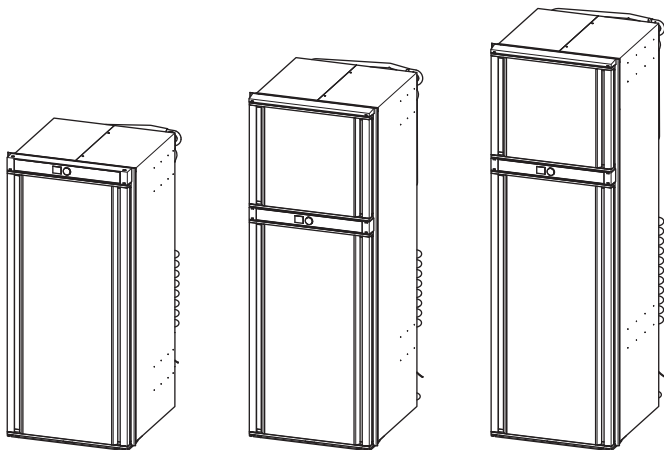


↗ DOMETIC

REFRIGERATION

RU



RUA5308X, RUA6508X, RUA8508X

EN

Absorption refrigerator
Operating manual

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Please read these instructions carefully and follow all instructions, guidelines, and warnings included in this product manual in order to ensure that you install, use, and maintain the product properly at all times. These instructions **MUST** stay with this product.

By using the product, you hereby confirm that you have read all instructions, guidelines, and warnings carefully and that you understand and agree to abide by the terms and conditions as set forth herein. You agree to use this product only for the intended purpose and application and in accordance with the instructions, guidelines, and warnings as set forth in this product manual as well as in accordance with all applicable laws and regulations. A failure to read and follow the instructions and warnings set forth herein may result in an injury to yourself and others, damage to your product or damage to other property in the vicinity. This product manual, including the instructions, guidelines, and warnings, and related documentation, may be subject to changes and updates. For up-to-date product information, please visit documents.dometic.com.

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1 Explanation of symbols



DANGER!

Safety instruction: Indicates a hazardous situation that, if not avoided, will result in death or serious injury.



WARNING!

Safety instruction: Indicates a hazardous situation that, if not avoided, could result in death or serious injury.



CAUTION!

Safety instruction: Indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.



NOTICE!

Indicates a situation that, if not avoided, can result in property damage.

**NOTE**

Supplementary information for operating the product.

2 Safety instructions

2.1 General safety



WARNING! Failure to obey these warnings could result in death or serious injury.

Electrocution hazard

- Installation and removal of the refrigerator may only be carried out by qualified personnel.
- Do not operate the refrigerator if it is visibly damaged.
- This refrigerator may only be repaired by qualified personnel. Improper repairs can result in considerable danger or damage to the refrigerator.
- If this refrigerator's power cable is damaged, it must be replaced by the manufacturer, a service agent or a similarly qualified person in order to prevent safety hazards.
- When positioning the refrigerator, ensure the supply cord is not trapped or damaged.
- Do not locate multiple portable socket-outlets or portable power supplies at the rear of the refrigerator.
- Plug the device to sockets that ensure proper connection especially when the device needs to be grounded.

Fire hazard

- The refrigerant in the refrigerant circuit is highly flammable and in the event of a leakage combustible gases could build up if the appliance is in a small room.
In the event of any damage to the refrigerant circuit:
 - Keep naked flames and potential ignition sources away from the refrigerator.
 - Ventilate the room well.
 - Switch off the refrigerator.
- The insulation of the refrigerator contains flammable cyclopentane and requires special disposal procedures. Deliver the refrigerator at the end of its life-cycle to an appropriate recycling center.

Explosion hazard

- DO NOT SPRAY AEROSOLS IN THE VICINITY OF THIS REFRIGERATOR WHILE IT IS IN OPERATION.
- Do not store any explosive substances, such as aerosol cans with propellants, in the refrigerator.
- Never open the absorber unit. It is under high pressure and can cause injury if it is opened.

Health hazard

- This refrigerator is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the refrigerator by a person responsible for their safety.
- Children aged from 3 to 8 years are allowed to load and unload the refrigerator.
- Cleaning and user maintenance shall not be made by children without supervision.
- Children must be supervised to ensure that they do not play with the refrigerator.

Risk of child entrapment

- Ensure that the shelves are mounted and secured so that children cannot lock themselves in the refrigerator.
- Before disposing of your old refrigerator:
 - Dismantle the drawers.
 - Leave the shelves in the refrigerator so that children cannot climb inside.
 - Take off the doors.

**CAUTION! Failure to obey these cautions could result in minor or moderate injury.****Health hazard**

- To avoid a hazard due to instability of the refrigerator, it must be fixed in accordance with the installation instructions.
- Keep ventilation openings, on the refrigerator and in its enclosure or in the built-in structure, clear of obstruction.
- Do not use mechanical devices or other means to accelerate the defrosting process, other than those recommended by the manufacturer.
- Do not open or damage the refrigerant circuit under any circumstances.
- Do not use electrical devices inside the refrigerator unless they are recommended by the manufacturer for that purpose.

Risk of injury

- DO NOT USE OR STORE FLAMMABLE MATERIALS IN OR NEAR THIS REFRIGERATOR.
- DO NOT PLACE ARTICLES ON OR AGAINST THIS REFRIGERATOR.
- DO NOT MODIFY THIS REFRIGERATOR.

**NOTICE! Damage hazard**

- Only select operation with DC power supply if the vehicle engine is running and providing sufficient voltage to the light system, or if you are using a battery monitor.
- Keep the condensate drain clean at all times.
- Do not use a high-pressure cleaner near the ventilation grille when cleaning the vehicle.
- The refrigerator may not be exposed to rain.

2.2 Safety when operating

**DANGER! Failure to obey these warnings will result in death or serious injury.****Electrocution hazard**

- Do not touch exposed cables with your bare hands.
- Before starting the refrigerator, ensure that the power supply line and the plug are dry.

**CAUTION! Failure to obey these cautions could result in minor or moderate injury.****Health hazard**

- Ensure that foodstuffs do not touch the walls of the cooling area.
- Clean regularly surfaces that can come in contact with food and accessible drainage systems.
- Store raw meat and fish in suitable containers in the refrigerator, so that it is not in contact with and cannot drip onto other food.
- If the refrigerator is left empty for long periods:
 - Switch off the refrigerator.
 - Defrost the refrigerator.
 - Clean and dry the refrigerator.
 - Leave the door open to prevent mold developing within the refrigerator. If available, put the refrigerator door and the freezer door into the winter position.

Risk of injury

- Do not put your fingers into the hinge.
- Close and latch the refrigerator door before beginning a journey.
- The cooling system at the back of the refrigerator becomes very hot during operation. Protect yourself from coming into contact with hot parts when removing ventilation grilles.
- The device door or the freezer door can completely detach from the device if used incorrectly. Push the doors closed until you hear a clear click at the top and bottom.

