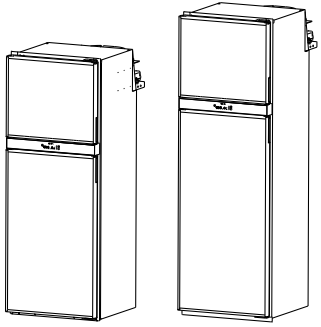
DOMETIC

REFRIGERATION
RU CORE



RUC6404X, RUC8404X

Copyright

English

1 Important notes

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.

2 Explanation of symbols

A signal word will identify safety messages and property damage messages, and also will indicate the degree or level of hazard seriousness.

DANGER!
Indicates a hazardous situation that, if not avoided, will result in death or serious injury.

WARNING!
Indicates a hazardous situation that, if not avoided, could result in death or serious injury.

CAUTION!
Indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.

NOTICE!
Indicates a situation that, if not avoided, could result in property damage.

NOTE Supplementary information for operating the product.

3 Safety instruction

3.1 General safety

WARNING! Fire hazard
Ensure clean and residue-free handling if silicon sealant or similar is used. There is a risk of fire if silicone filaments come into contact with hot parts or naked flames.

WARNING! Electrocution hazard

> Installation and removal of the refrigerator may only be carried out by qualified personnel.
> Installation in washrooms and areas exposed to water must be performed by a qualified technician.
> If installing the refrigerator under a canopy or similar environment, ensure that the refrigerator is protected from rain and splashing water.
> 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 the power cable for this refrigerator is damaged, it must be replaced by the manufacturer, customer service 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 touch exposed cables with your bare hands.

WARNING! 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.
> For refrigerators with flammable refrigerant: The refrigeration circuit contains a small quantity of an environmentally friendly but flammable refrigerant. It does not damage the ozone layer and does not increase the greenhouse effect. Any leaking refrigerant may ignite.
> For refrigerators with flammable refrigerant: Do not use or store the refrigerator in confined spaces with none or minimal air flow.
> Keep the installation recess for the refrigerator free of any electrical components and light sources which during normal or abnormal operation produce sparks or arcs (i.e., relays or fuse boxes).
> 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.

WARNING! Explosion hazard
Do not store any explosive substances, such as aerosol cans with propellants, in the refrigerator.

WARNING! 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.

WARNING! 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! 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.

CAUTION! 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

> If present, keep the condensate drain clean at all times.
> If the refrigerator has ventilation grilles, do not use a high-pressure cleaner near the ventilation grille when cleaning the vehicle.
> The refrigerator shall not be exposed to rain.
> Never pull the plug out of the socket by the connection cable.

WARNING! Hazard due to unprofessional maintenance

It is hazardous for anyone other than an Authorized Service Person to service this appliance.
In Queensland the authorized Service Person MUST hold a Gas Work Authorization for hydrocarbon refrigerants to carry out servicing or repairs where the gas system is being opened or charged.

3.2 Safety when operating

CAUTION! Health hazard

> Ensure to put only items in the refrigerator which may be chilled at the selected temperature.
> 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.
> Opening the door for long periods can cause a significant increase of the temperature in the compartments of the refrigerator. 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.

CAUTION! 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. If the refrigerator is equipped with ventilation grilles, protect yourself from contact with hot parts when removing the 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 system of your vehicle shuts down the refrigerator to protect the battery, contact your vehicle manufacturer.
> For ambient temperatures of 15°C … 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 freezer as often and for as long as necessary. 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.

WARNING! Hazard due to unprofessional maintenance
It is hazardous for anyone other than an Authorized Service Person to service this appliance. In Queensland the authorized Service Person MUST hold a Gas Work Authorization for hydrocarbon refrigerants to carry out servicing or repairs where the gas system is being opened or charged.

4 Explanation of symbols on the device


Warning! Risk of fire. Flammable materials.

5 Scope of delivery

Quantity	Description
1	Compressor refrigerator
1	Drain hose
1	Bottom trim piece
1	Sealing strip (fitted underneath during installation)
1	Installation and Operating Manual

6 Accessories

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

Description	Ref. No.
LS300 ventilation grille	9620000524, 9620000525
Roof vent kit	9620008608, 9620008609
Internal vent kit	9620018441

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

7 Intended use

The refrigerator is intended for:

- Installation in caravans and motor homes
- Cooling and storing food
- Storing pre-frozen food

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

The refrigerator is **not** suitable for:

- Storing medications and other medical products
- Storing corrosion substances or substances that contain solvents
- Quickly-freezing food

The frozen 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 operation 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.

8 Technical description

8.1 General

The refrigerator is a compressor refrigerator.

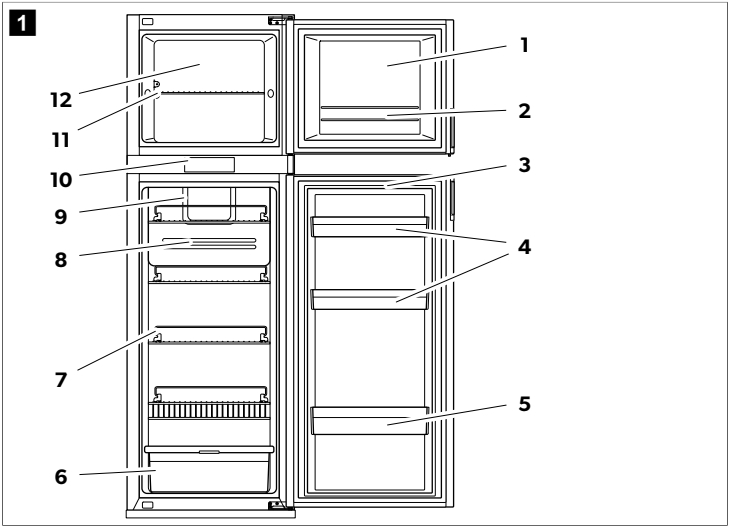
The refrigerator models **RUC6404X** and **RUC8404X** are suitable for use with a 12 V ⎓ / 24 V ⎓ voltage.

The thermostatic control ensures that the refrigerator temperature maintains a constant temperature while using as little power as possible.

The refrigerator withstands a short-term inclination of 30 ° , e.g., when used on boats.

All materials used in the refrigerator are compatible for use with foodstuffs. The refrigerant circuit is hermetically sealed.

8.2 Components



	Description	Quantity	
		RUC6404X	RUC8404X
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	Vegetable compartment	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

8.3 Display

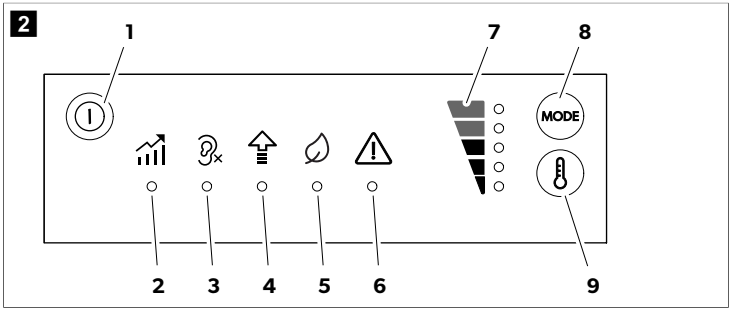
NOTE
TURBO mode:

When using TURBO mode, the refrigerator remains in this mode for 12 h or until a temperature of – 2°C is reached and then automatically switches to PERFORMANCE mode at cooling level 5.

Inner fan:

The inner fan switches off while the refrigerator door is opened and switches on again after the door is closed.

8.3.1 Main menu



No.	Symbol	Description
1		ON/OFF button
2		Performance mode (factory default): All functionalities of the refrigerator are activated. The inner fan switches on and off in the same way as the compressor. Cooling level 1 – 5
3		Quiet mode: The outer fan operates at low speed. The inner fan switches on and off in the same way as the compressor. The compressor speed is limited. Cooling level 1 – 3

No.	Symbol	Description
4		Turbo mode: The outer fan and the compressor operate at high speed. The inner fan switches on and off in the same way as the compressor. The defrost function is switched off. Cooling level 5
5		Eco mode: Operation with reduced energy consumption. The inner fan remains switched on during the compressor switch-off cycles. The defrost function is switched off. Cooling level 3
6		Error warning
7		Temperature indicator
8		Mode selection button
9		Temperature selection button

8.3.2 User modes

	Performance	Quiet	Eco	Turbo
Symbol				
Cooling level	1 – 5	1 – 3	3	5
Compressor speed	Auto	Limited	Auto	High
Outer fan	Auto	Low	Auto	High
Defrost function	Auto	Auto	Off	Off
Duration	Ongoing	Ongoing	Ongoing	Max. 12 h

9 Installation

> Select one of the following installation variants depending on the installation situation:

- Installation with two rear vents (Fig. 7 on page 16)
- Installation with one lower rear vent and one roof vent (Fig. 8 on page 17)
- Installation with internal ventilation (Fig. 9 on page 18)
- Installation with top ventilation (Fig. 10 on page 19)

The distance between the refrigerator and the back wall has an impact on the cooling performance and power consumption. For optimal cooling performance:

> Ensure that the clearance between the refrigerator and the rear wall is at least 10 mm and not more than 25 mm
> If a clearance of over 25 mm cannot be avoided: Install an air guide, e.g., a ventilation plate, to reduce the air duct to a maximum width of 25 mm.

9.1 Preparation

WARNING! Fire hazard
Do not locate multiple socket-outlets or portable power supplies at the rear of the refrigerator.

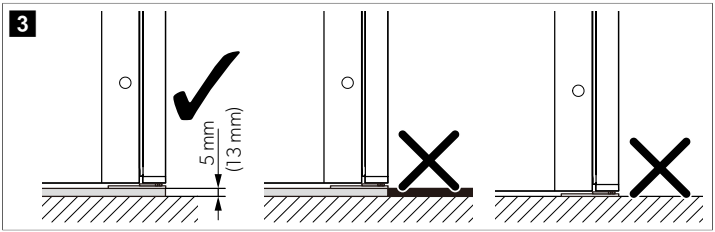
CAUTION! Risk of injury
The refrigerator has sharp edges. Use gloves during installation.

