the floor or on its plinth. (2)

2

Building into a refrigerator cabinet

Building into a refrigerator cabinet follows the same principal as shown in illustration 2. (3)

3

Installation And Ventilation Diagrams

The measurements below is a guideline only. The degree of the door opening shows the minimum requirement to easily access the storage bins. (4 & 5)

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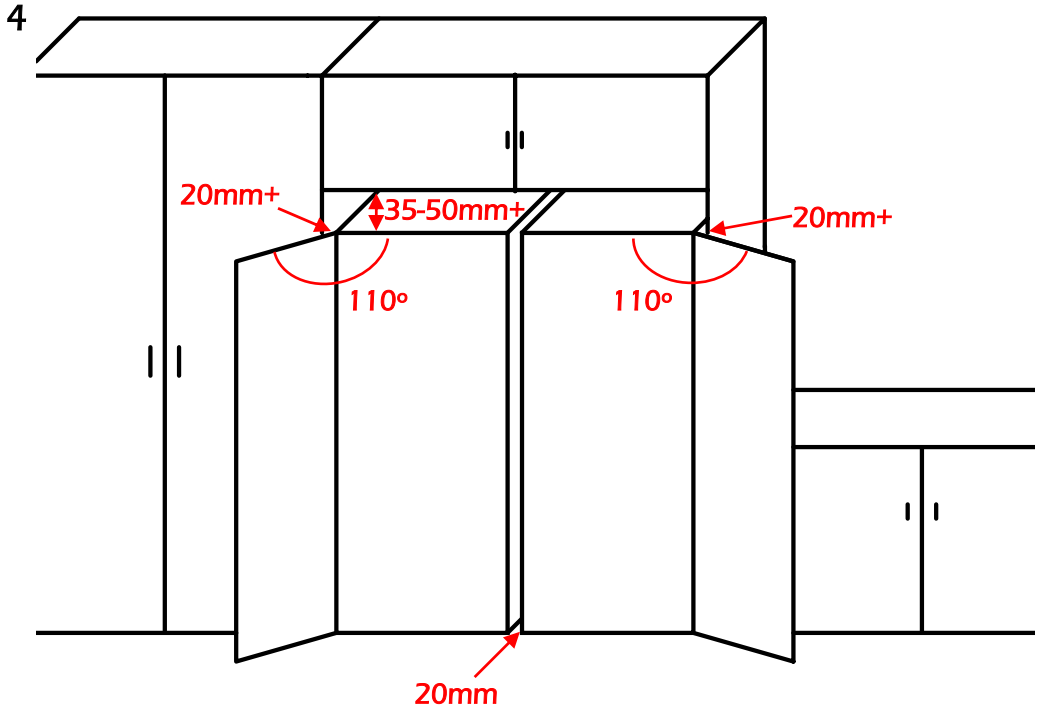

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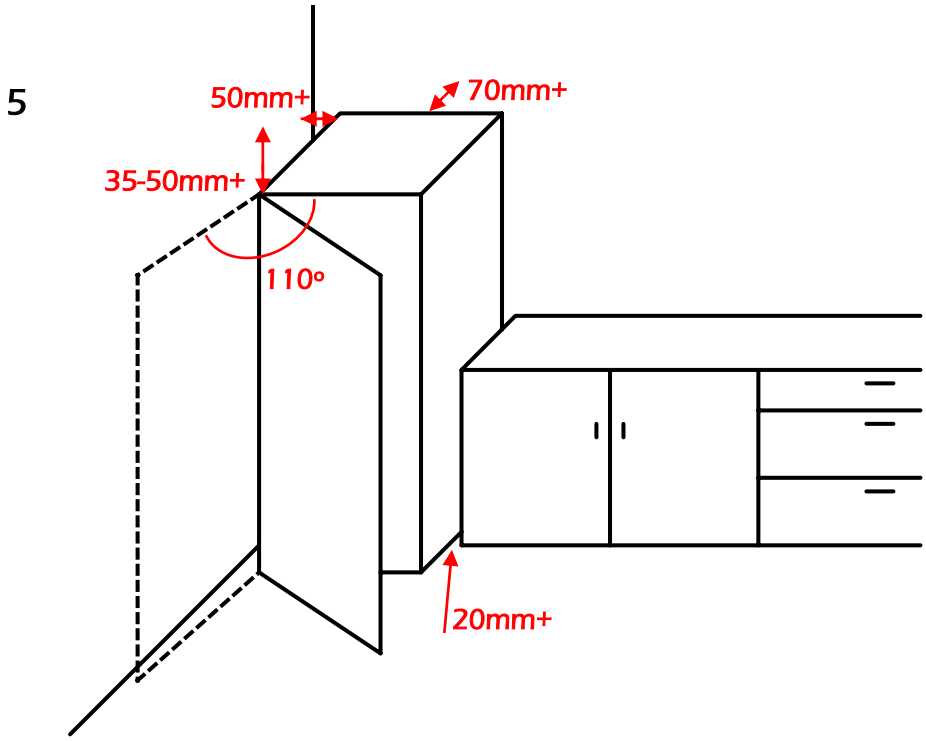


