



INSTALLATION & OPERATING INSTRUCTIONS

FOR YOUR SAFETY

If you smell gas:

1. Open windows and door.
2. Don't touch electrical switches.
3. Extinguish any open flame.
4. Turn off the gas supply at the source.
5. Contact a qualified person.

FOR YOUR SAFETY

Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

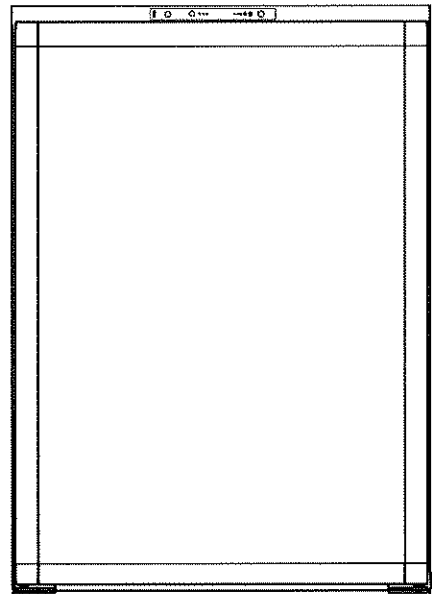
WARNING

Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to this manual. For assistance or additional information consult a qualified installer, service agency or the gas supplier.

RM2356

UES

Universal Energy Selection



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SYMBOLS

The following symbols are used throughout the manual:



Indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury.



Indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury.

INTRODUCTION

We are pleased that you have chosen this refrigerator and hope you will derive much satisfaction from using it.

The refrigerator is designed for storage of foods and storage of frozen foods and making ice.

The installation and servicing should only be carried out by an authorized/qualified person.

It is important to read through these instructions carefully before using the refrigerator. To ensure good refrigeration and economical operation, the refrigerator must be installed and used as described in these instructions.

Follow the instructions in this manual. The refrigerator is quality guaranteed. However, we are not responsible for any failures caused by improper adjustments and unfavourable installation conditions. Please contact service point or distributor service dept. for assistance.

DATA PLATE

Check the data plate, located inside the refrigerator, to ensure that you have received the right model and that it is suitable for the available gas supply and pressure.

Inlet Pressure: 2.75 kPa
Test Point Pressure: 2.70 kPa
Gas Type: Universal LPG
Nominal Gas Consumption: 1.10 MJ/H
Voltage: 230 - 240 volt

The data plate contains e. g. the following details:

Model designation

Product number

Serial number

Since these details will be needed if you have to contact service personnel, it is a good idea to make a note of them here.



Used without the safety alert symbol indicates, a potentially hazardous situation which, if not avoided may result in property damage.



Step-by-step instructions

INSTALLATION INSTRUCTIONS

GENERAL INFORMATION

The installation, servicing and gas installation must be performed by an authorised/qualified person. The refrigerator must be installed in accordance with the manufacturers installation instructions, local gas fitting regulations, municipal building codes, electrical wiring regulations, AS 5601 - Gas Installations' and any other statutory regulations.

PACKAGING

The packaging of this appliance is designed to withstand the transportation from the factory to the point where it will be installed in the recreational vehicle.

Before starting to install the appliance, please, make sure all parts of the packaging have been removed, so there will not be anything left that may come into contact with heat parts of the appliance or obstruct the combustion exhaust gases or the air movement around the cooling unit.

VENTILATION REQUIREMENTS

The installation shall be made in such a manner as to separate the combustion system from the living space of the mobile home or recreational vehicle. Proper installation requires one lower fresh air intake and one upper air outlet vent with a separate gas exhaust outlet.

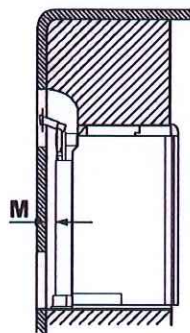
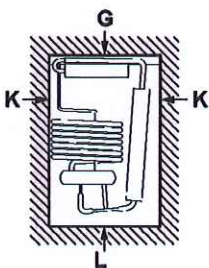
We recommend fitting the Dometic ventilation system, which is specially developed by Dometic for this purpose. The ventilation kits must be installed and used without modification.

An opening toward the outside at floor level in the refrigerator compartment must be provided for ventilation of heavier-than-air fuel gases. The lower vent of the recommended kits is provided with proper size openings. The flow of combustion and ventilating air must not be obstructed.

The lower side vent provides an adequate access opening for ready serviceability of the burner and control manifold of the refrigerator. This should be centred on the back of the refrigerator.

