GRAM

KF 310-01
KF 320-01
KF 350-01

M60 Series Manual

CONGRATULATIONS ON YOUR NEW GRAM 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 it's 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 fridge/freezer with items of food, the fridge/freezer 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 8 through to 14.

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 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

If the fridge/freezer is to remain unused for a time, switch it off by pressing buttons (1) and (2) for 5 seconds (diagram on page 15). 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 refrigerator. Leave the fridge and freezer doors slightly ajar. This will prevent bad smells in the fridge/freezer.

Warning

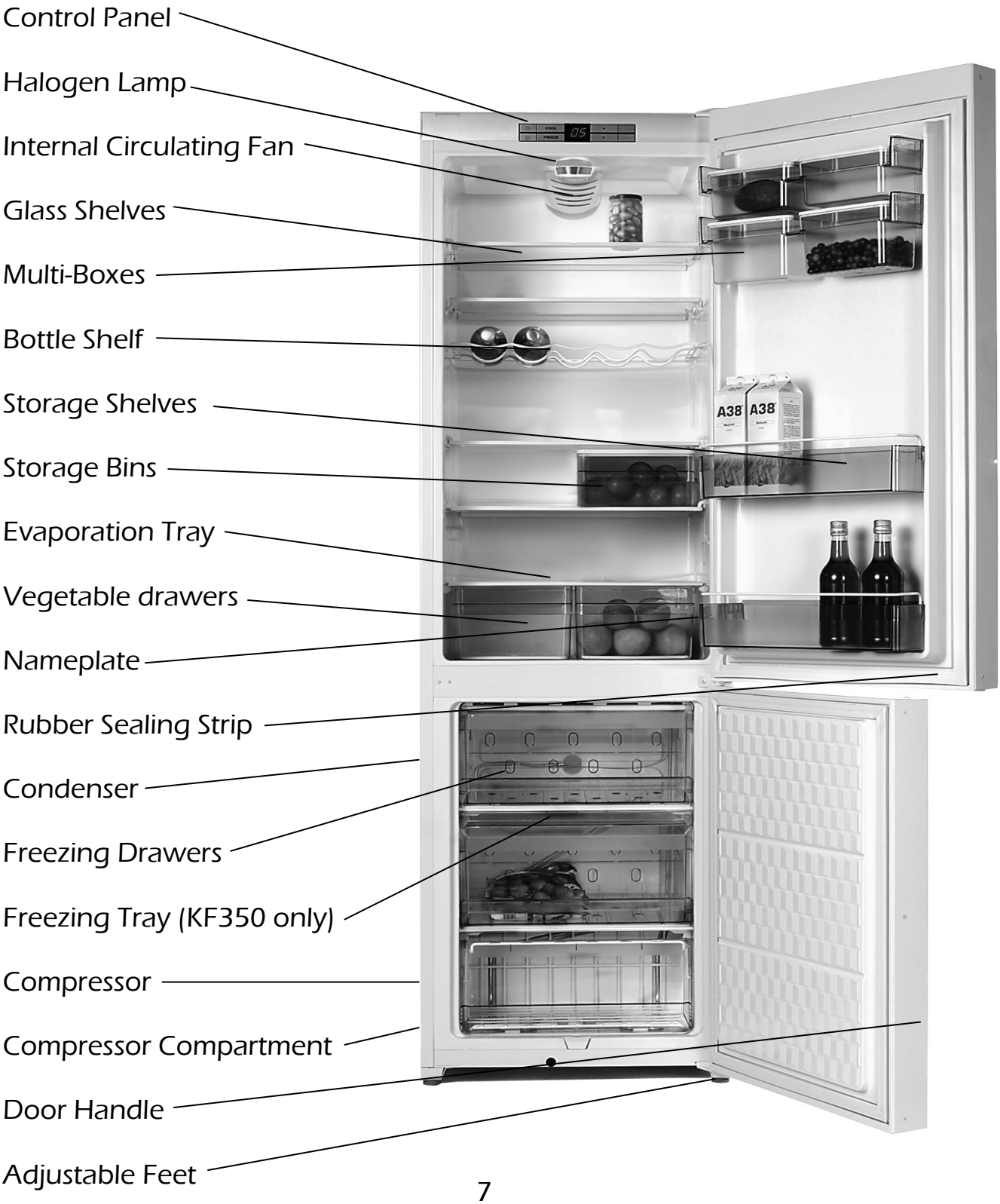
Old refrigerators and freezers are often fitted with complicated latches that can only be opened from the outside. If you have an old unit like this stored away somewhere, or if you scrap it, remember to destroy the latch to prevent children from being exposed to danger by getting locked inside the unit.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

Disposal

If a refrigerator/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 refrigerator 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 (2 optional rear feet are supplied in the parts kit).

