

Challenger Refrigerator

Instruction Manual

Model

Challenger 90 litre

Challenger 125 litre

Challenger 186 litre

Challenger 220 litre

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INTRODUCTION

Thank you for choosing this Challenger refrigerator. **IMPORTANT:** Please read this manual carefully before turning on your refrigerator. The refrigerator must be installed and used as described in these instructions.

If a problem arises with the operation of your refrigerator please contact your distributor.

Electrical and LP Gas Requirements

This refrigerator is designed to operate with these energy sources:

LP Gas Operation 28mbar Propane

12 volts DC control voltage (10.5 volts DC min. to 15.4 volts DC max.)

AC Operation 230 volts AC range (207 volts AC min. to 253 volts AC max.)

Operating in excess of these specifications can damage the refrigerator's electrical circuit, related components and voids the refrigerator's warranty.

REFERENCE INFORMATION

Please complete the following information for future reference. You will need it to obtain warranty service.

Model Name*: _____

Serial Number *: _____

Date of Purchase: _____

Place of Purchase: _____

*The above information is written on the nameplate inside the cabinet. Retain this user manual with your sales receipt as a permanent record of your purchase.

The manufacturer reserves the right to make changes to its products when considered necessary and useful, without affecting the essential safety and operating characteristics. We are therefore not responsible for any inaccuracies due to printing, transcription, or conversational errors, whether contained in any printed source, or relayed in person.

IMPORTANT SAFETY PRECAUTIONS

Before you use your absorption refrigerator, please read this instruction manual carefully.

NEVER install gas appliances in unventilated (air tight) structures or sleeping rooms. Gas refrigerators consume air (oxygen) when operated on gas power. **ALL ABSORPTION GAS OPERATED APPLIANCES MUST BE VENTILATED.**

NEVER install a gas appliance on carpeting or against a flammable wall.

This appliance can be run on LP gas and electricity.

NEVER RUN THE APPLIANCE ON BOTH LP GAS AND ELECTRICAL ENERGY AT THE SAME TIME as serious damage to the cooling unit will result **THIS WILL VOID THE WARRANTY.**

Use this appliance only for its intended purpose as described in this user manual.

This absorption refrigerator must be properly installed in accordance with the installation instructions before it is used.

Never unplug your absorption refrigerator by pulling on the power cord. Always grasp the plug firmly and pull straight out from the wall outlet.

Repair or replace immediately, all electric service cords that have become frayed or otherwise damaged. Do not use a cord that shows cracks or abrasion damage along its length, the plug or the connector end.

Unplug your absorption refrigerator before cleaning or before making any repairs.

NOTE: *If for any reason this product requires service, we strongly recommend that a certified technician perform the service. Please contact your distributor for a service agent.*

Do not operate your absorption refrigerator in the presence of explosive fumes.

The power supply must be properly grounded.

Do not use an adapter plug or extension cord.

Do not use the unit in the immediate surroundings of a bath, shower or swimming pool.

Before discarding or storing, we recommend that you remove the door and leave the shelves in place.

This will reduce the possibility of danger to children.

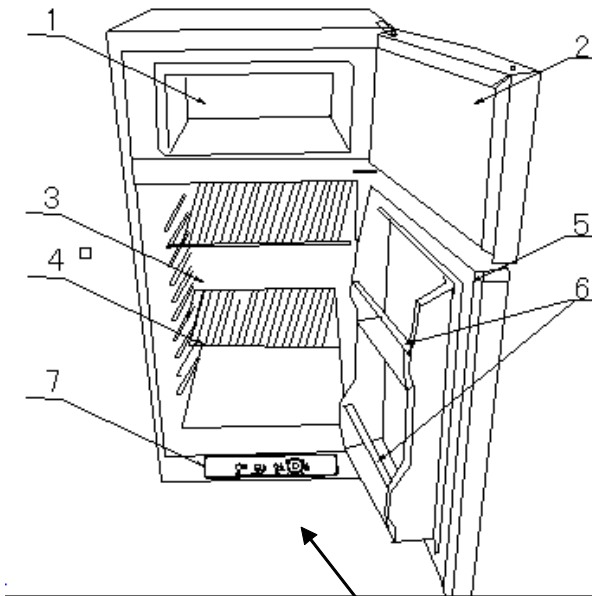
The sealed cooling system must not be opened, since it contains corroding chemicals under high pressure.