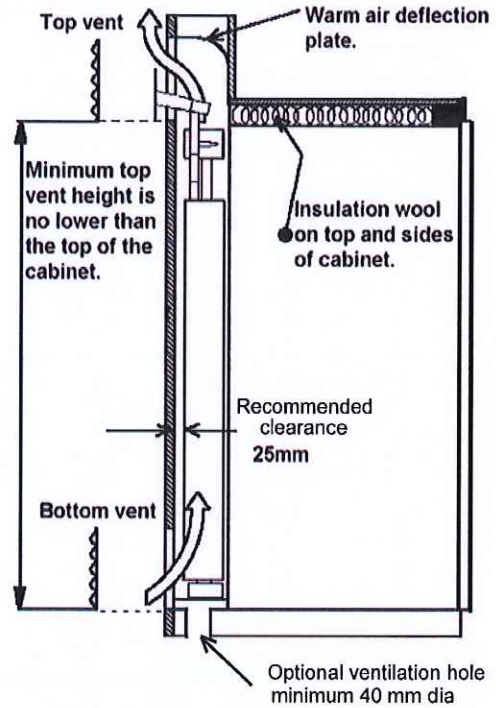
CLEARANCES

MINIMUM CLEARANCES TO COMBUSTIBLE MATERIAL			
Top	G	0 mm	
Side	K	0 mm	
Bottom	L	0 mm	
Rear	M'	25 mm	



If the lower grille is not at floor level where leaking gas can escape, a 40 mm hole to the outside should be made in the floor of the recess to drain any unburned gas to the outside. Fit the hole with wire mesh and an angled plate to protect it from stones, mud and vermin.

MINIMUM VENTILATION REQUIREMENTS



SUGGESTED VENTILATION SYSTEM (NOT INCLUDED)

Ventilation components are:

- 1 X AS1625 vent kit (Top & bottom vents with frames)
 - 1 X TP (Includes 1 x Tee piece & 1 x extension)
- extra extensions may be required depending on the height of refrigerator and vent height. Part number TPX



AS1625 vent kit



TP Kit

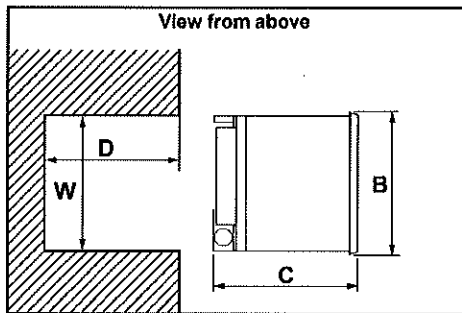
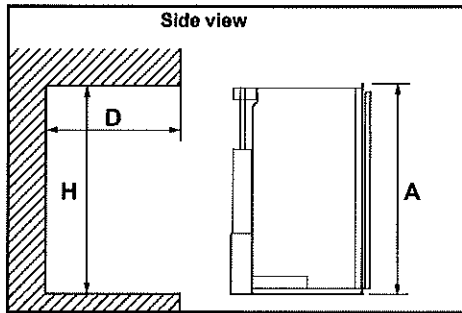


TPX Extension

DIMENSIONS

The following dimensions offer adequate space for service and proper installation.

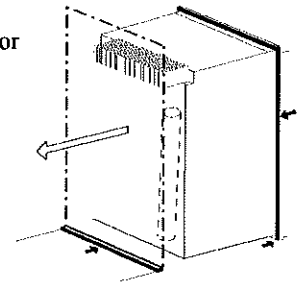
	OVERALL DIMENSIONS			RECESS DIMENSIONS		
	Height A	Width B	Depth C	Height H	Width W	Depth D
mm	766	556	577	756	521	542



INSTALLING THE REFRIGERATOR

- It is essential that all minimum dimensions are strictly maintained, as the performance of the refrigerator is dependent on adequate flow of air over the rear of the refrigerator. The refrigerator must be installed in a substantial enclosure and must be level, see "DIMENSIONS".
 - **Note!** Do not install the appliance directly on carpeting. Carpeting must be removed or protected by a metal or wood panel beneath the appliance, which extends at least full width and depth of the appliance.
 - Any space between the storage cabinet and top or sides of the refrigerator should be blocked or filled with insulation wool otherwise heat will become trapped in this space, making the top and side hot, thus reducing the efficiency of the unit. All areas within the recess in which the refrigerator is installed must be sealed.
- Make sure that there is a complete seal between the front frame of the refrigerator and the top, sides and bottom of the enclosure. A length of sealing strip is included on the rear surface of the front frame for this purpose.

- Apply a sealing strip (not included) to the foremost floor of the enclosure. The sealing should provide a complete isolation of the appliance's combustion system from the vehicle interior.

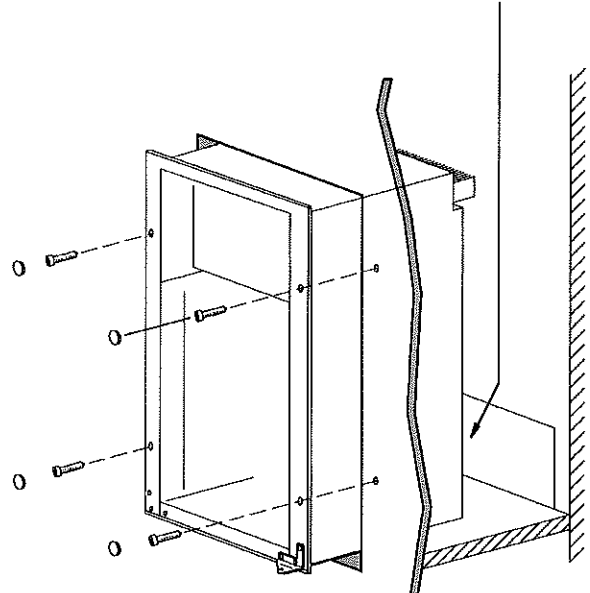


Note! Be careful not to damage the sealing strip when the refrigerator is put in place.