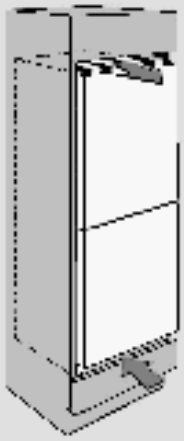
It is also advantageous, but not necessary, that the fridge/freezer is tilted slightly towards the rear to allow the door to close on it's own.

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. (15)

15



Building into a fridge/freezer cabinet

Building into a fridge/freezer cabinet follows the same principal as shown in illustration 15. (16)

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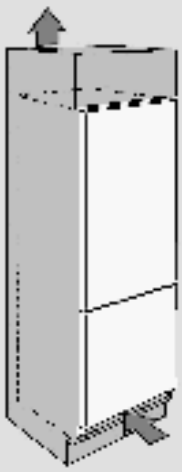

Installation And Ventilation Diagrams

The measurements below are to be used as guidelines only. The degree of the door openings show the minimum requirement to easily access the storage bins. (17 & 18)

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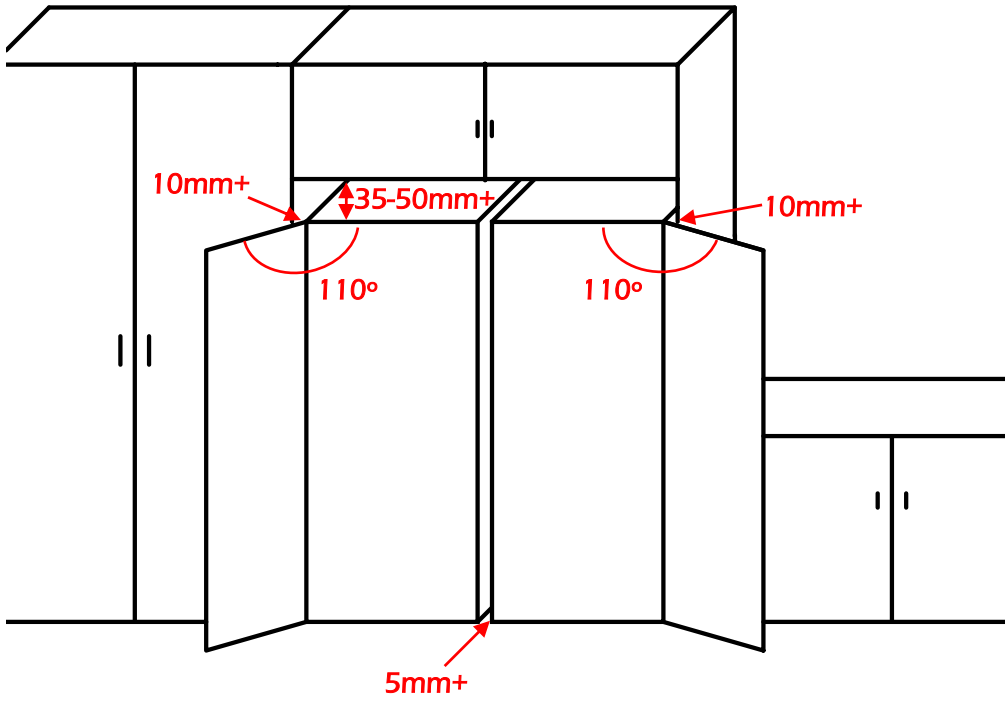