This appliance requires a low-pressure regulator to operate. Please refer to the specification plate

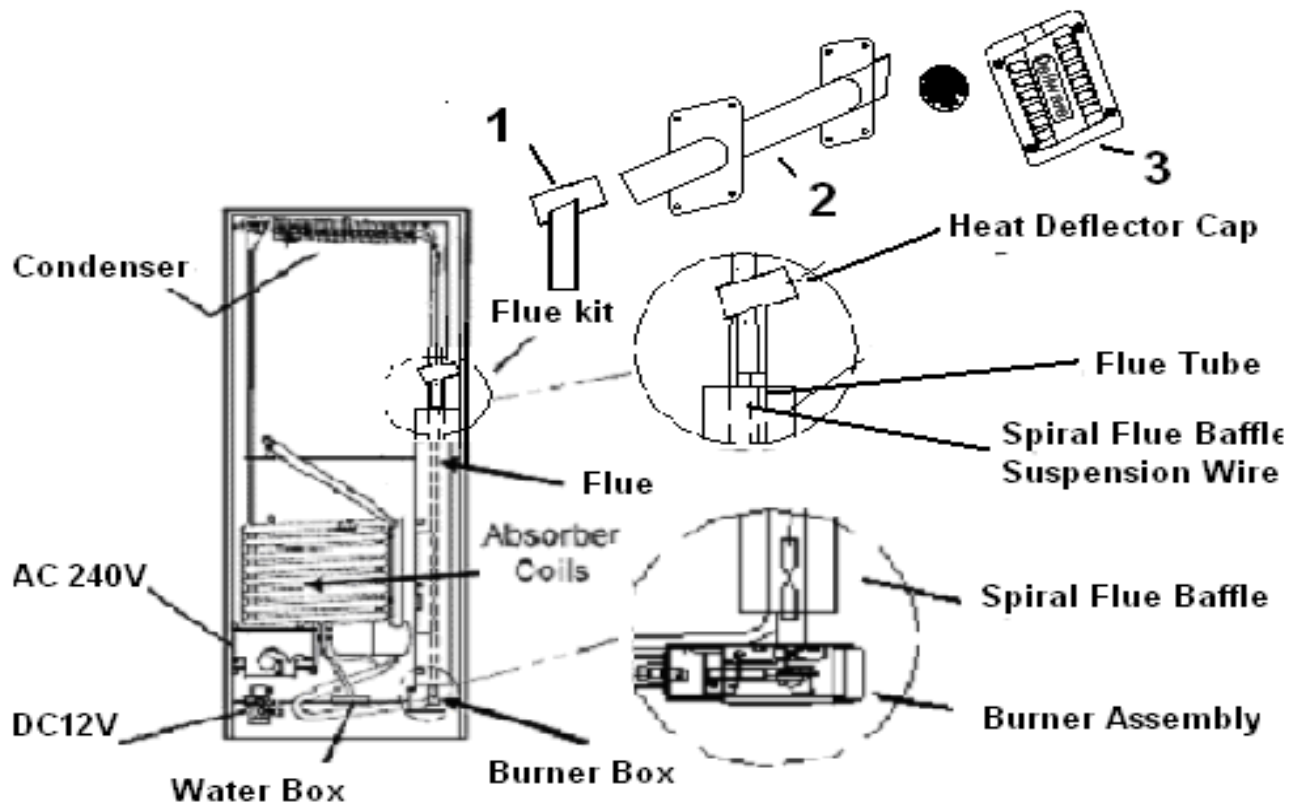
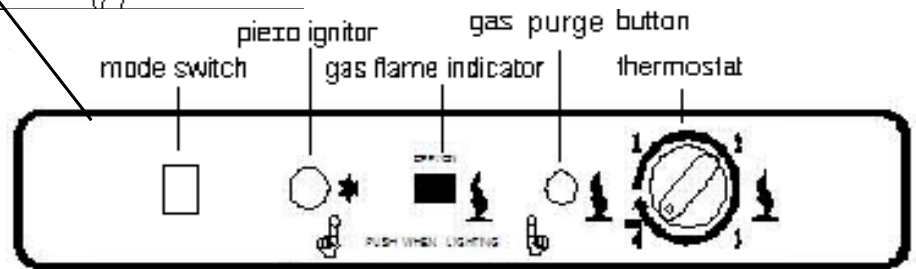
Operation on back-up electrical power is recommended when in motion.