SECURING THE REFRIGERATOR

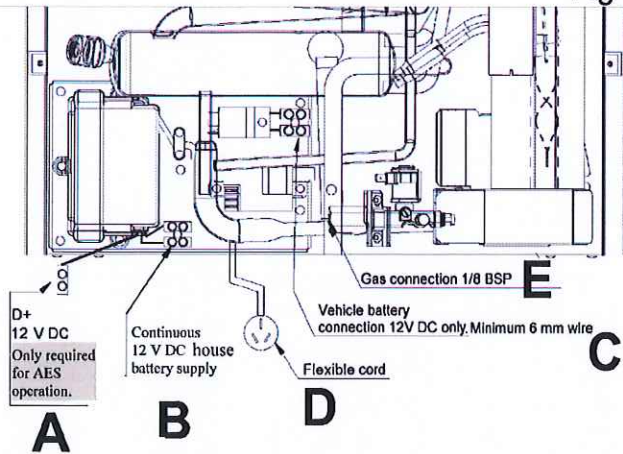
Failure to follow the sequence in securing refrigerator in enclosure can cause leakage between the frame and cabinet! After the refrigerator is put in place (ensuring a combustion seal at the front frame), the refrigerator is to be secured in the enclosure with four screws (not included).

Gas connection located at the lower rear of cabinet.



CONNECTIONS

Fig 2



The refrigerator is equipped with three 12 volt DC connections.

- A.** D+ Connection is required if the (AES) control option is preset. The D+ connection is not required if the (MES) control option is preset. (MES is the default mode)
If required this D+ connection must be connected to a 12 V positive DC output from the vehicle charging circuit.
- B.** Connection to permanent 12 volt DC house battery.
- C.** Connection to vehicle battery.
This connection supplies the 12 volt DC heating element.
- D.** AC (240) volt connection.
- E.** Universal gas connection.

UNIVERSAL LP GAS CONNECTION

The gas installation and servicing must be carried out by an authorised person and conform to all relevant local requirements.

The refrigerator is not designed for operation on town gas or natural gas but for operation on universal LP gas, the pressure of which must be 2,75 kPa. Check that this is stated on the data plate. The gas supply system must incorporate an approved gas pressure regulator to maintain a supply pressure of 2,75 kPa.

The supply pipe should be of copper. If other material is used it must be of a type approved for use with continuously operating bottle-gas appliances and have threaded connections throughout.

All connectors etc. should be of a type specifically designed for the type and diameter of the connection pipe used, and screwed joints should be sealed with a joining compound approved for use with bottle-gas.

The gas supply pipe should be connected to the gas valve at the bottom of the refrigerator, by means of a suitable threaded coupling.

The gas valve is furnished with an ISO 7/1 - Rp 1/8 internal pipe thread connection.

In making the connection to the refrigerator, a union gas cock of an approved bottle-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 positioned so as not to prevent the refrigerator from being readily withdrawn.

Before leaving, the installer should:

Check all connections for gas leaks with soap and water. **DO NOT** use a naked flame for detecting leaks! Ignite the burner to ensure correct operation of the controller, burner and ignition. Instruct the user on the correct method of operation. In case the appliance fails to operate correctly after all checks have been carried out, contact the authorised service provider in your area.

ELECTRICAL CONNECTION

The electrical installation must be carried out in a proper and durable manner, taking into account all relevant regulations and codes of practice.

For mains voltage operation, it is important that the circuit to and in the caravan is effectively earthed.

The refrigerator is equipped with a three-prong (grounding) plug for your protection against shock hazards and should be plugged directly into a properly grounded three-prong socket. **Note!** Do not cut or remove the grounding prong from this plug.

The free length of the cord is 6 ft. (1,8 m). It is recommended the socket be placed on the left side of the refrigerator (viewed from the rear) and approximately 4-6 inches (100-150 mm) from the floor. This will allow easy accessibility through the vent door.

230-240 V supplies

Check that the voltage stated on the data plate is the same as the main voltage in use (230-240 V). Plug the 230-240 V refrigerator power cord into an easily accessible wall socket.

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

DC CONNECTION

12 Volts DC Supplies

The connections are made to the terminal blocks marked 12 volts DC house battery, and 12 volt vehicle battery battery connection.

To avoid a voltage drop, the cross sectional area of the connecting wires between the vehicle battery and the refrigerator must be at least 6 mm².

To ensure safe operation, the positive lead must be fitted with a fuse rated at 20 amps.

The cross section of the 12 volt DC wires between the continuous 12 volt DC house battery terminal and the battery can be 1.5 mm². The positive lead must be fitted with a fuse rated at 15 amps.

Correct polarity must be observed when connecting to the 12 V DC supply.