**NOTICE! Damage hazard**

- Do not lean on the open refrigerator door.
- Store heavy objects such as bottles or cans only in the refrigerator door, in the vegetable compartment or on the bottom shelf.
- If the refrigerator has a double-sided door and the door is not locked correctly on the opposite side, push on that side at the top and the bottom until it locks in place.
- **Danger of overheating!**
Always ensure sufficient ventilation so that the heat generated during operation can dissipate. Ensure that the refrigerator is sufficiently far away from walls and other objects so that the air can circulate.
- Do not fill the interior with ice or fluid.
- Protect the refrigerator and the cable against heat and moisture.
- Never pull the plug out of the socket by the connection cable.

**NOTE**

- If the battery management of your vehicle shuts down the refrigerator to protect the battery, contact your vehicle manufacturer.
- For ambient temperatures of +15 °C to +25 °C select the average temperature setting.
- If the door is not locked correctly on the opposite side, push on that side at the top and the bottom until it locks in place.
- **To avoid food waste, note the following:**
 - Keep temperature fluctuation as low as possible. Only open the refrigerator or the freezer as often and for as long as necessary. Opening the door for long periods can cause significant increase of the temperature in the compartments of the refrigerator.
 - Store the foodstuff in such a way that the air can still circulate well.
 - Ensure to put only items in the refrigerator which may be chilled at the selected temperature.
 - Store the different foodstuff types as shown in the figures.
 - If the temperature can be adjusted: Adjust the temperature to the quantity and type of the foodstuff.
 - Foodstuff can easily absorb or release odor or taste. Always store foodstuff covered or in closed containers/bottles.

2.3 Safety when operating with gas

**WARNING! Failure to obey these warnings could result in death or serious injury.**
Explosion hazard

- **Only** operate the refrigerator at the pressure shown on the data plate. Only use pressure controllers with a fixed setting which comply with the national regulations.
- Only operate the refrigerator on gas while driving if the vehicle manufacturer permits operation of the gas system while driving (see vehicle manual).
- Check the national requirements for operating the refrigerator with gas during driving.
- Never operate the refrigerator with gas:
 - At petrol stations
 - In parking garages
 - On ferries
 - During transport of the caravan or motor home with a transport vehicle or tow truck
- Never use a naked flame to check the refrigerator for leaks.

- In case of gas odor:
 - Close the gas supply tap and the valve on the cylinder.
 - Open all windows and leave the room.
 - Do not operate any electrical switch.
 - Extinguish all open flames.
 - Have the gas system checked by a specialist.
- **Never** store liquid gas cylinders in unventilated areas or below ground level (funnel shaped holes in the ground).
- Keep liquid gas cylinders away from direct sunlight.

**NOTICE! Damage hazard**

- Only use universal LPG gas, **not** natural gas (see data plate).

**NOTE**

- At altitudes above 1000 m, ignition problems may occur. Switch to a different energy source.

3 Scope of delivery

Quantity	Description
1	Absorption refrigerator
1	Drain hose
1	Sealing strip (fitted underneath during installation)
1	Operating manual
1	Installation manual

4 Accessories

Available as accessories (not included in the scope of delivery):

Description	Ref. no.
LS300 ventilation grille	9620000524
Gas flue kit 3776	9620000522, 9620000523
Roof vent kit	9620008608, 9620008609

Accessories are available from specialist dealers. If you have any questions, contact the dealer or your service partner directly.

5 Intended use

The refrigerator is intended for:

- Installation in caravans or motor homes
- Cooling and storing food
- Storing prefrozen food

This refrigerator is **not** intended for commercial, retail or household applications.

The refrigerator is **not** suitable for:

- Storing medications
- Storing corrosive substances or substances that contain solvents
- Quick-freezing food.

The freezer compartment is suitable for storing pre-frozen food, storing or making ice cream and making ice cubes. It is not suitable for freezing previously unfrozen food.

The refrigerator is intended for installation in a piece of cabinetry or an installation niche.

This product is only suitable for the intended purpose and application in accordance with these instructions.

This manual provides information that is necessary for proper installation and/or operation of the product. Poor installation and/or improper operating or maintenance will result in unsatisfactory performance and a possible failure.

The manufacturer accepts no liability for any injury or damage to the product resulting from:

- Incorrect installation, assembly or connection, including excess voltage
- Incorrect maintenance or use of spare parts other than original spare parts provided by the manufacturer
- Alterations to the product without express permission from the manufacturer
- Use for purposes other than those described in this manual

Dometic reserves the right to change product appearance and product specifications.

6 Technical description

6.1 General

The refrigerator is an absorption refrigerator and is designed for operation

- On an AC power supply,
- On a 12 V DC power supply or
- With liquefied universal LPG gas.

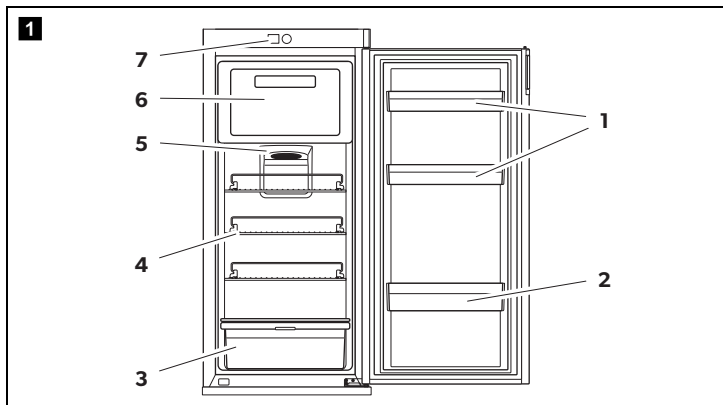
The refrigerator has a an automatic operation mode that selects the most economical connected type of energy.

The thermostatic control ensures that the refrigerator temperature is kept constant and as little power as possible is consumed.

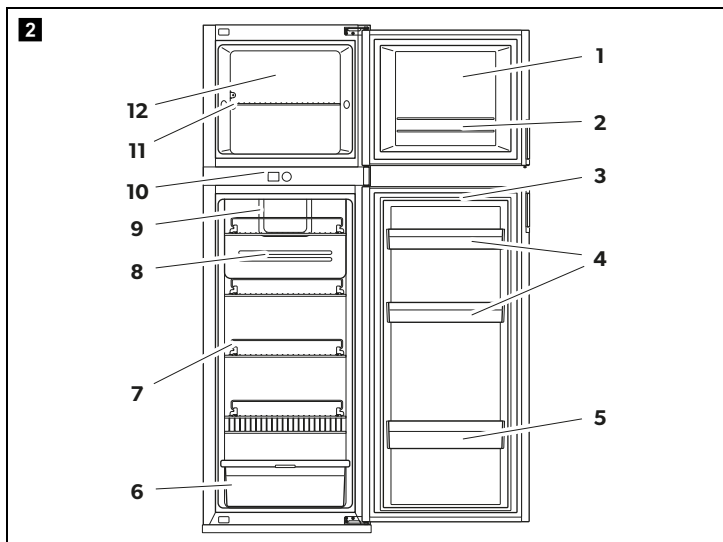
The refrigerator is equipped with a cold weather/low temperature control that allows the refrigerator to operate at low ambient temperatures for extended periods of time.