Electrical connection

The appliance is intended for connection to alternating current. The connection values for voltage (V) and frequency (Hz) are given on the nameplate inside the cabinet.

Power must be connected via a wall socket with switch. The wall socket should be easily accessible.

It is recommended, as with any high tech appliance, that a power surge protection device be used.

All earthing requirements stipulated by the local electricity authority must be observed. The cabinet plug and wall socket should then give correct earthing. If in doubt, contact your local supplier or an authorised electrician.

WARNING - This appliance must be earthed. The flexible cord (mains lead) fitted to this appliance has three cores for use with a 3-pin 10 amp plug.

IMPORTANT
The cores in this 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.
Proceed as follows:
Connect the GREEN AND YELLOW core to the plug terminal marked "E" or by an earth symbol, or coloured GREEN or GREEN AND YELLOW. Connect the BLUE core to the plug terminal marked "N" or coloured BLACK.
Connect the BROWN core to the plug terminal marked "L" or coloured RED.

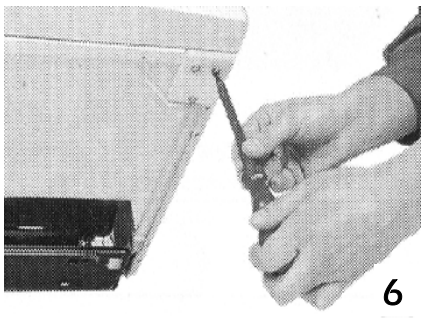
Changing the door hinge over to the opposite side

Illustrations 6, 7 & 8 below, show how easy it is to change the doors from right-hinged to left-hinged, or vice versa. (Changing the door from left to right is done in the same way, but opposite).

***The fridge/freezer must be switched off and emptied completely.**

- Take off the table top by removing the two screws at the front of the cabinet and three at the back (KS150/FS120/KF130 only).
- Tilt the refrigerator back at a 40º angle, in order to gain access to the lower hinge.
- Remove the door handle.
- Remove the front adjustable feet.
- Remove the three screws holding the lower bracket in place using a Philips screwdriver. (6)
- Remove the door and unscrew the three screws from the bracket on the base of the cabinet. (7)
- Before refitting the brackets on the opposite side of the cabinet, move the threaded pin on the hinge bracket to the other threaded hole.
- Remove the threaded pin under the control panel using a Philips screwdriver and move it to the opposite side. (8)
- Refit the door and screw the bottom hinge into position.
- Replace the adjustable feet.
- Replace the door handle and the table top.

Reversing the internal freezer door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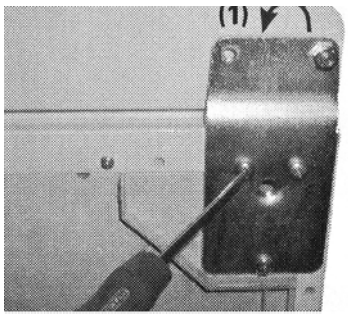

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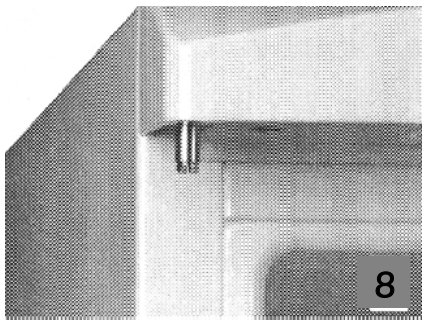

8

Unscrew the door and the bracket. Turn the door 180º. Re-attach the door and bracket on the opposite side.