Note! Do not use the body or chassis of the vehicle as a substitute for either of the two conductors. Electrical leads must be routed and secured so that they cannot come into contact with hot or sharp parts of the refrigerator.

Do not connect any other electrical equipment or lighting to the refrigerator circuit.

CHANGING DOOR SWING TO OPPOSITE SIDE

(Requires opposite hinge kit)

- Remove the top hinge pin and lift out the door, save the pin.
- Remove the lower hinge pin, save the pin.
- Remove the lower hinge corner bracket and save 3 screws, discard the bracket.
- Use the 3 screws to fit the opposite lower corner plate.
- Use the 3 plastic cover plugs to fill the vacant screw holes.
- Fit the lower hinge pin.
- Remove the travel catch on the upper hinge bracket, and fit it to the opposite side.
- Remove the top plastic hinge bushing, and save.
- Remove the screw and top corner catch of the door, use the screw to fit the new door corner catch to the opposite side.
- Press the plastic hinge bushing into the door.
- Put the door on the lower hinge pin and close the door, the door gasket keeps the door in position.
- Replace the top hinge pin.
- Check the travel catch to make sure it works properly and that the door closes easily, and the gasket seals well on all sides.

INSTRUCTIONS FOR MOUNTING THE DOOR PANEL

The refrigerator is normally delivered without door panel.

Before starting the mounting work, check that the panel dimensions are in compliance with those given in the Table and the instructions are read thoroughly.

We recommend to mount the panel on the door before the refrigerator is installed in the enclosure.

When mounting the panel, proceed as follows:

- Remove the screws from the top door cover strip and remove the cover strip by pulling straight upwards.
- Slide the panel from the top of the door into the grooves on the vertical edges of the door sliding downwards until the panel fits into the lower door edge.
- Replace the top decoration strip and fasten with the 3 screws.

PANEL DIMENSIONS				
MAX. THICKNESS (4 mm)				
REFR. MODEL TYPE	HEIGHT		WIDTH	
	MAX.	MIN.	MAX.	MIN.
RM2356 mm	710	708	498	496

REFRIGERATOR REMOVAL



1. Before working on the refrigerator, make sure the 230- 240 V AC voltage and 12 V DC voltage leads are disconnected.
2. Shut off the gas supply at the ULP gas bottle
3. Disconnect the gas supply line.
Always use a back up wrench when loosening and tightening connections.
4. Cap the gas supply line, loosen the screws anchoring the refrigerator to the enclosure and slide the refrigerator out of the compartment.
5. When replacing the refrigerator make sure that the sealing strips are properly positioned.
6. Replacement is the reverse of removal. Check all connections for gas leaks.

OPERATING INSTRUCTIONS

UNIVERSAL ENERGY SELECTION

IMPORTANT. 12 volt must always be available to supply the control electronics.

This refrigerator is provided with a dual function control system. This refrigerator can be installed and preset to function as an MES (Manual Energy Selection) refrigerator or an AES (Automatic Energy Selection) refrigerator.

When set in MES function, the MES lamp will be lit. While operating in MES function the refrigerator must be manually changed from one fuel to another as required by pressing the Mode button (2) in Fig 1

Each time the Mode button is pressed the fuel selection will move between Gas, 240V AC, and 12 V DC.

Important while operating on 12 V DC it is highly recommended the vehicle engine is running. Operating the refrigerator on 12 V DC will quickly drain the 12 volt battery, therefore the vehicle engine should be running to keep the battery charged.

To operate in AES function (Automatic Energy Selection) the refrigerator must be pre set by the installer. When installed in AES function the AES lamp will be lit on start up. Note the refrigerator can not operate on AES and MES function at the same time.

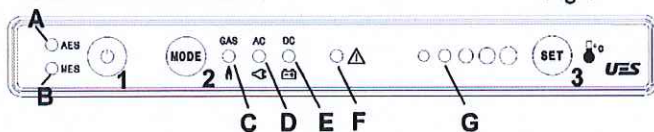
When set to operate in AES function the refrigerator must be connected via the special D+ connection at the rear of the refrigerator to the DC charging system of the vehicle.

More information is available at www.dometicrvcentre.com.au

The refrigerator can not operate fully in AES function unless the D+ connection has been pre installed by the the installer.

CONTROL PANEL

Fig 1



1. ON/OFF Main power button. Press and hold in for 3 seconds to turn on or off.
2. Mode Button. Press to select fuel source when MES light (B) is lit. Press to select Gas or AES mode when AES light is lit.
3. Temperature selection press to adjust temperature.

- A. AES function indicator lamp.
- B. MES function indicator lamp.
- C. Gas operation indicator lamp.
- D. AC operation indicator lamp.
- E. DC operation indicator lamp.
- F. Warning indicator lamp (gas failure)
- G. Temperature indicator lamps.

Changing between MES & AES function

Changing from MES to AES function and back again can be done at any time, however to use AES function fully the refrigerator must be connected via a D+ wire found on the back of the refrigerator to the vehicle battery charging system.

The differences between MES and AES functions should be fully understood before changing the function.

(See Page 8 for details)

IMPORTANT ! FOR THE INSTALLER

This refrigerator has dual function and may be pre set to the intended function before installation.

1. MES operation (Manual Energy Selection) is the default setting. MES lamp will be lit at start up.
2. AES operation (Automatic Energy Selection) is optional. If AES function is required it must be pre set during installation. AES function requires the D+ wire on back of refrigerator to be connected to vehicle charging circuit. Once set (see step 4), the AES lamp will be lit at start up.
3. Connect 12 V DC to the control circuit. Press and hold (ON/OFF) button for 3 seconds to start the refrigerator. MES lamp will remain on.
4. To change the operating function to AES or back to MES.



Press and hold (ON/OFF) and the (SET) buttons in simultaneously for 4 seconds. Control system will move to AES function, AES lamp will be lit (MES off). Repeat this process to move the system back to MES function MES lamp will be lit (AES lamp off).

OPERATING INSTRUCTIONS (MES)

1. Press and hold the ON/OFF button (1) in for 3 seconds to start or stop the refrigerator. The MES lamp will be lit.
2. With the MES lamp lit press the Mode button (2) to toggle between GAS - AC (240V) - DC (12V) energy source as required.
3. Press the Set button (3) to select the temperature required, larger LED is cooler.

OPERATING INSTRUCTIONS (AES)

(Requires system to be preset to AES function)

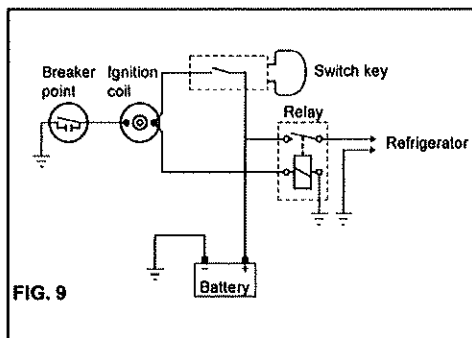
1. Press and hold the ON/OFF button (1) in for 3 seconds to start or stop the refrigerator. The AES lamp will be lit.
2. With the AES lamp lit the control will automatically select the optimum available energy source, with the default to AC (240V) if connected.
3. If Gas operation only is preferred press the Mode button (2) once GAS lamp will be lit AES lamp off. Press the button again to return to AES.
4. Press the Set button (3) to select the temperature required, larger LED is cooler.

IMPORTANT

MES operation on 12 volt DC

! CAUTION

Do NOT operate the refrigerator on 12 volt when the vehicle is parked. The amperage draw of the 12-volt DC heating element can discharge a battery in a very short time. The installation of a 12-volt DC operated refrigerator requires a relay to be installed on the tow vehicle or in the caravan. The relay will automatically shut off the 12 volt DC power to the refrigerator when the ignition is turned off. (See fig. 9).



SWITCHING BETWEEN ENERGY SOURCES

When switching from one energy source to another, there are some delays implemented in the AES function. The 15 min. delay between switching off the engine and starting gas mode is intended to delay the starting of gas mode e.g. when stopping at a filling station.

! WARNING

It is not allowed to have a naked flame at a gas filling station. If you are not sure, that your stop is shorter than 15 min., you are advised to set the ON/OFF switch (1) to "OFF", when stopping at a filling station.

ABNORMAL OPERATION

Any of the following are considered to be abnormal operation and may require servicing:

- Yellow tipping of the burner flame.
- Sooting up area surrounding burner.
- Burner not igniting properly.
- Burner failing to remain alight.

In case the appliance fails to operate correctly, contact an authorised Dometic service Centre.

CHANGING BETWEEN MES & AES FUNCTION


The control system function can be set in one of two functions. (MES) Manual Energy Selection the default setting out of the box or (AES) Automatic Energy Selection.

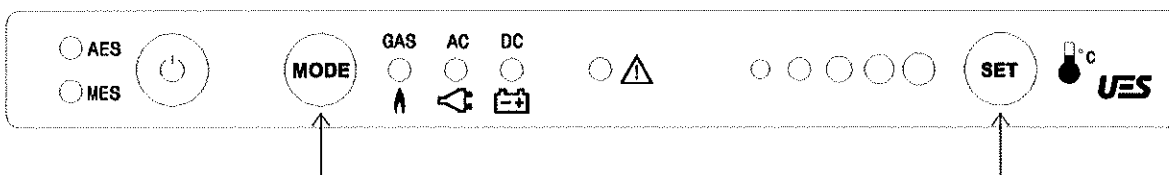
The control function can be changed from one to the other in the following way.



Note: The D+ wire connection must be connected to operate fully in AES function. The MES function will operate with or without the D+ wire connection.

IMPORTANT ! FOR THE INSTALLER

This refrigerator has dual function and may be pre set to the required function (MES) or (AES) function during or after the installation.

1. MES operation (Manual Energy Selection) is the default setting. MES lamp will be lit at start up.
2. AES operation (Automatic Energy Selection) is optional. If AES function is required it must be pre set during installation. AES function requires the D+ wire on back of refrigerator to be connected to vehicle charging circuit. Once set (see step 4), the AES lamp will be lit at start up.
3. Connect 12 V DC to the control circuit. Press and hold  button for 3 seconds to start the refrigerator MES lamp will remain on.
4. To change the operating function to AES or back to MES.



Press and hold  and the  buttons in simultaneously for 4 seconds. Control system will move to AES function, AES lamp will be lit (MES off). Repeat this process to move the system back to MES function MES lamp will be lit (AES lamp off).

ABSORPTION REFRIGERATOR SYSTEM

In an absorption refrigerator system, ammonia is liquefied in the finned condenser coil at the top rear of the refrigerator. The liquid ammonia then flows into the evaporator (inside the freezer section) and is exposed to a circulating flow of hydrogen gas, which causes the ammonia to evaporate, creating a cold condition in the freezer.

The tubing in the evaporator section is specifically sloped to provide a continuous movement of liquid ammonia, flowing downward by gravity through this section.

If the refrigerator is operated when it is not level and the vehicle is not moving, liquid ammonia will accumulate in sections of the evaporator tubing. This will slow the circulation of hydrogen and ammonia gas, or in severe cases, completely block it, resulting in a loss of cooling.

Note! Any time the vehicle is parked for several hours with the refrigerator operating, the vehicle must be levelled to prevent this loss of cooling.



When the vehicle is moving, the levelling is not critical, as the rolling and pitching movement of the vehicle will pass to either side of level, keeping the liquid ammonia from accumulating in the evaporator tubing.

WARNING

The sealed cooling system must not be opened.
It contains corroding chemicals under high pressure.

Sodium chromate is used for corrosion protection (less than 2 weight % of the coolant).

TURNING OFF THE REFRIGERATOR

 To shut off the refrigerator press and hold the  button for 3 seconds. All indicator lights will go out.

If the refrigerator will not be in operation for a period of weeks, it should be emptied, defrosted, cleaned and the door left ajar. Use the travel catch to hold in this position. The ice tray should also be dried and kept outside the cabinet.

STORAGE COMPARTMENTS

WARNING

Do not store explosive substances in the refrigerator, such as cigarette lighter gas, gasoline, ether or the like.

FOOD STORAGE COMPARTMENT

The food storage compartment is completely closed and unventilated, which is necessary to maintain the required low temperature for food storage. Consequently, foods having a strong odour or those that absorb odours easily should be covered. Vegetables, salads etc. should be covered to retain their crispness.


The coldest positions in the refrigerator are under the cooling fins and at the bottom of the refrigerator. The warmer areas are on the upper door shelves. This should be considered when placing different types of food in the refrigerator.

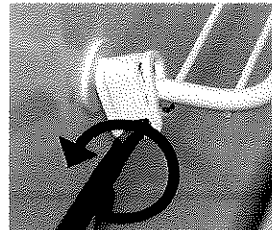
FROZEN FOOD STORAGE COMPARTMENT

Quick frozen soft fruits and ice cream should be placed in the coldest part of the compartment, which is at the bottom of the aluminium liner. Frozen vegetables, may be stored in any part of the compartment. This compartment is not designed for deep or quickfreezing of food. Meat or fish, whether raw or prepared, can be stored in the frozen food storage compartment provided they are precooled first in the refrigerator. They can be stored about three times longer in the frozen food compartment as compared to the fresh food compartment. To prevent food from drying out, keep it in covered dishes, containers, plastic bags or wrapped in aluminium foil.

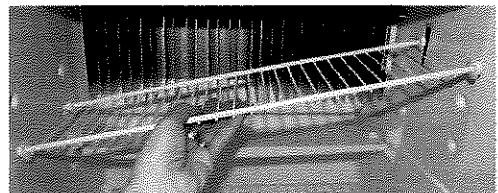
Ice cubes can be made in the freezer compartment. For faster ice making, the tray should be placed in direct contact with the bottom of the freezer compartment. Ice making is accelerated if the temperature control is turned to the coldest setting. It is a good idea to do this a few hours before the anticipated need for ice, but be sure to turn the thermostat back to normal setting, usually about mid-setting when the ice is formed. Food in the lower compartment may be frozen if the setting is left on the coldest setting.

REMOVING AND REPLACING THE SHELVES

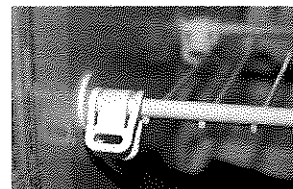
-  1. Remove the shelf locks by inserting the tip of a flat bladed screwdriver into the slot of the locks. Turn the screwdriver counterclockwise and then remove the shelf locks from the wire shelf.



2. Tilt the shelf to one side at an angle while pulling forward.




3. Reposition the shelf in the desired location. Insert the ends of the wire shelf on the left-hand side and slide the shelf into the holes on the right-hand side.
4. Slide the plastic plugs into the holes of the wall.
5. Snap the shelf locks onto the wire shelf.



PRODUCT CARE

DEFROSTING

1. Shut off the refrigerator by pressing and holding the  button for 3 seconds, all indicator light will be off.
2. Empty the refrigerator, leaving the drip tray under the finned evaporator.
3. Leave the cabinet and freezer doors open. Filling the ice tray with hot water and placing it on the freezer shelf can reduce defrosting time.

Defrost water

Defrost water collects in the drip tray and is routed to the outside through the drain tube which should be installed through the floor.

CAUTION

Do not use:

- A knife or an ice pick, or other sharp tools to remove frost from the freezer shelves. It can create a leak in the ammonia system.
- A hot air blower. Permanent damage could result from warping the metal or plastic parts.

4. When the ice has melted, dry the interior of the refrigerator with a clean cloth.
5. Ensure the drip tray is in its original position and connect the draining tube.
6. Replace all food and set the thermostat to "MAX" for a few hours. Then reset the thermostat to the desired setting, usually at mid-setting.

CLEANING THE REFRIGERATOR

Always keep the refrigerator clean. Cleaning the refrigerator is usually done after it is defrosted or put into storage. To clean the interior liner of the refrigerator, use lukewarm weak soda solution. Use only warm water to clean the finned evaporator, gasket, ice tray and shelves.

Note! Never use strong chemicals or abrasives to clean these parts, as the protective surfaces will be damaged.

It is important to keep the area at the back of the refrigerator clean. Check the lower vent, upper vent and area between these openings for any obstructions such as bird/insect nests, spider webs, etc. Clean the coils on the back of the refrigerator. Use a soft bristled brush to dust off the coils. Keep the refrigerator area free from combustible material, gasoline and other flammable vapours or liquids.

MAINTENANCE & SERVICE

Service and maintenance must be done on a regular schedule to keep the refrigerator operating properly, efficiently and safely. The service should only be performed by an authorised person.

This appliance must be serviced by an authorised person. We recommend that an authorised service technician checks the refrigerator once a year. The "Installation and operating installations manual" should always be available.

Ensure the gas safety shut-off valve is working properly. Make sure that the ventilation openings are unobstructed. See to it that the burner is clean and free from combustible material. All connections in the LP gas system should be checked for gas leaks. Connections can be tested for leaks using a soap solution. **Do not use a naked flame!** If there is any suspicion of damage, call for an authorised service technician.

SERVICE AND SPARE PARTS

Service and spare parts are obtainable from your dealer or Dometic - consult the telephone directory.

REPLACING THE HEATER

The refrigerator is equipped with two electrical heaters, one for 230-240 VAC and one for 12 V DC.

To replace the heater proceed as follows:

1. Unplug the refrigerator power cord from the 230-240 volt AC outlet. Disconnect the 12 V DC power to the refrigerator.
2. Remove the refrigerator from the enclosure.
3. Disconnect the heater leads at the top of the refrigerator.
4. With a pair of pliers, unfold the lug holding the lid of the boiler casing and open the lid.
5. Remove some insulation wool so that the heater is accessible.
6. Turn and lift the heater out of its pocket.
7. Fit the new heater into the pocket.
8. Reconnect the heater leads at the top.
9. Put back the insulation and close the lid of the boiler.
10. Reinstall the refrigerator in the enclosure.
11. Check all connections for gas leaks.
12. A qualified gas fitter should be employed
13. Connect 230-240V power cord to the outlet
14. Reconnect or turn on the 12 V DC power.

PERIODIC MAINTENANCE

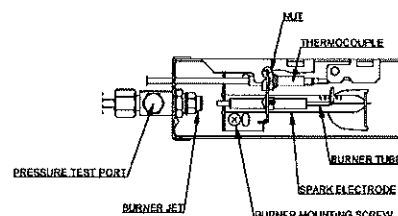
This work should be made by a qualified service man.

CHECKING THE CONNECTIONS

Check all connections in the ULP gas system (at the back of the refrigerator) for gas leaks. The ULP gas supply must be turned on. Apply a non-corrosive bubble solution to all ULP gas connections. The appearance of bubbles indicates a leak and should be repaired immediately by a qualified gas fitter

CHECKING THE ULP GAS PRESSURE

The ULP gas pressure should be checked and the main regulator readjusted if pressure is incorrect. The correct operating pressure is 2,7 kPa. The correct place to measure the ULP gas pressure is at the test port just ahead of the burner jet.



CLEANING THE FLUE AND BURNER

Maintenance work should be made by a qualified service man.

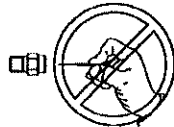
Inspect the flue baffle. It should be reasonably clean and free of soot. Heavy soot formation indicates improper functioning of the burner.

The flue and burner both require cleaning in the following manner:

1. Unplug the refrigerator power cord from the 230-240 V AC outlet. Disconnect or shut off the 12 V DC power to the refrigerator.
2. Close the gas valve at the gas bottle and at the refrigerator.
3. Remove cover from the burner housing.
4. Disconnect the wire from the high voltage electrode.
5. Remove the burner mounting screw and remove the burner assembly.
6. Lift out the wire and flue baffle from the top of flue tube.
7. Clean the flue from the top using a flue brush. Blowing compressed air into the flue will not properly clean soot and scale out of the flue tube.
8. Replace the flue baffle.
9. Clean burner tube with a brush. Blow out burner with compressed air.