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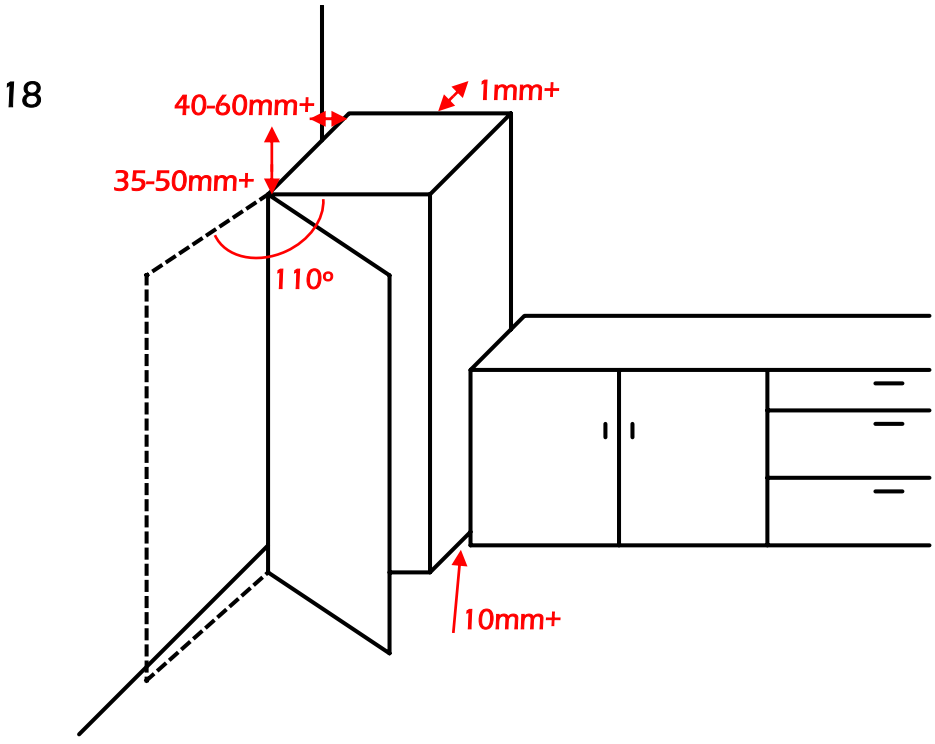

Electrical connection

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 19-26 below and over the page, 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).
Top and bottom left hand hinges and accessories are supplied in the parts kit.

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

- Remove the 2 screws in the hinge top on the right-hand side of the cabinet. (19)
- Lift the refrigerator door slightly and take the door and upper hinge off by pulling the door towards you.
- Remove the dummy hinge from the opposite side by unscrewing the 2 screws. (20)
- Reverse the dummy hinge and refit it on the opposite side of the cabinet using 2 screws.
- Remove the lower door by unscrewing the 2 screws in the centre hinge. (21)
- Refit the 2 screws from the left-hand side on the right-hand side. (22)
- Lift the lower door and the centre hinge up and take them off.
- Tilt the refrigerator to an angle of max. 45° and unscrew the bottom hinge. This is done by removing the 2 screws holding the bottom hinge on the cabinet underside. (23)
- Remove the bottom dummy hinge in the opposite side in the same way as the upper dummy hinge was removed. (24)
- Reverse the dummy hinge and refit it on the opposite side of the cabinet.
- Reverse the upper right-hand hinge and refit it in the lower left-hand corner of the cabinet.
- Place the cabinet in the vertical position again.
- Remove the door handles by removing the screws. (25)

- Place the lower door in the correct position on the bottom hinge.
- Reverse the centre hinge and refit it on the lower door and screw it onto the cabinet. Remember to adjust the hinges.
- Lift the top door into position on the centre hinge. Reverse the lower right-hand hinge and refit it on the top part of the door in the left side of the cabinet. Push the door into position and slide the upper hinge into the upper left-hand hinge casing. Tighten the 2 screws. Remember to adjust the hinges.
- Remove the screws on the right-hand side of the door and screw them onto the left side of the door. Use the screws from the left side to attach the handles to the right-hand edge of the doors. (26)

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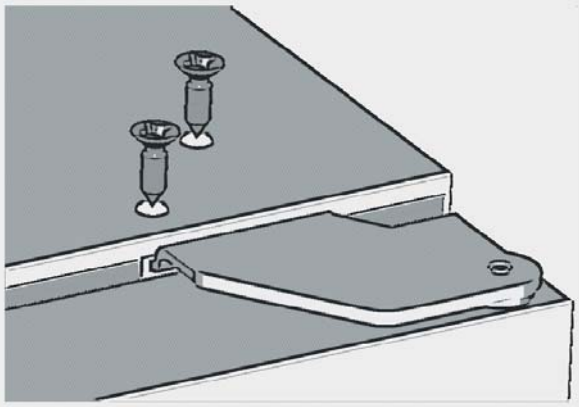

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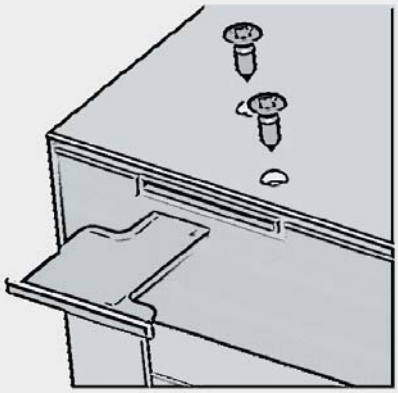