6.2 Components

RUA 5308X

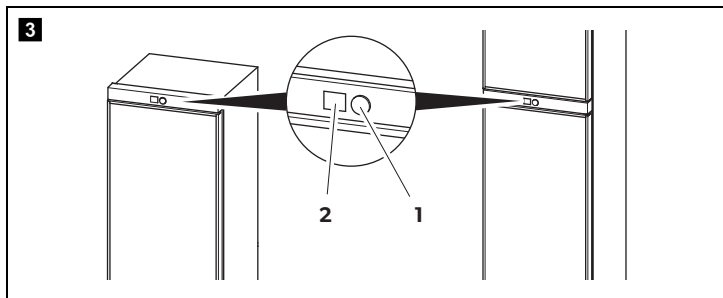


No. in fig. 1	Description	Quantity
1	Upper door rack	2
2	Bottom door rack with bottle holder	1
3	Crisper	1
4	Refrigerator shelf	3
5	Interior light	1
6	Freezer compartment	1
7	Control and display elements	1

RUA 6508X, RUA 8508X

No. in fig. 2	Description	Quantity	
		RUA 6508X	RUA 8508X
1	Freezer compartment door	1	1
2	Freezer door rack	1	1
3	Refrigerator door	1	1
4	Upper door rack	2	2
5	Bottom door rack with bottle holder	1	1
6	Crisper	1	1
7	Refrigerator shelf	3	4
8	Air duct cover plate	1	1
9	Interior light	1	1
10	Control and display elements	1	1
11	Freezer shelf	1	1
12	Freezer compartment	1	1

6.3 Control and display elements



No. in
fig. 3

Description

1 Control knob

2 Display

6.4 Control knob

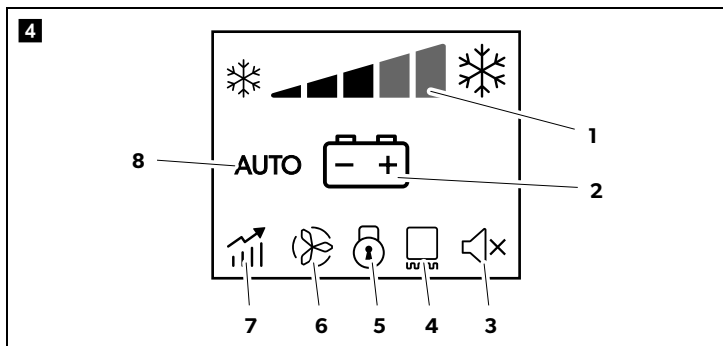
Function of the control knob:

- Rotate: Choose menu item. The selected menu item is highlighted.
- Short press: Confirm
- Press for 2 – 4 seconds: Confirm a fault (chapter “Troubleshooting” on page 30)

6.5 Display

Main menu

By default the display shows the following main menu:



No. in fig. 4	Description
1	 Cooling capacity indicator (cooling level 1 – 5)
2	 Operation with AC power
	 Operation with DC power
	 Operation with gas
3	 Beep off: Acoustic indication for extended door openings or fault messages is deactivated
	 Beep on: Acoustic indication for extended door openings or fault messages is activated
4	 RUA 6508X, RUA 8508X only: Frame heater for the freezer compartment is switched on (symbol is lit) or switched off (symbol is not lit).
5	 Child lock activated (see chapter “Setting the child lock” on page 19)

No. in fig. 4	Description	
6		Lower outer fan off or on in automatic or manual fan mode Automatic fan mode The fan switches on or off automatically.
		Manual fan mode The fan operates continuously.
		Off
7		User mode currently activated: Performance mode (factory default): All functionalities of the refrigerator activated.
		Battery save mode: Outer fans, front frame heater and defrost function are switched off. The refrigerator is operated with gas only. The power source selection is deactivated.
		Silent mode: Outer fans are switched off.
8	AUTO	Automatic mode selected: The most economical connected power source is automatically selected according to the following priority: • AC power • DC power • Gas
		– D+ Switching signal D+ detected
–		Tank stop mode activated

Tank stop mode



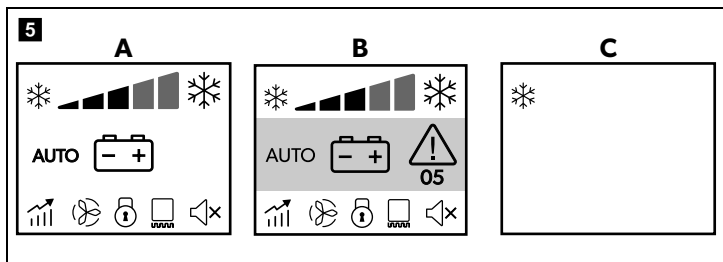
WARNING!

Turn off the refrigerator or select a different energy source if refueling takes longer than 15 minutes.

If the vehicle ignition is switched off, the refrigerator disables gas operation for 15 minutes for safety reasons.

In tank stop mode, the  symbol is displayed.

Standby mode and error screen



After 10 seconds without operating the control knob, the backlight dims and the display returns to the main menu (A).

After 3 minutes without operating the control knob, the display switches to standby mode (C). A snowflake appears in the upper left corner to indicate that the refrigerator is on, even if the display is in standby mode.



NOTE

If there is an active error display, the display remains active without switching to standby mode. The display changes to the error screen (B). In the error screen, the middle section is highlighted in red and shows the corresponding error code (see chapter "Troubleshooting" on page 30).

7 Using the refrigerator

7.1 Before first use



NOTE

- Do not store goods in the refrigerator for the first 4 hours after start-up.
- When using the refrigerator for the first time, there may be a mild odor which will disappear after a few hours. Air out the living space well.
- Always park the vehicle so that it is level, especially when starting up and filling the refrigerator before setting off on a journey.

► Clean the inside of the refrigerator for hygienic reasons (see chapter "Cleaning" on page 27).