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PARTS AND FEATURES



- 1. Freezer compartment
- 2. Freezer door
- 3. Fridge compartment
- 4. Fridge shelf
- 5. Fridge door
- 6. Door pockets
- 7. Control panel



1:Venturi T 2:Extension Pipe 3:External weather cover
 Parts 1,2+3 make up the complete Flu Kit.Part No.10051

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INSTALLATION INSTRUCTIONS

It is advisable to clean the inside of the absorption refrigerator with lukewarm water using a mild detergent, and then to dry it thoroughly prior to use.

LEVELLING AND VENTILATION

The refrigeration system of the cabinet is designed to operate with the cabinet located on a flat surface. Avoid tilting the cabinet .

THE REFRIGERATOR MUST BE LEVEL AT ALL TIMES

If the cabinet must be tilted on an angle for handling or moving purposes, allow it to sit in an upright position 20 to 30 minutes prior to plugging it in and starting the cooling of the storage compartment. Grounding plug and socket should be provided in accordance with local regulations. The cable-size should meet the refrigerator's requirements. The unit must be connected to proper electrical network, which is shown on the nameplate, through an omnipolar circuit-breaker. To assure the proper function of the refrigerator, please observe the following recommendations.

To ensure air circulation, the unit should be kept at 2.5 cm away from **the rear wall and possible side walls. The clearance above the refrigerator should be at least 100 mm.**

Locate the unit away from direct sunlight. This will enable you to obtain the best performance and save energy.

It is important that the refrigerator is not subject to radiation of heat from a stove etc.

For best performance also at high ambient temperatures there must be a free air circulation over the cooling unit at the rear of the refrigerator.

The refrigerator is designed for a free-standing installation.

LP GAS CONNECTION

The refrigerator is designed for operation on LP gas, the pressure of which must be 37 mbar for Propane and 28 mbar for Butane. Check that this is stated on the dataplate.

The refrigerator is **not** designed for operation on town gas or natural gas.

CAUTION! CHECK THAT THE GAS SUPPLIED TO THE REFRIGERATOR IS AT THE PROPER PRESSURE. SEE THE PRESSURE REGULATOR ON THE LP GAS CONTAINER.

The gas installation and servicing should only be carried out by an authorized, qualified person and must conform to all relevant national and local regulations.

The gas supply pipe should be connected to the gas inlet of the gas control valve by means of a suitable threaded coupling.

In making the connection to the refrigerator, a union gas cock of an approved bottled-gas type must be incorporated in the supply line in a position which is readily accessible to the user. For eventual servicing purposes, the union should be on the outlet side of the cock and the pipework should be positioned so as not to prevent the refrigerator from being readily withdrawn.

Never check gas leaks with an open flame. Use an approved leak-detection solution.

240 V AC connection.

Check that the voltage stated on the data plate is the same as the mains voltage in use (240 V).

Plug the 240 V refrigerator power cord into an easily accessible earthed wall socket.

Electrical leads must be routed and secured so that they cannot come into contact with hot or sharp parts of the refrigerator.

12 V DC connection.

For 3 ways model, there is a terminal block in the rear bottom for 12VDC. You can ignore the positive and negative indication, simply connect the 12V DV power to the two terminals.

Never connect two power supplies at the same time.