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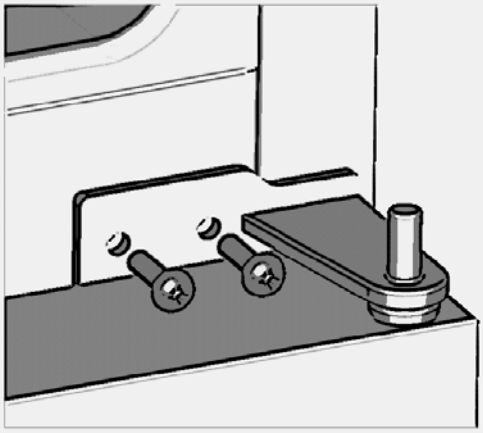

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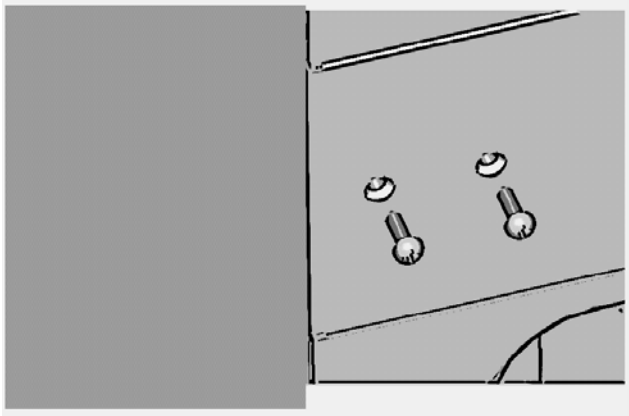

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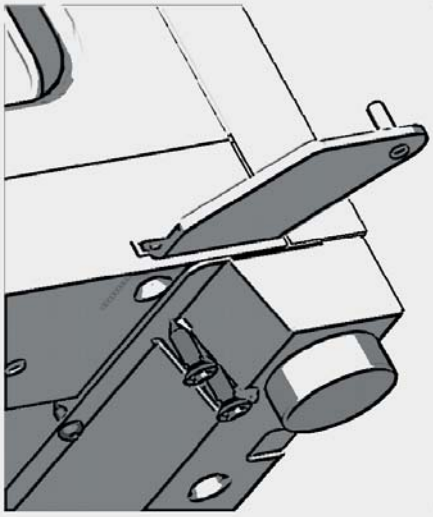

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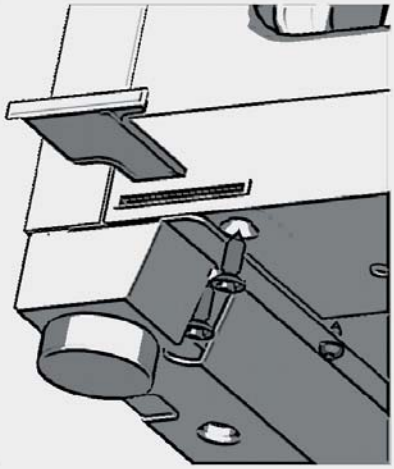

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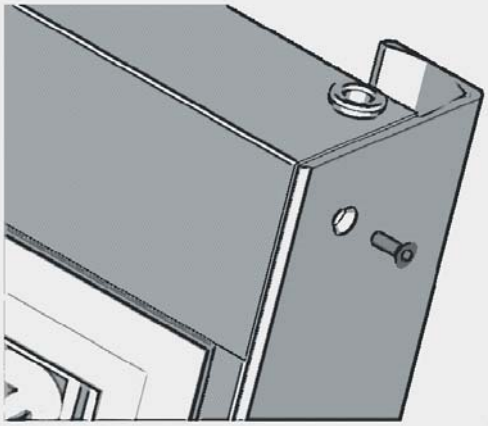