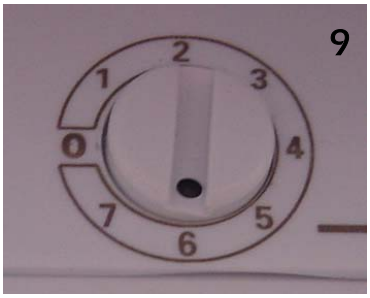
USING THE FRIDGE/FREEZER

Operating the fridge/freezer

Start the fridge/freezer by plugging it into a wall socket.
If the mains lead has been damaged, it must be replaced with a corresponding type supplied by an electrical service centre and installed by a qualified electrician.
The thermostat dial is positioned behind the door at the top of the cabinet.
Turn the thermostat dial past "0" to turn the fridge/freezer on.
The fridge/freezer is switched off when the dial setting is at "0".
Although Gram refrigeration products are generally very quiet, it is normal for certain noises to be heard during operation, e.g. gurgling, cracking, knocking etc... These noises can all be associated with gas converting to liquid and vice-versa, the compressor turning on/off and the build up of ice melting away during the defrost process.

Changing the temperature

The thermostat dial setting can be changed from "1" (warmest) to "7 "(coldest). (9)
When the appliance is started the thermostat should be in it's middle setting "4". After an hour or two the cabinet will have cooled down. If a lower temperature is required, turn the thermostat dial towards "7". If a higher temperature is required, turn the dial towards "1".
Once the chamber has reached it's set temperature, the thermostat will detect this and turn the compressor off for a period of time until it is required to turn back on.
This process assists in the defrosting process of the refrigerator's chamber.



Brief temperature variations

Brief temperature variations are normal and occur when:

- the cabinet is filled with fresh food items
- the door is left open for longer periods
- the refrigerating element defrosts

Items of food in the cabinet will not be affected by these variations and the temperature will quickly return to normal.

Freezing down

The temperature in the small freezer compartment is closely related to the setting in the refrigerator (this applies to appliances with 1 compressor).

If quick freezing down is required the cabinet should be set to run at the lowest temperature, i.e. "7". As this setting affects both the refrigerator and freezer, personal experience should be used to determine how long the quick-freeze (and thus the low refrigerator temperature) should last. After freezing down, the normal temperature setting should again be chosen.

Please Note: Pack your frozen foods in airtight and watertight containers in order to avoid drying out. Portions should be as flat as possible to allow rapid freezing down.

Replacing the bulb

Turn the thermostat dial to "0" and disconnect the appliance by unplugging the mains lead from the wall socket. Unscrew the lamp cover with a screwdriver. (10)

Replace the bulb with a new one (max. 15watt, E14).

Refit the cover, (11) reconnect the power and reset the temperature by turning the thermostat dial to the temperature it was previously set at.

USING THE FRIDGE/FREEZER'S ACCESSORIES

Glass shelves

The glass shelves can be arranged to give more, or less space between the shelves thus allowing flexible cabinet arrangement (12 and 13).

Extract the shelf by lifting up the left shelf side (14). Start by removing the top shelf when you want to clean the refrigerator or rearrange the shelves.

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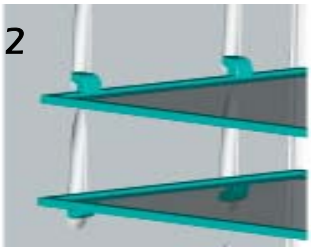

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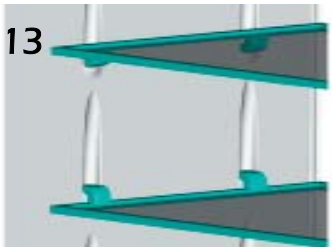

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Bottle shelves

The large bottle shelf at the bottom of the door is suitable for large 2 litre bottles. The height of the small bottle shelf is adjustable.

Vegetable drawer

The drawers in the bottom of the cabinet are suitable for storing fruit and vegetables. The overlying shelf covers the drawer and maintains humidity thus preventing stored food from drying out.

Multi-boxes

The multi-boxes are ideal for all items of food and can be placed in the cabinet or the door, whichever is most expedient. The tight-fitting lids prevent drying out and save much time in tedious wrapping and unwrapping. The multi-boxes are made of material that remains unaffected by mineral oils, fats and weak acids.

They withstand temperatures below 0ºC and up to 100ºC. They can be cleaned in the dishwasher but must not be placed close to a heating element. Multi-boxes can also be purchased as accessories.

Freezer compartment

The whole of the freezer can be used for freezing down and for the long-term storage of frozen foods.

