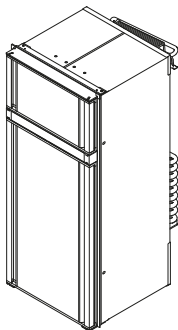




REFRIGERATION

10-SERIES



RMD10.5XS, RMD10.5XG, RMD10.5XP

EN

Absorber refrigerator

Installation Manual.....3

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English

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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.domestic.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 instructions

3.1 General safety



DANGER! Electrocution hazard

- > Do not touch exposed cables with your bare hands. This applies especially when operating the device from the AC mains.



WARNING! Electrocution hazard

- > This device may only be repaired by qualified personnel. Inadequate repairs can lead to considerable hazards. Contact an authorized service center in case of repair.
- > If the power cable for this device is damaged, it must be replaced by the manufacturer, customer service or a similarly qualified person in order to prevent safety hazards.
- > Plug the device to sockets that ensure proper connection especially when the device needs to be grounded.



WARNING! Explosion hazard

- > Never open the absorber unit. It is under high pressure and can cause injury if it is opened.



WARNING! Health hazard

- > This device 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 device by a person responsible for their safety.
- > Children aged from 3 to 8 years are allowed to load and unload the device.
- > 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 device.



WARNING! Risk of child entrapment

- > Ensure that the shelves are mounted and secured in such a way that children cannot climb into the device or lock themselves inside. Only remove the shelves for cleaning purposes.
- > Before disposing of your old device:
 - Dismantle the drawers.
 - Leave the shelves in the device so that children cannot climb inside.
 - Take off the doors.



CAUTION! Risk of injury

- > Do not put your fingers into the hinge.



NOTICE! Damage hazard

- > The device shall not be exposed to rain.
- > Do not lean on the open device door.
- > Protect the device and the cable(s) against heat and moisture.
- > Never pull the plug out of the socket by the cable.
- > During transport, hold the refrigerator only by the housing. Never hold the refrigerator by the absorber unit, cooling fins, gas pipes, door, or control panel.

3.2 Safety when installing the refrigerator

The electrical installation must comply with national and local regulations including AS/NZS 3001 – Electrical installations.

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



WARNING! Electrocutation hazard

- > Installation and removal of the device may only be carried out by qualified personnel.
- > When positioning the device, ensure that the supply cord is not trapped or damaged.
- > Do not locate multiple portable socket-outlets or portable power supplies at the rear of the device.



WARNING! Fire hazard

- > After installation, it must still be possible to disconnect the device 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! Risk of injury

- > To avoid a hazard due to instability of the device, it must be fixed in accordance with the installation instructions.

4 Scope of delivery

Description	Quantity
Absorption refrigerator	1
Drain water hose	1
Sealing strip	1
Installation manual	1
Operation manual	1
Quick Start Guide	1

5 Accessories

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

Description
Gas flue kit 3776
Roof vent kit
LS 300 ventilation grille

6 Intended use

The refrigerator is intended for:

- Installation in motor homes and caravans
- Cooling, deep-freezing and storing food

The refrigerator is **not** suitable for:

- Storing medications
- Storing corrosive substances or substances that contain solvents

- Quick-freezing food

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

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.

Optimum cooling performance is provided at a maximum humidity of 90 % and at ambient temperatures between:

Climate class T: 16 ... 43°C

7.1 Installation



The mechanical and electrical installation and setup of the device must be performed by a qualified technician who has demonstrated skill and knowledge related to the construction and operation of automotive and household 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.



CAUTION! Risk of injury

- > To avoid a hazard due to instability of the device, it must be fixed in accordance with the instructions.
- > The device has sharp edges. Wear gloves during installation.



Find the instructions for changing the door stop and the decorative plate online at: qr.dometic.com/berFOL.