OPERATING INSTRUCTIONS

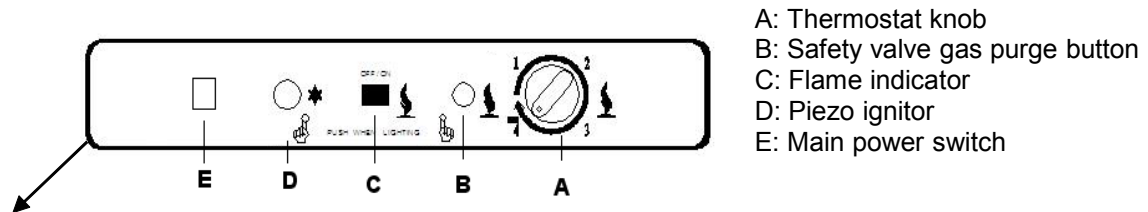


Fig 1

The refrigerator can be run on either 240 V or LP gas, or even 12VDC for some models. Changing between these modes of operation is carried out by means of control buttons positioned as shown in fig. 1.

The refrigerator temperature is controlled by a thermostat (A). Please note that the thermostat has no "off" position.

The refrigerator is fitted with a safety device which automatically shuts off the supply of gas if the flame goes out. The safety device can be opened manually by depressing knob (B).

In the flame indicator (C), you can see a blue light when the flame is alight.

The piezoelectric igniter discharges sparks over the burner when the button (D) is depressed.

The power switch (E) can be set at either **I** (= 240 V), or **0** (=Electricity power is off, while LP gas or 12VDC needs to be connected.). The Neon lamp inside will light when the electric power is on.

LP Gas operation

After initial installation, servicing, or changing gas cylinders etc., the gas pipes may contain some air which should be allowed to escape by briefly turning on the refrigerator. This will ensure that the flame lights immediately.

1. Make sure that all valves between the gas container and the refrigerator are open.
2. Turn off the power switch (E).
3. Depress the safety device control (B) and hold it down while depressing the piezoelectric igniter button (D) repeatedly.
4. Check the flame indicator (C) to see whether the flame is alight.
5. Keep the safety device control depressed for a further 10-15 seconds.
6. Release the safety device control and again check to see that the flame is alight.

To terminate gas operation, turn off the gas valve from the gas container.

240 VAC Operation

Make sure that the gas valve is turned off.

Plug the power cord to the power socket.

Turn on the power switch, see its neon lamp is on.

DC 12V Operation

If 240 VAC or LP gas is not available, the refrigerator can work with DC12V (3-Way models only).

You can connect the 12VDC power to the terminal block which is available in the rear bottom part of the refrigerator.

DC operation is not as efficient as LP Gas or AC operation. DC electric should not be used to initially cool the refrigerator. Only use DC when the other modes are unavailable (for example; while in transit).

REGULATING THE TEMPERATURE

The position number refers to fig. 1.

It will take several hours for the refrigerator to reach normal operating temperature.

The temperature of the main compartment of the refrigerator is controlled by a thermostat. The thermostat knob (A) should be set at 1-4. If a lower (colder) temperature is desired, set the thermostat to a higher figure.

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FOOD STORAGE

For best cooling performance, air must circulate within the fresh food compartment. Do not cover the shelves with paper, plastic, etc.

To reduce frost on the cooling fins, cover liquids and moist foods.

The door storage areas hold items such as 2-liter bottles, half-gallon milk cartons, pop cans, ketchup bottles, and other commonly used items.

Never keep items in the refrigerator which might give off flammable gases.

Never put bottles or cans of fizzy drinks in the frozen food storage compartment as they may burst when freezing.

DEFROSTING

Frost will gradually accumulate on the refrigerating surfaces. It must not be allowed to grow too thick as it acts as an insulation and adversely affects refrigerator performance.

Check the formation of frost regularly every week and when it gets about 3 mm thick, defrost the refrigerator. To defrost the refrigerator, turn it off and leave the door open.

Do not try to accelerate defrosting by using any kind of heating appliance, as this might damage the plastic surfaces of the refrigerator. Neither should any sharp objects be used to scrape off the ice.

The defrost water runs through the drainage pipe to a receptacle at the rear of the refrigerator where it evaporates.