NOTICE! Damage hazard
Do not install the refrigerator in the rear of motor homes with the door facing the direction of travel.

When installing the refrigerator, consider the following:

> Ensure that the floor is solid and level. Park the vehicle horizontally for this purpose.
> The refrigerator must be installed so that:
v • The refrigerator is easily accessible for service work.
  • The refrigerator is easy to uninstall and install.
  • The refrigerator can be easily removed from the vehicle.
> The refrigerator must be installed in a recess so that it stands secure when the vehicle is in motion.

  Depending on the installation, ventilation can be internal or external. With internal ventilation, a top grille, a bottom grille and guide rails are used so that the installation dimensions are larger than with external ventilation.
> The refrigerator must be installed with a minimum distance of 5 mm for external ventilation and a minimum distance of 13 mm for internal ventilation from the floor to have sufficient space for the bottom grille and to ensure that the door can be opened properly (Fig. 3 on page 12).



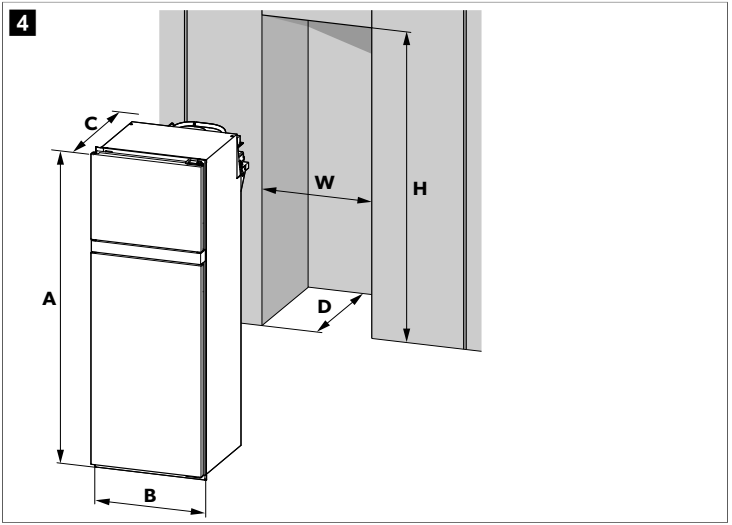
NOTE Damage hazard
> Ensure that no carpets interfere with the free movement of the door.
> Avoid placing the refrigerator directly on the floor.

> The refrigerator must not be installed to the side of the air inlet and outlet vents as this leads to poor performance and increases the power consumption of the refrigerator.

> The air inlet and outlet vents must not be covered by vehicle parts during operation (e.g., by an open door or by attached accessories such as bicycle racks).

> Choose an installation location where the refrigerator is protected from drafts, excessive heat, and moisture.

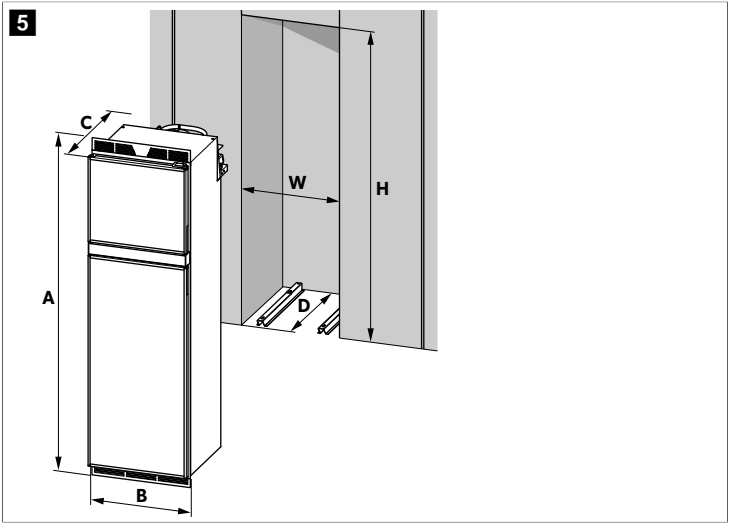
9.1.1 Dimensions of recess and refrigerator (external ventilation)



Refrigerator	RUC6404X	RUC8404X
	Dimension in mm	
Height (**A**) (excluding flange, 13 mm)	1434	1644
Width (**B**) (excluding flange, 25 mm)	525	525
Depth (**C**) (excluding control knob, 5 mm)	677	677

Recess			
Height (**H**)	1181 … 1186	1437 … 1442	1647 … 1652
Width (**W**)	530 … 535	530 … 535	530 … 535
Depth (**D**)	Min. 611	Min. 611	Min. 611

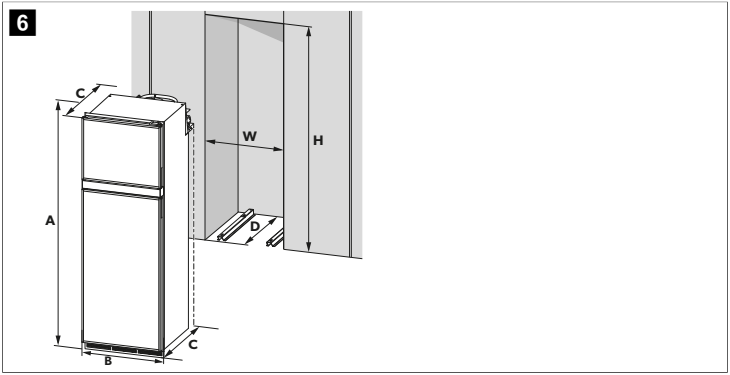
9.1.2 Dimensions of recess and refrigerator (internal ventilation)



Refrigerator	RUC6404X	RUC8404X
	Dimension in mm	
Height (**A**) (including ventilation grilles)	1554	1765
Width (**B**) (excluding flange, 25 mm)	525	525
Depth (**C**)	677	677

Recess		
Height (**H**)	1534 ... 1539	1744 ... 1749
Width (**W**)	530 ... 535	530 ... 535
Depth (**D**)	Min. 611	Min. 611

9.1.3 Dimensions of recess and refrigerator (top ventilation)



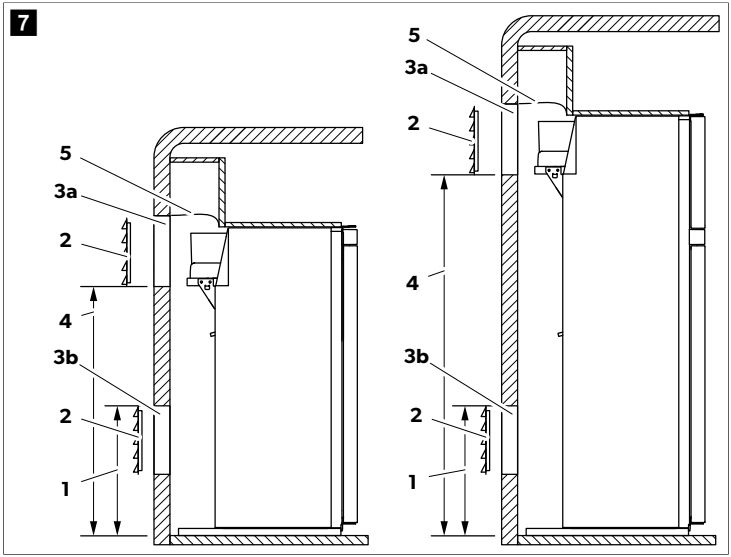
Refrigerator	RUC6404X	RUC8404X
	Dimension in mm	
Height (**A**)	1491	1700
Width (**B**)	550	550
Depth (**C**) (excluding control knob, 5 mm)	677	677

Recess		
Height (**H**)	1471 … 1476	1680 … 1685
Width (**W**)	530 … 535	530 … 535
Depth (**D**)	Min. 611	Min. 611

9.2 Installation with external ventilation

9.2.1 Installation with two rear vents

Air inlet vents and air outlet vents (**3a** and **3b**) must be installed in the outer wall so that the air can circulate and the heat generated can be dissipated to the outside.



No. in Fig. 7 on page 16	Description
1	Maximum height for the top edge of the ventilation grille (250 mm below the compressor shelf)
2	LS300 ventilation grille (accessories)
3a	Air outlet vent
3b	Air inlet vent
4	Minimum height for the bottom edge of the ventilation grille (equal to the height of the compressor shelf)
5	Air baffle

> Install an air baffle (**5** in Fig. 7 on page 16) above the compressor unit to prevent the heat from accumulating in the vehicle.

> Make cutouts in the wall for the air inlet and outlet vents. Observe the required dimensions specified in the installation manual for the LS ventilation grille.

- **Position of the air inlet vent**: It must be possible to install the ventilation grille so that the lower edge of the ventilation grille is at least 250 mm from the compressor shelf (**1** in Fig. **7** on page 16).
- **Position of the air outlet vent (rear venting)**: It must be possible to install the ventilation grille so that the bottom edge of the ventilation grille is not below the compressor shelf.

NOTE
Ensure that the bottom edge of the ventilation grille is as close as possible to the compressor shelf for optimum service access.

9.2.2 Installation with one lower rear vent and one roof vent

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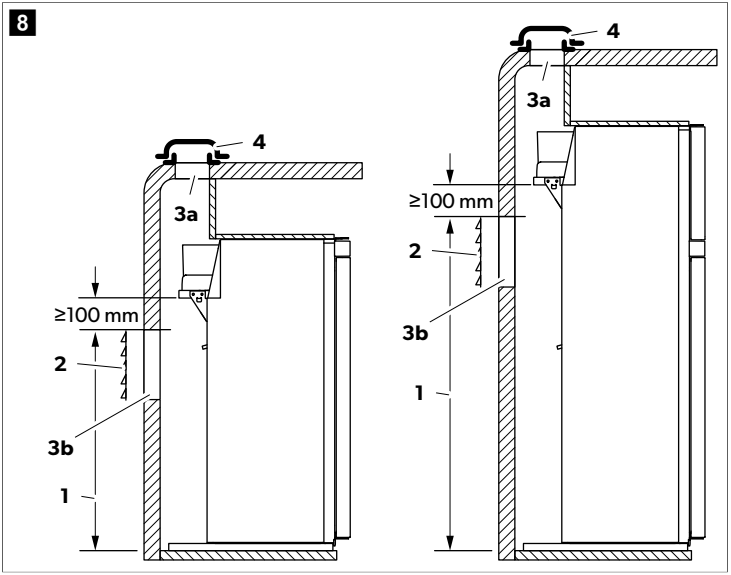


No. in Fig. 8 on page 17	Description
1	Maximum height for the top edge of the ventilation grille (equal to 100 mm below the compressor shelf)
2	LS300 ventilation grille (accessories
3a	Air outlet vent
3b	Air inlet vent

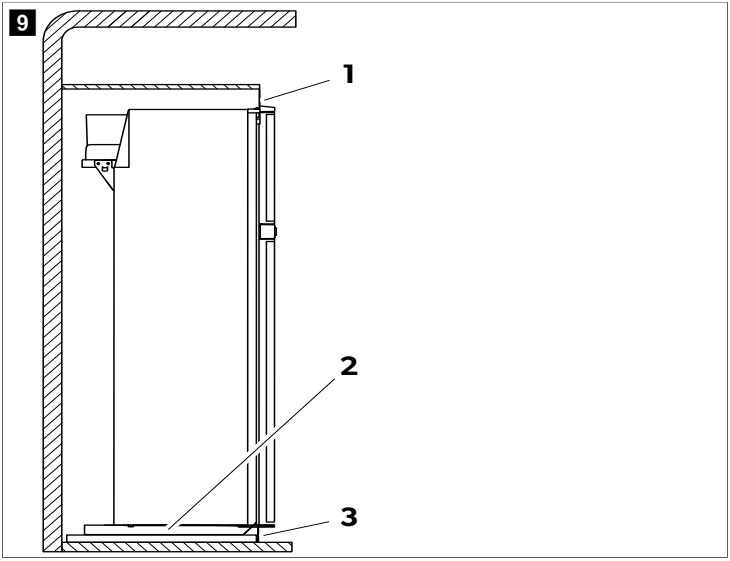
No. in Fig. 8 on page 17	Description
4	Roof vent (accessories)

> Make cutouts in the wall for the air inlet and outlet vents. Observe the required dimensions specified in the installation manual for the LS ventilation grille and the roof vent kit.

- **Position of the air inlet vent**: It must be possible to install the ventilation grille so that the upper edge of the ventilation grille is at least 100 mm from the compressor shelf (**1** in Fig. 8 on page 17).
- **Position of the air outlet vent (roof venting)**: The air outlet vent must be located directly above the cooling unit at the rear of the refrigerator.

NOTE If the air outlet vent **cannot** be installed directly, but only offset above the back of the refrigerator, install an air duct to prevent the heat from accumulating.

9.3 Installation with internal ventilation

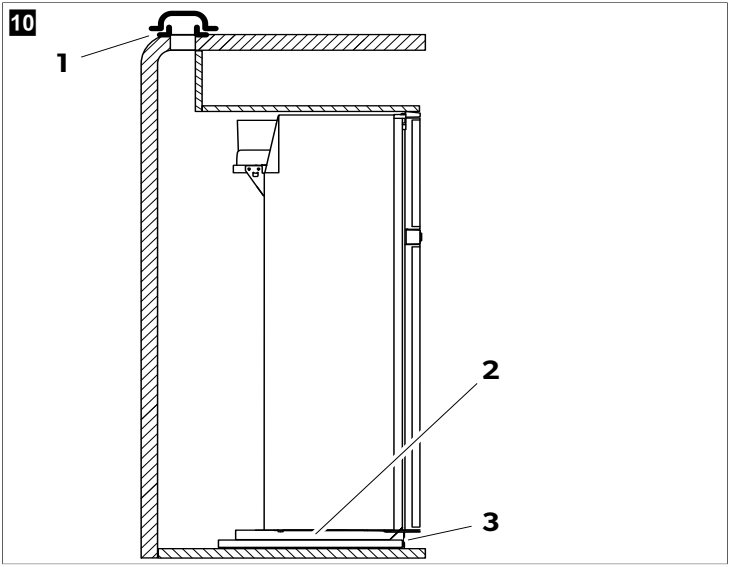


No. in Fig. 9 on page 18	Description
1	Top grille (accessories)
2	Guide rails (accessories)

No. in Fig. 9 on page 18	Description
3	Bottom grille (accessories)

1. Mount the top grille onto the top of the refrigerator (see Mounting the top grille on page 23).
2. Mount the guide rails onto the floor in the installation recess (see Mounting the guide rails on page 24).
3. Mount the bottom grille using the sealing strip (see Mounting the bottom grille on page 26).

9.4 Installation with top ventilation



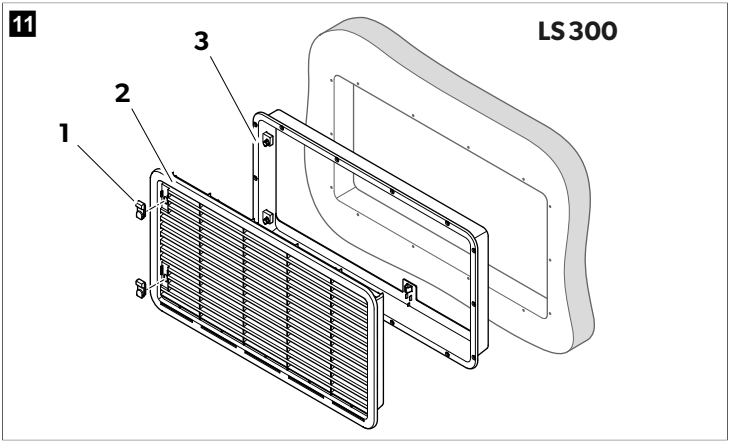
No. in Fig. 10 on page 19	Description
1	Roof vent (accessories)
2	Guide rails (accessories)
3	Bottom grille (accessories)

1. Mount the guide rails to the floor (see Mounting the guide rails on page 24).
2. Install the refrigerator and ensure that it is protected from excessive heat, otherwise it leads to poor performance and high power consumption of the refrigerator.
3. Mount the bottom grille (see Mounting the bottom grille on page 26).

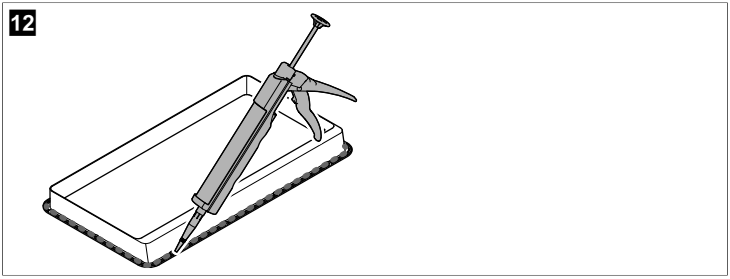
4. Install a roof vent (see Installation with one lower rear vent and one roof vent on page 17).

9.5 Installing the ventilation grille

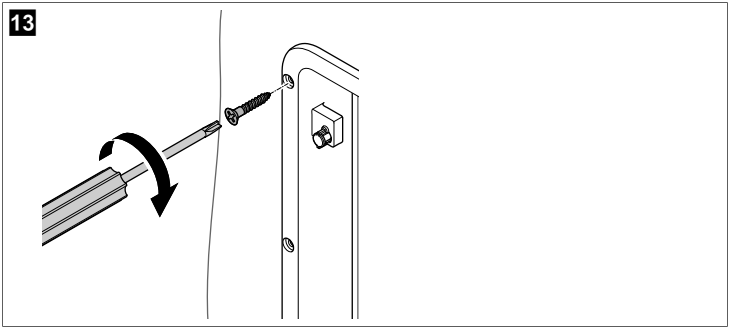
NOTE
Use the LS300 ventilation grille (accessories).



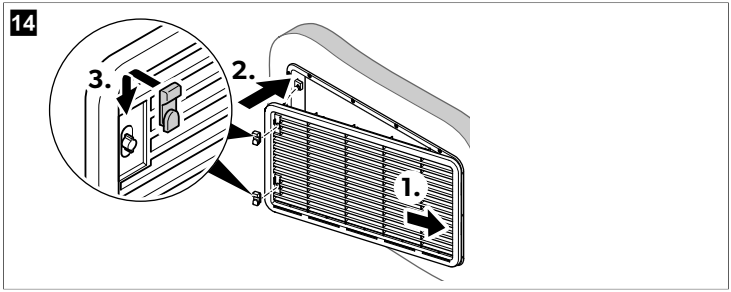
No. Fig. 11 on page 20	Description
1	Slider
2	Ventilation grille
3	Installation frame



1. Apply sealant to the inner edge of the installation frame to ensure the installation is water resistant (Fig. 11 on page 20).



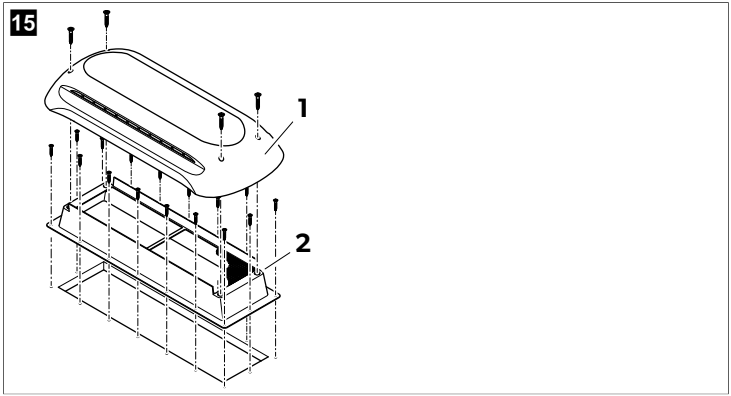
2. Insert the installation frame into the prepared openings in the outer wall (see Installation on page 11) and screw the installation frame to the mounting holes (Fig. 12 on page 21).