7.2 Information on storing food



CAUTION! Health hazard

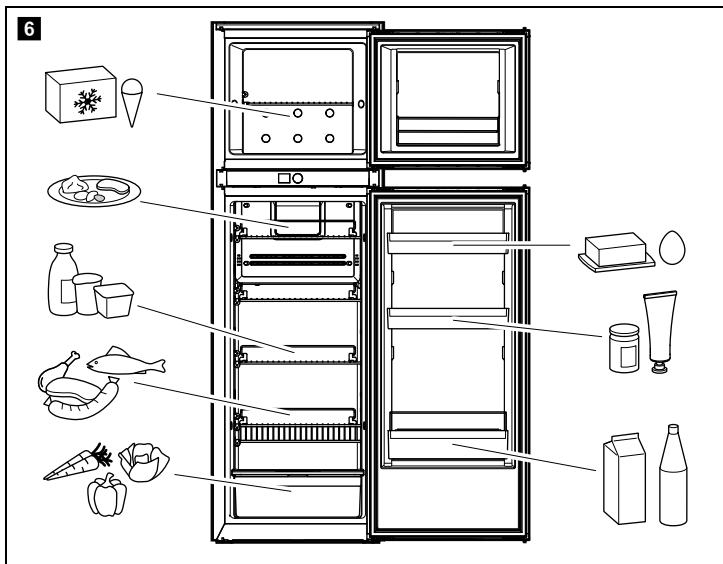
If the refrigerator is exposed to an ambient temperature below +10 °C for an extended period of time, regulation of the frozen compartment temperature can no longer be guaranteed. That may cause the temperature of the frozen compartment to increase and the stored goods to be defrosted.



NOTICE! Damage hazard

- Observe the maximum load per door shelf and door when filling the refrigerator (see chapter "Technical data" on page 35).
- Do not keep carbonated drinks in the frozen compartment.

► Store food as shown in fig. **6** :



7.3 Saving energy

- Only open the refrigerator as often and for as long as necessary.
- Allow warm food to cool down first before placing it in the device to keep cool.
- Defrost your refrigerator as soon as a layer of ice forms.
- Avoid unnecessarily low temperature settings.
- For optimal energy consumption, position the shelves and drawers according to their position on delivery.
- On a regular basis, make sure the door seal still fits properly.
- Clean dust and dirt from the condenser at regular intervals.
- Arrange the food in the refrigerator so that air can circulate.

7.4 Tips for optimal refrigerator operation

- Protect the interior of the vehicle from warming up excessively (e.g. sunshades in the windows, air conditioner).
- Protect the refrigerator from direct sunlight (e.g. sunshades in the windows).

7.5 Switching on the refrigerator

- Press and hold the control knob for at least 3 seconds.
- ✓ The refrigerator starts with the last selected power source.

7.6 Switching off the refrigerator

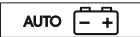
- Press and hold the control knob for at least 3 seconds.
- ✓ The refrigerator switches off.

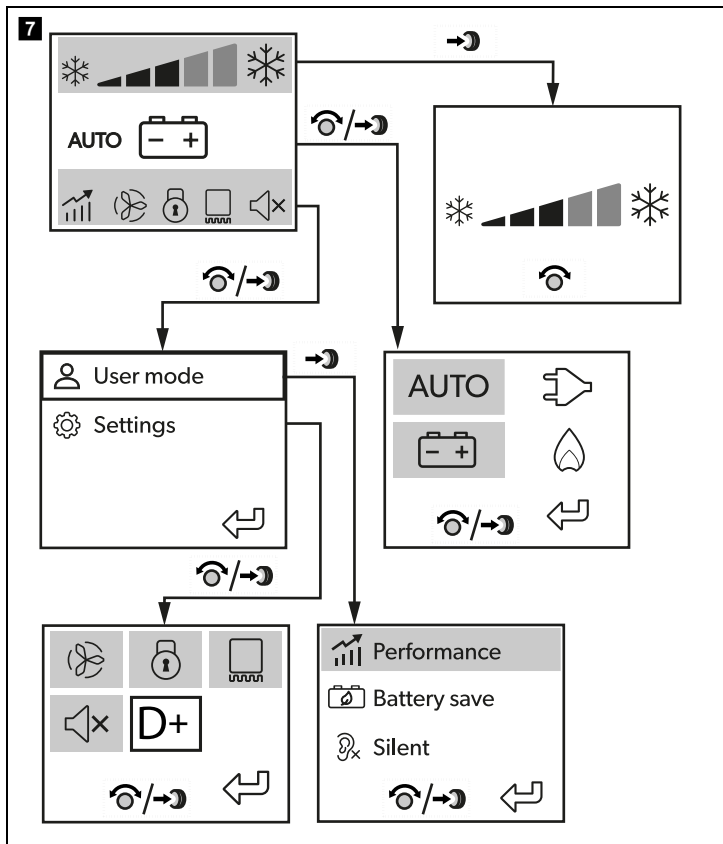
7.7 Operating the refrigerator

Menu navigation: fig. 7

- Press the control knob to activate the display.

The main menu is divided into three submenus:

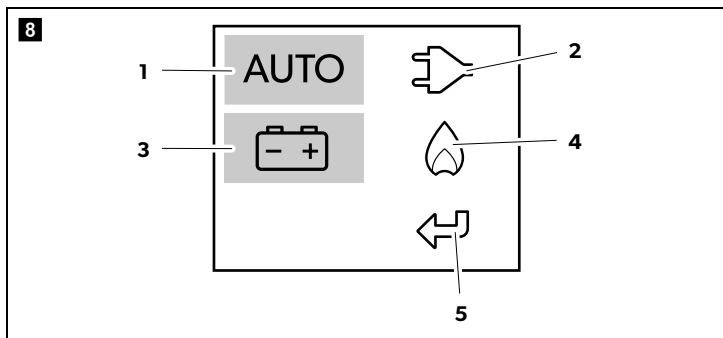
Main menu	Submenu
	Cooling capacity
	Operating mode
	Settings



1. Rotate the control knob to select a submenu.
2. Press the control knob to open the selected submenu.
✓ The submenu opens.
3. Rotate the control knob to navigate through the submenu items or to adjust a setting.
4. Press the control knob to select a submenu item and confirm a setting.
5. Press to return to the main menu.

7.8 Selecting the type of energy

► Select the submenu "Operating mode" (see table on page 16). The following screen is displayed:



No. in fig. 8	Button	Description
1	AUTO	Activating/ deactivating automatic operation mode Note: Automatic operation mode is only available, if D+ is detected.
2		Setting operation with AC power
3		Setting operation with DC power
4		Setting operation with gas
5		Returning to the main menu

The type of energy to be used can be selected manually (see chapter "Selecting the type of energy manually" on page 19). With automatic operation mode activated, the refrigerator selects the most economical connected type of energy automatically (see chapter "Setting automatic operation" on page 19).

**NOTE****Operation with gas:**

- For ignition, the device makes 3 attempts, each at an interval of 2 minutes, to ignite the flame. Each ignition attempt is interrupted after 30 seconds without flame. If ignition fails in all 3 attempts, an error code will be displayed on the error screen (see chapter “Troubleshooting” on page 30).
- The refrigerator is equipped with an automatic safety device that cuts off the gas supply to the burner approximately 30 seconds after the flame goes out.
- If the vehicle ignition is switched off, the refrigerator switches to tank stop mode for safety reasons. This disables gas operation for 15 minutes. Turn off the refrigerator or select a different energy source if refueling takes longer than 15 minutes.

Selecting the type of energy manually**NOTE**

Only switch to DC power supply after the set cooling temperature has been reached

- Press the button to set operation with AC power.
- Press the button to set operation with DC power.
- Press the button to set operation with gas.