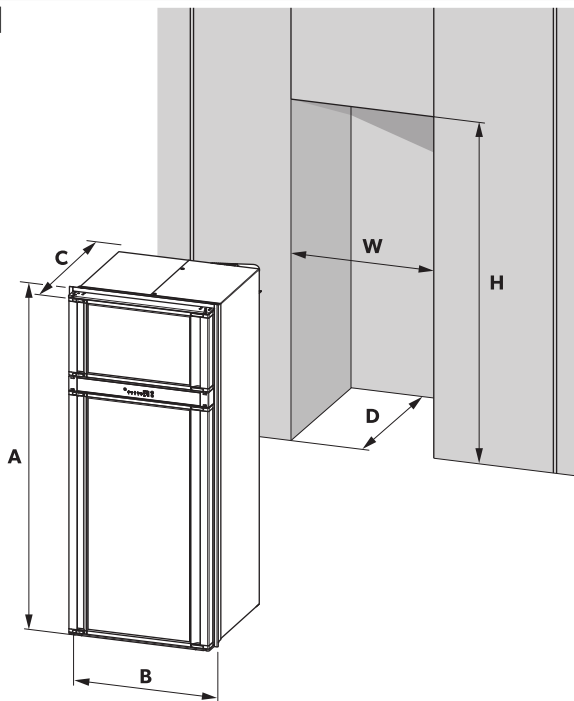


7.1.1 Installation location

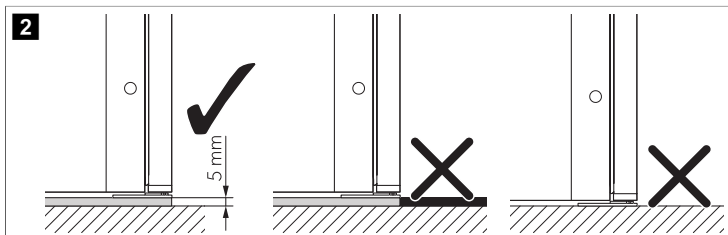
When choosing an installation location, note the following:

- 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
- Do not install the refrigerator in the rear of recreational vehicles with the door facing the direction of travel.
- 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).
- Ensure that no heat-sensitive components are placed in the area of the gas burner, such as cables, cable ducts, etc.
- Choose a location where the refrigerator is protected from drafts, excessive heat and moisture.
- Ensure that the door can be opened and closed unhindered.
- The refrigerator must be installed in a recess so that it stands secure when the vehicle is in motion.
- Consider the dimensions of the refrigerator (see chapter Technical data on page 30) and the required dimensions of the recess:

1

**Refrigerator (dimension with flange)**Height (**A**): 1260 mmWidth (**B**): 550 mmDepth (**C**): 615 mm**Recess**Height (**H**): 1246 – 1251 mmWidth (**W**): 526 – 531 mmDepth (**D**): 571 – 586 mm

7.1.2 Preparing the installation

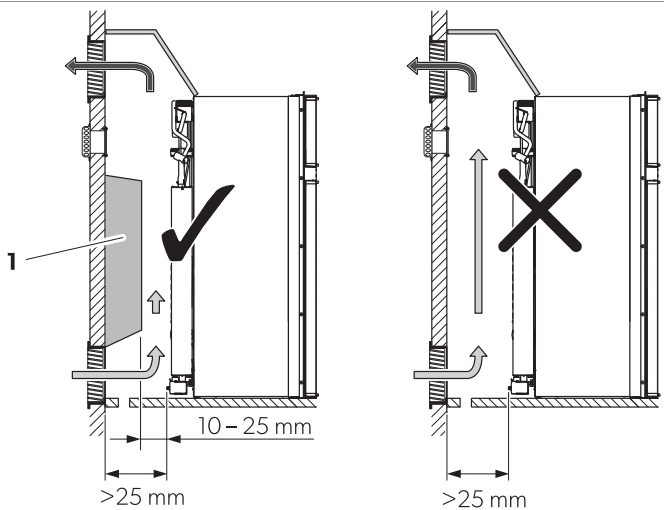


When installing the refrigerator, note the following:

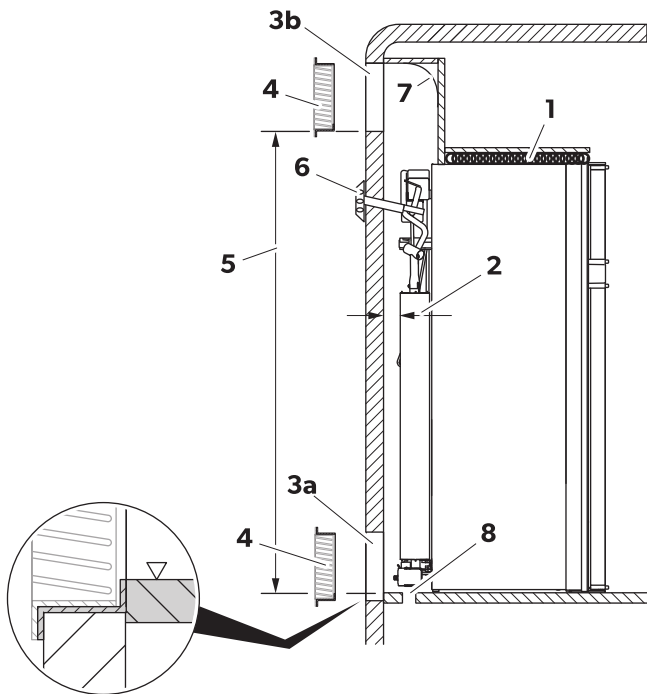
- Park the vehicle horizontally to ensure that the floor is solid and level.
- Install the refrigerator with a minimum distance of 5 mm from the floor to ensure that no obstacles (e.g., carpets) interfere with the free movement of the door.
- Make air inlet and air outlet vents in the outer wall and install the LS ventilation grille (accessories) so that the air can circulate and the heat generated can dissipate to the outside (see chapters Making air inlet and outlet vents on page 11 and Installing the ventilation grille on page 15).

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 > 25 mm cannot be avoided: Install an air guide (📷 Fig. 3 on page 9, 1), e.g. a ventilation plate, to reduce the air duct to a maximum width of 25 mm.

3

- Put insulation wool on top and sides of the cabinet (📷 Fig. 4 on page 10, 1).



1	Insulation wool on top and sides of cabinet
2	Clearance (10 – 25 mm)
3a	Air inlet vent
3b	Air outlet vent
4	LS300 ventilation grille (accessories)
5	Minimum height (height of the cabinet)
6	Gas flue kit 3776 (accessories)
7	Air baffle
8	Gas outlet opening

7.1.4 Making air inlet and outlet vents

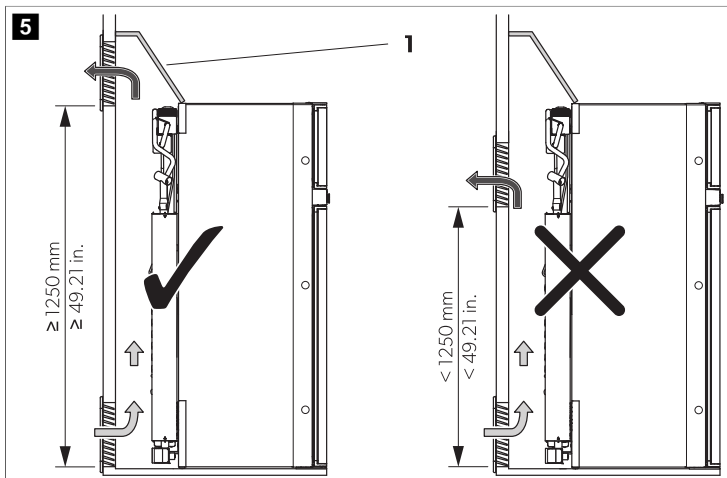


NOTE

- Observe the required dimensions specified in the installation manual for the LS ventilation grille and the roof vent kit.
- The distance between the air inlet and air outlet vent must be at least 1250 mm ( Fig. **5** on page 11). If the minimum distance between the air inlet and air outlet vent cannot be met with **side venting**, the air outlet vent must be installed as a **roof vent**.