3. Insert the grille (**1** and **2** in Fig. 13 on page 21).
4. Insert the slider to lock the grille in place (**3** in Fig. 14 on page 22).

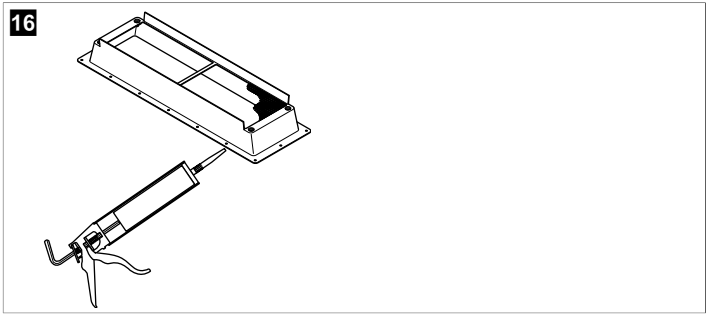
9.6 Installing the roof vent

NOTE
Use the roof vent kit (accessories).

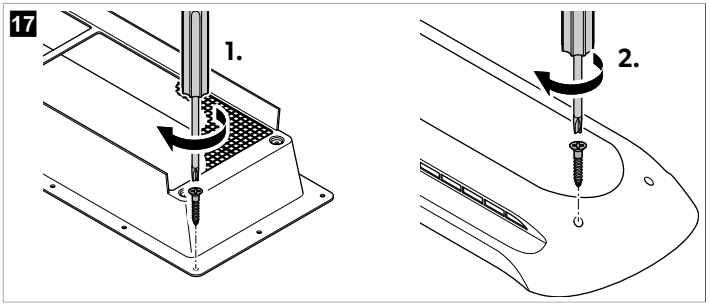


No. in Fig. 15 on page 22	Description
1	Hood
2	Installation frame

1. Apply sealant to the inner edge of the installation frame to ensure the installation is water resistant.



2. Insert the installation frame into the prepared opening in the outer roof (see Installation on page 11) and screw the installation frame to the mounting holes (**1** in Fig. 17 on page 23).

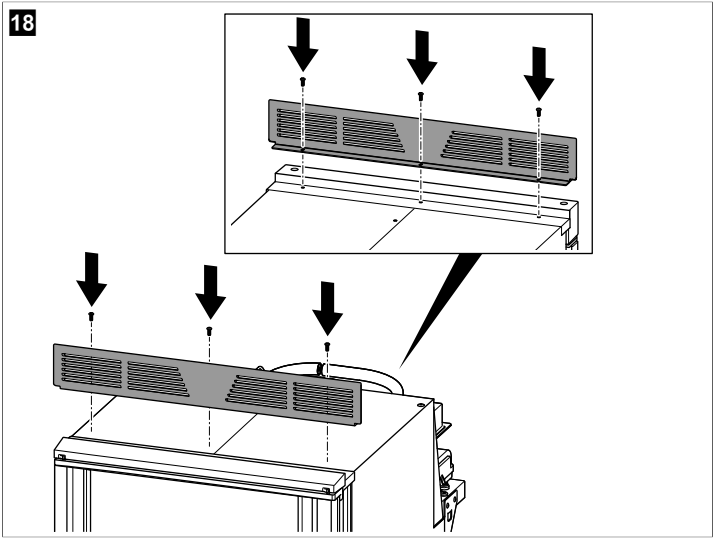


3. Insert the hood and screw it tight (**2** in Fig. 17 on page 23).

9.7 Mounting the top grille

NOTE Use the internal ventilation kit (accessories).

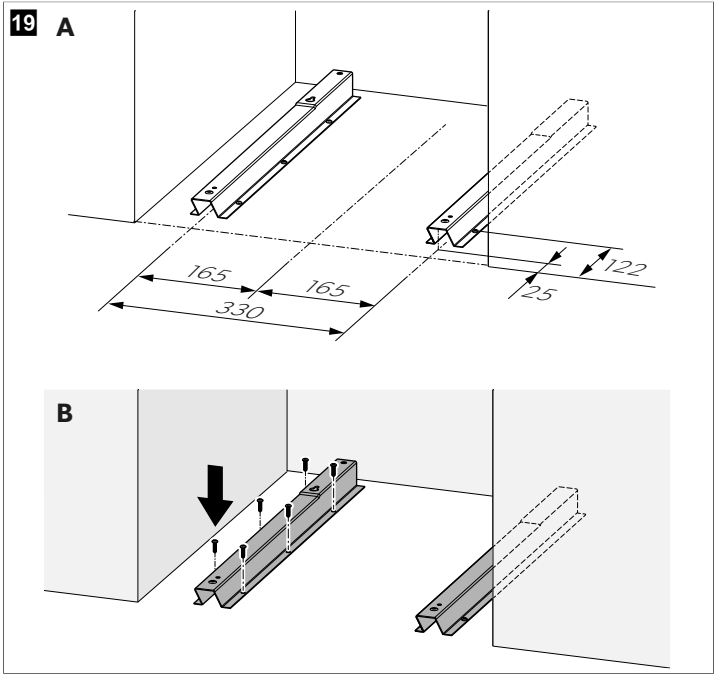
> Mount the top grille to the refrigerator.



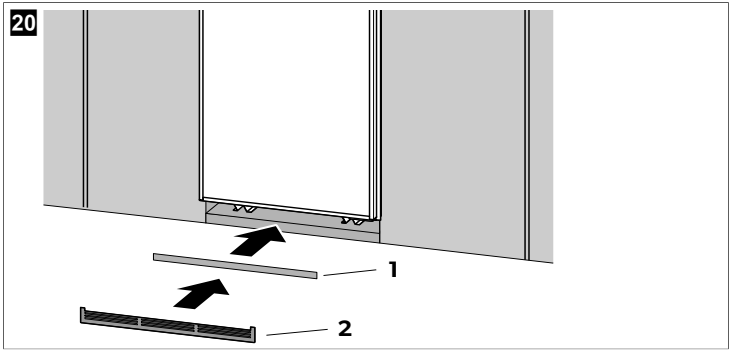
9.8 Mounting the guide rails

NOTE Use the internal ventilation kit (accessories).

> Mount the guide rails to the floor.



9.9 Mounting the bottom grille



1. Apply a sealing strip (**1** in Fig. 20 on page 26) along the bottom edge of the bottom grille (**2** in Fig. 20 on page 26).
2. Push the bottom grille with the sealing strip onto edge of the ground plate.

9.10 Installing the drain water hose

NOTICE! Damage hazard
Avoid kinking of the drain water hose.

1. Drill a hole through the floor at the rear of the refrigerator (⌀ 18 mm).
2. Route the drain water hose through the drilled hole and align the hose so that it can direct the water out of the vehicle.
3. Seal the drilling hole around the drain water hose.
4. Remove the tape from the end of the hose and place the insect grille onto it.

9.11 Sealing the refrigerator

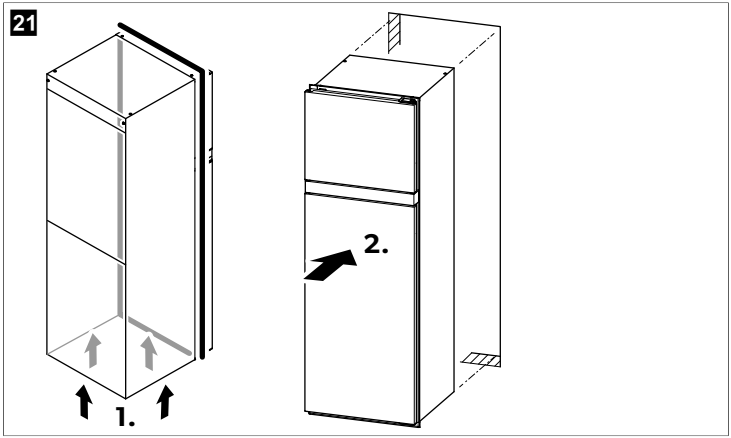
Refrigerators in caravans or motor homes must be installed in an enclosed space so that dust and heat cannot enter the living space directly.

For this purpose, a suitable seal must be installed between the rear wall of the refrigerator and the interior of the vehicle in order to seal the interior of the vehicle from the cooling unit and ventilation area of the refrigerator.

WARNING! Fire hazard
Do not use flammable materials for the draught-proof installation.

9.11.1 Sealing the refrigerator using the sealing strip

The manufacturer has applied a sealing strip to the rear surface of the front frame.



NOTE
When using the internal vent kit (accessories), do not apply the sealing strip to the bottom surface of the refrigerator.

1. Apply the sealing strip to all four sides of the bottom surface of the refrigerator (**1** in Fig. 21 on page 27).
2. Push the refrigerator into position (**2** in Fig. 21 on page 27).

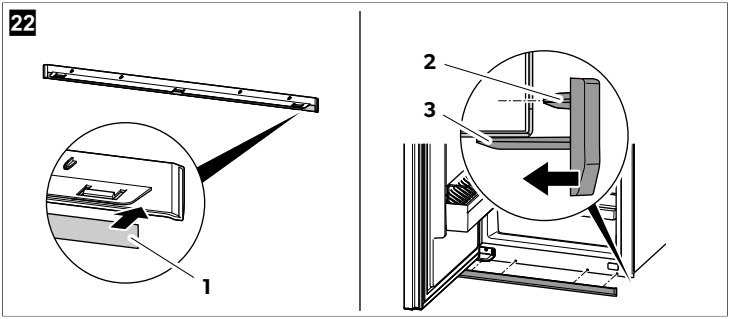
v The space behind the refrigerator is sealed to the interior of the vehicle.

9.11.2 Sealing the refrigerator using the bottom trim

NOTE
When using the internal vent kit accessory, do not use the bottom trim.

Mount the bottom grille onto the sealing strip instead.