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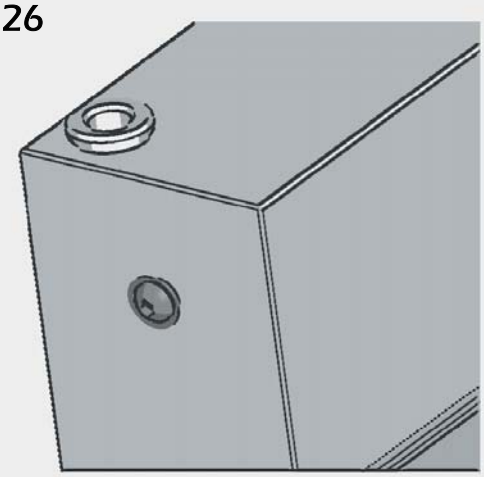
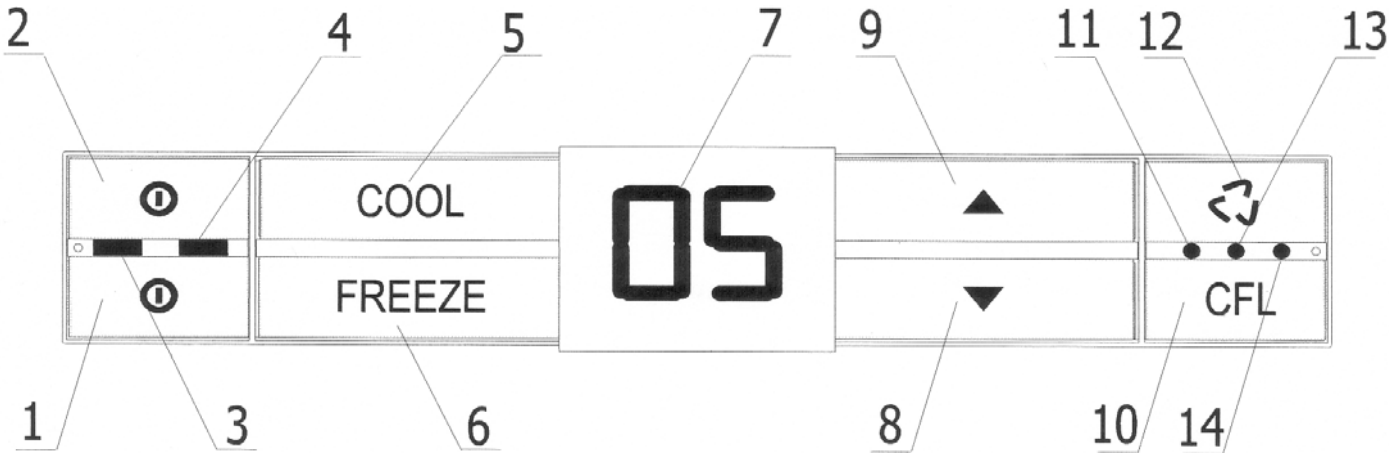


USING THE FRIDGE/FREEZER



1	Freezer's ON/OFF button.
2	Refrigerator's ON/OFF button.
3	Green light-emitting LED signalling that the refrigerator's chamber has been switched on.
4	Blue light-emitting LED signalling that the freezer's chamber has been switched on.
5	"COOL" button.
6	"FREEZE" button.
7	Display showing the set temperature, time of super freezing, and alarm status codes.
8	Button for displaying real temperature inside freezer's chamber.
9	Button for displaying real temperature inside fridge's chamber.
10	Function button for quick freezing, quick cooling and adjustment of the display light.
11	Blue light-emitting LED signalling that the quick cooling function has been switched on.
12	The button turning the vent on and off.
13	The control light (yellow) signals initiation of the vent function.
14	Blue light-emitting LED signalling that the quick freezing function has been switched on.

Electronic Control

The fridge/freezer is equipped with electronic control. The control panel is concealed behind the refrigerator door. The appliance has been factory set to operate at optimum temperature, i.e. +5ºC in the refrigerator's chamber and –18ºC in the freezers chamber.
If you wish to change the preset temperature, the new setting will be stored in the electronic control. In case of power failure, the control will remember the latest setting when the power to the cabinet is restored.

The electronic control has the following functions:

- On/Off switch function.
- Display of the real temperature inside the refrigerator's and freezer's chambers.
- Setting the temperatures in the refrigerator's and freezer's chambers.
- Automatic defrosting of the refrigerator's chamber.
- Quick freezing.
- Quick refrigeration.
- Vent function inside the refrigerator's chamber.
- Adjustment of the display contrast.
- Acoustic and visual signalling of alarms.
- Visual signalling with use of LED's of switched on functions.

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 fridge/freezer incorporates a "stand-by function" and in the display two horizontal lines indicate that the power supply has been connected.