Defrost water in the freezer compartment should be mopped up with a cloth.

When all ice has melted, wipe the refrigerator dry and restart it.

Place the food items back inside but wait until the refrigerator is cold before making ice cubes

CLEANING THE REFRIGERATOR

Warning: To avoid electric shock always unplug you absorption refrigerator before cleaning. Ignoring this warning may result in injury.

General: Do not use harsh chemicals, abrasives, ammonia, chlorine bleach, concentrated detergents, solvents or metal scouring pads. SOME of these chemicals may dissolve, damage and/or discolor your absorption refrigerator.

1) Remove the contents of the appliance

2) Wipe the inside and outside surfaces with a damp cloth. The addition of vinegar to the water is good for the prevention of mold and fungus.

3) Wipe all parts thoroughly after the cleaning.

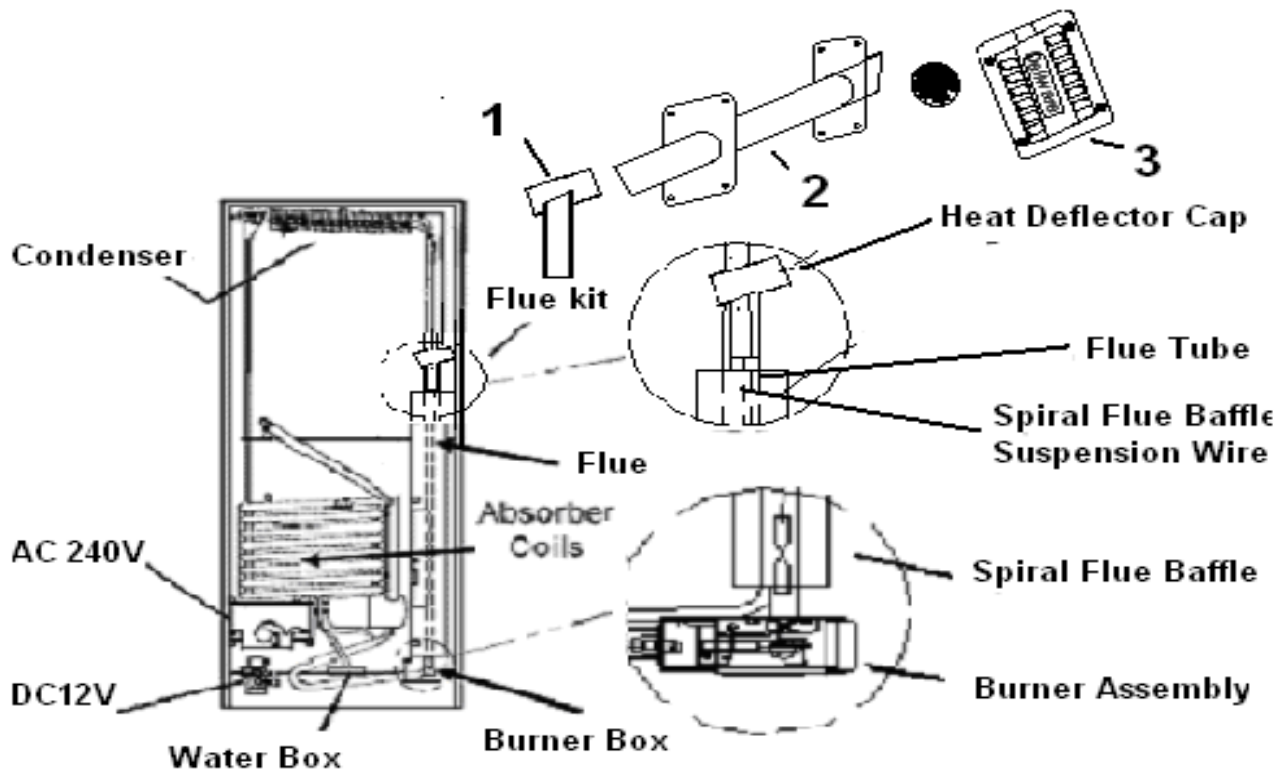
The cooling unit behind the refrigerator should be cleaned with a brush from time to time, but make sure that the refrigerator is switched off when doing this.