If the refrigerator is placed on a platform, the bottom trim must be installed to seal the space between the refrigerator and the platform



1. Apply a sealing strip (**1** in Fig. 22 on page 28) to the lower surface of the bottom trim piece.
2. Push the bottom trim with the four plugs (**2** in Fig. 22 on page 28) into the holes on the bottom frame of the refrigerator.
3. Snap the three catches (**3** in Fig. 22 on page 28) into the holes under the bottom frame of the refrigerator.

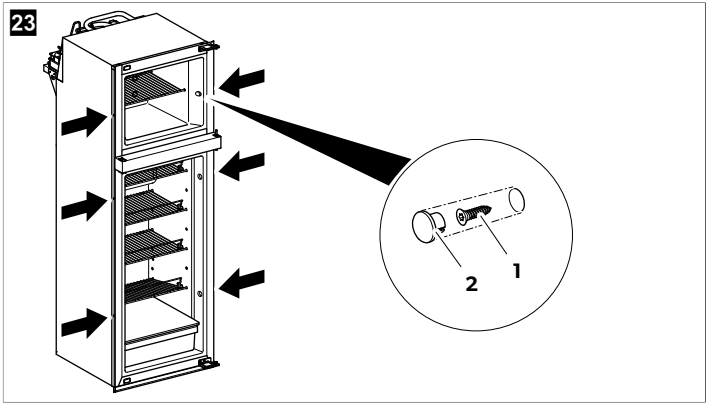
9.12 Securing the refrigerator

CAUTION! Electrocution hazard and damage hazard

> Only screw through the holes provided on the refrigerator for fastening to prevent injury from damaged electrical cables or damage to foamed components.

> Ensure to tighten the screws firmly so that they do not loosen under increased load (e.g., while driving).

1. Slide the refrigerator into its final place.
2. Align the refrigerator so that
   - The front flange is flush with the front edge of the recess.
   - The refrigerator is standing level.
3. Insert the screws (**1** in Fig. 23 on page 29) through the plastic bushings on the sides of the refrigerator and screw the refrigerator into the recess.
4. Fit the caps (**2** in Fig. 23 on page 29) onto the bushings.



9.13 Connecting the refrigerator

NOTICE! Damage hazard
Lay the connection cables so that they do not come into contact with hot parts of the device or with sharp edges.

9.13.1 Connecting the refrigerator to DC power supply

The electrical power supply must be connected by a qualified electrician who has demonstrated skill and knowledge related to the construction and operation of electrical equipment and installations and has received safety training to identify and avoid the hazards involved.

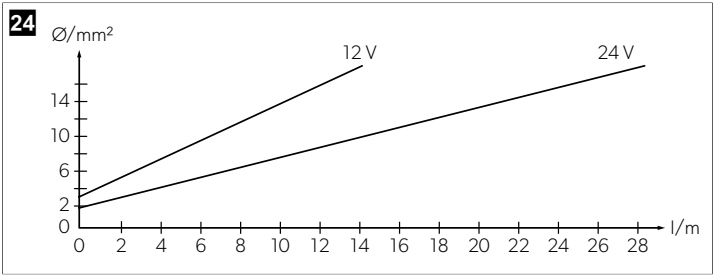
WARNING! Electrocution hazard
Observe the recommended cable cross-sections, cable lengths and fuses.

CAUTION! Fire hazard
Place the fuse near the house battery to protect the cable from short circuits and possible burning.

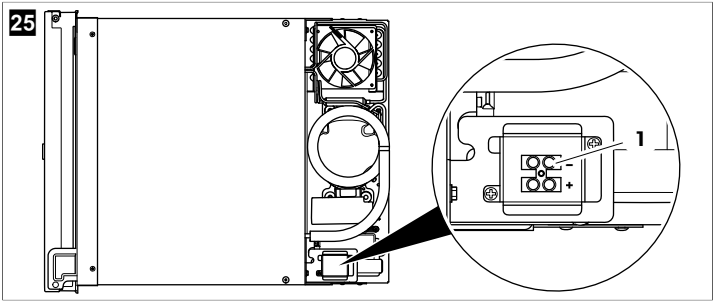
DANGER! Damage hazard

> Do not reverse the polarity.
> To avoid voltage drops and power losses, keep the connection cable uninterrupted and as short as possible. Do not install additional switches, plugs or socket strips.

- Determine the required cross section of the cable in relation to the cable length.



- Connect the supply cable to the refrigerator DC terminal block (**1** in Fig. **25** on page 30).



- Connect the refrigerator with fuse protection fitted to the positive (+) side of the supply cable of 15 A (at 12 V) or 7.5 A (at 24 V), with fuse fitted at the battery end of the cable.

10 Operation

10.1 Before first use

> Before starting your new refrigerator for the first time, clean it inside and outside with a damp cloth for hygienic reasons.

> 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.

> Do not store goods in the refrigerator for the first 4 hours after start-up.

> 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).

10.2 Storing food

CAUTION! Health hazard

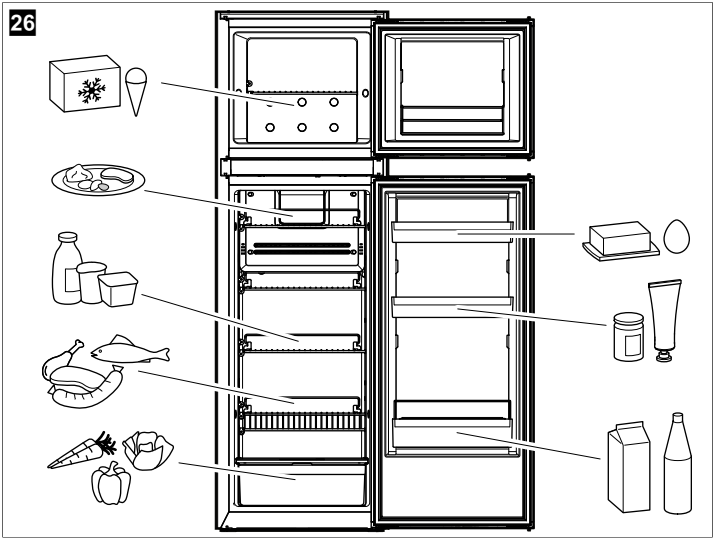
If the refrigerator is exposed to an ambient temperature below 10°C for an extended period of time, regulation of the frozen compartment temperature can no longer be guaranteed. That may cause the temperature of the frozen compartment to increase and the stored goods to be defrosted.

NOTICE! Damage hazard

> Observe the maximum load per door rack and door when filling the refrigerator (see Technical data on page 52).

> Do not keep carbonated drinks in the frozen compartment.

> Store food as follows:



10.3 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, ensure the door seal still fits properly.
- Clean dust and dirt from the condenser at regular intervals.

10.4 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).

10.5 Switching on the refrigerator

> Press and hold the ⏻ button for 3 s .

v The refrigerator starts with the last selected settings.

10.6 Switching off the refrigerator

> Press and hold the ⏻ button for 3 s .

v The refrigerator switches off.

10.7 Operating the refrigerator

> Repeatedly press the MODE button, until the LED indicates the desired operating mode.

> Press and hold the MODE and 🌡 button together for 3 s .

v • A **short beep** sounds: Acoustic indication for exceeded door openings or fault messages is deactivated.
  • A **long beep** sounds: Acoustic indication for exceeded door openings or fault messages is activated.

10.8 Setting the cooling capacity

NOTE For ambient temperatures of 15°C … 25°C, select the average cooling capacity.

> Repeatedly press the 🌡 button, until the desired cooling level is set.

10.9 Using the refrigerator door/freezer compartment door

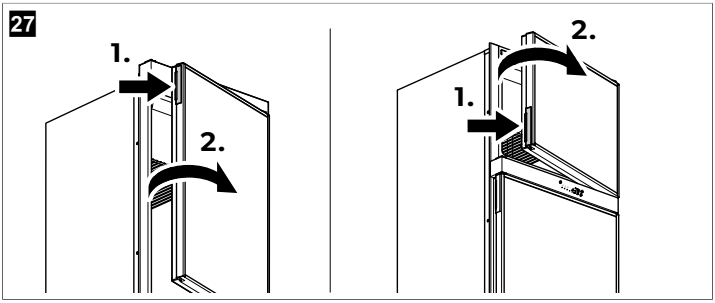
CAUTION! Risk of injury

> Ensure that the refrigerator door and the freezer compartment door are locked before setting off on a journey.

> Always open the doors carefully, as the foodstuff may have slipped and could fall out.

10.9.1 Opening the refrigerator door/freezer compartment door

> Press the handle and pull the door open.



10.9.2 Locking the refrigerator door/freezer compartment door

1. Ensure the door is **not** in the winter position (see chapter "Positioning the refrigerator door/freezer compartment door into winter position" on page 40).
2. Press the door shut until it clearly audibly clicks into place.

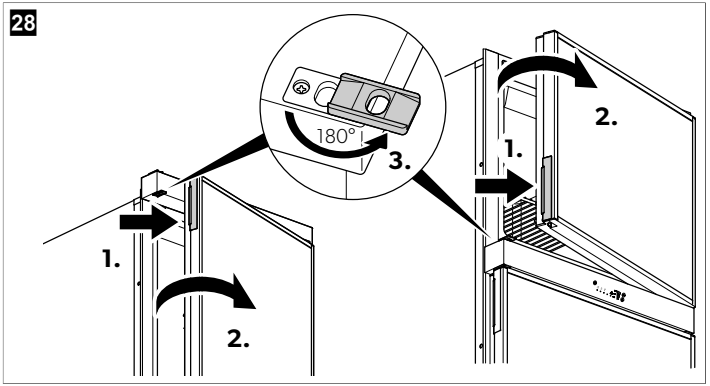
v The door is now closed and secured.

10.9.3 Positioning the refrigerator door/freezer compartment door into winter position

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.

1. Defrost the refrigerator (see Defrosting the refrigerator on page 46).
2. Turn the locking latch 180 ° (**3.** in Fig. 28 on page 34).

