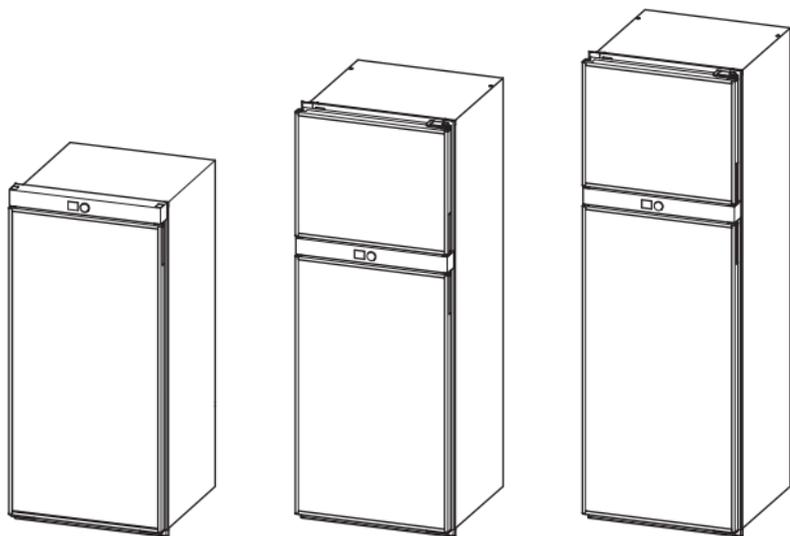


↗ DOMETIC

# REFRIGERATION

# RU



RUA 5208X, RUA 6408X, RUA 8408X

EN

**Absorption refrigerator**  
Installation 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](http://documents.dometic.com).

## Contents

1	Explanation of symbols	3
2	Safety instructions	4
3	Safety when installing	5
4	Scope of delivery	6
5	Accessories	7
6	Intended use	7
7	Installation	8
8	Connecting the refrigerator	22
9	Disposal	29

## 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.

### **3 Safety when installing**

The electrical installation must comply with national and local regulations including AS/NZS 3000 and AS/NZS 3001.2 – Electrical installations.

The gas installation must comply with national and local regulations including AS/NZS 5601.2 – Gas installations.



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

#### 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.
- Do not install the refrigerator near naked flames or other heat sources (heaters, direct sunlight, gas ovens etc.).
- Only connect the refrigerator as follows:
  - With the DC connection cable to a DC power supply in the vehicle
  - Or with the AC connection cable to an AC power supply
- After installation, it must still be possible to disconnect the refrigerator from the supply mains. This may be achieved by having the plug accessible or by incorporating a switch in the fixed wiring according to the wiring rules.



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

#### Risk of injury

- Do not put your fingers into the hinge.



#### NOTICE! Damage hazard

- Check that the voltage specification on the data plate is the same as that of the power supply.
- During transport, only touch the refrigerator by the refrigerator housing. Never touch the refrigerator by the absorber unit, the cooling fins, the gas lines, the door or the control panel.
- Only carry the refrigerator upright.
- Protect the refrigerator and the cabling against heat and moisture. Do not place the refrigerator near heat sources (heaters, direct sunlight, gas ovens, etc.).
- **Risk of overheating!**

Always ensure sufficient ventilation so that the heat generated during operation can dissipate. Make sure that the device is sufficiently far away from walls and other objects so that the air can circulate.

## 4 Scope of delivery

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

## 5 Accessories

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

Description	Ref. no.
LS300 ventilation grille	9620000524, 9620000525
Gas flue kit 3776	9620000522, 9620000523
<b>RUA5208X only:</b> Door reversing kit	
• Left hand to right hand (LH to RH)	9620001938
• Right hand to left hand (RH to LH)	9600024323
Roof vent kit	9620008608, 9620008609

All the accessories are available from specialist dealers. If there are any questions, contact the dealer or your service partner directly.

## 6 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 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 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.

## 7 Installation



### CAUTION! Risk of injury

The refrigerator has sharp edges. Use gloves during installation.



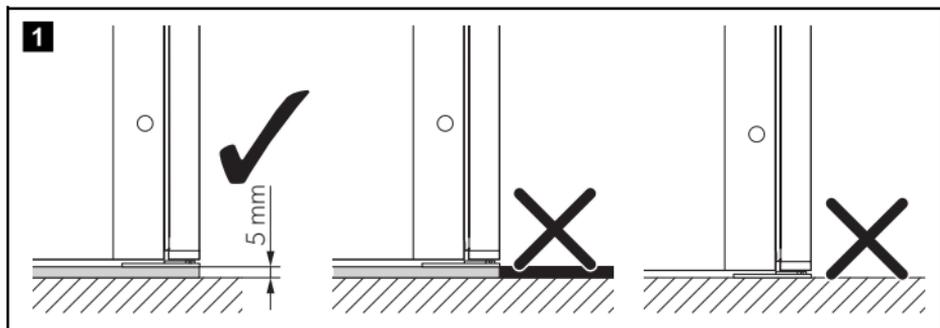
### NOTICE! Damage hazard

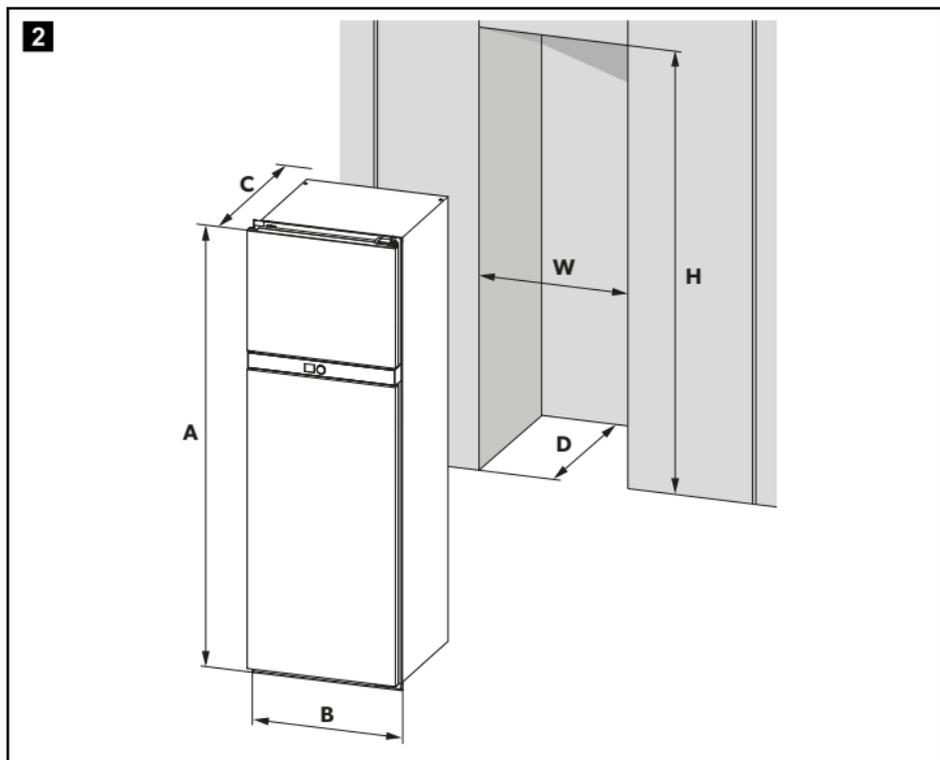
Do not install the refrigerator in the rear of motor homes with the door facing the direction of travel.