DEFROSTING AND CLEANING

Defrosting of the refrigerator

Defrosting of the refrigerator is automatically carried out when it goes through it's set temperature cycle, refer to "Changing the temperature" on page 13.
However, a manual defrost should be carried out when a build up of excess ice is noticed on the evaporator plate (situated internally at the rear of the cabinet).
Empty the food from the cabinet and store in an area where it can keep chilled safely for approximately 2 hours.
Turn the refrigerator off by turning the thermostat dial to "0" and disconnect the plug from the power outlet.
Leave the door open and make sure the evaporator tray and drain hole are clear so the defrost water can run through freely. (15)
The water will collect in the drip tray, which is located at the rear of the refrigerator, above the compressor.
Leave the refrigerator to defrost for approx 1 hour.
Turn the refrigerator back on by reconnecting the power plug and turning the thermostat dial to it's previous setting.
Once the refrigerator is turned back on, the heat of the compressor will cause the water in the drip tray to evaporate.

Defrosting of the internal freezer compartment

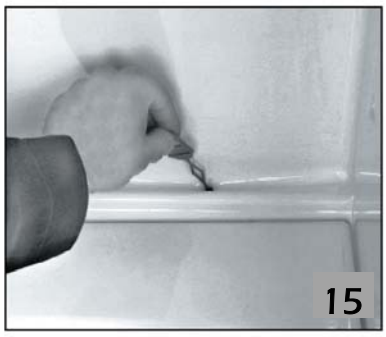
If more than 4-5mm of frost and ice has formed in the freezer, it is time for a defrost.
Remove all items from the freezer. To keep them as cold as possible during defrost, they can be placed in the refrigerator cabinet. Turn the thermostat to high, "7" or off "0". Place a bowl containing hot water (not boiling) in the freezer. When the ice has melted, clean out the freezer using water and a little washing-up liquid. Dry the freezer with a soft cloth. Reset the temperature.

Warning

It is dangerous to use electrical apparatus, knives or sharp objects to speed up the defrosting process.

Cleaning the fridge/freezer

Turn the fridge/freezer off by turning the thermostat dial to "0" and disconnect the power supply to the fridge/freezer.
The fridge/freezer is best cleaned using a weak soap solution and a soft cloth. Never use cleaning agents that scour. It is also highly recommended that harsh cleaning agents are not used to clean the plastic components as certain chemicals can lead to premature deterioration and cause damage to these parts. Clean the sealing strip around the door regularly to prolong its life. Use only clean water for cleaning the sealing strip.
The plastic parts of the cabinet cannot withstand boiling water (max 85ºC).
It is important to prevent water from getting into the thermostat.
Clean the water drain in the "evaporation tray" in the refrigerator compartment using the cleaning pin in the parts kit supplied (15).
Remove dust and threads from the compressor compartment at the back of the refrigerator with a vacuum cleaner



GRAM CUSTOMER CARE & SERVICING

Checklist

If you discover a problem with your fridge/freezer, please refer to the following points before contacting your supplier for assistance.

PROBLEM	POSSIBLE CAUSES	WHAT TO DO
Refrigerator does not operate.	*No electricity to the power point.	*Check the plug is connected correctly to the power point. *Check another appliance at the same power outlet. *Check the house fuse/circuit breaker.
Compressor is operating for long periods.	*Hot weather. *Frequent door openings. *Large quantity of food recently added. *Door not sealing properly.	*Minimise door openings to allow the temperature to stabilise. *Refer to *Changing the Temperature* on page 13. *Check the cabinet is level and door seals are clean and undamaged. *Check there are no obstructions that are preventing the door from closing.
Food freezing in the refrigerator.	*Temperature setting is set too low. *Food is stored too close to, or touching rear of cabinet.	*Refer to *Changing the Temperature* on page 13. *Move food away from the rear of the cabinet.
Storage compartments are too warm.	*Temperature setting not correct. *Frequent door openings. *Large quantity of food recently added.	*Refer to *Changing the Temperature* on page 13. *Minimise door openings to allow the temperature to stabilise.
Compressor not operating.	*No electricity to power point. *Fridge cabinet has reached it's set temperature. *Possibility of fault with the compressor.	*Check power to refrigerator. *If compressor is still not operating after checking the power and . after it's usual rest period, please contact your supplier.
Door not closing properly.	*Fridge not level. *Dented or damaged door seal.	*Adjust feet. Refer to *Setting Up And Installation* on page 7. *Contact your supplier for advice.