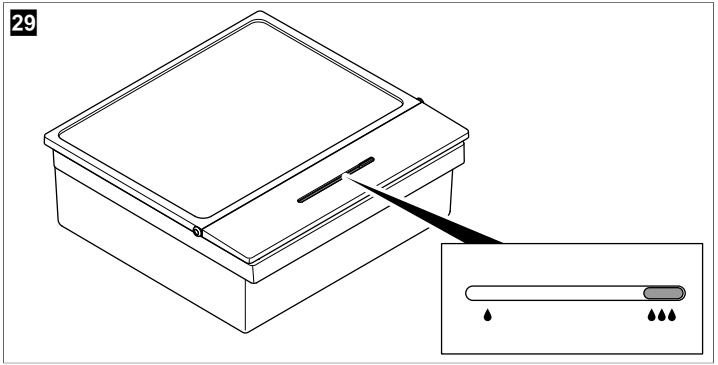


✓ The door is locked in position.

10.10 Using the crisper

NOTICE! Damage hazard
Do not overload the crisper. The maximum load capacity of the crisper is 18 L.

> Use the slider in the crisper (Fig. 29 on page 35) to regulate the humidity in the vegetable compartment.



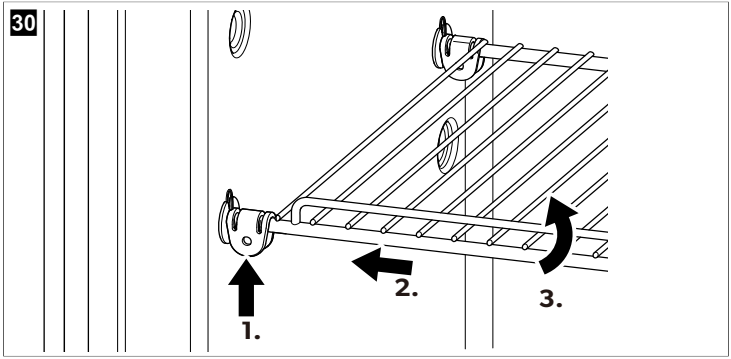
Goods to be cooled		Optimal humidity		Slider position
Vegetables		High	◊◊◊	Close the slider.
Fruit		Low	◊	Open the slider.

10.11 Removing and refitting the shelves

WARNING! Risk of child entrapment

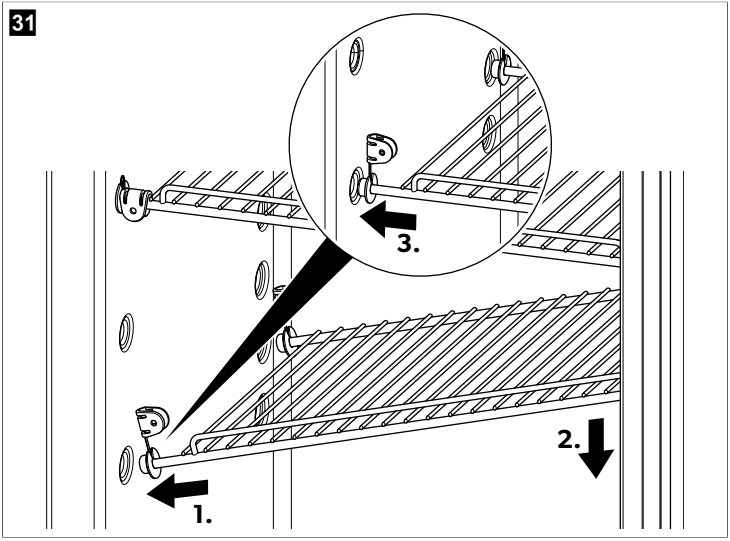
> All shelves are fixed in place to prevent children from climbing inside the refrigerator.
> Only remove the shelves for cleaning purposes.
> Refit the shelves and secure them in place.

10.11.1 Removing the shelves

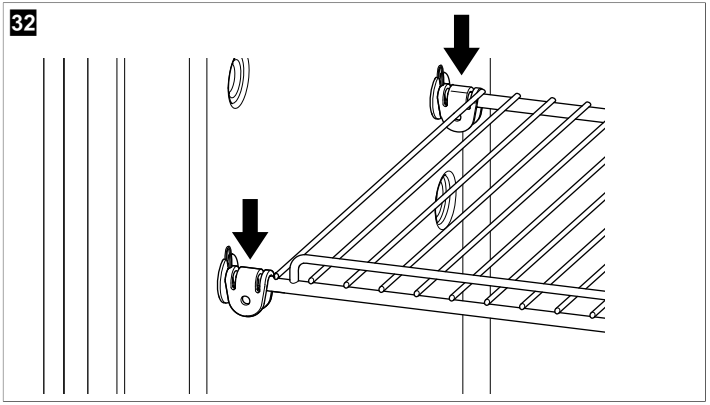


1. Push the locking clamps upwards and remove them (**1.** in Fig. 30 on page 36).
2. Slide the shelf to the left until the plastic holders on the right side are free (**2.** in Fig. 30 on page 36).
3. Tilt the right end of the shelf up until the plastic holders on the left side are free (**3.** in Fig. 30 on page 36).
4. Pull the shelf out frontwards.

10.11.2 Refitting the shelves



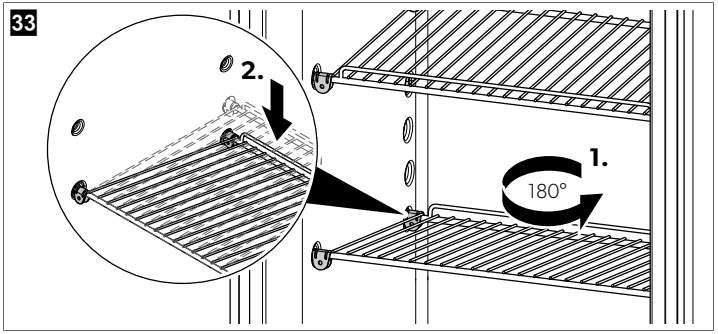
1. Tilt the right end of the shelf up to slide the shelf back into the refrigerator compartment.
2. Position the plastic holders on the left side in the suspension (**1.** in Fig. 31 on page 37).
3. Tilt the right end of the shelf down to align it level and slide the plastic holders on the right side into the suspension. (**2.** in Fig. 31 on page 37).
4. Ensure that the plastic holders are firmly seated in the suspensions (**3.** in Fig. 31 on page 37).
5. Reattach the locking clamps (Fig. 32 on page 38).



10.11.3 Positioning the bottle shelf

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

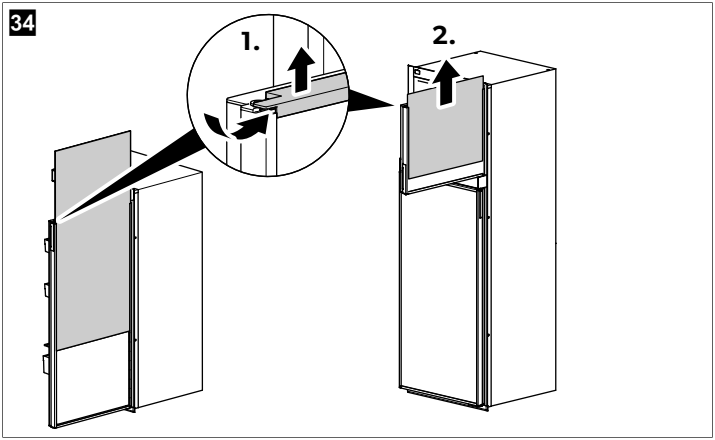
> Remove the respective shelf and relocate the shelf as follows:



10.12 Replacing the door panel

Removing the door panel

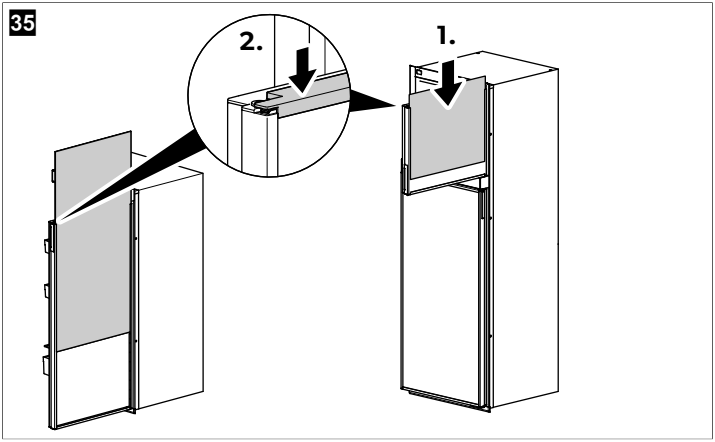
> Pull off the decorative strip at the upper edge of the door and slide the door panel out of the door frame.



Installing the door panel

> Slide the door panel into the door frame and attach the decorative strip to the upper edge of the door.

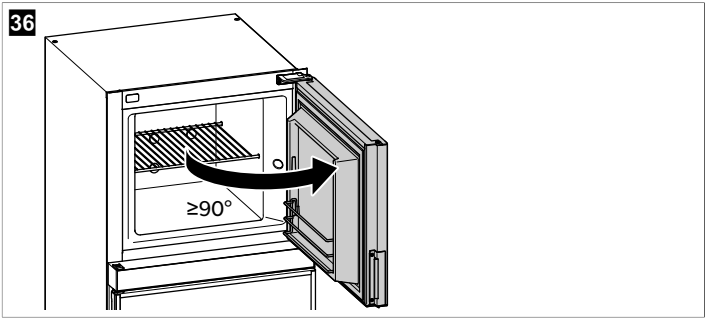
NOTE When sliding the panel into the door frame, ensure that the edges fit into the grooves of the door frame.



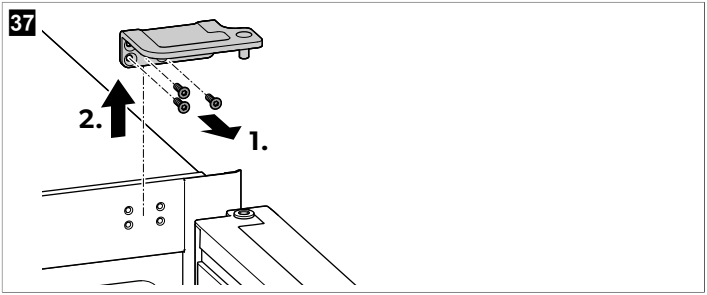
10.13 Reversing the door stop

NOTICE! Damage hazard
Be careful not to damage the door bushing and the surface of the door panel.