### 7.1 Preparing the installation

When installing the refrigerator, note the following:

- Ensure that the floor is solid and level.  
Park the vehicle horizontally for this purpose.
- The refrigerator must be installed so that:
  - 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. Note the dimensions in fig. 2.
- The refrigerator must be installed with a minimum distance of 5 mm from the floor to ensure that the door can be opened properly (fig. 1).
  - 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 a location where the refrigerator is protected from drafts, excessive heat and moisture.





	RUA 5208X	RUA 6408X	RUA 8408X
<b>Refrigerator</b>	<b>Dimension in mm</b>		
Height <b>(A)</b>	1191	1447	1657
Width <b>(B)</b>	550	550	550
Depth <b>(C)</b> (excluding control knob, 5 mm)	677	677	677
<b>Recess</b>	<b>Dimension in mm</b>		
Height <b>(H)</b>	1181 – 1186	1437 – 1442	1647 – 1652
Width <b>(W)</b>	530 – 535	530 – 535	530 – 535
Depth <b>(D)</b>	min. 621	min. 621	min. 621

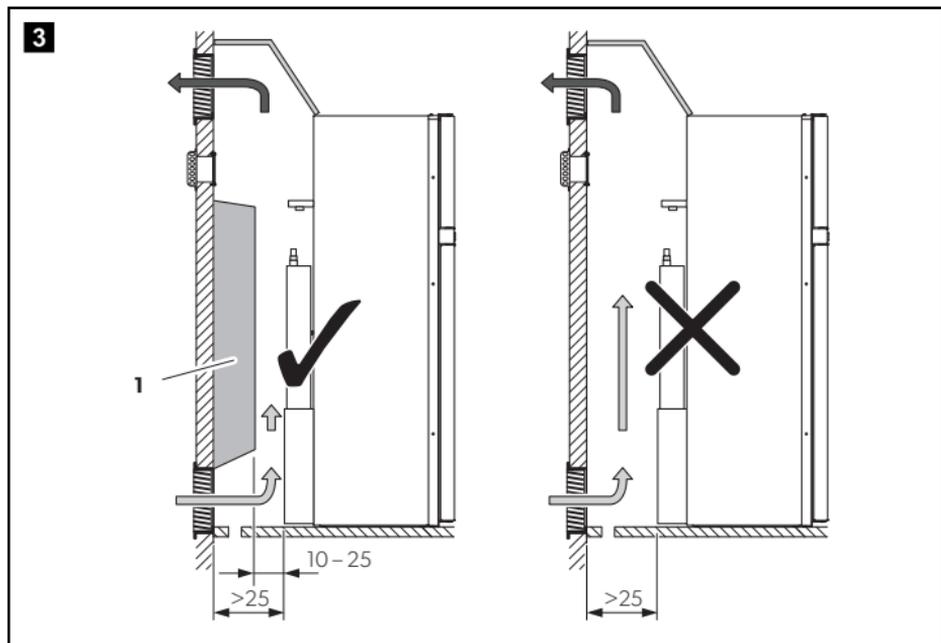
## 7.2 Installing the refrigerator

See fig. **4**, page 11 and fig. **5**, page 12:

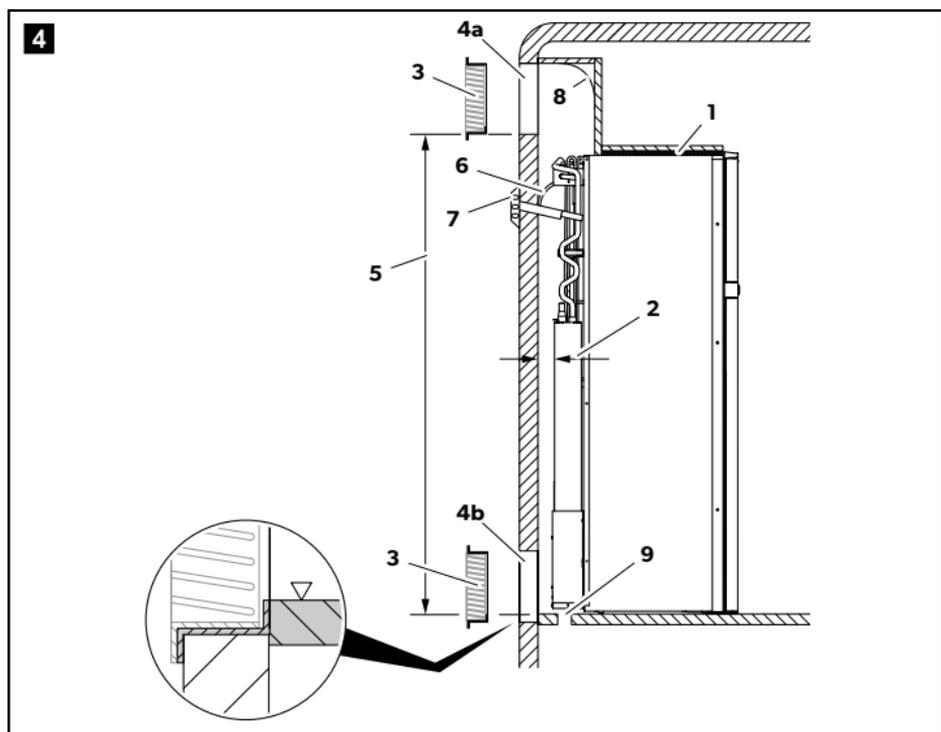
- ▶ Apply insulation wool (**1**) to the top and sides of the cabinet.
- ▶ Make air inlet and air outlet vents (**4a** and **4b**) in the outer wall and install the LS ventilation grille (accessories) so that the air can circulate and the heat generated can dissipate to the outside (see chapter "Making air inlet and outlet vents" on page 13 and chapter "Installing the ventilation grille" on page 14).
- ▶ If necessary, make a gas outlet opening (**9**) (see chapter "Making a gas outlet opening" on page 14).

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 (**2**).
- ▶ If a clearance of >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 (fig. **3 1**, page 10).