The entire unit must be left for drying completely after cleaning with damp cloth

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Procedure for Cleaning the Cooling System Flue

WARNING Carbon Monoxide can be hazardous to your health. Gas appliances may emit excessive Carbon Monoxide if the refrigerator's burner, burner orifice, and the flue tube are not regularly cleaned. To prevent Carbon Monoxide, the burner, burner orifice, and the cooling system's flue tube must be cleaned at least once a year and after all prolonged (seasonal) shut-down periods. Refer to the following cleaning procedures, or contact a qualified installer, your dealer.



1:Venturi T 2:Extension Pipe 3:External weather cover
Parts 1,2+3 make up the complete Flu Kit.Part No.10051

1. Remove the refrigerator from its enclosure.
2. Remove the heat deflector cap from the flue.
3. Remove the spiral flue baffle from the flue tube.
4. Using a stiff brush or fine emery cloth, clean the spiral flue baffle of debris.
5. Clean the inside of the flue tube with a flue brush. Inspect burner after cleaning.
6. Re-install the spiral flue baffle. Insure the spiral flue baffle is securely in place. The spiral flue baffle is required for efficient cooling while operating in the gas mode.

TURNING OFF THE REFRIGERATOR

If the refrigerator is not to be used for some time:

1. Shut off any valve in the gas line to the refrigerator.
2. Turn off the power switch.
3. Empty the refrigerator. Defrost and clean it as described above. It must be completely dry inside to avoid mold growth (if possible have the door open).

TROUBLE SHOOTING AND MAINTENANCE

If the refrigerator fails to work, Check the following points before calling a service technician:

1. That the above installation and operating instructions have been followed.
2. The refrigerator is level.
3. If it is possible to start the refrigerator on any of the connected sources of energy.
4. If the refrigerator fails to work on gas, check:

That the gas bottle is not empty.

That all LP-gas valves are open.

5. If the refrigerator fails to work on 240 V, check:

That the 240 V supply is connected to the refrigerator.

That the fuse is intact.

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If the refrigerator is not cold enough it may be because:

1. The ventilation of the cooling unit is inadequate.
2. The thermostat is set on the high position.
3. The doors are opened frequently, or the gasket is not sealed properly.
4. Too much food at one time.
5. The gas pressure is incorrect - check the pressure regulator at the gas container.

If the refrigerator still does not work properly, call a service technician.

The sealed cooling system must not be opened, since it contains corroding chemicals under high pressure.

MAINTENANCE

Inspect the gas hose periodically for cracks or deep chafing marks. Connections can be tested for leaks using a soap solution.

DO NOT USE AN OPEN FLAME!

If there is any suspicion of damage, call for a service technician.

We recommend that a service technician check the refrigerator once a year.

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LIMITED WARRANTY

As a condition to any warranty service obligation, the consumer must present the Warranty Certificate along with a copy of the original purchase invoice.

THIS WARRANTY DOES NOT COVER:

- 1) Damage, accidental or otherwise, to the absorption refrigerator while in the possession of a consumer not caused by a defect in material or workmanship.
- 2) Damage caused by consumer misuse, tampering, or failure to follow the care and special handling provisions in the instructions.
- 3) Damage to the finish of the case, or other appearance parts caused by wear
- 4) Damage caused by repairs or alterations of the absorption refrigerator by anyone other than those authorized by the manufacturer..
- 5) Freight and Insurance cost for the warranty service
- 6) Any labour costs incurred in disconnecting and removal of the refrigerator/freezer, and any travelling expenses involved to or from the service premises, must be borne by the owner.
- 7) Adjustment of gas pressure regulator.

This warranty excludes all or any expressed or implied warranties, guarantees, conditions and liabilities as to fitness or otherwise, and no person or persons, Companies or other are permitted to add to this warranty in any way whatsoever.

ALL WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY ARE LIMITED TO CLAIMED DURATION. THE MANUFACTURER DISCLAIMS ANY LIABILITY FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES