Dometic

Operating Instructions

ABSORPTION-REFRIGERATOR for RECREATIONAL VEHICLES

RM 7390 (L)



EN **OPERATING INSTRUCTIONS / INSTALLATION INSTRUCTIONS** ABSORPTION REFRIGERATOR

CE e 1

Type C40 / 110

Please state for future reference :

Model number	.....
Product number	.....
Serial number	.....

T.B. MB 05/2006

English

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Information Environmental Advice Attention Warning

Customer Service



Safety instructions

Instructions for storing food in a refrigerator:

No refrigerator of any kind can improve the quality of the food; refrigerators can only maintain the food's quality for a short duration as from the time of storing it.
Please observe the following particular conditions for storing food in a refrigerator that is built into a vehicle:
- A change in the climatic conditions such as temperature fluctuations
- High temperatures inside the vehicle when it is closed and parked in direct sunlight (temperatures are possible up to 50°C)
- Use of the refrigerator whilst travelling with the power supply of 12V--DC
- A refrigerator built in behind a window and exposed to direct sunlight
- Storing the goods too soon, i.e. shortly after switching the device on for use

Under these particular conditions the refrigerator cannot guarantee having the temperature needed for food that perishes quickly.
Foods that perish quickly include: all the products with a stipulated use-by date and a minimum storage temperature of +4°C or less, especially for meat, poultry, fish, sausage, pre-packed foods.

Instructions

- Pack raw and cooked foods separately (e.g. in containers, aluminium foil, etc.)
- Only remove the outside packaging of single packs if all the necessary data, such as the use-by date, for example, can also be read on the single packs.
- Do not leave cooled goods outside the refrigerator for too long.
- Place the foods with the next use-by date at the front, accordingly.
- Pack away any left-over food again and eat at the first opportunity.
- Wash your hands before and after touching any food.
- Clean the inside of the refrigerator at regular intervals.

Information :
Please observe the instructions and information regarding the use-by date on the outside packaging of the food.

Please observe the following sections in these instructions: "5.1 Cleaning" and "5.3 Storing food".

These operating instructions should be kept in a safe place.
If this device is passed on, please include these operating instructions with it.

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1.0 INTRODUCTION

You have made an excellent choice in selecting the **Dometic** Absorption Refrigerator. We are sure that you will be fully satisfied with your new appliance in all respects.

The appliance, which works silently, meets high quality standards and guarantees the efficient utilisation of resources and energy throughout its entire life cycle, during manufacture, in use and when being disposed of.

Before you start to use the appliance, please read the installation and operating instructions carefully.
The refrigerator is designed for installation in leisure vehicles such as caravans or motorcaravans. The appliance has been certified for this application in accordance with EU Gas Directive 90/396/EEC.

2.0 FOR YOUR SAFETY

2.1 ⚠ △ Warning and safety notices



• Never use a naked flame to check the appliance for leaks.

- **Protect children!**
  When disposing of the refrigerator, remove all refrigerator doors and leave the storage rack in the refrigerator. This will prevent accidental locking in or suffocation.
- If you smell gas:
  - close the locking tap of the gas supply and the valve on the cylinder.
  - open the windows and leave the room.
  - do not switch on anything electrical.
  - extinguish naked flames.
- Never open the cooling unit; it is under high pressure.
- **Work on the gas, flue system and electrical components must only be carried out by <u>qualified service personnel.</u>**
- It is imperative that the operating pressure should correspond to the data given on the model plate of the appliance.
- Compare the operating pressure data given on the model plate with the data on the pressure monitor of the liquid gas cylinder.
- Liquid gas cylinders may only be changed by qualified personnel.
- Gas operation of the appliance is not permitted while travelling on ferries.
- Covers ensure electrical safety and must only be removed using a tool.
- The appliance must not be exposed to rain.
- **The refrigerator is not suitable for the proper storage of medications.**

2.2 Coolant

Ammonia is used as a coolant.
This is a natural compound also used in household cleaning agents (1 litre of Salmiak cleaner contains up to 200g of ammonia - about twice as much as is used in the refrigerator). Sodium chromate is used for corrosion protection (1.8% of the solvent).
In the event of leakage (easily identifiable from the unpleasant odour):

- switch off the appliance.
- air the room thoroughly.
- inform the authorised Customer Service department.

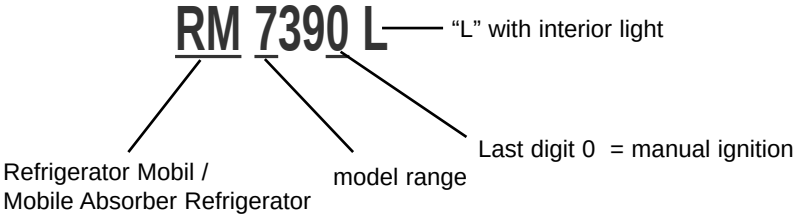
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3.0 WARRANTY AND CUSTOMER SERVICE

Warranty arrangements are in accordance with EC Directive 44/1999/CE and the normal conditions applicable for the country concerned. For warranty or other servicing, please contact our Dometic Service department. Any damage due to improper use is not covered by the warranty. The warranty does not cover any modifications to the appliance or the use of non-original Dometic parts;
the warranty does not apply if the installation and operating instructions are not adhered to and no liability shall be entertained. Parts can be ordered throughout Europe from our Dometic Service department. Your Service Centre contact numbers numbers are found in the “European Service Network” booklet

When contacting Dometic Service, please state the model and product numbers, the serial numbers together with the MLC Code, if applicable. You will find this information on the data plate inside the refrigerator.

4.0 DESCRIPTION OF MODEL



5.0 REFRIGERATOR GUIDE

5.1 Cleaning

Before using the refrigerator, it is advisable to clean the appliance both inside and out, and repeat this at regular intervals.
- Use a soft cloth and lukewarm water with a mild detergent.
- Then rinse the appliance with clean water and dry thoroughly.
- Remove dust from the refrigerator unit at yearly intervals using a brush or soft cloth.

△ Attention

To avoid deterioration of materials:

- Do not use soap or hard, abrasive or soda-based cleaning agents.
- Do not allow the door seal to come into contact with oil or grease.

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5.2 Using the refrigerator

- The cooling unit is silent in operation.
- When the appliance is first put into operation, there may be a mild odour which will disappear after a few hours. Ensure the living area is well ventilated.
- The freezer compartment should be cold about one hour after switching on the refrigerator.
- The refrigerator will take several hours to reach its operating temperature.

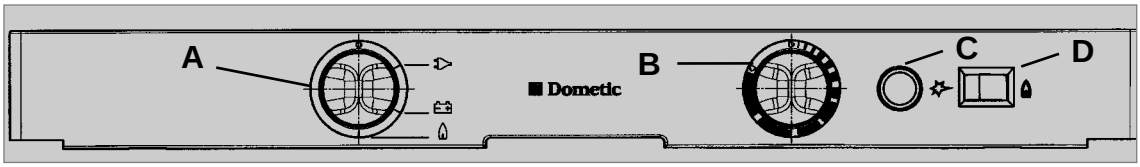
5.2.1 Controls

Manual Ignition with “Piezo igniter”



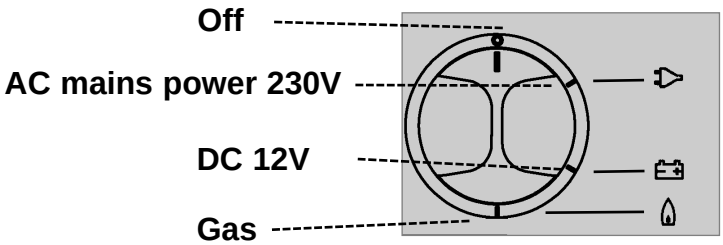
A = energy selector switch
B = gas/electric thermostat
C = manual ignition push button (Piezo igniter)

Manual Ignition wirth “battery igniter”



A = energy selector switch
B = gas/electric thermostat
C = manual ignition button (battery powered igniter)
D = flame indicator device (galvanometer)

Note:
The refrigerator is equipped to operate off mains power, DC or liquid gas.
The desired power option is selected by means of energy selector switch (**A**)
Energy selector switch (**A**) has four settings:
AC mains power (**230V**), DC (**12V**), liquid gas , Off (**O**).



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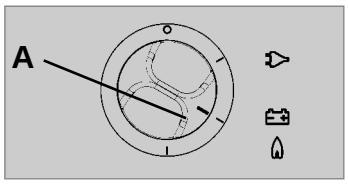
5.2.2 Electrical operation

1. 12V DC

The refrigerator should only be used while the motor is running.

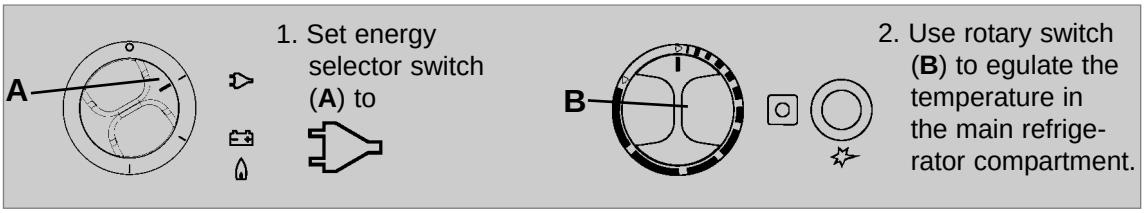
Set energy selector switch (**A**) to

The refrigerator operates without thermostatic control (continuous operation).



2. Mains power

This option should only be selected where the supply voltage of the connection for power supply corresponds to the value specified on the data plate. Any difference in values may result in damage the appliance.



5.2.3 Gas operation

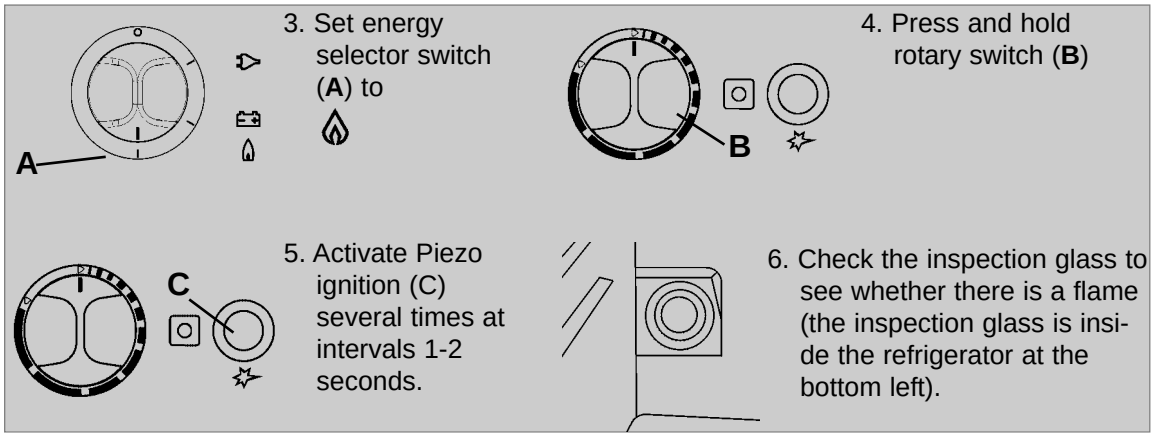
- **The refrigerator should only be operated using liquid gas (Propane, Butane). Do not use Autogas, town gas or natural gas.**
- **If the refrigerator is operated during travel using gas, the precautions stipulated by the legislation in the respective country must be taken (in conformity with the European standard EN 732).**
- **Due to physical reasons, ignition faults could occur starting from an altitude above sea level of approx. 1000 m /3280 ft. (No malfunction!)**
- **As a basic rule, operation using gas is prohibited in petrol stations.**

All refrigerators, whether manual or automatic ignition, are equipped with automatic flame protection, which automatically cuts off the supply of gas approximately 30 seconds after the flame goes out.
When using for the first time, and after changing the gas cylinder, the gas pipes may contain air. By means of brief operation of the refrigerator and any other gas appliances (e.g. cookers), air is removed from the gas pipes. The gas will ignite without delay

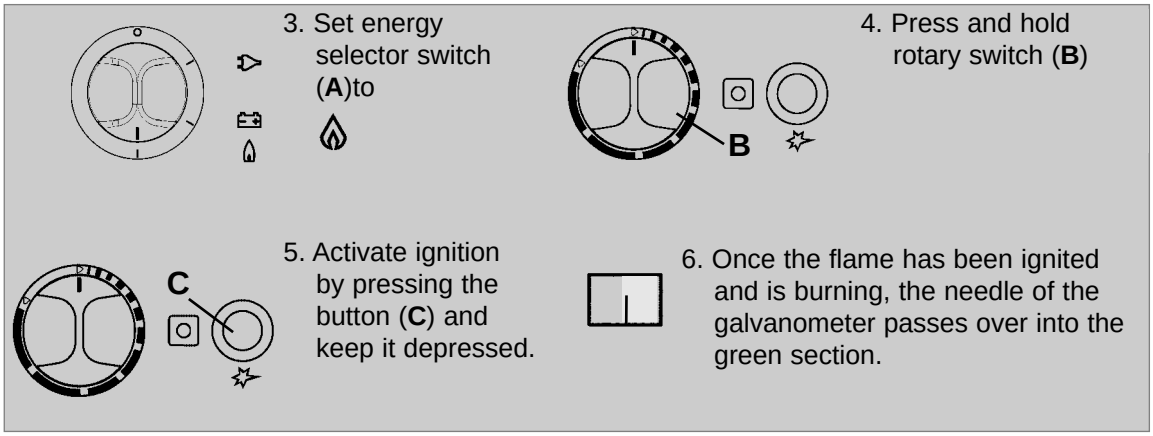
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1. Manual Ignition with "Piezo igniter"

1. Open the valve of the gas cylinder.
2. Open the shut-off valve to the gas supply.

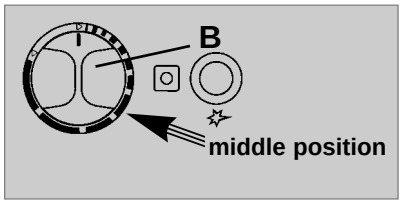


2. Manual Ignition with "battery igniter"



7. Release igniter button (C). Keep rotary switch (B) depressed for another 10-15 seconds, then release.
8. Check the flame indicator to see whether a flame is burning.
9. Repeat the entire process if the flame has gone out.
10. Use rotary switch (B) to regulate the temperature in the main refrigerator compartment.

5.2.4 Temperature setting cooling compartment



As shown, you are able to regulate the temperature of the cooling compartment, if necessary, by turning rotary knob (**B**)

TIP

The cooling unit's performance is influenced by ambient temperatures.

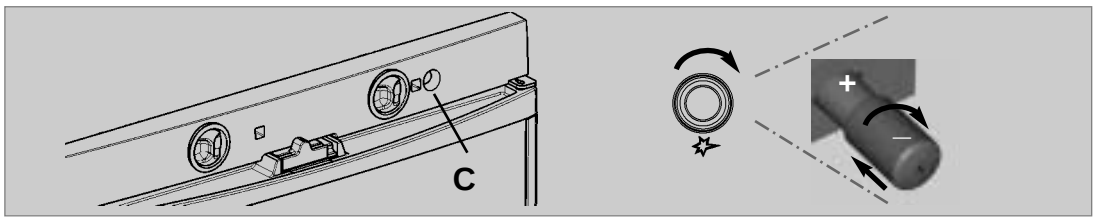
At ambient temperatures of +15°C up to +25°C, set the knob B to the **middle position**. The cooling unit works with optimal performance.

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Dometic refrigerators work according to the absorption principle. Due to physical reasons, an absorption system responds slowly to changes made on the thermostat controller, or a loss in cooling through opening the door, or storing food. The devices fulfill the cooling performance requirements of the Climatic Class SN acc. to EN/ISO 7371 in the temperature range of +10°C to 32°C ambient temperature

5.2.5 Exchange of the igniter's battery

Unlock the battery by depressing and turning the button (**C**) approx. 90° clockwise. Remove cap and exchange battery (1.5V AAA / R3 / Micro). Observe correct polarity.



5.3 Storing food

5.3.1 General advices

- Switch the refrigerator on approx. 12 hours before filling it.
- Always store pre-cooled foods in the refrigerator. Make sure that the food is well cooled when it is bought and also when transporting it. Use insulated cooling bags.
- When taking food out of the refrigerator only open the refrigerator door very briefly.
- Foods must be packed - best of all in closed containers - and stored separately from each other.
- Allow foods that have been warmed up to cool down before storing.
- Products that could emit volatile, flammable gases must not be stored in the refrigerator.
- Store quickly perishable foods directly next to the cooling fins.
- The refrigerator must not be exposed to direct sunlight. Please bear in mind that the tem- perature inside a closed vehicle increases sharply if exposed to sunlight and that this can reduce the efficiency of the refrigerator..
- The air around the cooling unit MUST be able to circulate freely without any hindrance (see also section 6.3 "Ventilation and air extraction") .

5.3.2 Freezer compartment

- Do not keep carbonated drinks in the freezer.
- The freezer compartment is suitable for making ice cubes and for short-term storage of frozen food. It is not suitable as a means of freezing foods.

When ambient temperatures are lower than +10°C an even regulation of freezer temperature cannot be guaranteed, if the refrigerator is exposed to these temperatures for a long period of time. This can cause the temperature in the freezer to rise and the stored goods to defrost.

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5.4 Making ice cubes

Ice cubes are best frozen overnight. At night, the refrigerator has less work to do and the unit has more reserves.



1. Fill the ice cube tray with drinking water.



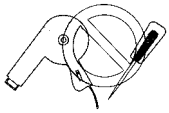
2. Place the ice cube tray in the freezer compartment.

Only use drinking water!

5.5 Defrosting

As time goes by, frost builds up on the fins.
When the layer of frost is about 3mm thick, the refrigerator should be defrosted.

1. Switch off the refrigerator, as described in Section 5.7 - "Switching off".
2. Remove the ice cube tray and food.
3. Leave the refrigerator door open.
4. After defrosting (freezer compartment and fins free of frost), wipe the cabinet dry with a cloth.
5. Use a cloth to mop up the water from the freezer compartment.
6. Switch the refrigerator back on again.



The layer of ice must never be removed forcibly, nor may defrosting be accelerated using a heat source.

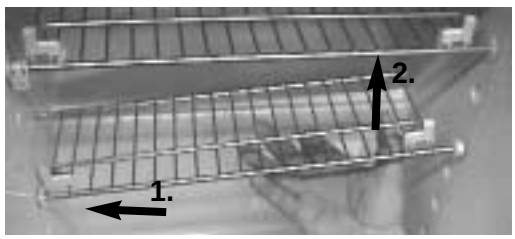
Note:
Water thawing in the main compartment of the refrigerator runs into an appropriate container at the back of the refrigerator. From there, the water evaporates.

5.6 Positioning the storage rack

Dismantling:



1. Loosen the front and back securing brackets.

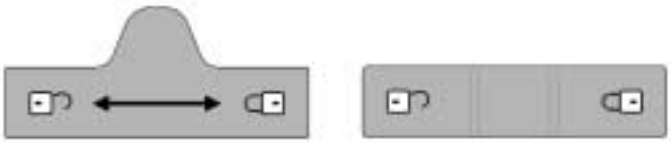


2. Move the storage rack to the left and remove it.

To fit the storage rack, the reverse order applies.

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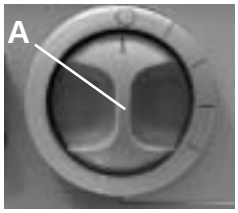
5.7 Door locking

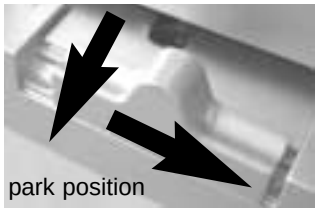


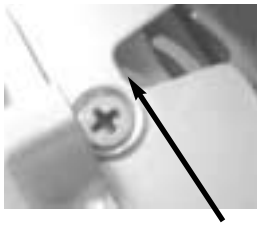
open **close**

Always shut and lock the refrigerator before you start your journey.

5.8 Switching off









1. Set energy selector switch (A) to position "0" (OFF). The appliance is now fully switched off.

2. Secure the door open by means of the door stop. The door will be slightly ajar. This is to prevent mould from forming inside the appliance.

Switching off gas operation

If the refrigerator is to be taken out of service for an extended period of time, the on-board shut-off valve and the cylinder valve must be closed.

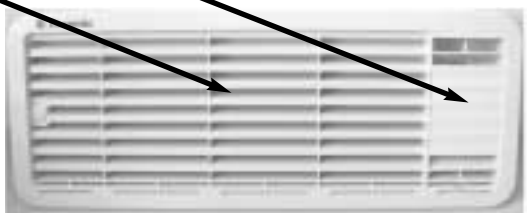
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5.9 Winter operation

1. Check that the ventilation grilles and the extractor have not been blocked by snow, leaves or similar.



Lower ventilation grille (L200)

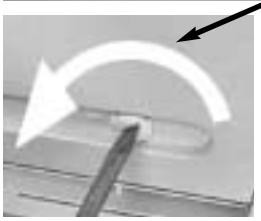


Upper ventilation grille with flue vent (L100)

2. When the ambient temperature falls below **+8°C**, the optional winter covers should be fitted. This protects the unit from excessively cold air.





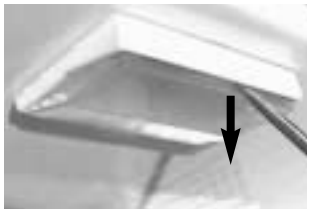


3. Affix the cover and fasten it.

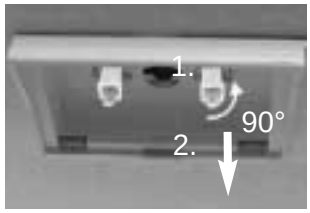
i **TIP** It is also recommended that the winter covers should be used when the vehicle is taken out of service for an extended period of time.

5.10 Interior light (when fitted)

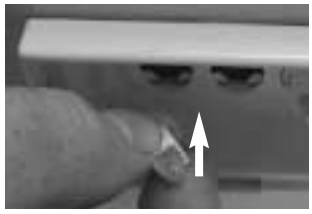
Changing the light bulbs



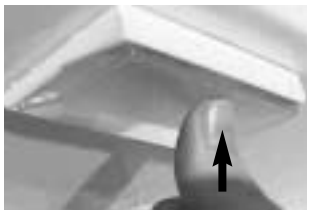
1. Remove cover.



2. Detach defective light bulb.



3. Fit new light bulb.



4. Clip the cover back in place.

Note:
for 12V DC :
1 light bulb 8V, 2W
for 24V DC :
2 light bulbs 28V, 1,5W

Please contact Dometic Service centres for replacement light bulbs.

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5.11 Changing the decor panel



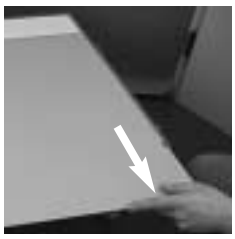
1. Open the door and loosen the hinge screw.



2. Take off the door by moving it upwards.



3. Unscrew the door strip (3 screws).



4. Remove the decor plate and insert a new decor plate.



5. Screw the door strip back in position.



6. Put the door back on.



7. Tighten the hinge screw.

Dimensions of the panels in mm:

Model	Height	Width	Thickness
RM 7390	738+/-1	498,5+1	3,0

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5.12 Changing the doorhang

It is not always possible to change the door when the refrigerator is installed.

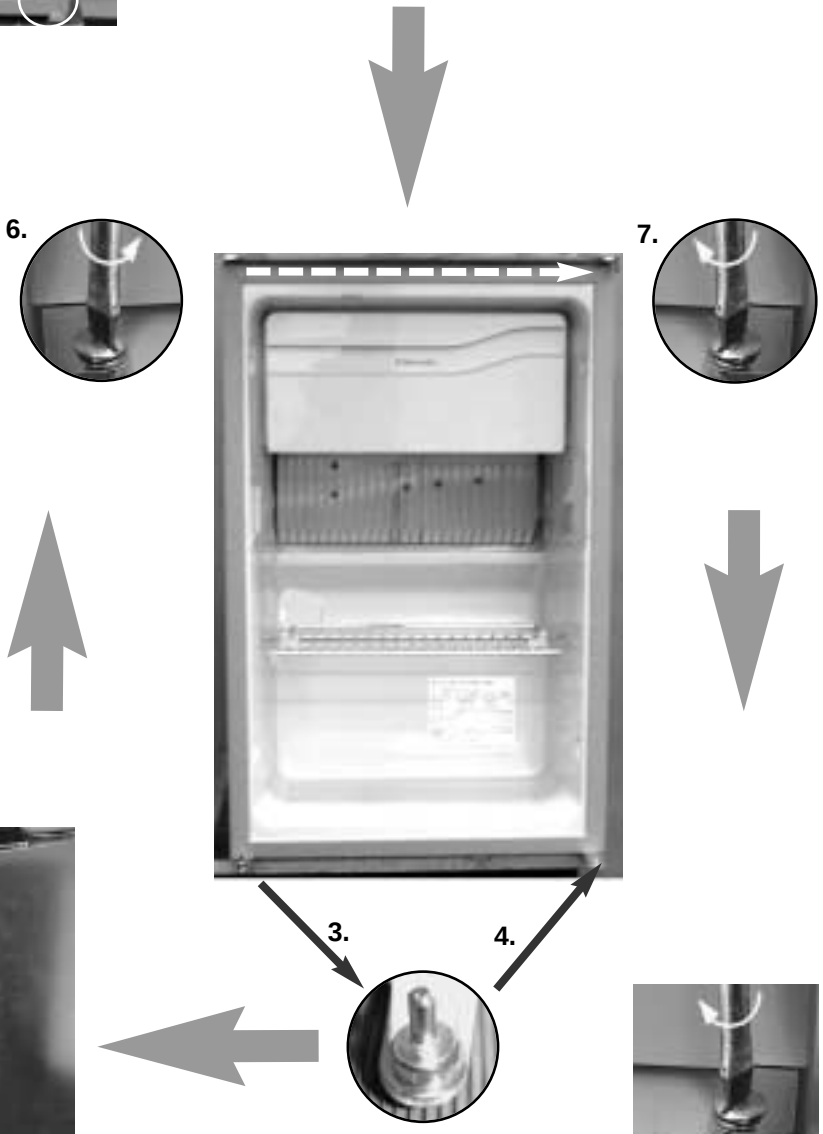


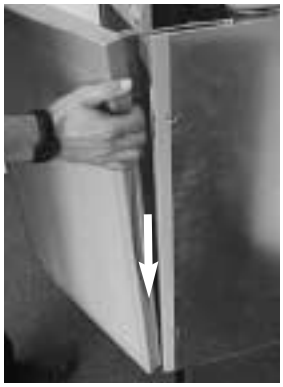


1. Tür öffnen, Scharnierschraube lösen und aufbewahren.



2. Tür nach oben wegnehmen.





5. Tür aufsetzen.

8. Scharnierschraube einschrauben.

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5.13 Troubleshooting

Before calling the authorised Service Department, please check whether:

1. The instructions in the section "Using the refrigerator" have been followed.
2. The refrigerator is not tilted excessiveley.
3. It is possible to operate the refrigerator with an available power source.

Failure : The refrigerator does not work in gas operation mode.

Possible cause	Action you can take
a.) Gas bottle empty.	a.) Change gas bottle.
b.) Is the supply cut-out device open?	b.) Open the cut-out device.
c.) Air in the gas pipe?	c.) Switch device off and on again 3-4 times to remove air from the gas pipe.

Failure : The refrigerator does not work on 12V.

Possible cause	Action you can take
a.) On-board fuse defective.	a.) Fit new fuse.
b.) Engine not running.	b.) Start engine.

Failure : The refrigerator does not work on 230V.

Possible cause	Action you can take
a.) On-board fuse defective.	a.) Fit new fuse.
b.) No connection to supply voltage.	b.) Establish power connection.

Failure : The refrigerator does not cool sufficiently.

Possible cause	Action you can take
a.) Inadequate ventilation to the unit.	a.) Check that the ventilation grilles are not covered.
b.) The thermostat setting is too low.	b.) Turn the thermostat to a higher setting.
c.) There is too much ice on the condenser.	c.) Check that the refrigerator door seals when shut.
d.) Too much warm food put inside.	d.) Let food cool down first.
e.) Appliance running for a short time.	e.) Wait several hours, check again.

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5.14 Maintenance

- **Works on gas components and electical installation may only be carried out by authorised personnel.** We recommend to contact your Dometic Service Centre.
- EN 1949 stipulates that the appliance´s gas equipment and it's associated fume system must be inspected after installation and a certificate issued.

  Afterwards a qualified technician must inspect according to EN 1949 every two years and a certificate issued.

  It is the user's responsibily to arrange for inspections after purchase.
- It is recommended that the gas burner be inspected and cleaned as necessary at least once a year.

5.15 Product liability

The product liability of Dometic GmbH does not cover damage due to improper use or any modifications or damage caused by the effect of environmental influence on the device or in direct proximity to the device as a result of this effect, e.g. temperature fluctuations and humidity.

5.16 Environmental hints

Refrigerators manufactured by Dometic contain neither CFC/HCFC nor HFC. Ammonia (a natural compound of hydrogen and nitrogen) is used in the cooling unit as a coolant. The non-ozone-hazardous cyclopentan is used as a propellant in the manufacture of the PU foam insulation.

5.17 Disposal

In order to ensure that the recyclable packaging materials are re-used, these should be sent to the usual local collection system.
The appliance should be transferred to a suitable waste disposal company that will ensure re-use of the recyclable components and proper disposal of the rest.
For eco-friendly draining of the coolant from all absorber refrigeration units, a suitable disposal plant should be used

5.18 Energy-saving tips

- At an average ambient temperature of approx. 25°C, it is sufficient to operate the refrigerator at the middle thermostat setting (for both gas and mains voltage).
- Where possible, always store goods that have previously been cooled.
- Do not position the refrigerator in direct sunlight.
- Constant circulation of air must be supplied to the refrigerator unit.
- Defrost regularly.
- Open the door only for a short time when removing goods from the refrigerator.
- Run the refrigerator for about 12 hours before filling it.

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5.19 Technical data

Model	Dimensions H x W x D (mm) depth incl. door	Groos capacity incl. freezer compartment	Usable capacity of freezer compart.	Connection Mains / Battery	* Consumption electricity / gas in 24 hrs	Netweight	Ignition Piezo	Stepped cabinet
RM 7390	821x525x623	105 lit.	12 lit.	125W / 120W	ca.2,5KWh / 270g	28 kg	X	X

We reserve the right to make technical changes.
*Average consumption measured at an average ambient temperature of 25°C in pursuance of ISO Standard.

5.20 Declaration of conformity

Dometic

DECLARATION OF CONFORMITY

according to

Low Voltage Directive 73/23/EEC and
the Amendment to LVD 90/683/EEC
EMC Directive 89/336/EEC, 2004/108/EC
Automotive Directive 72/245/EEC and
the Amendment 95/54/EC
GAS Directive 90/396/EEC
CE Marking Directive 93/68/EEC
End-of-Life Vehicle Directive 2000/53/EC

Type of equipment	Absorption Refrigerator
Brand Name	DOMETIC
Type familiy	C 40/110
Manufacturer' s (Factory)	
name	DOMETIC GmbH
adress	In der Steinwiese 16, D-57074 Siegen
telephone no	INT+49 - 271 692 0
telefax no	INT+49 - 271 692 304

The following harmonized standards or technical specifications (designations) which comply with good engineering practice in safety matters in force within the EEA have been practiced:

EN 60335-1:94, A1, A2, A11-16 (IEC 335-1; 3 ed., Am. 1, Am. 2),
EN 60335-2-24;00 (IEC 335-2-24; 5 ed. + Corr. 1)
EN 61000-3-2;95, A1, A2, A14 EN 61000-3-3;95, A1,
EN 55014-1;00, A1, A2 EN 55014-2;97, A1
EN 732;98 EN 50165:97+A1 EN 624;00 (LSC-Models)

The equipment conforms completely with the above stated harmonized standards or technical specifications.

By signing this document, the undersigned declares as manufacturer, or the manufacturer's authorized representative established within the EEA, that the equipment in question complies with the requirements stated above.
Manufacturer

Date	Signature	Position
2005.05.13	Gunther Bittner	General Manager

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6.0 INSTALLATION GUIDE

On installation of the appliance, the technical and administrative regulations of the country in which the vehicle will first be used must be adhered to. Otherwise the refrigerator must be installed as described in these instructions. In some OEM applications it may not be possible for these instructions to be followed exactly. In this case an authorised Dometic representative may issue supplementary instruction

In Europe, for example, gas appliances, cable laying, installation of gas cylinders, as well as approval and checking for leaks must comply with EN 1949 for liquid gas units in vehicles.

6.1 Installation

The appliance and its fume extraction shall be installed in such a way as to be accessible for servicing at all times and must be capable of easy removal and installation.
The appliance may only be installed by authorised personnel.
Installation and connection of the appliance must comply with the latest technical regulations, as follows:

- **European Standard EN 1949**
- **European Standard EN 732**
- **The electrical installation must comply with national regulations (EN 1648-1 , EN 1648-2 , EN 60335-1, EN 60335-2-24 for Europe).**
- **The gas installation must comply with national regulations.**
- **Local and building control department requirements**
- **The appliance shall be installed in such a way that it is shielded from excessive heat radiation.**

Excessive heat impairs performance and raises the energy consumption of the refrigerator.

Any installation that is not carried out by qualified persons will jeopardize the manufacturer's guarantee.

6.1.1 Side installation

If the appliance is installed on the same side of the vehicle as the entrance door, it is desirable that the door does not cover the refrigerator's vents (fig. 1, gap between door and vent grille min. 25 mm). Otherwise ventilation could be impaired which causes a loss in cooling performance. Awnings are often placed at the door side of a caravan. This complicates discharge of combustion gases and heat through the ventilation grilles (loss in cooling performance)!

Fig.1

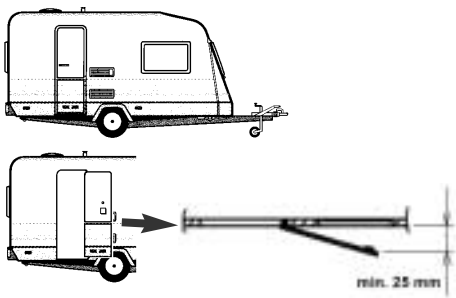
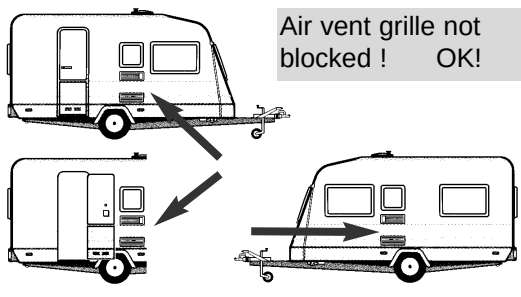


Fig.2



Air vent grille not blocked ! OK!

(Fig.1) Air vent grille blocked. There must be a distance between the door and the air vents of at least 25 mm! If the door/grille distance is between 25mm and 45 mm, we recommend installing a **Dometic ventilation kit (*spare part no. 241 2985 - 00/0*)** to achieve an optimal cooling performance in high ambient temperatures.

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6.1.2 Side installation with floor-roof ventilation

It is also possible to perform ventilation of the refrigerator via an aperture in the floor and a roof ventilation (see fig. 3). A flue has to be provided between the top edge of the refrigerator and the roof ventilation which directs the hot air and the exhausts straight to the air vent in the roof.

The opening in the floor must have a cross section of at least 250cm². Protect the opening, e.g. with a baffle plate and a net, to prevent dirt from entering the gas burner. Compared to side ventilation, this ventilation method can allow more dirt to enter the rear area of the refrigerator, which makes regular maintenance of the gas burner, at least once a year, necessary.

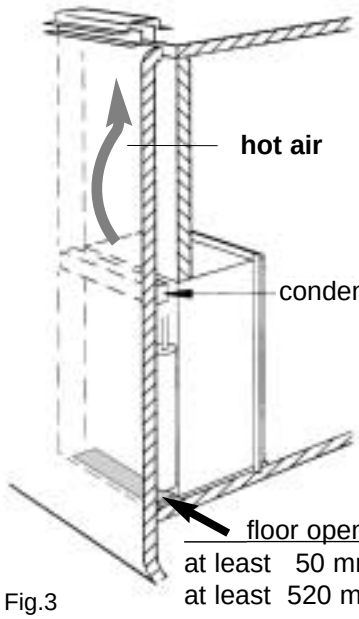
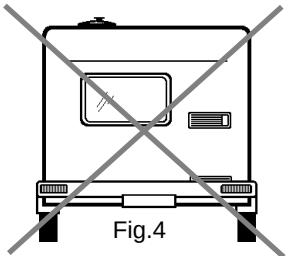


Fig.3

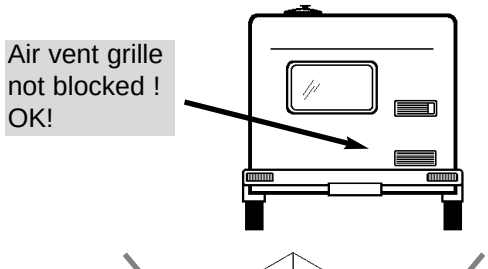
With this method of installation regular maintenance of the gas burner is only possible once the device has been dismantled. The refrigerator has to be installed in a way allowing easy dismantling.

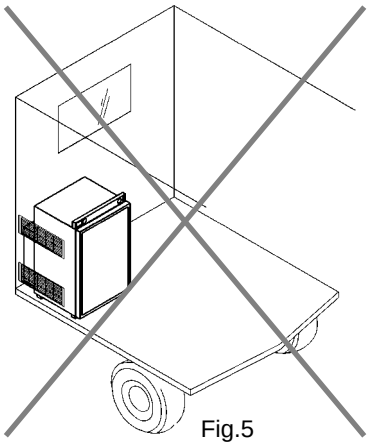
6.1.3 Rear installation

Rear installation often causes an unfavourable installation arrangement, as ideal ventilation cannot always be assured (e.g. the lower ventilation grille is covered by the bumper or the rear lights of the vehicle!) (Fig. 4). The maximum cooling performance of the aggregate is actually not available.


Fig.4

Another variant of the rear installation is the side installation of the ventilation grilles (fig. 5). The air-heat recirculation is very restricted which means the heat exchangers (condenser, absorber) cannot be adequately cooled. The variant with an additional ventilation grille mounted in the floor also has a bad airflow duct.




Fig.5

The maximum cooling performance is not available!
Please assure at all the installation variations correct ventilation and extraction, as described in item 6.3!

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6.2 Draught-free installation

The refrigerator must be sealed in accordance with EN 1949.
Illustrated below are two typical approved methods of sealing.

> ⚠ **Do NOT use any easily inflammable materials (in particular silicone sealing agent or similar) for sealing! The device manufacturer's product liability and guarantee shall lapse if such materials are used.**

Proposal 1:

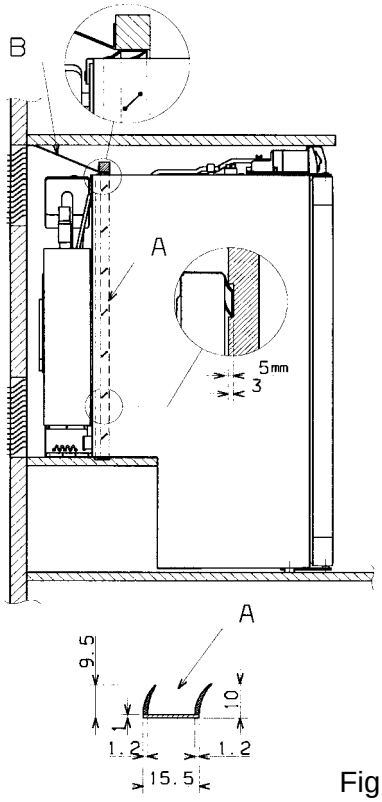


Fig.1

Using the Installation Sealing Kit from Dometic
(SP.No. 241 2559-00, available from Dometic)

Insert lipped seals (A) into the installation recesses at the bottom and at each side.

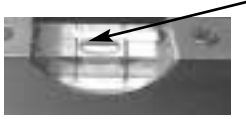
Insert deflector plate (B), fitted with a lipped seal (A) of heavy-duty, nonflammable material, into the installation recess (see Fig. 1).

Insert deflector plate (B) in such a way that the hot air escapes through the air vent grating into the open air.

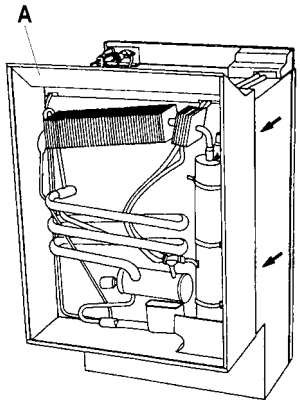
Affix the discharge plate to the caravan wall, not to the refrigerator!

In addition, discharge plate (B) with its lipped seal (A) must seal the refrigerator off from the living area (see Fig. 1).

Ensure that the refrigerator is installed level in the recess.



Proposal 2:



Another option is to provide the refrigerator with a cowl (A). The cowl (A) should ideally be affixed to the caravan wall, not to the refrigerator. Insert sealing strips at the bottom and sides of the cover.

Finally, push the refrigerator into the cover from the front.

i Both of these installation options facilitate the removal and installation of the appliance for servicing.

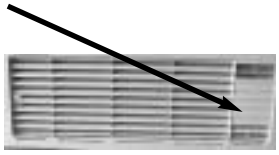
Comment:

Other methods of sealing may be approved. However the chosen method must prevent draughts entering the living space of the caravan or motorhome. Failure to seal correctly will allow warm air to collect around the refrigera tor and its performance will be affected. If the cavity between the caravan wall and the refrigerator is sealed so that fumes cannot penetrate the living area it is possible to vent the flue gas directly through the upper grille without using the aluminium flue pipe. For this installation method, it is recommended that the same air vent grille should be used at the top and at the bottom (L200), and that the T-piece of the flue pipe is turned 45 degrees.

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In this case, for gas operation, do not use the upper winter cover!

If even with draught-free installation a fume chimney is desirable, you must incorporte the L100 ventilation and extraction system into the upper air vent opening.
Installation of fume chimney: please refer to point 6.7.



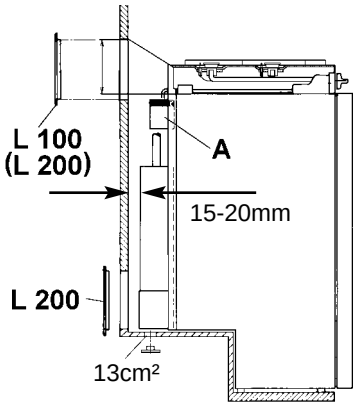
Deviations shall require the consent of the manufacturer.

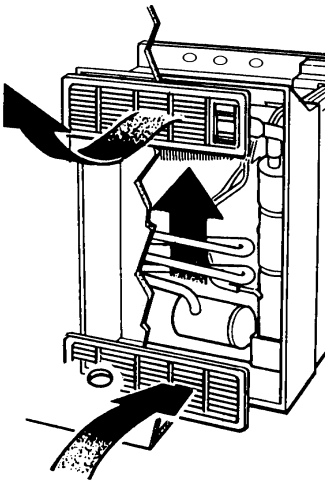
6.3 Ventilation and air extraction

A correct installation is important for correct operation of the appliance to ensure, there is no a build-up of heat at the back of the appliance; this heat must be allowed to escape into the open air.

In the event of high ambient temperatures, full performance of the cooling unit can only be achieved by means of adequate ventilation and extraction.

Ventilation is provided for the unit by means of two apertures in the caravan wall. Fresh air enters at the bottom, extracts the heat and exits through the upper vent grille.
The **upper** ventilation grille should be positioned as high as possible above condenser (A).
The **lower** ventilation grille should be **flush with the floor of the vehicle**, allowing any gas leakages (heavier than air) to escape directly into the open air.
If such an arrangement is not possible a hole must be provided under the refrigerator (not close to the burner) so that any leaking LP gas can escape. This must have an effictive area of at least 13cm². It is desirable to fit the hole with wire mesh or similar, and an angle plate to protect it from stones, mud etc., the wire mesh must not reduce the effective area of 13cm² (EN 1949).
The ventilation grilles must have an open cross-section of at least 250 cm². This is reached using the Dometic Absorber Ventilation and Air Extraction System L100 / L 200 that has been tested and approved for this purpose.





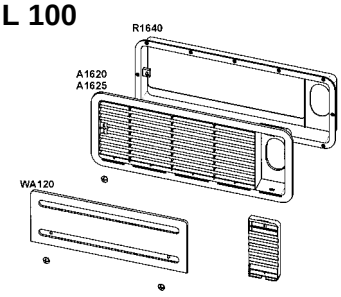
Comment:
If the distance between the wall and the refrigerator is greater than 20 mm the gap can be reduced to 20 mm by fitting a suitable baffle piece.

Correct mounting of the lower ventilation grille facilitates the access to the electrical and gas connections during maintenance work.

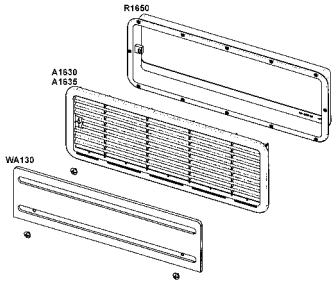
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6.4 Installing the ventilation system

L 100



L 200



To install the ventilation grilles, cut two rectangles (451mm x 156mm) in the outer wall of the vehicle (for position of the cuts, see point 6.3).



Item 1 does not apply for installation framess with an integrated seal.

1. Seal the mounting frame, making it waterproof.



2. Insert the frame ...



... and screw into position.



3. Insert the ventilation grilles.



4. Lock the ventilation grilles.



5. Clip the extractor insert in position
(only for upper ventilation system L100)



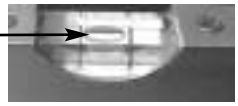
6. Insert winter cover

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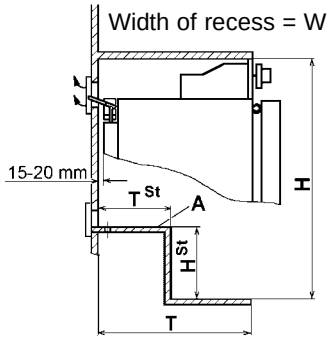
6.5 Installation recess

The refrigerator must be installed draught-free in a recess.
The measurements of the recess are given in the table below.
Step (A) is only required for cabinets with a step. Push the appliance far enough into the recess until the front edge of the refrigerator casing is flush with the front of the recess. Allow a gap of 15-20 mm between the back wall of the recess and the refrigeration unit. The floor of the recess must be level, allowing the appliance to be pushed easily into its correct position. The floor must be substantial enough to bear the weight of the appliance.

Ensure that the refrigerator is installed level in the recess.

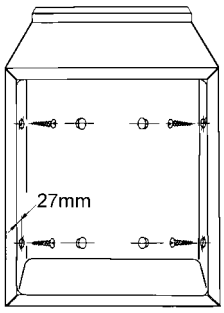


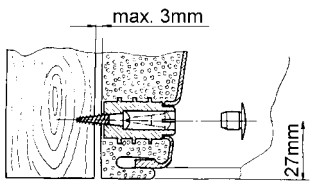
Recess measurements:



Model	Hight H	Width W	Depth T	Hight HSt	Depth TSt
RM 7390	821 mm	525 mm	575 mm	220 mm	235 mm

6.6 Securing the refrigerator





In the sidewalls of the refrigerator, there are four plastic sleeves with screws for securing the refrigerator. The sidewalls or rails attached for securing the refrigerator must be designed in such a way that the screws will remain firmly in place even when under increased load (while the vehicle is moving).

Always insert screws through the sleeves provided; otherwise, structural parts embedded in the foam, such as cables, etc., may be damaged.

Once the refrigerator is in its final position, secure the screws into the wall of the recess.

The screws must penetrate through the sheet metal casing of the refrigerator.

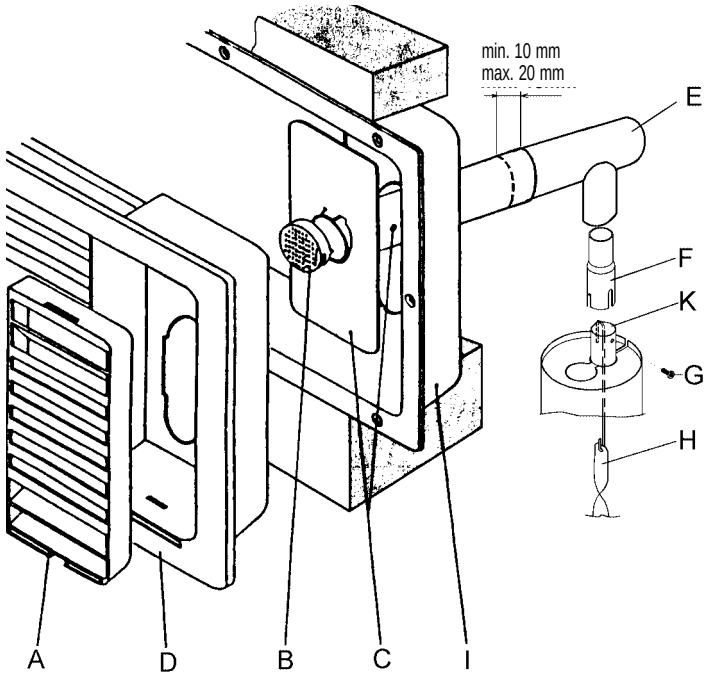
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6.7 Fume extraction

Fume extraction must be arranged in such a way as to provide complete extraction of all products of combustion to an area outside the living area. The flue system must slope in an upward direction in order to avoid a build-up of condensation.

An installation that is not carried out by qualified persons causes a reduction in the cooling capacity and will jeopardize the manufacturer's guarantee.

6.7.1 Fitting the fume flue in the upper ventilation grille

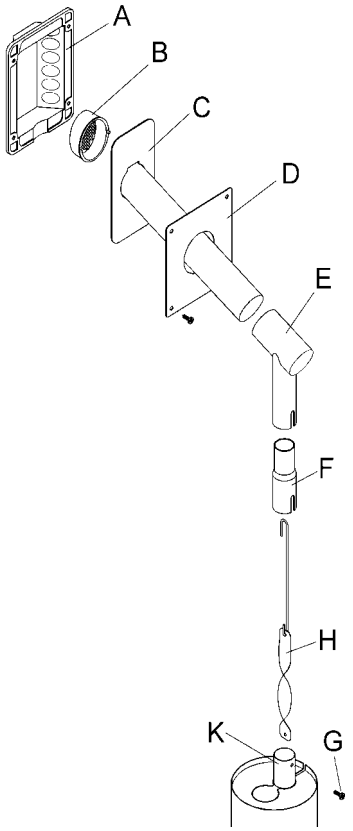


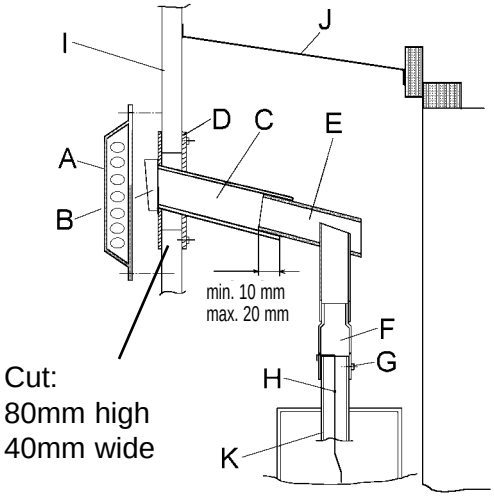
1. Connect T-piece (E) to adaptor (F) or flue pipe (K) as required and affix with screw (G). Ensure that heat baffle (H) is lodged in the correct position.
2. Insert flue pipe with cover plate (C) through the appropriate aperture in frame (I) and connect to T-piece (E). If necessary, shorten flue pipe (C) to the required length.
3. Insert ventilation grille (D) into mounting frame (I) and fasten, using the locking handle on the left of the grille.
4. Put cap (B) on flue pipe (C).
5. Insert extractor insert (A) into ventilation grille (D).

This type of fume extraction allows use a winter cover.

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6.7.2 Separate fume extraction





1. Cut an 80mm x 40mm rectangle in the outer wall of the caravan. The position of the cut must be appropriate to the particular model of refrigerator and installation conditions.
2. Connect T-piece (E) to adaptor (F) or flue pipe (K) as required and affix with screw (G). Ensure that heat distributor (H) is lodged in the correct position.
3. Insert flue pipe (C) through the aperture.
4. Connect flue pipe (C) to T-piece (E). If necessary, shorten flue pipe (C) to the required length.
5. Pack the cut with non-flammable material (e.g. Rock Wool).
6. Screw securing plate (D) into position.
7. Put cap (B) on flue pipe (C).
8. Screw on outer plate (A).

6.8 Gas installation

- **The rules in point 6.1 must be adhered to.**
- **When running on gas, these appliances are intended exclusively to use liquid gas (propane/butane) - under no circumstances should town gas or natural gas be used (EN 27418).**
- **A fixed, pre-set pressure regulator complying with EN 12864 must be connected to the liquid gas cylinder.**
- **The pressure regulator must concur with the operating pressure specified on the data plate of the appliance. The operating pressure corresponds to the standard pressure of the country of specification (EN 1949, EN 732).**
- **Only one connection pressure is permissible for any one vehicle. A plate showing the permanent, clearly legible notice must be displayed in full view at the point where the gas cylinder is installed.**
- **The gas connection to the appliance must be installed securely and at zero potential using tube connectors and must be securely connected to the vehicle (a hose connection is not permissible) (EN 1949).**
- **Inflamable material should not be in immediate proximity to the burner.**

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- **The gas connection to the appliance is effected by means of a suitable coupling tube fitting L8, DIN 2353-ST, complying with European Standard EN 1949 (e.g. Ermeto).**

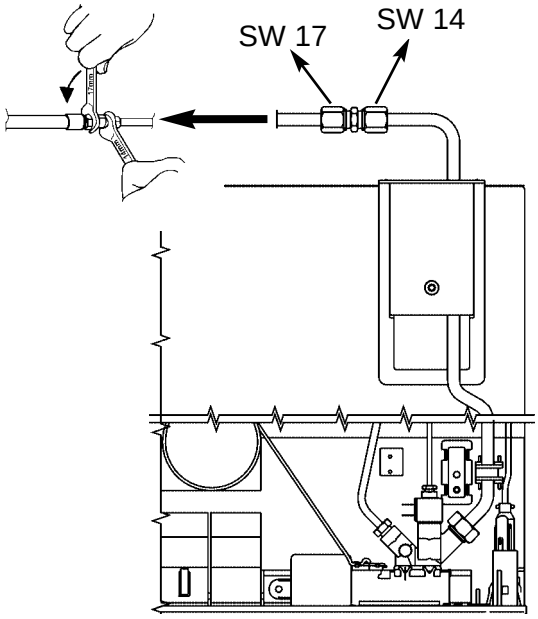
⚠ **The gas connection may only be carried out by a qualified personnel.**

Following proper installation, a testing for leakage and a flame test must be carried out by *qualified personnel in compliance with EN1949 .

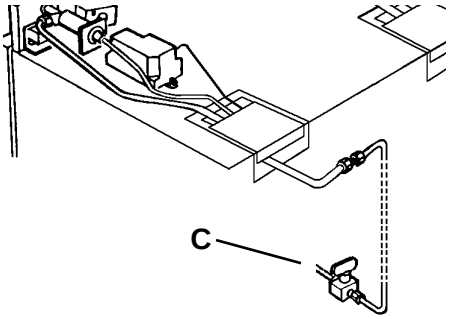
A certificate of testing must be issued.

*** qualified personnel**

Qualified personnel are accredited experts who are able, by virtue of their training and knowledge, to vouch for the correct implementation of the leakage test.



The refrigerator must be equipped with a gas cock (**C**) in the supply line to allow the supply to be disconnected. Such a cutout device must be readily accessible to the user.



Gas pressure

Category	$I_{3P(30)}$	$I_{3P(37)}$	$I_{3P(50)}$	I_{3+}		$I_{3B/P(50)}$	$I_{3B/P(30)}$
mbar	30	37	50	28-37	30-37	50	30
BE				•			
DK							•
DE						•	•
FI							•
FR				•			
GR					•	•	
IE		•		•			
IS							•
IT				•			
LU	•						•
NL	•						•
NO							•
AT						•	•
PT		•			•		
SE							•
CH				•			•
ES				•			
UK		•		•			•

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6.9 Electrical installation

Electrical installation may only be carried out by qualified personnel. The connection cables must be laid in such a way that they do not come in contact with hot components of the unit/burner or with sharp edges. The electrical installation must comply with national regulations (EN 60335-2-24 for Europe). It is advisable to run the incoming supply through an on-board fuse or automatic circuit breaker. The power cable must be laid in such a way that it does not come in contact with hot components of the unit/burner or with sharp edges.

Changes at the internal electrical installation or the connection of other electrical components (e.g. additional fan, no Dometic part) to the internal wiring of the appliance will expire the e1/ CE admittance as well as any claims from guarantee and product liability!

6.9.1 Power line connection

The power must be supplied via a properly earthed socket outlet or hardwired connection.
Where a socket outlet is used for the mains connection lead, the outlet must be freely accessible.

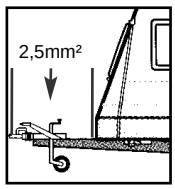
It is advisable to run the incoming supply through an on-board fuse or automatic circuit breaker. The power cable must be laid in such a way that it does not come in contact with hot components of the unit/burner or with sharp edges.

If the connection cable is damaged it must be replaced by the Customer Service at Dometic, or by respectively qualified personnel, in order to prevent any hazards.

6.9.2 Battery connection

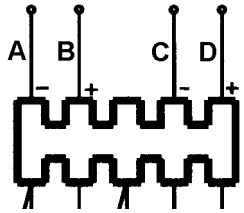
The machine's mains 12V connection cable is connected (observing correct polarity) to a terminal strip.The cabling must be direct and by the shortest possible route to the battery and alternator respectively.
The heating element circuit must be connected to the vehicle battery by a suitable ignition operated relay in order that the 12V supply is only live while the vehicle ignition is switched on.It is recommended that the electronic re-igniter and the inte rior light is connected to the on-board auxiliary battery.

	Cross-sectional area of cable	Length of cable
Motorcaravan	4 mm^2	< 6 m
Caravan (inside**)**	6 mm^2	> 6 m
Caravan (outside**)**	min 2,5 mm^2	(EN1648-1)



The 12V circuit must be protected with a 16A fuse.

If the appliance is installed in a caravan the respective leads for 12V+ and 12V- the connections A/B and C/D must not be connected to each other on the caravan-side (EN 1648-1).

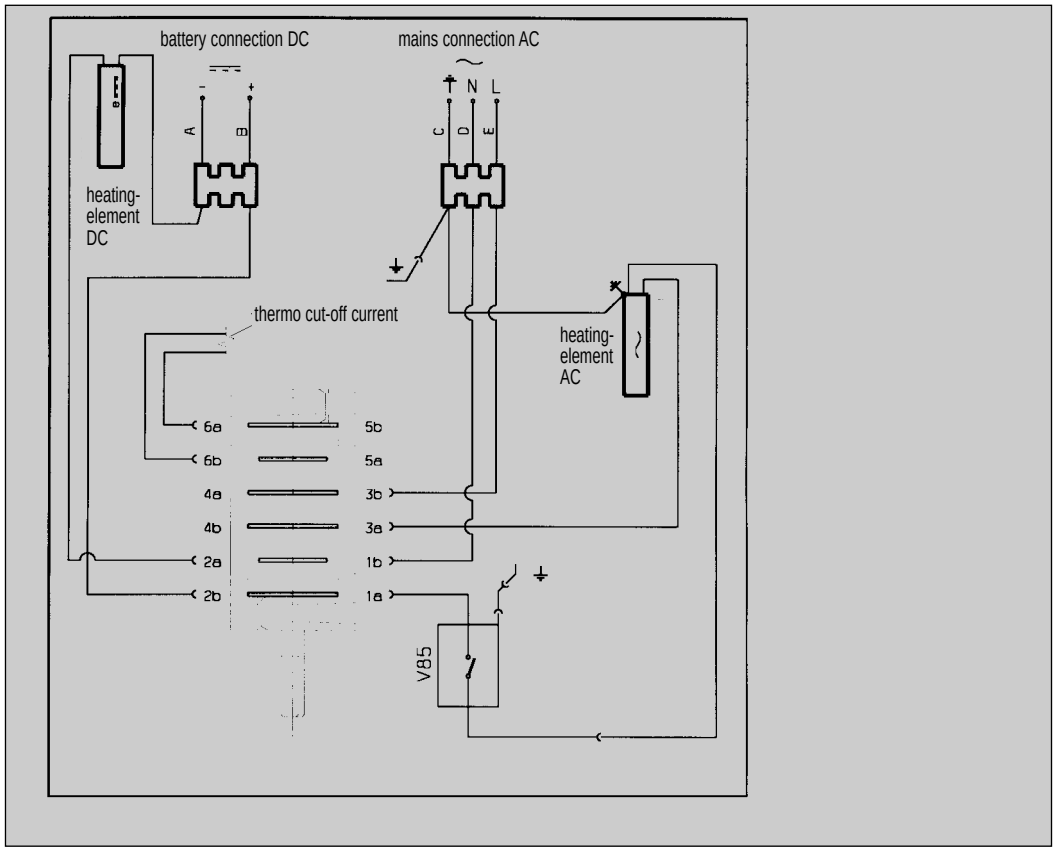


A = ground heating element DC (white)
B = connection to the heating element DC **(only live while the vehicle ignition is switched on,** red**)**.
C = ground for lighting (black),
D = connection for lighting,
permanent DC (12V) available (violet)**.**

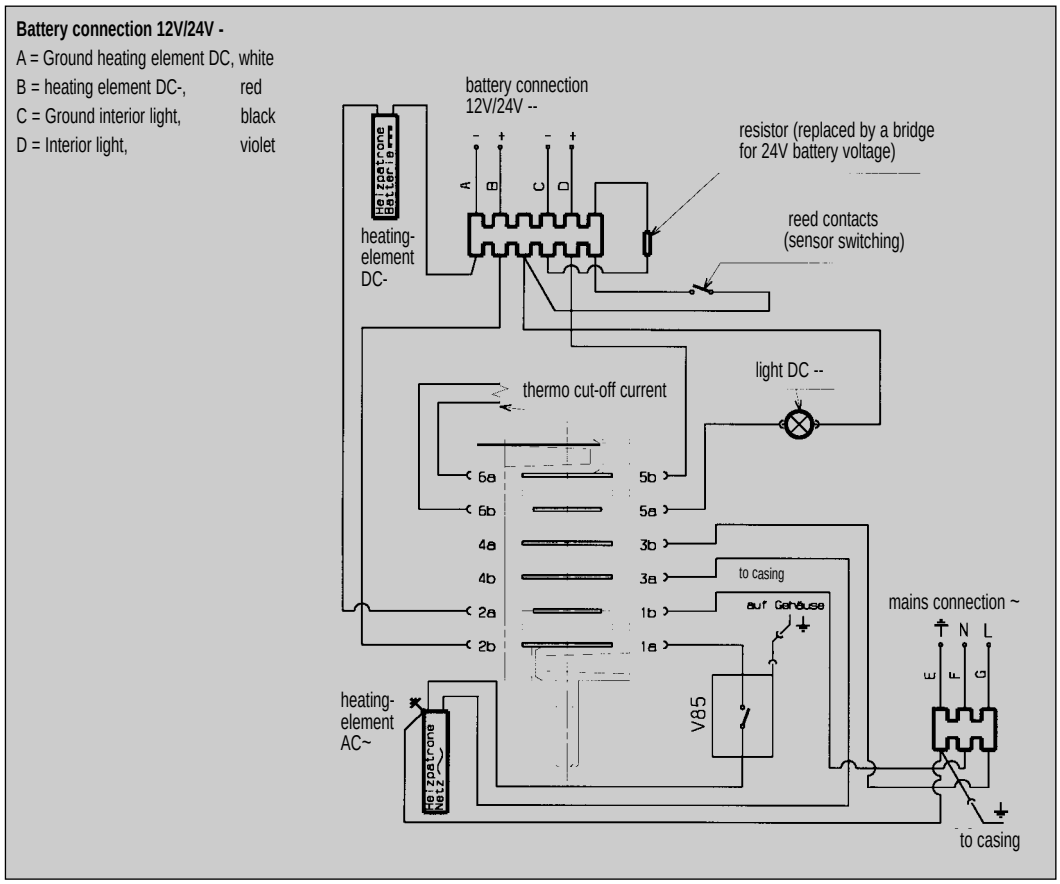
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6.9.3 Wiring diagrams

1. Wiring diagram with manual ignition and no interior light.



2. Wiring diagram with manual ignition and interior light



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