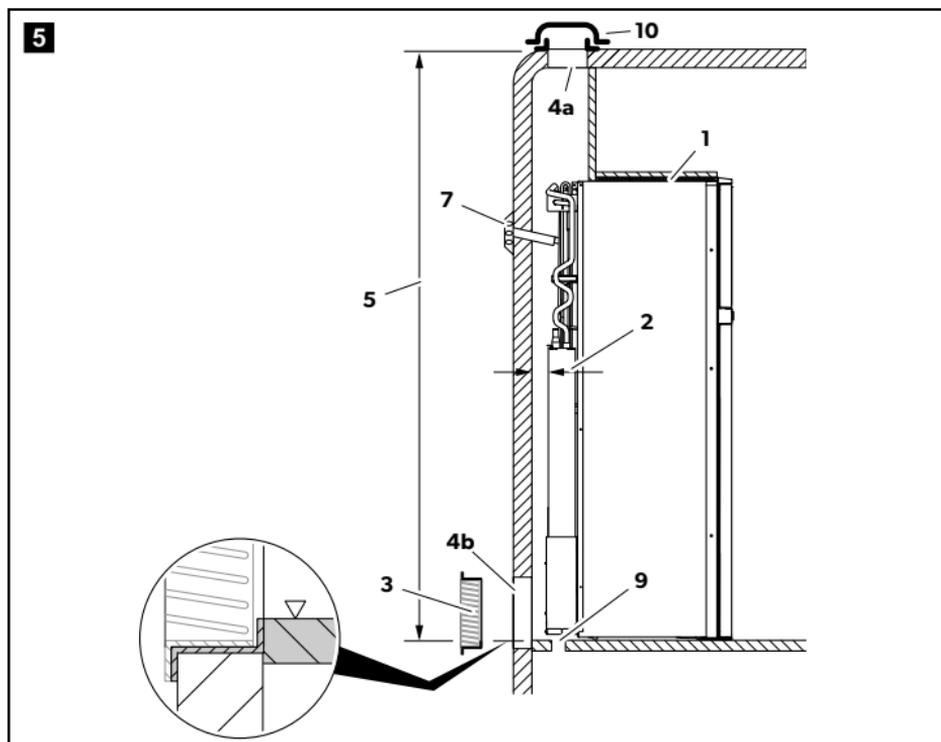
## Installation with two side vents



No. in fig. 4	Description	No. in fig. 4	Description
1	Insulation wool on top and sides of cabinet	5	Minimum height (height of the cabinet)
2	Clearance (10 – 25 mm)	6	Air baffle
3	LS300 ventilation grille (accessories)	7	Gas flue kit 3776 (accessories)
4a	Air outlet vent	8	Air baffle
4b	Air inlet vent	9	Gas outlet opening

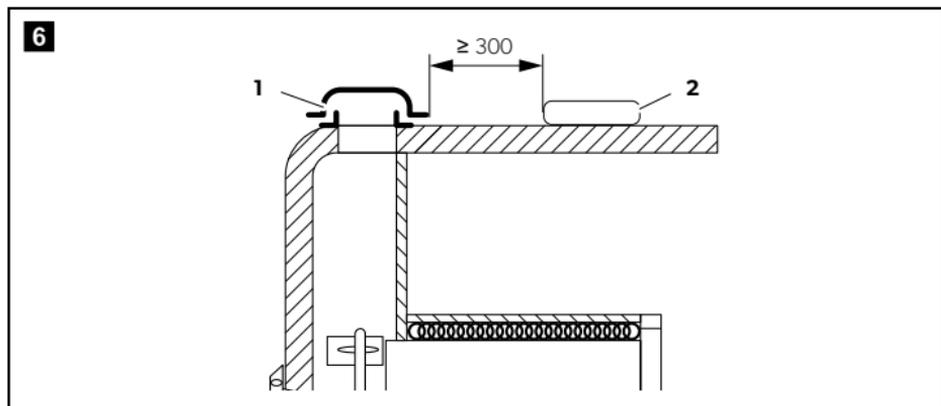
- ▶ Install an air baffle (fig. 4 6) to direct the airflow into the condenser fins.
- ▶ Install an air baffle (fig. 4 8) over the condenser to prevent the heat from accumulating in the vehicle.

## Installation with one side vent and one roof vent



No. in fig. 5	Description	No. in fig. 5	Description
1	Insulation wool on top and sides of cabinet	5	Minimum height (height of the cabinet plus 150 mm)
2	Clearance (10 – 25 mm)	7	Gas flue kit 3776 (accessories)
3	LS 300 ventilation grille (accessories)	9	Gas outlet opening
4a	Air outlet vent	10	Roof vent
4b	Air inlet vent		

- If a roof air conditioner is installed: Ensure that the distance between the roof vent and the air outlet of the roof air conditioner is >300 mm (fig. 6).



No. in fig. 6	Description
1	Roof vent
2	Roof air conditioner

### 7.3 Making air inlet and outlet vents



#### NOTE

Observe the required dimensions specified in the installation manual for the LS ventilation grille and the roof vent kit.

- Make cut outs in the wall for the air inlet and outlet vents.

#### Position of the air inlet vent

- It must be possible to install the ventilation grille so that the lowest opening of the ventilation grille is flush with the bottom of the refrigerator.
- If the air inlet vent cannot be aligned so that the lowest opening of the ventilation grille will be flush with the bottom of the refrigerator, make an additional gas outlet opening in the floor to ensure all unburned gas will escape (see chapter "Making a gas outlet opening" on page 14).

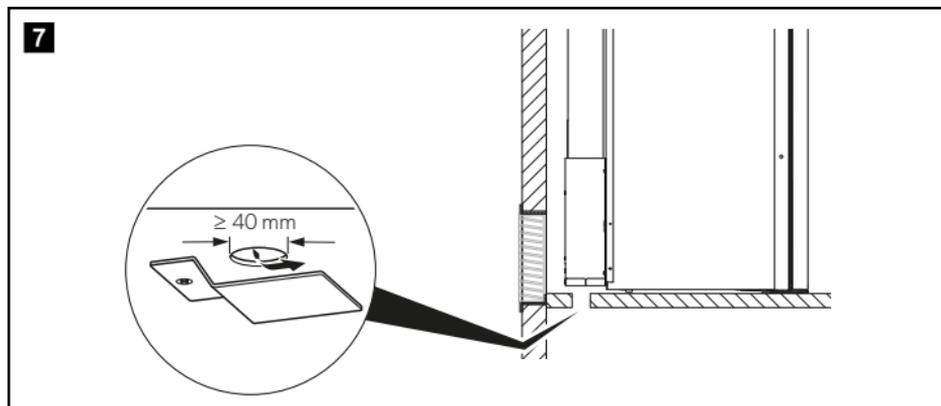
#### Position of the air outlet vent

- **Side venting** (fig. 4, page 11):
  - It must be possible to install the ventilation grille so that the bottom of the ventilation grille will be below the top of the refrigerator.
  - The top of the ventilation grille may be above the top of the refrigerator.
  - **RUA 5208X only:** The ventilation grille must be able to be installed so that the lowest opening of the ventilation grille is >935 mm from the bottom of the refrigerator.
  - Ensure that the bottom of the condenser fins are no more than 0.5 m above the air outlet vent.
- **Roof venting** (fig. 5, page 12):
  - The air outlet vent must be located directly above the cooling unit at the rear of the refrigerator.
  - 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.

## 7.4 Making a gas outlet opening

A gas outlet opening must be installed if the air inlet vent cannot guarantee that all unburned gas can be completely evacuated (e.g. ventilation grille is located too high, see chapter "Position of the air inlet vent" on page 13).

1. Make a cut out under the cooling unit at the back of the refrigerator with a diameter  $\geq 40$  mm.
2. Shield the opening with a deflector to prevent mud or dirt from getting inside while driving (fig. **7**).