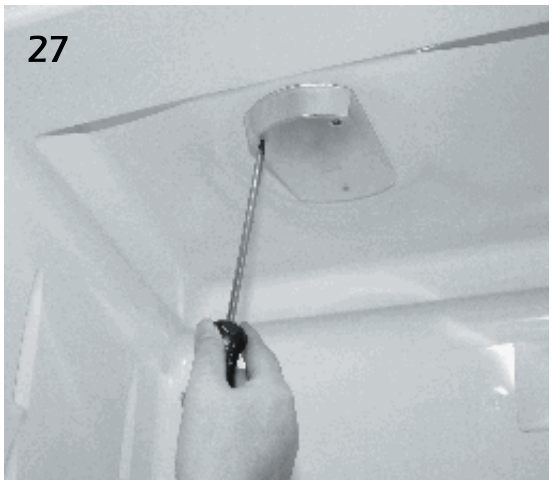
- Start the refrigerator compartment by pressing the upper on/off button ⏻ (2). After approx. 5 seconds, the green light-emitting LED (3) lights up to indicate that the refrigerating compartment is switched on. The actual temperature inside the refrigerator's compartment is shown on the display (7).

- By pressing button ▲ (9) the actual temperature in the refrigeration compartment will be displayed.
- To turn the refrigerator off, press and hold the button ⏻ (2).
- Start the freezer compartment by pressing the lower on/off button ⏻ (1). After approx. 5 seconds, the blue light-emitting LED (4) lights to indicate that the freezing compartment is switched on. The actual temperature in the freezer's compartment is shown on the display (7).
- By pressing button ▼ (8) the actual temperature in the freezing compartment will be displayed.
- To turn the freezer off, press and hold the button ⏻ (1).

The refrigerator and freezer can be switched ON and OFF independently.

Replacing the bulb

Switch off the fridge/freezer by pressing buttons ⏻ (1 & 2) and unplug the mains lead from the wall socket.
Remove the cover. Replace the bulb with a new one (max. 10watt, 12Volt, halogen base G4). Refit the cover, re-connect the power supply and restart the fridge/freezer by pressing button ⏻ (1 & 2).
(27)



Temperature regulation

The temperature in the refrigerator's chamber can be set within the temperature range from +2ºC up to +9ºC. When pressing and holding the "COOL" button (5), the set temperature will be shown on the display. When pressing the button ▲ (9) or button ▼ (8) it is possible to modify the setting of the temperature inside the refrigerator.

The temperature in the freezer's chamber can be set within the range from –25ºC up to –16ºC. When pressing and holding the "FREEZE" button (6), the set temperature shall be shown on the display. When pressing the button ▲ (9) or button ▼ (8) it is possible to modify the setting of the temperature inside the freezer. Every pressing of the button shall activate a brief acoustic signal. In case of the power supply failure or disconnection of the power supply to the fridge/freezer, the control will keep in the memory the latest settings after the power supply has been restored.

Displaying of the temperature

You can decide which temperature should be shown on the display - the temperature inside the refrigerator's chamber (by pressing the button ▲ (9)) or of the temperature inside the freezer's chamber (by pressing the button ▼ (8)). The above mentioned setting can be changed at any time.

Temperature inside the fridge/freezer

The temperature settings and temperature values shown on the display are average temperatures of the fridge/freezer. It concerns both the refrigerator's chamber and the freezer's chamber. Do not change the temperature setting simply because it is warmer in summer. The increase of the room temperature will be detected by the sensor and the compressor will automatically run for a longer time to maintain the set temperature.

Quick freezing

Quick freezing to a low temperature is important to maintain the quality of the food products. Quick freezing is activated by pressing and holding the function button "CFL" (10) and pressing the "FREEZE" button (6). The blue light-emitting LED (14) switches on signalling activation of the quick freezing function.

You can choose between freezing in 24 hours or 48 hours:

- by holding the function button "CFL" (10) and pressing once the "FREEZE" button (6) you switch on the 24 hours quick freezing function and "24" is shown in the display.
- by holding the function button "CFL" (10) and pressing twice the "FREEZE" button (6) you switch on the 48 hours quick freezing function and "48" is shown on the display.
- the next pressing of the button "FREEZE" (6) switches off the quick freezing function and switches off the blue light-emitting LED. The quick freeze function will be automatically disabled after 24 or 48 hours.

After pressing the quick freezing function button, the indication "24" or "48" is displayed for 5 seconds. Afterwards the real temperature inside the refrigerator's chamber and freezer's chamber will be shown on the display.

It is recommended to switch on the quick freezing function (24 or 48 hours) for approximately 2 hours before loading the freezer's chamber with large quantities of food products.

Brief temperature variations

Brief temperature variations are normal and may occur when the refrigerator is going through it's automatic defrost cycle, when fresh food has just been placed inside or when the door is open for a longer time. These variations will not affect the food products and the temperature will quickly return to the set-point level.

The interior light switches on when the door of the refrigerator's chamber has been opened. When the door remains open, the interior light switches off after approximately 3 minutes. The display will show E4 alarm and the acoustic alarm will be activated. Please refer to page 22 to remedy.