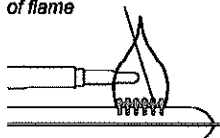
⚠ WARNING

Do not use a wire or pin when cleaning the burner jet as damage can occur to the precision opening. This can cause damage to the refrigerator or create a fire hazard.

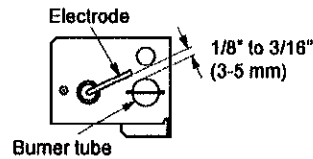


10. Before removing burner jet, clean burner area of soot and scale that fell out of flue tube.
11. Remove the burner jet. Soak the jet in wood alcohol and blow out with compressed air. Reinstall and tighten burner jet.
12. Reinstall burner, being careful that the end of the burner fits into the slot on the burner bracket.
13. Check to make sure the slots are centred under the flue tube and that the thermocouple is positioned properly (tip of thermocouple extends over two slots of burner). Note that the colour of the flame should be clear blue over the slots of the burner.

Clear blue colour
of flame



14. Be sure to reconnect the wire to high voltage electrode. Check the electrode for proper location and gap.



15. Open the gas valve at the bottle and at the refrigerator.
16. Check all fittings for leaks with soapy water.
17. Connect 230-240 volt power cord to the outlet and reconnect the 12 V DC power.
18. Check ULP gas safety shutoff.

TROUBLESHOOTING

REFRIGERATOR DOES NOT COOL PROPERLY

- Burner jet clogged.
- Check level of refrigerator.
- Venting problem.
- Heavy frost buildup on evaporator fins.
- Flue baffle not inserted properly in flue tube.
- Improperly set thermostat.
- Burner dirty.
- ULP gas pressure low at burner.
(Set main regulator so pressure does not drop below 2,7 kPa at pressure tap.)
- Burner not located properly under flue tube.
- Burner damaged.

FREEZER TEMPERATURE TOO WARM DURING COLD WEATHER

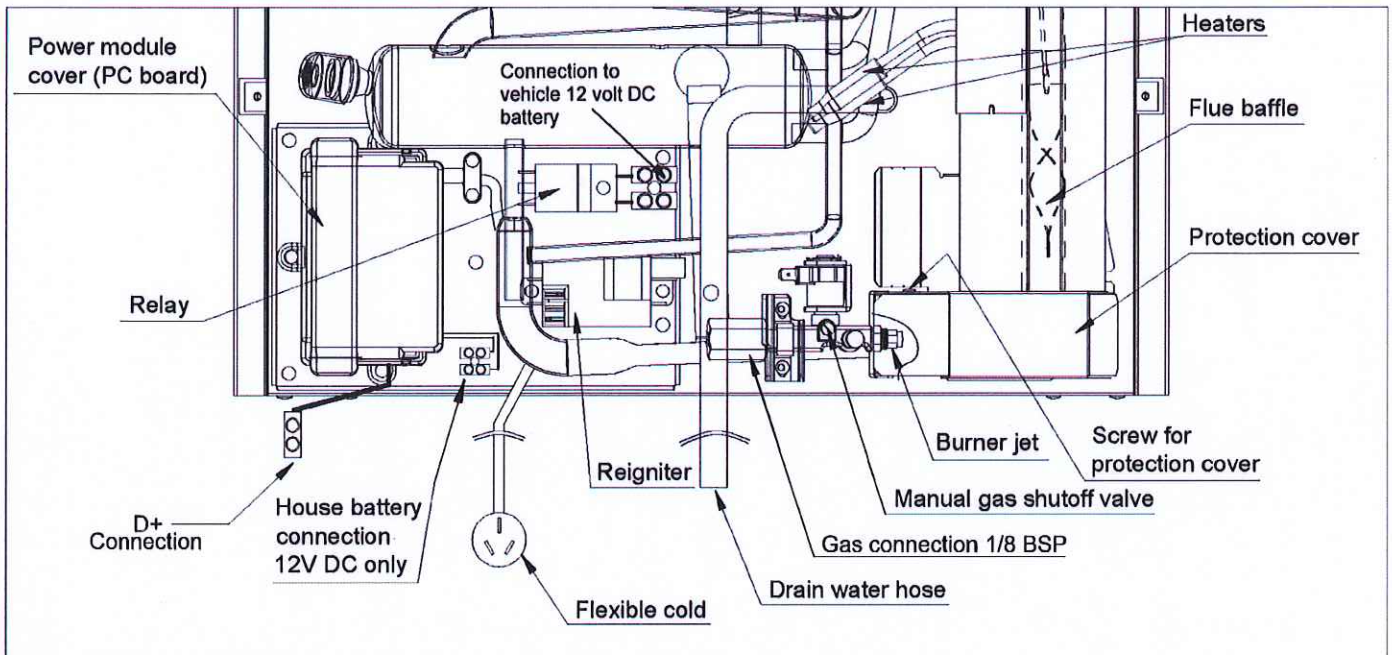
- Change the fresh food area temperature to a colder setting.

ODOUR FROM FUMES

- Dislocated burner
- Damaged burner
- Dirty flue tube

APPENDIX

REARVIEW EQUIPMENT



WIRING DIAGRAM