Setting automatic operation

- Press the **AUTO** button (chapter “Selecting the type of energy” on page 18) to activate or deactivate automatic operation mode.
- ✓ Depending on the setting, the **AUTO** symbol is shown or hidden in the main menu (fig. **4 8**, page 12).
- ✓ With automatic operation mode activated, the most economical connected power source is automatically selected according to the following priority:
 - AC power
 - DC power
 - Gas

7.9 Setting the cooling capacity**NOTE**

For ambient temperatures of +15 °C to +25 °C, select the average cooling capacity.

- Select the submenu “Cooling capacity” (see table on page 16)
- Rotate the control knob to set the desired cooling level.

7.10 Setting the child lock

The child lock can be activated to prevent children from using the controls.

- Select the submenu “Settings” (see table on page 16) and open “Settings”.
- Push the button to activate or deactivate the child lock.

The child lock can be temporarily overridden without deactivating the function.

- If activated, push the control knob 3 times within 1.5 seconds to temporarily override the child lock and unlock the controls.
- ✓ After 10 seconds without operating the control knob, the child lock is reactivated.

7.11 Using the refrigerator door/freezer compartment door



CAUTION! Risk of injury

- Ensure that refrigerator doors are locked before you leave on your trip.
- Always open the refrigerator doors carefully, as the foodstuff may have slipped and could fall out.



NOTICE! Damage hazard

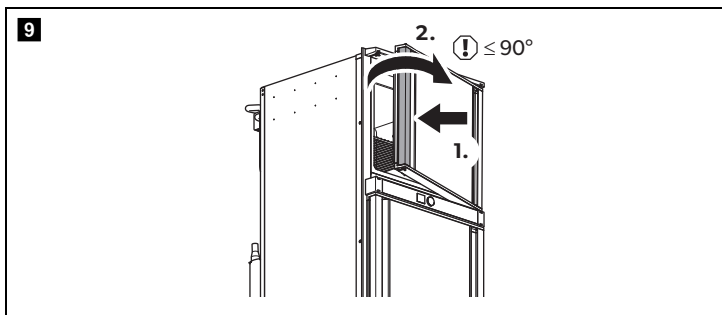
Do not open the refrigerator door and freezer compartment door further than a 90° angle to avoid damaging the doors.



NOTE

The refrigerator door and freezer compartment door can be opened from both sides. After each use, ensure that the doors are closed and you hear a click. The doors will not open on one side until the other side is firmly closed.

Opening the refrigerator door/freezer compartment door



► Press the handle and pull the door open.

Locking the refrigerator door/freezer compartment door

1. Ensure the door is not in the winter position (chapter "Removing and refitting the shelves" on page 22).
 2. Press the door shut until it clearly audibly clicks into place.
- ✓ The door is now closed and secured.

Positioning the refrigerator door into winter position (fig. 10)



CAUTION! Risk of injury

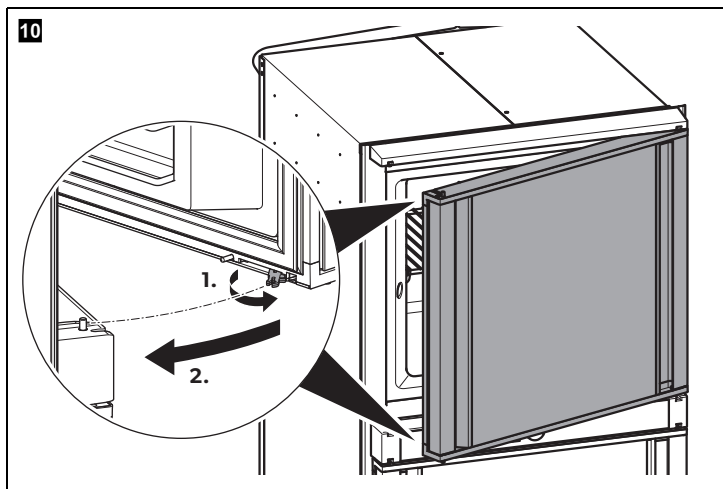
The winter position may **not** be used while driving.

Put the refrigerator door and the freezer compartment door into the winter position if the refrigerator will not be used for an extended period of time. This prevents mold from forming.

1. Defrost the refrigerator (chapter "Defrosting the refrigerator" on page 29).
2. Turn the hook near the securing mechanism all the way at the top and bottom of one side of the door (fig. 10 1.).

3. Press against the refrigerator door (fig. 10 2.).

✓ The protruding pin snaps into the hook. The door is locked in position.



7.12 Using the crisper



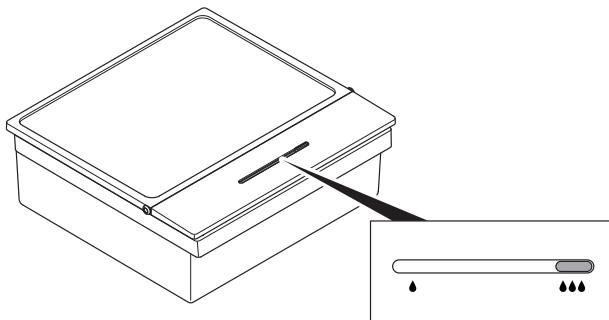
NOTICE! Damage hazard

The maximum load capacity of the crisper is 18 l.

► Use the slider in the crisper (fig. 11, page 22) to regulate the humidity in the vegetable compartment:

Goods to be cooled	Optimal humidity	Slider position
Vegetables 	High 	► Close the slider.
Fruit 	Low 	► Open the slider.

11



7.13 Removing and refitting the shelves

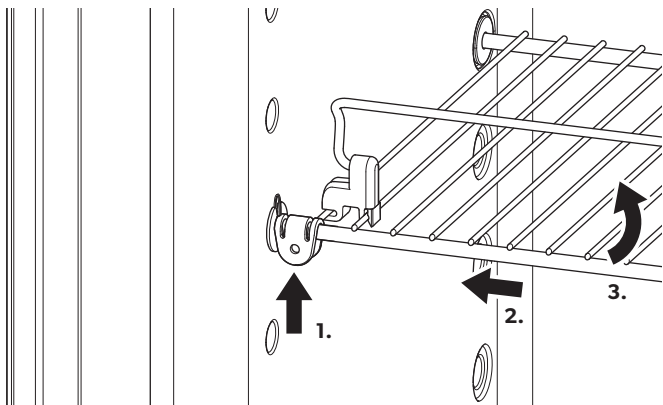
**WARNING! Risk of child entrapment**

All shelves are fixed in place to prevent children from climbing inside the refrigerator.

- Only remove the shelves for cleaning purposes.
- Refit the shelves and secure them in place.