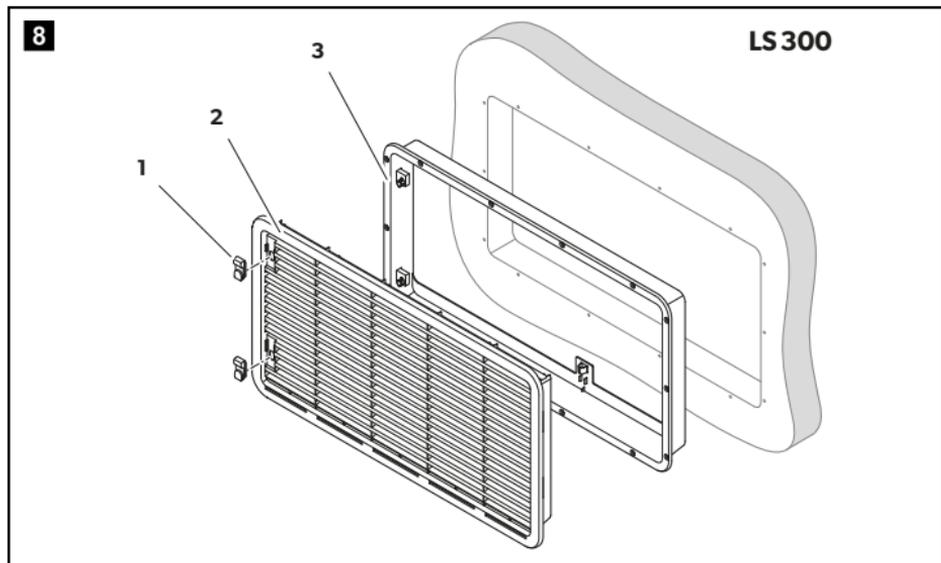


## 7.5 Installing the ventilation grille



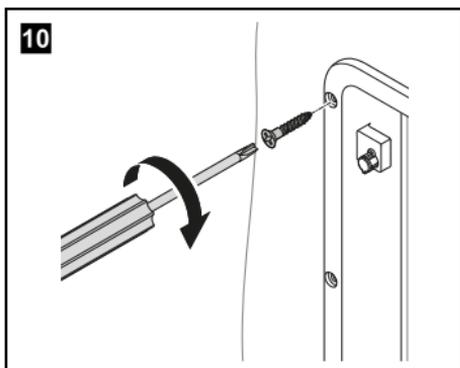
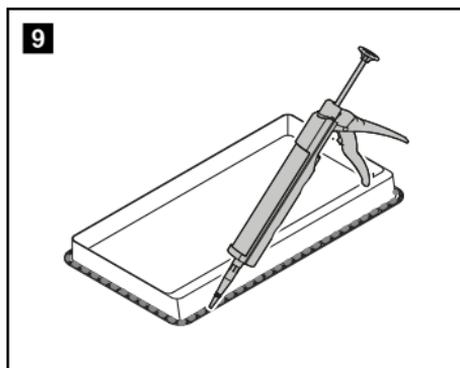
### NOTE

Use the LS300 ventilation grille (accessories).

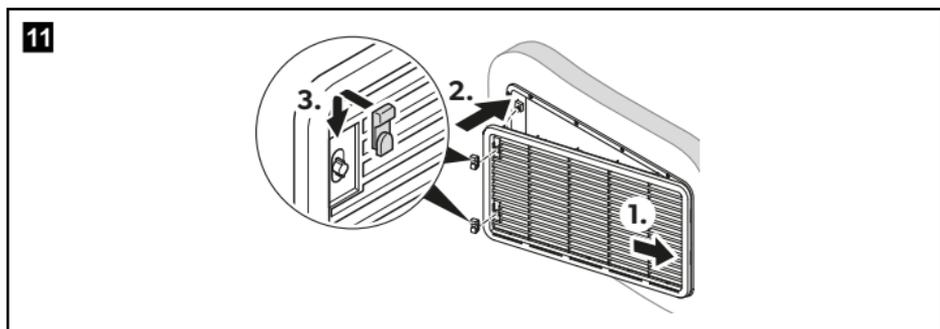


**No. in fig. 8** Description

1	Slider
2	Grille
3	Mounting frame



1. Apply sealant to the inner edge of the mounting frame to ensure the installation is water resistant (fig. 9, page 15).
2. Insert the mounting frame into the prepared openings in the outer wall (see chapter "Making air inlet and outlet vents" on page 13) and screw the mounting frame to the mounting holes (fig. 10, page 15).



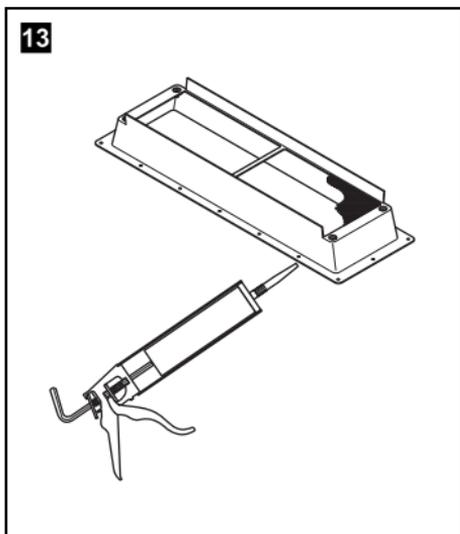
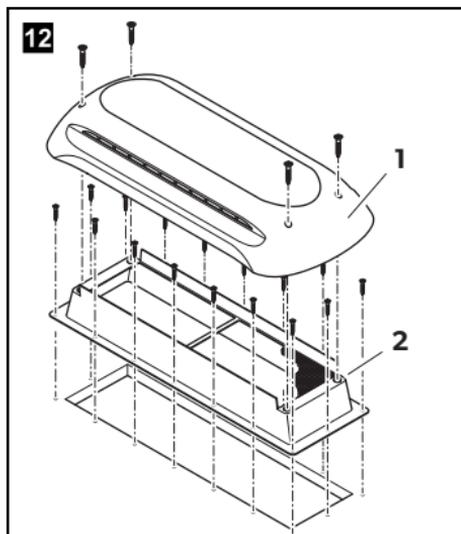
3. Insert the grille (fig. 11 1 and 2).
4. Insert the slider to lock the grille in place (fig. 11 3).

## 7.6 Installing the roof vent



### NOTE

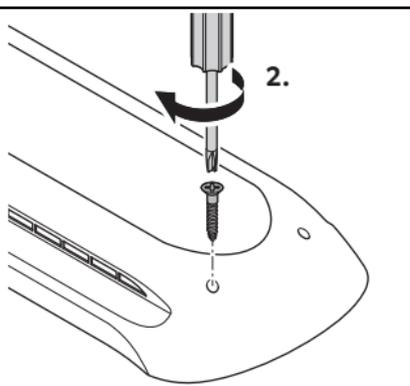
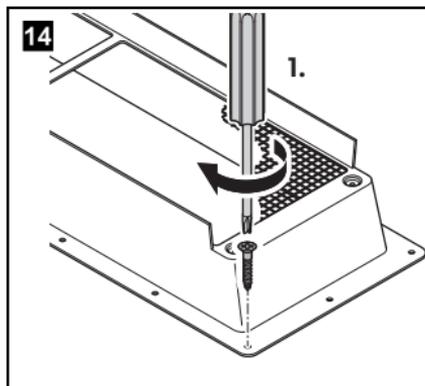
Use the roof vent kit (accessories).