PROBLEM	POSSIBLE CAUSES	WHAT TO DO
Water found in the bottom of the refrigerator.	*Blocked drain hole. *Food or packaging touching the rear of the refrigerator (evaporator plate).	*Clear drain hole with the cleaning pin supplied. *Re-position food items away from the rear of the refrigerator.
Condensation on outside of the refrigerator.	*This is not unusual during periods of high humidity.	*Wipe dry.
Condensation inside the refrigerator.	*Frequent or long door openings. *Door not sealing properly. *Not unusual during periods of high humidity.	*Minimise door openings. *Check the door seal is sitting flat and sealing tightly. *Wipe dry.
Door is out of alignment.	*With time and usage, movement or distortion may occur.	*Adjust feet and make sure the cabinet is level. *Refer to *Setting Up And Installation* on page 7. *Try not to overload the Refrigerator door bottle holders with too many heavy items as this may also cause cabinet distortion over time.

Contact details

If after referring to the manual and above checklist you still require assistance, please contact your supplier or visit the importers website for service centre details on http://www.indepower.co.nz
Please have the appliance information ready to provide to your supplier. This information is shown on the silver nameplate inside the cabinet or on the back page of this manual.

Spare parts

When ordering spare parts, please give the model and serial number of your fridge/freezer.

REFRIGERATION WARRANTY

This document sets out terms and conditions of warranty. This is an important document. Please retain this document with your proof of purchase documents in a safe place for future reference.
This warranty is valid in New Zealand only.

Terms and conditions:

1. In this warranty

(a) 'Refrigerator' means any 'Gram' or 'Elcold' energy efficient refrigerator or freezer accompanied by this document which is purchased from a Dealer authorised by Independent Power (NZ) Limited;

(b) 'Dealer' means any dealer expressly authorised to sell refrigerators on behalf of Independent Power (NZ) Limited.

(c) 'Warranty Period' means where you use the Refrigerator for personal, domestic or household purposes in New Zealand for the period of 24 months following the date of the original purchase of the Refrigerator;

(d) 'you' means the purchaser of the Refrigerator not having purchased the Refrigerator for re-sale, and 'your' has the corresponding meaning;

(e) 'Authorised Service Agent' means any agent expressly authorised to undertake repairs by Independent Power (NZ) Limited.

2. Independent Power (NZ) Limited warrants that when dispatched the Refrigerator is free from defects in materials and workmanship for the Warranty Period.

3. Should you encounter problems with your Refrigerator during the Warranty Period please contact the Dealer you purchased your Refrigerator from with the serial number for the Refrigerator and proof of purchase documents. Proof of purchase is required before you can make a claim under this warranty. Before contacting the Dealer for assistance please refer to the owner's manual and trouble shooting checklist.

4. During the Warranty Period Independent Power (NZ) Limited or it's Authorised Service Agents will, at no extra charge, subject to these terms and conditions, repair or replace, any parts which it considers defective. This warranty does not cover noise or vibration within the Refrigerator which is considered normal, or bulbs, filters or similar perishable parts. You agree that any replaced Refrigerator or replaced parts become the property of Independent Power (NZ) Limited.

5. Where you are within an Independent Power (NZ) Limited service area, this warranty includes the cost of transporting the Refrigerator to and from the nearest Authorised Service Agent and travelling costs for

representatives of the Authorised Service Agent to your home. If you are outside an Independent Power (NZ) Limited service area, you will bear these costs. For information about whether you are in an Independent Power (NZ) Limited service area please check our website http://www.indepower.co.nz

6. You may not make a claim under this warranty unless the defect claimed is due to faulty or defective parts or workmanship. Independent Power (NZ) Limited is not liable in the following situations (which are not exhaustive):

(a) The Refrigerator is damaged by:
i. Accident,
ii. Misuse or abuse, including lack of routine maintenance or service such as cleaning, adjustments, lubrication or alignments,
iii. Normal wear and tear,
iv. Incomplete or improper installation,
v. Incorrect or improper operation,
vi. Power surges, electrical storm damage or incorrect power supply,
vii. Insect or vermin infestation,
viii. Deterioration caused by external environmental conditions,

(b) The Refrigerator is modified without authority from Independent Power (NZ) Limited.

(c) The Refrigerator was serviced or repaired by anyone other than an Authorised Service Agent.

Limitation of Liability

7. The Consumer Guarantees Act 1993, the Sales of Goods Act 1908, and Fair Trading Act 1986 imply warranties and conditions and obligations which cannot be excluded, restricted or modified. To the extent permitted by law, the liability of Independent Power (NZ) Limited shall be limited at it's option to the replacement or repair of the Refrigerator and loss or damage whether direct, indirect or consequential that is reasonably foreseeable.

Privacy

8. You acknowledge that in the event that you make a warranty claim it will be necessary for Independent Power (NZ) Limited and it's Authorised Service Agents to exchange information in relation to you to enable Independent Power (NZ) Limited to meet it's obligations under this warranty.

IOALGRAM-072

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