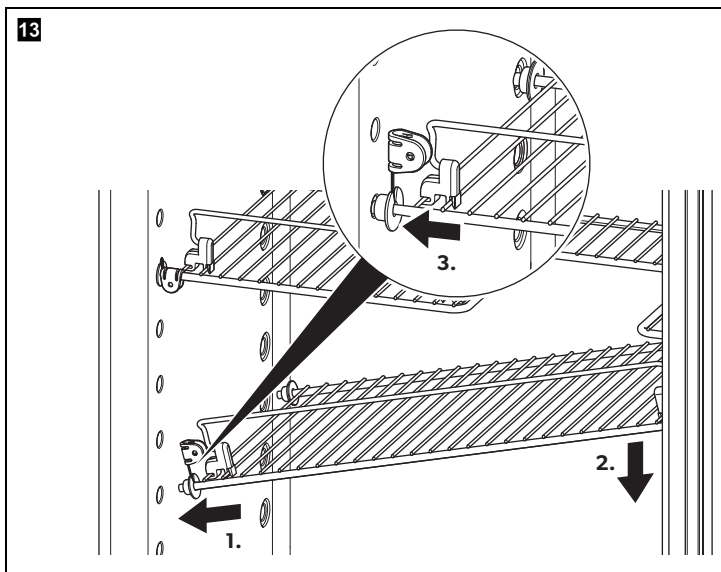
Removing the shelves (fig. 12, page 22)

12

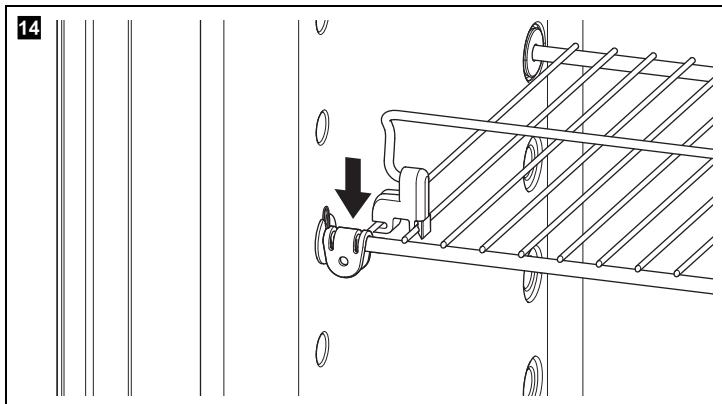


1. Push the locking clamps upwards and remove them (1.).
2. Slide the shelf to the left until the plastic holders on the right side are free (2.).
3. Tilt the right end of the shelf up until the plastic holders on the left side are free (3.).
4. Pull the shelf out frontwards.

Refitting the shelves



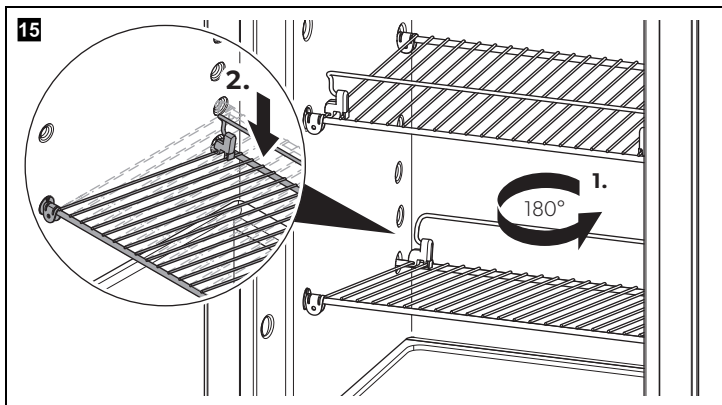
1. Tilt the right end of the shelf up to slide the shelf back into the refrigerator compartment.
2. Position the plastic holders on the left side in the suspension (fig. 13 1.).
3. Tilt the right end of the shelf down to align it level and slide the plastic holders on the right side into the suspension. (fig. 13 2.).
4. Ensure that the plastic holders are firmly seated in the suspensions (fig. 13 3.).
5. Reattach the locking clamps (fig. 14).



Positioning the bottle shelf

The shelves can be optionally installed in a backward or forward sloping position as a bottle rack.

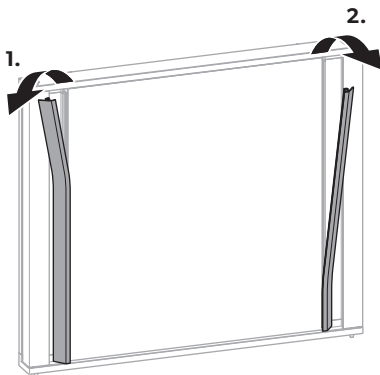
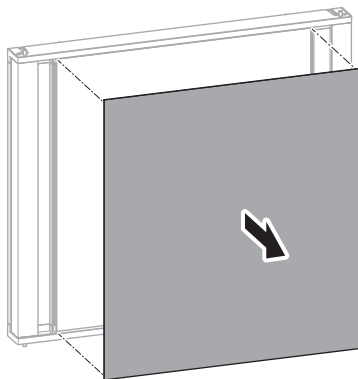
- Remove the respective shelf and relocate the shelf as shown in fig. 15.



7.14 Replacing the door panel

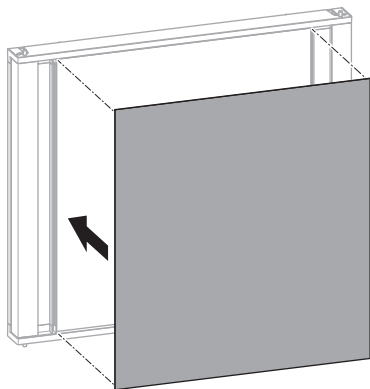
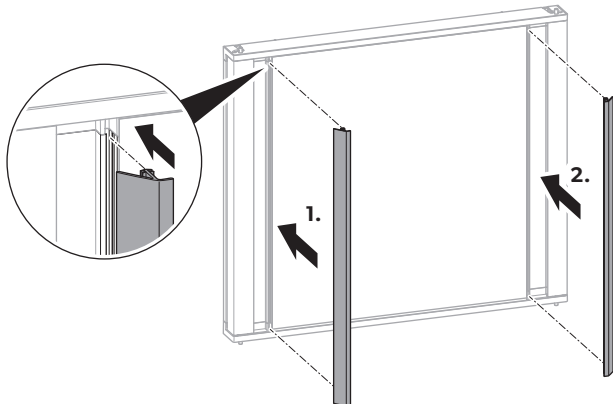
Removing the door panel

- Pull out the decorative strips on the sides of the door and remove the door panel.

16**17**

Installing the door panel

1. Place the door panel on the door (fig. **18**).
2. Secure the door panel by attaching the decorative strips to the sides of the door (fig. **19**).

18**19**

8 Cleaning



WARNING! Electrocution hazard

Always disconnect the refrigerator from the AC and DC power supply and turn off the gas before cleaning.



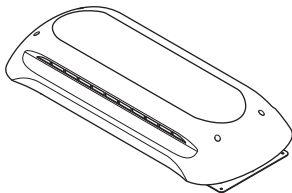
NOTICE! Damage hazard

- Do not use abrasive cleaning agents or hard objects during cleaning as these can damage the refrigerator.
- Never use hard or sharp tools to remove ice or to free objects frozen onto the device.
- Do not use any mechanical tools or any other tools to speed up the defrosting process.