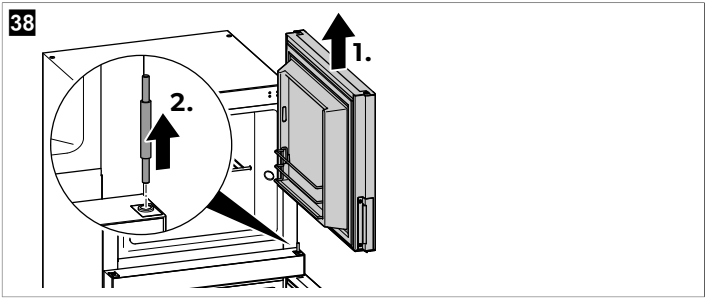
1. Open the freezer door more than 90 ° .



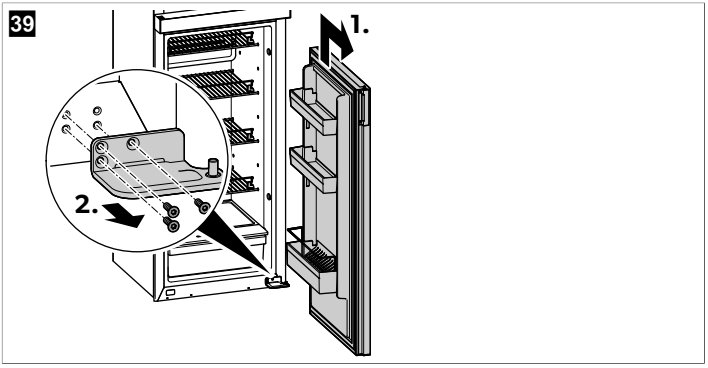
2. Remove the three screws (**1.** in Fig. 37 on page 41) from the upper hinge.



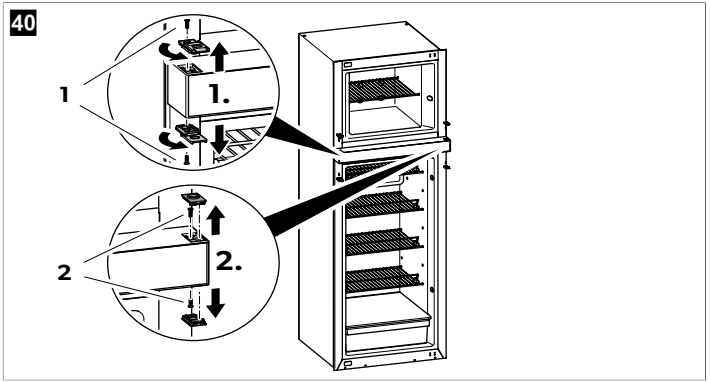
3. Pull the top hinge upwards out of the bushing and away from the freezer door (**2.** in Fig. 37 on page 41).
4. Remove the freezer door by lifting the freezer door over the middle hinge pin (**1.** in Fig. 38 on page 42).



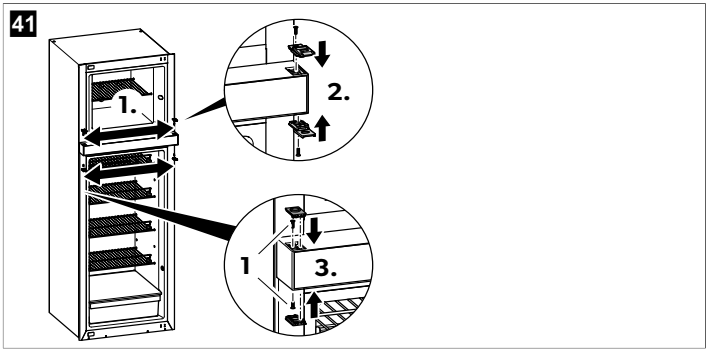
5. Place the freezer door level on a soft material to avoid scratches.
6. Hold the refrigerator door so that it cannot fall off and pull out the middle hinge pin (**2.** in Fig. 38 on page 42).
7. Remove the refrigerator door by lifting the refrigerator door over the bottom hinge pin (**1.** in Fig. 39 on page 42).



8. Place the refrigerator door level on a soft material to avoid scratches.
9. Remove the three screws from the bottom hinge (**2.** in Fig. 39 on page 42).
10. Turn the locking latches on the latch side by 180 ° to expose the screws.
11. Remove the screws at the locking latch (**1** in Fig. 40 on page 43).



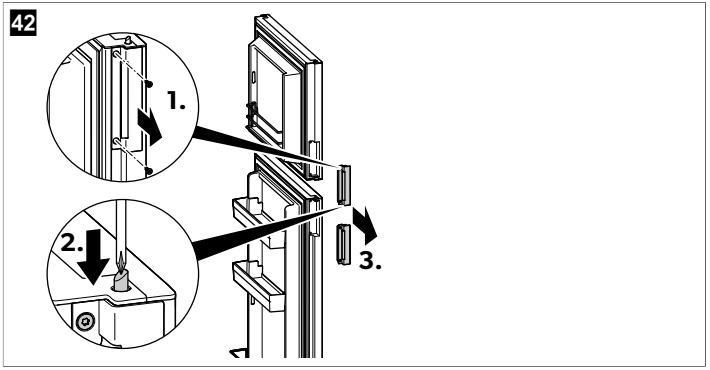
12. Remove the locking latches (**1.** in Fig. 40 on page 43).
13. Remove the hinge bushings on the hinge side using a small screwdriver (**2.** in Fig. 40 on page 43).
14. Remove the screws under the hinge bushings on the hinge side (**2** in Fig. 40 on page 43).
15. Attach the locking latches and the bushings to the opposite side of the door frame from their respective starting position (Fig. 41 on page 43)



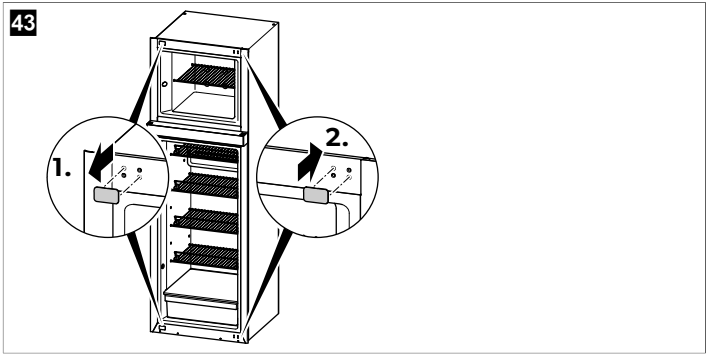
NOTE

- The screws under the hinge bushings on the opposite side remain and are not exchanged (**1** in Fig. 41 on page 43).
- When installing the latch assemblies, push and keep the latch spring bolt fully in.

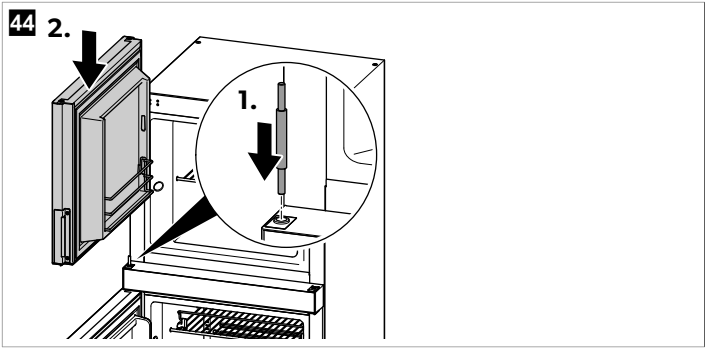
16. Remove the two screws (**1.** in Fig. 42 on page 44) from the latch assemblies on the freezer door and on the refrigerator door.



17. Use a small screwdriver to push the spring bolt inwards and release the latch assembly (**2.** in Fig. 42 on page 44).
18. Remove the latch assemblies (**3.** in Fig. 42 on page 44).
19. Remove the latch blanks at the opposite side of both doors.
20. Attach the hinge bushings to the opposite side.
21. Install the latch assemblies and the latch blanks to the opposite side of the door frame from their respective starting position.
22. Remove the covers from the screw holes at the top and bottom hinge points using a small screwdriver (**1.** in Fig. 43 on page 44).

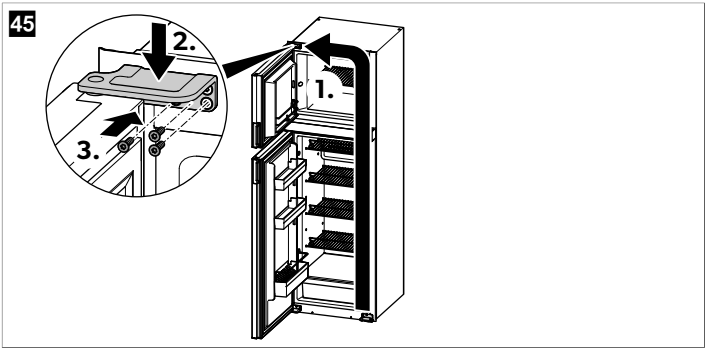


23. Attach the covers to the screw holes on the opposite side (**2.** in Fig. 43 on page 44).
24. Turn the former top hinge 180 ° and mount the hinge to the bottom hinge position using the three screws.
25. Insert the refrigerator door onto the bottom hinge pin at the new position on the opposite side of the door frame.
26. Insert the middle hinge pin and push it into the top of the refrigerator door (**1.** in Fig. 44 on page 45).



- The refrigerator door is now fixed.

27. Insert the freezer door onto the middle hinge pin (**2.** in Fig. 44 on page 45).
28. Open the freezer door more than 90 ° .
29. Turn the former bottom hinge 180 ° , insert the hinge pin into the freezer door and mount the hinge to the top hinge position using the three screws (Fig. 45 on page 45).



v The freezer door is now fixed.