Super refrigerating function

- The first pressing of the buttons (10) + (5) switches on the blue light-emitting LED (11) and activates quick cooling down of the refrigerator's chamber to the temperature of approximately 1ºC (the continuous operation of the compressor), after the temperature of 1ºC has been reached the function automatically disables and the equipment switches into a normal cyclic operation restoring the latest temperature set for the refrigerator.
- During the super refrigerating function operation, the display shows "Sc" indication, (it is possible to monitor the freezer temperature by pressing the button ▼ (8).
- The second pressing of the buttons (10) + (5), (during operation of the quick refrigerating function), disables the function and switches off the blue light-emitting LED (11).

It is recommended to switch on the quick refrigerating function "Sc" before loading the refrigerator's chamber with a large quantity of fresh food products.

Function with a ventilator

The ventilator, remains inactive until the cabinet has reached the set operating temperature. It is turned on and off by button (12). The yellow LED light (13) turns on when the ventilator is turned on.

The ventilator allows it to maintain the same temperature on all levels of the refrigerator chamber.

After being turned on, the ventilator works in a cycle function except when the refrigerator door is opened.

Display brightness adjustment

By pressing and holding the button (10) and:

- pressing at the same time the pushbutton ▲ (9), the display brightness increases.
- pressing at the same time the pushbutton ▼ (8), the display brightness decreases.

When adjusting the display brightness, the display shows the following indications:

1.8 - minimum brightness
2.8 - medium brightness
3.8 - maximum brightness (manufacturer's setting)

ALARMS

Normal use of the fridge/freezer may cause different situations leading to interruption of various functions and unstable operation of the entire equipment as a consequence. These interruptions are shown on the display as the alarm code (an "E" followed by a number) and signalled by the acoustic alarm. In case of several faults, the alarm codes will be displayed in turn.

Alarm codes

E1 - temperature sensor fault in the refrigerator's chamber.
E2 - temperature sensor fault in the freezer's chamber.
One of the temperature sensors has been damaged. Call your supplier. The built-in emergency program maintains the admissible temperature until the fault can be eliminated by the authorized technical service.

E4 - door is open
The door of the refrigerator's chamber has been opened for more than 3 minutes. The alarm code disappears when the door is closed.

E5 - the temperature inside the freezer's chamber has been higher than the set temperature for more than 2 hours.

E6 - temperature too high at power failure
There has been a power failure or has been disconnected and the temperature has been higher than the set temperature for more than 2 hours.

Interrupting an alarm

The acoustic alarm can always be interrupted by opening the door and pressing any button. The alarm code will remain displayed until the alarm has been cancelled. A 2 hour silence will follow.
The alarm codes E4, E5, E6 can be cancelled by pressing for 7-8 seconds simultaneously, the buttons ▼ (8) and ▲ (9).
The exception: in case of the alarm E1 or E2 it is possible to cancel the alarm only after replacing damaged sensors.
In such cases please contact your supplier.

USING THE REFRIGERATOR'S ACCESSORIES

Glass shelves

The glass shelves can be arranged to give more, or less space between the shelves thus allowing flexible cabinet arrangement (28 and 29).

Extract the shelf by lifting up the left shelf side (30). Start by removing the top shelf when you want to clean the refrigerator or rearrange the shelves.

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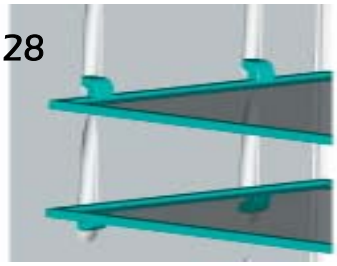

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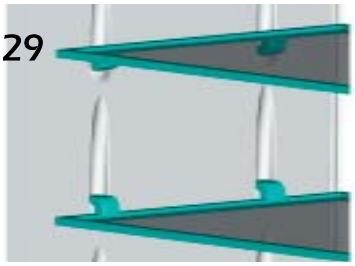

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Bottle shelf

The bottle shelf is suitable for large and small bottles.

Vegetable drawers

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. Multi-boxes can also be purchased as accessories.

Storage shelves in the door

The shelves in the door can hold bottles of up to 2 litres. They can be moved and placed throughout the entire height of the door.

USING THE FREEZER'S ACCESSORIES

The whole of the freezer can be used for freezing down and for the long-term storage of frozen items of food. In addition, the KF350 comes equipped with a freezing tray for berries, etc...