- Clean the refrigerator regularly and as soon as it becomes dirty with a damp cloth.
- Ensure that no water drips into the seals or the controls as this can damage the electronics.
- Wipe the refrigerator dry with a cloth after cleaning.
- Check the condensate drain regularly.

Clean the condensate drain when necessary. If it is blocked the condensate collects on the bottom of the refrigerator.

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- Ensure that the ventilation grilles in the outer wall of the recreational vehicle and the roof vent of the refrigerator (fig. 20) are free of any dust and dirt, so that heat generated during operation can dissipate.

8.1 Cleaning the gas burner (fig. 21)

Perform a periodical inspection of the burner to ensure contamination / vermin does not impede the burners performance

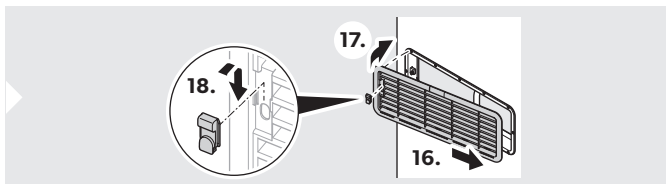
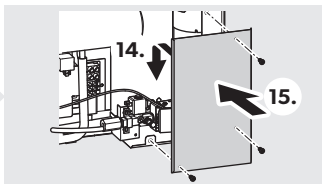
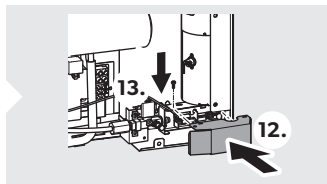
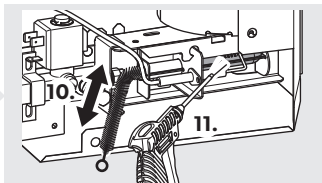
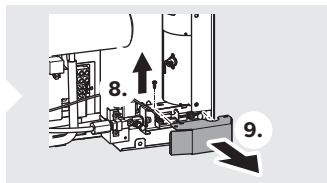
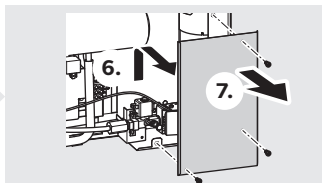
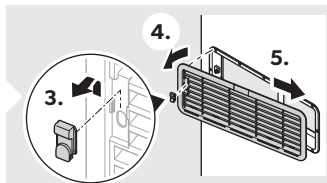
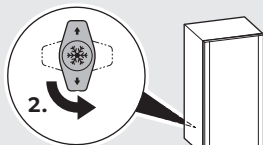
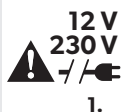


WARNING! Burn hazard

- Allow the burner to cool down before cleaning it.
- Do not modify the gas equipment. The gas burner can be cleaned without removing the gas equipment.

1. Disconnect the AC and DC power supply (1.).
2. Close the gas valve to the refrigerator before cleaning the gas burner (2.).
3. Remove the ventilation grille (3. – 5.).
4. Remove the gas burner cover (6. – 7.).
5. Press the catch below the burner cover inwards, and remove the catch (8. – 9.).
6. Clean the burner pipe from coarse impurities using a suitable cleaning brush with soft bristles (10.).
7. Blow out the burner pipe with compressed air through the slots in the burner pipe (11.).
8. Reinstall the catch, the gas burner cover and the ventilation grille (12. – 18.).

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9 Maintenance



WARNING! Risk of explosion and electrocution hazard

- Work on gas and electrical installations may only be performed by qualified technicians. Always disconnect the refrigerator from the AC and DC power supply and turn off the gas before servicing it.

- Have the gas system and connected flues inspected regularly by a qualified specialist to ensure that they comply with national safety requirements.
- Keep a record of any maintenance performed.

9.1 Defrosting the refrigerator

The refrigerator compartment is equipped with a cyclic defrost system that prevents excessive frost formation on the evaporator fins. If the refrigerator is used for a long time in high humidity and/or high ambient temperatures, frost may still form on the evaporator fins and the refrigerator must be defrosted manually.



NOTICE! Damage hazard

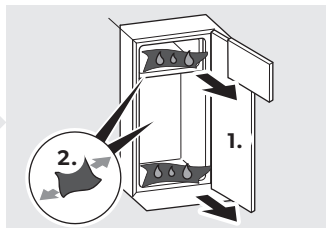
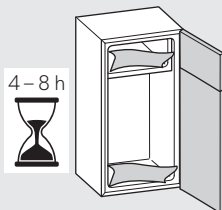
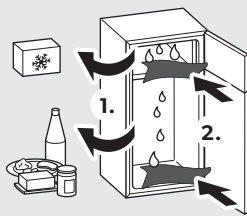
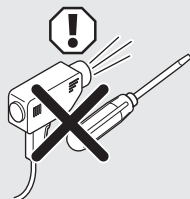
Do not use mechanical tools or a hair dryer to remove ice or to loosen frozen items.



NOTE

The freezer compartment must be defrosted at regular intervals. Defrost the freezer compartment once the frost layer is higher than 3 mm.

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1. Disconnect the voltage and gas supply.
2. Remove the contents from the freezer and refrigerator compartments.
3. Put a cloth in the freezer and refrigerator compartment to absorb any excess water.
4. Leave the doors open for at least 4 h.
- ✓ The condensate drains off through a hose at the back of the refrigerator and is discharged to the outside of the vehicle.
5. Wipe the freezer and refrigerator compartment dry with a cloth.

10 Troubleshooting

Problem	Possible cause	Suggested remedy
With AC operation: The refrigerator does not work.	The fuse in the AC power supply is defective.	➤ Replace the fuse.
	The vehicle is not connected to the AC power supply.	➤ Connect the vehicle to the AC power supply.
	The AC heating element is defective.	➤ Contact an authorized service agent.
With DC operation: The refrigerator does not work.	The fuse in the DC cable is defective.	➤ Contact an authorized service agent.
	The vehicle fuse has blown.	➤ Replace the vehicle fuse in the DC socket. Refer to the operating manual of your vehicle.
	The vehicle battery is discharged.	➤ Charge the vehicle battery.
	The ignition is not switched on.	➤ Switch on the ignition.
	The DC heating element is defective.	➤ Contact an authorized service agent.
With gas operation: The refrigerator does not work.	The gas cylinder is empty.	➤ Replace the gas cylinder.
	The gas valve is closed.	➤ Open the gas valve.
	There is air in the gas supply line.	➤ Switch the refrigerator off and on again. Repeat the process several times if necessary.
In automatic operation mode: The refrigerator is being operated with gas although it is connected to an AC power supply.	The voltage is too low.	➤ The refrigerator changes to AC power supply automatically as soon as the voltage is sufficient.