11 Cleaning and maintenance

WARNING! Fire hazard

> Only a qualified person must do the repair, maintenance or recharging of the appliance.
> This appliance refrigerant circuit contains flammable refrigerant.
> Improper repairs or maintenance can lead to considerable hazards.
> Note that self-repair or nonprofessional repair can have safety consequences and might void the guarantee.

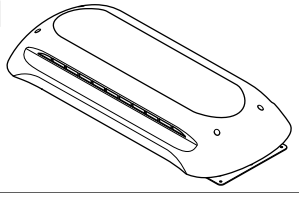
WARNING! Electrocution hazard

Always disconnect the refrigerator from the mains before you clean and service it.

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.

46



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

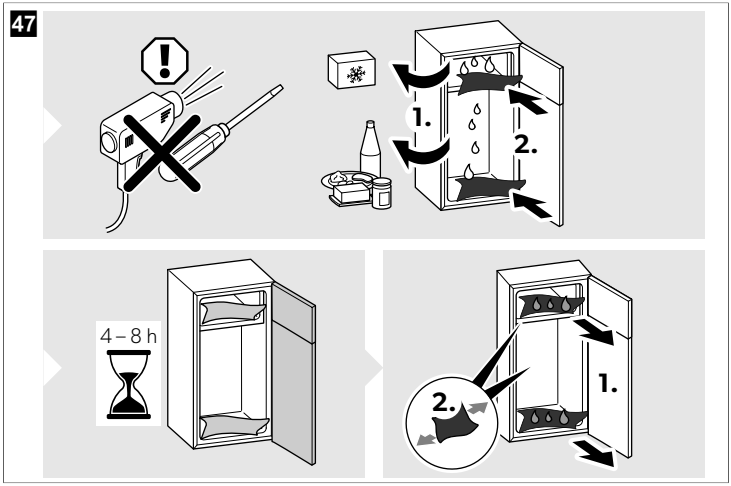
Clean the condensate drain when necessary. If it is blocked, the condensate collects on the bottom of the refrigerator.

11.1 Defrosting the refrigerator

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

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



1. Disconnect the power 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 .

v 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.

12 Troubleshooting

Problem	Possible cause	Suggested remedy
Poor cooling performance. The refrigerator does not reach the set cooling temperature or exceeds the set cooling temperature.	The ventilation around the cooling unit is not sufficient.	> Check that no ventilation grille or roof vent is obstructed. > Check that the required clearances for the air inlet vent and air outlet vent have been maintained during installation.
	The door seals are damaged or have slipped.	> Check the door seals for damage and correct fit.
	The fan is defective.	> Replace the fan.

Problem	Possible cause	Suggested remedy
	The control sensor is defective.	> Contact an authorized service agent.
	The temperature at the compressor is too low (< 0°C).	> Close/Cover all external ventilation grilles completely with insulation material.
	The evaporator is iced up.	> Check whether the refrigerator door is closes properly and the seals are not damaged. > Defrost the refrigerator.
	The condenser is dirty.	> Clean the condenser.
	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 h … 5 h .
Water leaks into the inside of the refrigerator.	The water drainage system is blocked by foodstuff.	> Remove the blocking foodstuff.
	The water drainage system is clogged with dirt.	> Remove any dirt from the drain opening and the drain pipe.
Water leaks onto the floor.	The water drain hose is damaged.	> Check the drain water hose for leaks. Repair the hose or replace it if necessary.
	The water drain hose is not routed outside the vehicle.	> Route the hose to the outside of the vehicle (see Installing the drain water hose on page 26).
Unusual noises (e.g., loud humming)	A component of the refrigerant circuit cannot move freely (touching the wall).	> Bend the component carefully away from the obstruction.
	A foreign object is located between the cooling unit and the wall.	> Remove the foreign object.

12.1 DC operation only

Problem	Possible cause	Suggested remedy
The refrigerator does not work. The display does not light up.	Insulation faults, corrosion, breaks or loose connections between the battery and electronics unit.	> Check connections and live cables for insulation faults, corrosion, breaks or loose connections.
	Main switch defective (if installed).	> Replace the main switch.
	Internal fuse has blown.	> Replace the internal fuse.

Problem	Possible cause	Suggested remedy
	The fuse in the DC cable is defective.	> The fuse in the DC cable must be replaced. > Contact an authorized service agent.
	The vehicle fuse has blown.	> Replace the vehicle fuse. > Refer to the operating manual of your vehicle.
	The ignition is not switched on.	> Switch on the ignition.
	The vehicle battery is discharged.	> Charge the vehicle battery.
	Internal error or defective components.	> Contact an authorized service agent.
The refrigerator does not cool.	The battery capacity is too low.	> Replace or charge the battery.
	The refrigerator is not connected correctly.	> Check the connections (see Connecting the refrigerator to DC power supply on page 29) > Check the cable cross-sections and lengths (see Connecting the refrigerator to DC power supply on page 29).

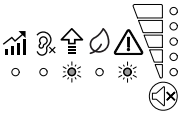
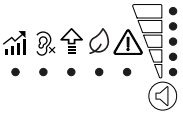
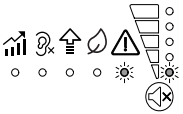
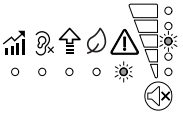
12.2 Faults and beeps

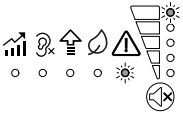
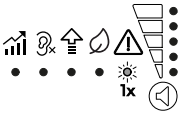
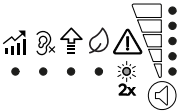
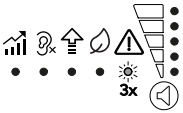
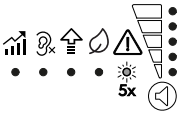
All faults are indicated by the error warning LED in combination with the other LEDs on the display.

Problem	Possible cause	Suggested remedy
-	-	> Press and hold the ON/OFF button for 2 s . v A beep sounds, indicating that the error has been reset. > Press and hold the MODE and button together for 3 seconds to mute or unmute the beep.

NOTE Turning the refrigerator off and on again will not reset the fault.

LEDs	Fault	Solution
	Fresh NTC1 sensor fault	Check if the cooling system is defrosting heavily. Replace the NTC sensor.

LEDs	Fault	Solution
	Defrost NTC2 sensor fault	Check if the cooling system is defrosting heavily. Replace the NTC sensor.
	Ambient NTC3 sensor fault	Switch the refrigerator off and on again. Contact an authorized service agent if this error occurs again.
	Mainboard and HMI communication fault	Contact an authorized service agent.
	Door open timeout	Close the refrigerator door. Replace the reed.
	Error is shown for 10 s , then the refrigerator shuts off for protection: Battery voltage too low or too high (< 7.5 V or > 31.5 V)	Check the DC supply power.
	Internal fresh air fan fault	Replace the internal fan. Contact an authorized service agent.
	Defrost current too low (< 1 A)	Switch the refrigerator off and on again. Contact an authorized service agent if this error occurs again.

LEDs	Fault	Solution
	Defrost current too high (> 4 A)	Reset the error. Contact an authorized service agent if this error occurs again.
	Battery voltage is low (< 10.9 V or < 22.7 V)	Charge the vehicle battery. Switch on the vehicle ignition.
	External condenser fan overcurrent fault	Reset the error. Contact an authorized service agent if this error occurs again.
	Compressor startup fault	Reset the error. Contact an authorized service agent if this error occurs again.
	Compressor controller overload fault	Reset the error. Contact an authorized service agent if this error occurs again.
	Compressor controller overheat fault	Reset the error. Ensure the condenser is clean and the ventilation is clear of obstruction. Contact an authorized service agent if this error occurs again.

○	Off	2x	Flashing for stated number of times
●	On		A beep sounds.
	Flashing continuously		No sound

13 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 3 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

Note that self-repair or nonprofessional repair can have safety consequences and might void the warranty.

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. The benefits provided to you as the consumer by this warranty are in addition to other rights and remedies available to you under the law.

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

14 Disposal

WARNING! Fire hazard

> The refrigerant used is highly flammable. Do not open or damage the refrigerant circuit.

> The insulation of the device contains flammable cyclopentane (see data plate). Do not damage the insulation.

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.

15 Technical data

This product contains fluorinated greenhouse gases.

The cooling unit is hermetically sealed.

	RUC6404X	RUC8404X
Capacity:		
• Refrigerator compartment	134 L	170 L
• Frozen compartment	46 L	46 L
• Total capacity	180 L	216 L
Connection voltage (DC)	12 / 24 V	
House battery protection (12 V):		
• End-of-discharge voltage	10.4 V	
• Cut-in voltage	11.7 V	
House battery protection (24 V):		
• End-of-discharge voltage	22.8 V	

	RUC6404X	RUC8404X
• Cut-in voltage	24.2 V	
Power consumption	88 W	
Rated current:		
• 12 V⎓	7.3 A	7.3 A
• 24 V⎓	3.65 A	3.65 A
Refrigerant	R600a	
Refrigerant quantity	30 g	31 g
Cooling temperature range:		
• Refrigerator compartment	0°C … 8°C	0°C … 8°C
• Frozen compartment	–20°C … –10°C	–17°C … –10°C
Climate class	T	
Intended ambient temperature for use	16°C … 43°C	
Noise emission	45 dB(A)	
Dimensions H*W:		
• With flange	1447 mm × 550 mm	1657 mm × 550 mm
• Without flange	1434 mm × 525 mm	1644 mm × 525 mm
• Depth (overall, excluding control knob with 5 mm)	677 mm	677 mm
• Depth (from flange rear face)	611 mm	611 mm
Weight	46 kg	50 kg
Maximum load:		
• Per upper door rack	3 kg	
• Per bottom door rack	4.5 kg	
• Per door	10.5 kg	
Inspection/Certification		

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A complete list of Dometic companies, which comprise the Dometic Group, can be found in the public filings of:
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