### No. in fig. 12 Description

1	Hood
2	Mounting frame

1. Apply sealant to the inner edge of the mounting frame to ensure the installation is water resistant (fig. 13, page 16).



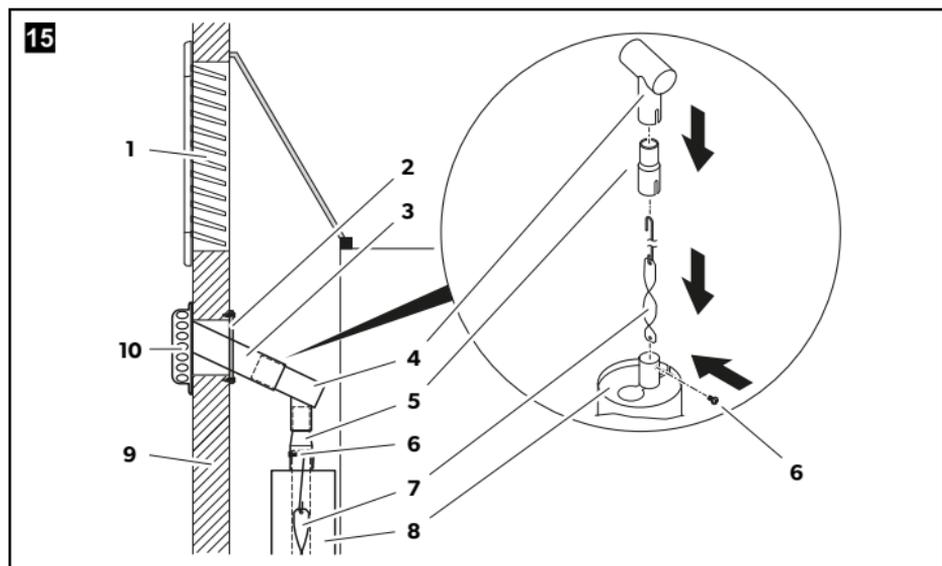
2. Insert the mounting frame into the prepared opening in the outer wall (see chapter "Making a gas outlet opening" on page 14) and screw the mounting frame to the mounting holes (fig. 14 1).
3. Insert the hood and screw it tight (fig. 14 2).

## 7.7 Installing the flue duct

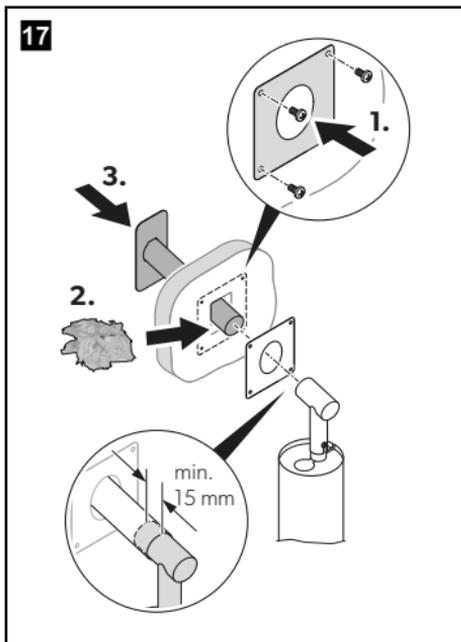
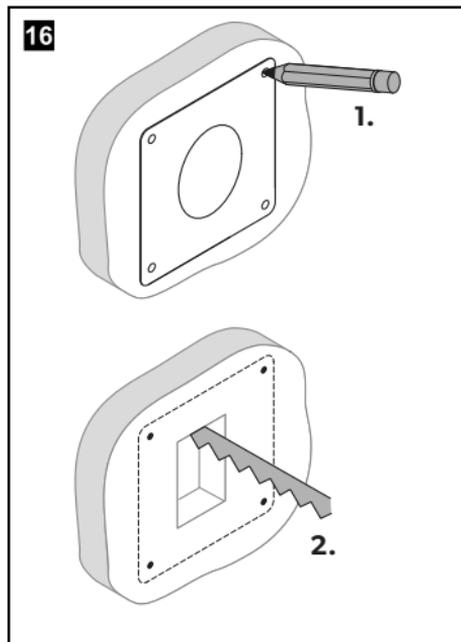


### NOTE

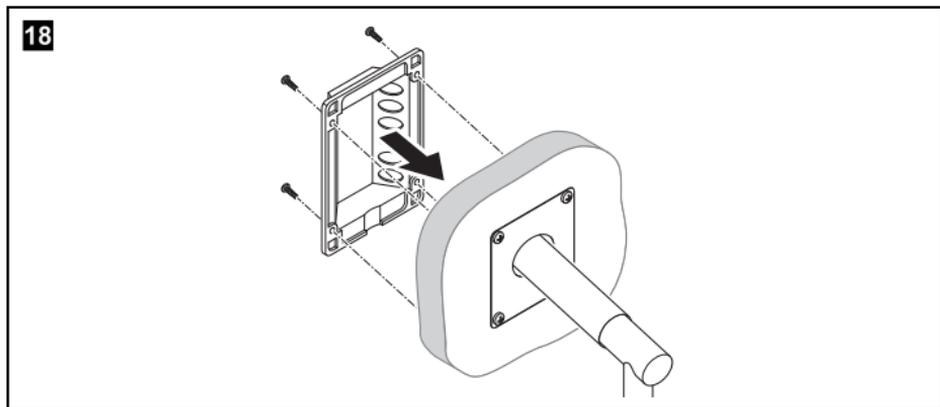
- Use the gas flue kit 3776 (accessories).
- Do not install additional flue ducts, as this leads to poor performance and increases the power consumption of the refrigerator.
- Trim the flue pipe to the desired length if the flue pipe protrudes too far from the vehicle when installed.
- If an exhaust extension is used, ensure that the exhaust extension:
  - has no more than 2 bends,
  - has a minimum slope of 35 degrees above horizontal,
  - is as short as possible,
  - is designed to prevent leaks, and
  - is made of suitable materials in accordance with AS/NZS 5601.2.



No. in fig. 15	Description	No. in fig. 15	Description
1	Air outlet vent with ventilation grille	6	Screw
2	Mounting plate	7	Coil
3	Flue pipe	8	Flue pipe of the refrigerator
4	T-piece	9	Outer wall of the vehicle
5	Adapter	10	Cover



1. Choose a position for the cut out in the outer wall. Ensure that the position is high enough so that the flue pipe can be passed through the cut out at a 45° angle.
2. Place the cover and mark the drill holes (fig. 16 1).
3. Make the rectangular cutout with edge lengths equal to the diameter of the flue duct (fig. 16 2).
4. Insert the coil into the flue pipe of the refrigerator.
5. Place the T-piece on the adapter on the flue pipe of the refrigerator.
6. Direct the T-piece at an angle of 45° to the outer wall.
7. Fix the T-piece, the adapter and the flue pipe of the refrigerator with the screw (fig. 15 6).
8. Mount the mounting plate (fig. 17 1).
9. Seal the gap between the outer wall and the mounting plate with fire-resistant material (e.g. stone wool) (fig. 17 2).
10. Push the flue pipe through the cut-out in the outer wall and at least 15 mm onto the T-piece (fig. 17 3).