Problem	Possible cause	Suggested remedy
The refrigerator does not cool sufficiently.	The ventilation around the cooling unit is not sufficient.	➤ Check that the ventilation grille is not obstructed.
	The evaporator is iced up.	➤ Check whether the refrigerator door is closes properly and the seals are not damaged. ➤ Defrost the refrigerator.
	The cooling capacity is set too low.	➤ Set a higher cooling capacity.
	The ambient temperature is too high.	➤ Temporarily remove the ventilation grille to allow the warm air to escape more quickly. ➤ Ensure a lower ambient temperature.
	Too much foodstuff was placed in the refrigerator at once.	➤ Reduce the contents of the refrigerator.
	Too many hot foods were placed in the refrigerator at once.	➤ Remove the warm food and leave it to cool down before putting it in again.
	The refrigerator has not been in operation for very long.	➤ Check the temperature again after 4–5 hours.

10.1 Fault messages and beeps

All faults are indicated on the display by highlighting the middle submenu on the main menu with a red banner and a code (error screen, see fig. **5 B**, page 14).

Faults that terminate the entire cooling function are additionally indicated by a beep. The beep will last for 2 minutes and repeat every 30 minutes until the fault is cleared.

If several faults occur, the display shows the last fault that occurred. After the fault has been cleared, subsequent faults are displayed.

WARNING type fault messages

All faults of the WARNING type are reset automatically once the fault has been rectified.

Error message	Fault	Solution
01	Thermostat sensor error; Cooling operation continues in a cycle of 45 minutes ON and 15 minutes OFF	➤ Contact an authorized service agent.
05 + icon flashing	AC power supply not connected or AC undervoltage (<190 V)	➤ Connect the refrigerator to an AC power supply or select another type of supply, such as gas or DC.
06 + icon flashing	DC power supply not connected	➤ Connect the refrigerator to a DC power supply or select another type of supply, such as gas or AC.
10 + icon flashing and a beep	The refrigerator door is opened for more than 2 minutes.	➤ Close the refrigerator door.
11	DC overvoltage (>16 V)	➤ Reduce the DC supply voltage.
14	Internal fan defective Cooling operation is continued with a fixed thermostat setting. Cut-in: +1 °C Cut-out: -13 °C	➤ Contact an authorized service agent.
15	Low current at the frame heater	➤ Switch the refrigerator off and on again. ➤ Contact an authorized service agent if this error occurs again.
17	Low current at the defrost heater	➤ Switch the refrigerator off and on again. ➤ Contact an authorized service agent if this error occurs again.
22	DC undervoltage (<10 V)	The refrigerator changes to gas supply automatically. ➤ Charge the vehicle battery.
24	Display element suffers from poor grounding	➤ Ensure sufficient grounding. ➤ Contact an authorized service agent if this error occurs again.
	Tank stop mode: Gas operation is blocked for 15 minutes.	➤ Wait 15 minutes or switch to another type of supply.

ERROR type fault messages

All faults of the ERROR type must be reset manually:

- Press and hold the control knob between 2 and 4 seconds.
- ✓ The error has been reset.

Error message	Fault	Solution
03	No communication between power module and display; operation is continued with the last saved settings	➤ Contact an authorized service agent.
07 + a beep	No cooling capacity in gas mode	➤ Check if the device is at an angle and adjust it if necessary. ➤ Reset the error.
08 + a beep	No cooling capacity in AC mode	➤ Contact an authorized service agent if this error occurs again.
09 + a beep	No cooling capacity in DC mode	
12	Gas valve test error; gas operation is locked	➤ Reset the error. ➤ Contact an authorized service agent if this error occurs again.
13	Faulty dynamic valve signal; gas operation is locked	➤ Reset the error. ➤ Contact an authorized service agent if this error occurs again.
16	Over current protection of the frame heater; frame heater is turned off	➤ Reset the error. ➤ Contact an authorized service agent if this error occurs again.
18	Over current protection of the defrost heater; defrost heater is turned off	➤ Reset the error. ➤ Contact an authorized service agent if this error occurs again.
50 + icon flashing	Gas lock after 3 ignition attempts; gas operation is locked	Ignition not possible. ➤ The gas cylinder is empty. Exchange the gas cylinder. ➤ Reset the error.
51 + icon flashing	Gas lock; gas operation is locked	➤ Reset the error. ➤ Contact an authorized service agent if this error occurs again.
52 + icon flashing	Short circuit in gas valve; gas operation is locked	➤ Reset the error. ➤ Contact an authorized service agent if this error occurs again.
53 + icon flashing	Short circuit of ignition electrode; gas operation is locked	➤ Reset the error. ➤ Contact an authorized service agent if this error occurs again.

11 Warranty

If the product does not work as it should, please contact your retailer or the manufacturer's branch in your country (see dometic.com/dealer). The warranty applicable to your product is PLACEHOLDER YEARS year(s).

For repair and warranty processing, please include the following documents when you send in the device:

- A copy of the receipt with purchasing date
- A reason for the claim or description of the fault

Australia only

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

New Zealand only

This warranty policy is subject to the conditions and guarantees which are mandatory as implied by the Consumer Guarantees Act 1993(NZ).

Local support

Please find local support at the following link address: dometic.com/dealer

12 Disposal



NOTICE!

The insulation of the cooling device contains flammable cyclopentane and requires special disposal procedures. Deliver the cooling device at the end of its life-cycle to an appropriate recycling center.



- Place the packaging material in the appropriate recycling waste bins wherever possible.
- Consult a local recycling center or specialist dealer for details about how to dispose of the product in accordance with the applicable disposal regulations.

13 Technical data

	RUA 5308X	RUA 6508X	RUA 8508X
Capacity			
• Refrigerator compartment	133 l	134 l	170 l
• Frozen compartment	13 l	46 l	46 l
• Total capacity	146 l	180 l	216 l
Connection voltage	230 to 240 V~, 50 /60 Hz 12 V=		
Power consumption*			
• 240 V~	195 W	325 W	
• 12 V=	175 W	275 W	
Energy consumption			
• 240 V~	3.6 kWh/24 h	6.6 kWh/24 h	6.7 kWh/24 h
• 12 V=	285 Ah/24 h	539 Ah/24 h	516 Ah/24 h
Gas consumption*	380 g/24 h	500 g/24 h	500 g/24 h
Refrigerant	R717		
Refrigerant quantity	230 g	328 g	384 g
Climate class	T		
Dimensions H x W x D (in mm)			
• With flange	1194 x 550 x 667	1451 x 550 x 667	1661 x 550 x 667
• Without flange	1181 x 525 x 667	1438 x 525 x 667	1648 x 525 x 667
• Depth from flange rear face	611	611	611
Weight	53 kg	66 kg	73 kg
Maximum load			
• Per upper door rack	3 kg		
• Per bottom door rack	4.5 kg		
• Per door	10.5 kg		
Inspection/certification	 		

*The power and gas consumptions are measured at 32 °C ambient temperature with 4 °C average cooling temperature in the refrigerator compartment.

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