When packing the wire bins in your freezer with food, make sure to place containers or boxes on the bottom of the bin. Avoid placing food on the bottom that will easily push down in between the wire.
This ensures that the bins won't get stuck to the individual evaporator shelves, due to food (such as bags of mince) moulding and freezing down in between the gaps in the wire bin.

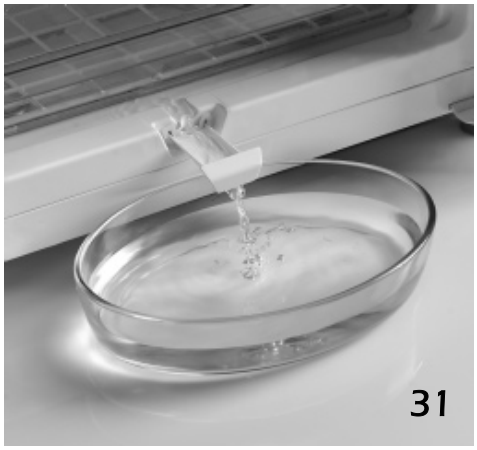
DEFROSTING AND CLEANING

Automatic defrosting of the refrigerator compartment

The refrigerating compartment features automatic defrosting. In some periods, however, frost may form on the rear wall of the refrigerator. This normally happens when many fresh items of food are stored in the refrigerator or in summer when the refrigerator is filled with beverages to be cooled. In situations such as these the compressor must run for longer periods of time. As automatic defrosting takes place while the compressor is at a standstill, the refrigerator may not defrost completely before the compressor restarts. In these instances, manual defrosting is required.
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 the defrost process, the gas converting to liquid and vice-versa, the compressor turning on/off and the build up of ice melting away.

Manual defrosting of the freezer compartment

It is recommended to defrost the freezer compartment at least once a year. Stop the freezer compressor by pressing the lower button **0** (1). Remove all items from the freezer. To keep them as cold as possible during defrost, they can be placed in the refrigerator compartment. Place a bowl containing hot water (not boiling) in the freezer. Pull out the drain spout and place an empty bowl under it to received the defrost water (31). When the ice has melted, clean out the freezer using water and a mild washing-up liquid. Dry the freezer with a soft cloth.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Warning

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

Cleaning

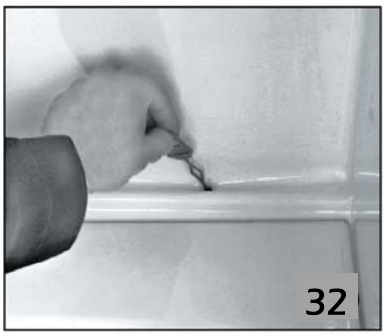
Turn the refrigerator off by pressing the upper button [o] (2) and disconnect the power supply to the fridge/freezer.

The cabinet 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 85°C).

It is important to prevent water from getting into the control panel.

Clean the water drain in the "evaporation tray" in the refrigerator compartment using the cleaning pin in the parts kit supplied (32).



Remove dust and threads from the compressor compartment at the back of the fridge/freezer with a vacuum cleaner.

Cleaning of doors in stainless steel or aluminium

Stainless steel or aluminium doors on GRAM products can, with advantage, be cleaned with a spray and a soft cloth. There are a number of different spraying agents for this purpose on the market. We recommend that you contact your usual white goods supplier for advise on the advantages and disadvantages of the individual products.

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 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 *Temperature Regulation* on page 18. *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 *Temperature Regulation* on page 18. *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 *Temperature Regulation* on page 18. *Minimise door openings to allow the temperature to stabilise.
Compressor not operating.	*No electricity to power point. *Possibility of fault with compressor	*Check power to refrigerator. *If compressor is still not operating after checking power and once the defrost cycle has completed, 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 8) *Contact your supplier for advice.

PROBLEM	POSSIBLE CAUSES	WHAT TO DO
Water found in the bottom of the refrigerator.	*Blocked drain hole. *Food 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 8. *Try not to overload the Refrigerator door bottle holders with too many heavy items as this may also cause cabinet distortion over time.
Freezer not coming down to temperature.	*Ice build up around the sensor.	*A manual defrost is required when ice build up is noticed.
Wire bins get stuck / won't pull out easily.	Packets of food moulded and frozen through the gaps of the wire bins, sticking to the evaporator shelf.	Carry out a defrost of your freezer long enough for the evaporator shelf to rid itself of ice and the food to release. Gently lift the bin up and pull out. If this does not work, a full defrost of your freezer may be required, with the possibility of food in this bin to perish. Do not re-freeze defrosted food.

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 refrigerator.

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.

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