11. Attach the cover to the outside of the outer wall of the vehicle (fig. 18).

### 7.8 Installing the drain water hose



#### **NOTICE! Damage hazard**

- Position the opening for the drain hose so that the drain hose does not touch the boiler housing to avoid damage to the drain hose.
- Avoid kinking of the drain water hose.

1. Drill a hole through the floor at the rear of the refrigerator ( $\varnothing$  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.

### 7.9 Sealing the refrigerator

Gas-powered refrigerators in caravans or motor homes must be installed in an enclosed space so that combustion air and exhaust gases 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.

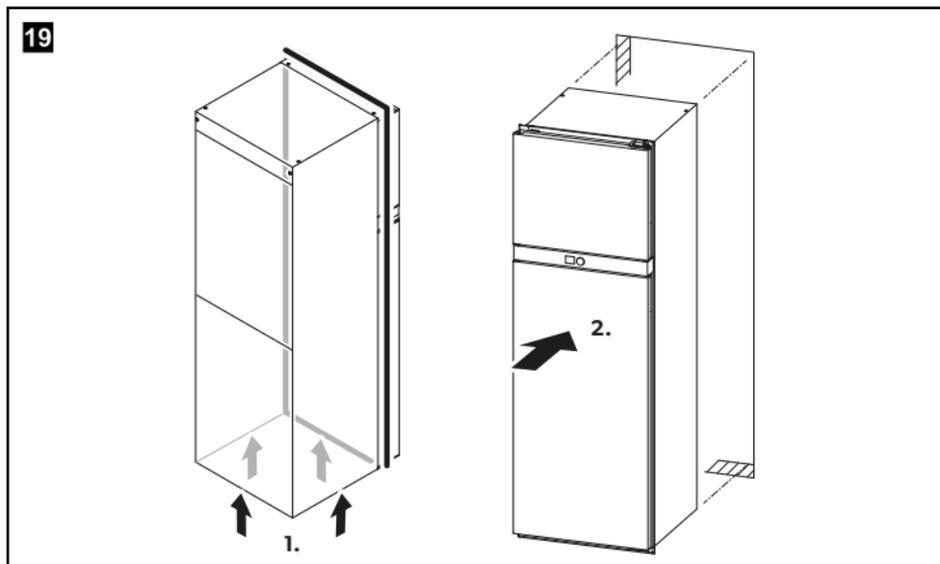


#### **WARNING! Fire hazard!**

Do not use flammable materials for the draught-proof installation.

### Sealing the refrigerator using the sealing strip

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



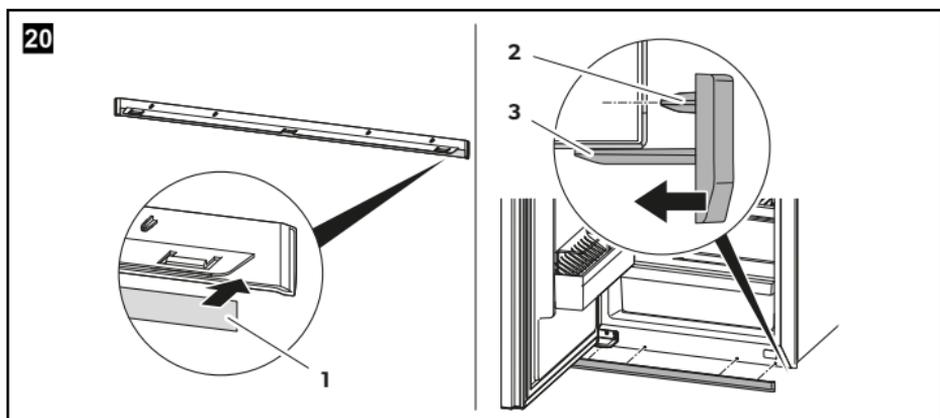
1. Apply the sealing strip to all four sides of the bottom surface of the refrigerator (fig. **19 1**).

2. Push the refrigerator into position (fig. **19 2**).

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

### Sealing the refrigerator using the bottom trim

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 (fig. **20 1**) to the lower surface of the bottom trim piece.

2. Push the bottom trim with the four plugs (fig. 20 2) into the holes on the bottom frame of the refrigerator.
3. Snap the three catches (fig. 20 3) into the holes under the bottom frame of the refrigerator.

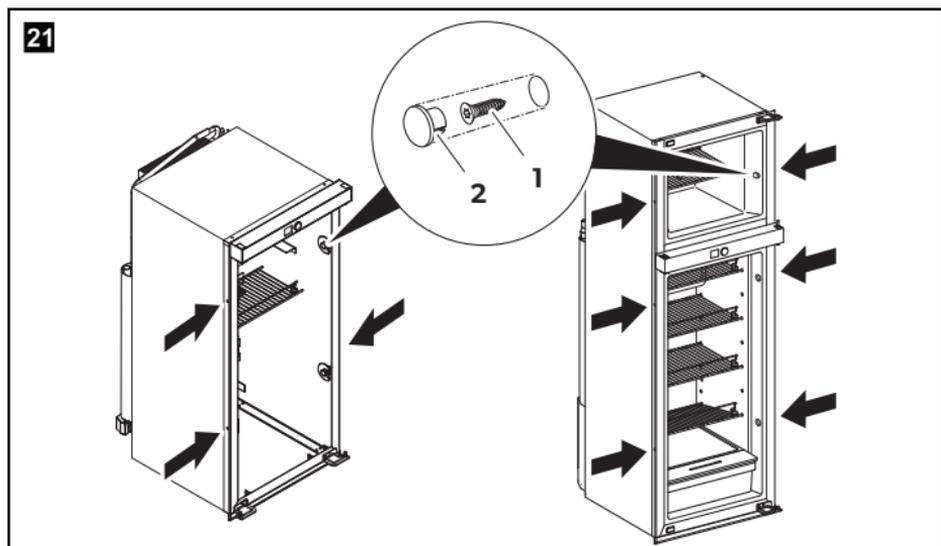
## 7.10 Securing the refrigerator



### CAUTION! Electrocutation 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 (fig. 21 1) through the plastic bushings on the sides of the refrigerator and screw the refrigerator into the recess.
4. Fit the caps (fig. 21 2) onto the bushings.

## 8 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.

### 8.1 Connecting to the gas supply



The assembly and installation of the gas connection must be performed by a qualified person who has demonstrated skill and knowledge related to the construction, installation and operation of gas appliances and has received safety training to identify and avoid the hazards involved.



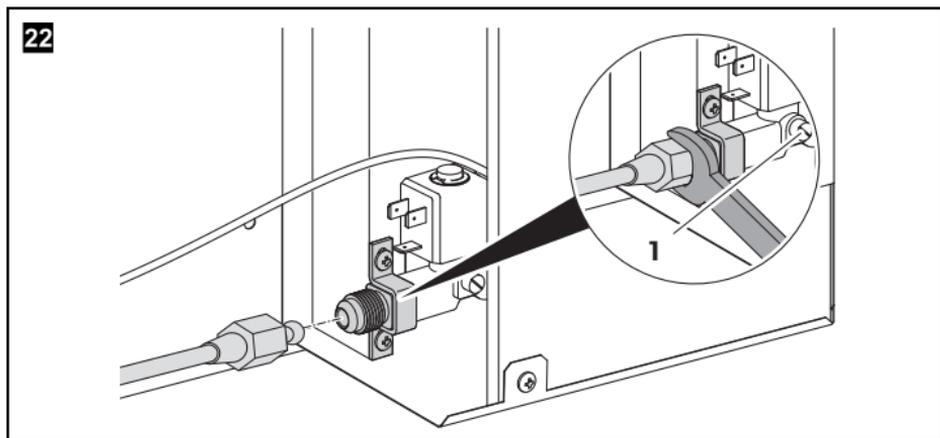
### WARNING! Fire hazard

After installation, it must still be possible to shut off the refrigerator from the supply mains separately from the gas line.



### NOTICE! Damage hazard

- Only use universal LPG gas cylinders equipped with an approved gas pressure regulator. Compare the pressure specifications on the data plate with the pressure specifications on the pressure regulator of the gas cylinder.
- **Only** operate the refrigerator at the pressure specified on the data plate.
- **Only** operate the refrigerator with the type of gas specified on the data plate.
- Only use pressure controllers with a fixed setting which comply with the national regulations.
- The pressure of the gas supply must be 2.75 kPa. Check the pressure at the test point before using the refrigerator (fig. **22 1**).





No. in fig. 23	Description	No. in fig. 23	Description
1	Connection cable for AC connection	15	Frame heater (RUA 6408X, RUA 8408X only)
2	Heater 240 V~	16	Gas valve
3	Ground (CU)	17	Temperature sensor
4	Protective grounding	18	Lamp
5	Electrode	19	Door sensor
6	Outer fan 1	20	Gas inlet
7	Fan thermostat	21	12 V=== heater
8	Outer fan 2	22	Relay
9	Ignition port	23	12 V=== starting battery connection
10	Power module	24	Thermostat
11	Control button	25	D+ to alternator connection
12	Display	26	12 V=== house battery connection
13	Inner fan	27	Thermofuse (2 A)
14	LAC and defrost heater	28	Fuse (30 A) (optional)

### Connecting to AC power supply



#### **DANGER! Electrocuting hazard**

- Never handle plugs and switches with wet hands or when standing on a wet surface.
- If the refrigerator is operated on a boat with an AC mains connection via a shore connection, a residual current circuit breaker must be installed between the AC mains and the refrigerator.  
Seek advice from a qualified technician.
- The refrigerator must be controlled by a two-pole switch that is suitable for the intended purpose. Ensure that the two-pole switch is installed and marked in such a way that it is easily recognizable for use.

- Connect the refrigerator with the mains plug to an AC socket.

**Connecting 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 who is familiar with the applicable regulations of the country in which the equipment is to be installed and/or used, and has received safety training to identify and avoid the hazards involved.

**WARNING! Electrocutation hazard**

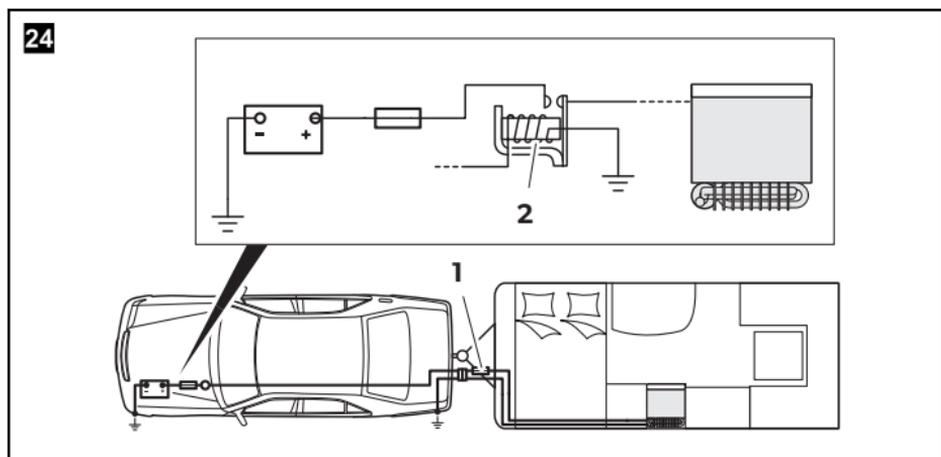
Observe the recommended cable cross-sections, cable lengths and fuses.

**CAUTION! Fire hazard**

Place the fuse near the starting battery to protect the cable from short circuits and possible burning.

**NOTICE! Damage hazard**

- Do not connect the respective negative and positive cables of the DC connections for heating and control to avoid electrical interference or damage to electrical components.
- 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.

**No. in fig. 24 Description**

- |   |                       |
|---|-----------------------|
| 1 | Fuse (30 A)           |
| 2 | Ignition on/off relay |

Observe the following instructions when connecting the refrigerator:

- Observe the recommended cable length:
  - 12 V DC starting battery to heater connection:  $\geq 10 \text{ mm}^2$  (fig. **23 23**, page 23)
  - 12 V DC house battery to power module connection:  $\geq 1 \text{ mm}^2$  (fig. **23 26**, page 23)
  - Connection D+:  $\geq 0.5 \text{ mm}^2$  (fig. **23 25**, page 23)
  - Total cable length: max. 8 m
- Protect the DC starting battery supply for the 12 V== heater with 30 A fuse (fig. **24 1**):
  - Install the 30 A fuse as close as possible to the battery.
  - For installation in caravans: Install the 30 A fuse in the caravan connection of the towing vehicle.
- Protect the DC house battery supply for the power module with a 3 A fuse.

Proceed as follows:

1. Route the starting battery cables to the DC heater through the ignition on/off relay (fig. **24 2**, page 25) or suitable means controlled by an ignition switch to prevent the battery from discharging completely when the engine is off.
2. Connect the starting battery cables to the respective plus and minus terminal (fig. **23 23**, page 23).
3. Connect the house battery cables to the respective plus and minus terminal (fig. **23 26**, page 23).

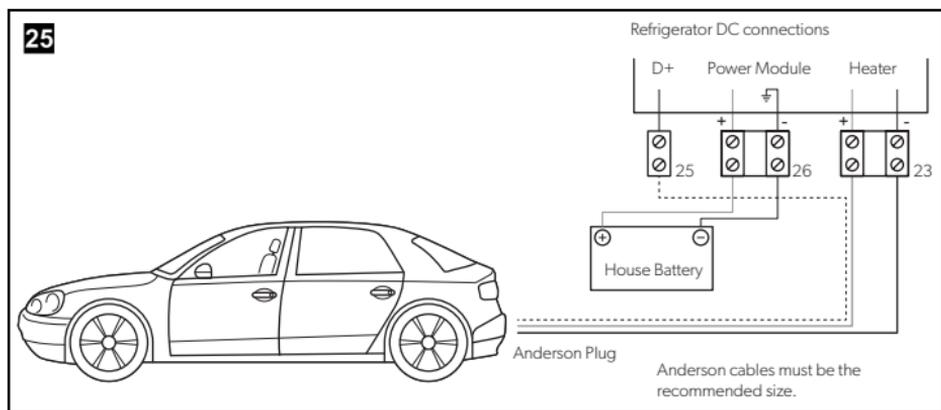
## D+

In automatic mode, the refrigerator selects the most economical connected type of energy. The refrigerator only runs on DC power when the vehicle engine is running. The refrigerator's electronics use the D+ signal from the vehicle's alternator to detect the running engine.

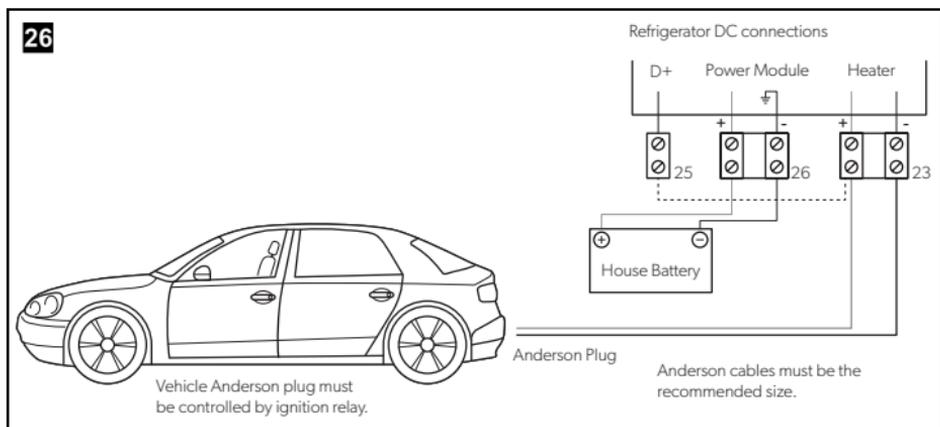
- ▶ Connect D+ to the alternator (fig. **23 25**, page 23).

## 8.3 Alternative connection variants for connection to DC power supply

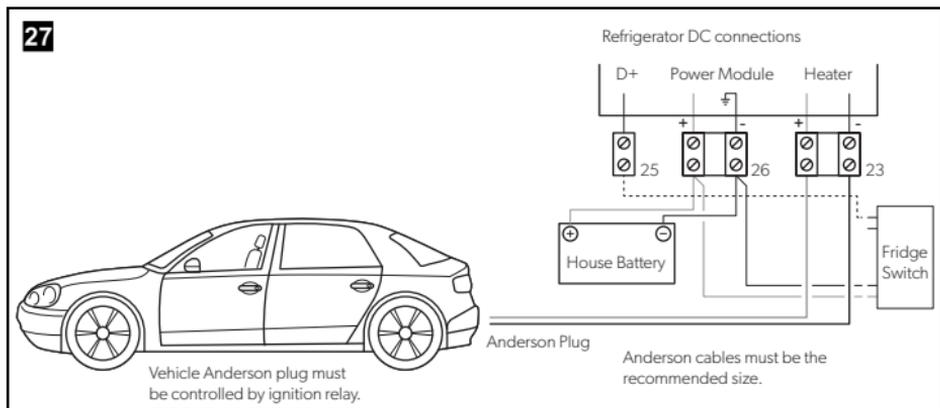
### Connection variant A (fig. **25**)



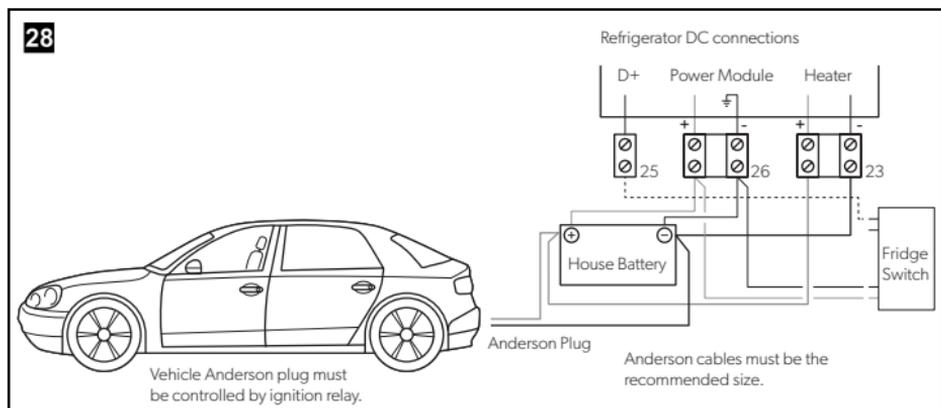
- D+ is connected to the alternator of the vehicle.
- No charging of the house battery by the vehicle.

**Connection variant B (fig. 26)**

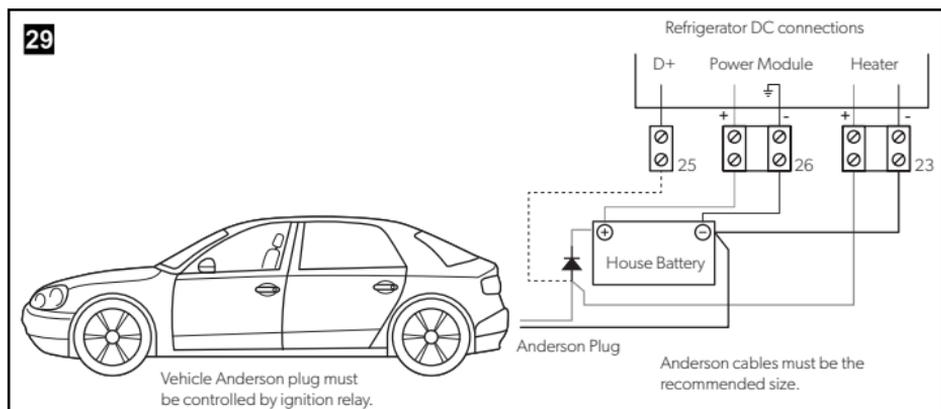
- Anderson plug controlled from the vehicle relay to the ignition switch.
- Power supply only when the engine is running.
- D+ is bridged to the starting battery connection (fig. 23 23, page 23).
- No charging of the house battery by the vehicle.

**Connection variant C (fig. 27)**

- D+ is switched on and off via a fridge motion switch (not included), depending on whether the vehicle is in motion or not.
- No charging of the house battery by the vehicle.

**Connection variant D (fig. 28)**

- Anderson plug controlled from the house battery.
- D+ is switched on and off via a fridge motion switch (not included), depending on whether the vehicle is in motion or not.
- House battery is charged by the vehicle.

**Connection variant E (fig. 29)**

- Anderson plug recharging the house battery via a power diode (not included in the scope of delivery). The D+ wire can only receive a 12 V signal when the battery is being charged.
- D+ is switched on and off by the vehicle starting and stopping.
- House battery is charged by the vehicle.

## 9 Disposal



### **NOTICE! Damage hazard**

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.



- ▶ 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.





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