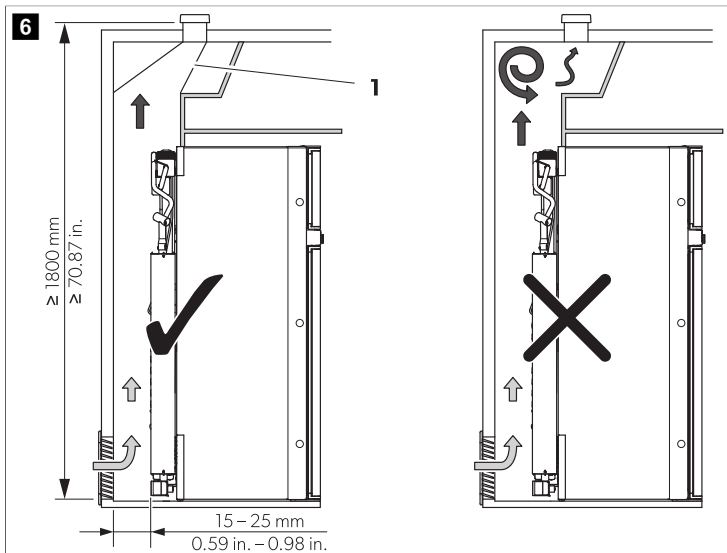
> Make cut outs in the wall for the air inlet and outlet vents.

7.1.4.1 Installation with two side vents



> Install an air baffle (1) over the condenser to prevent the heat from accumulating in the vehicle.

7.1.4.2 Installation with one side vent and one roof vent



7.1.4.3 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 13).

7.1.4.4 Position of the air outlet vent

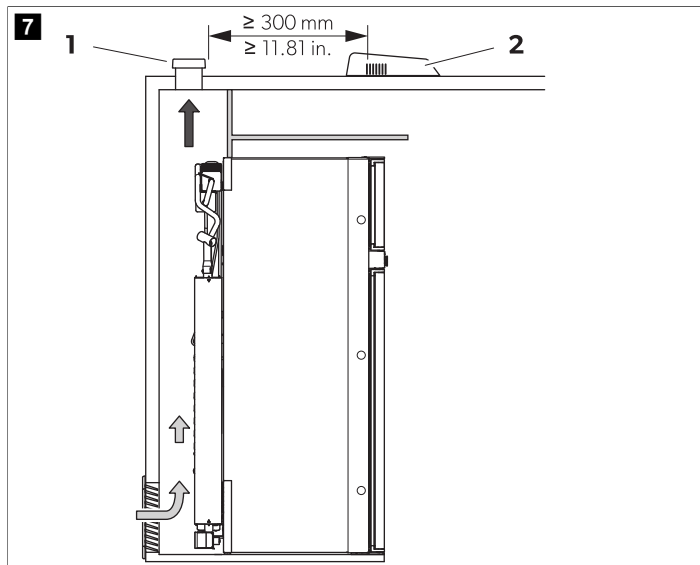
• Side venting:

- 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.
- Ensure that the bottom of the condenser fins are no more than 0.5 m above the air outlet vent.

• Roof venting:

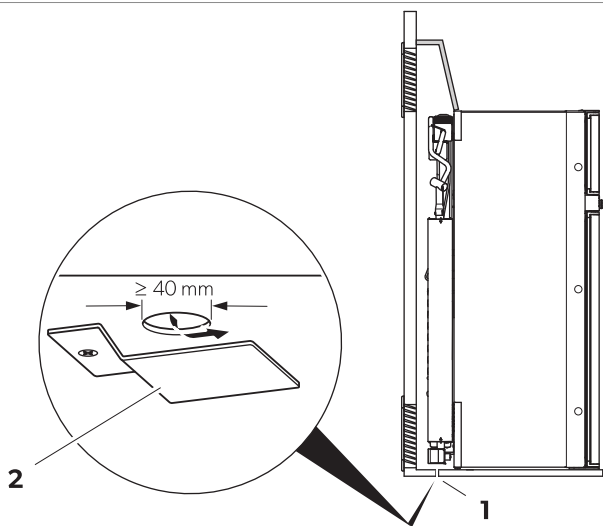
- The air outlet vent must be located directly above the cooling unit at the rear of the refrigerator.
- If the air outlet vent cannot be installed directly, but only offset above the back of the refrigerator: Install an air duct to prevent the heat from accumulating ( Fig. 6 on page 12, 1).
- The distance between the air inlet vent and the roof vent must be at least 1800 mm.

- If a roof air conditioner is installed: Ensure that the distance between the roof vent (1) and the air outlet of the roof air conditioner (2) is > 300 mm.



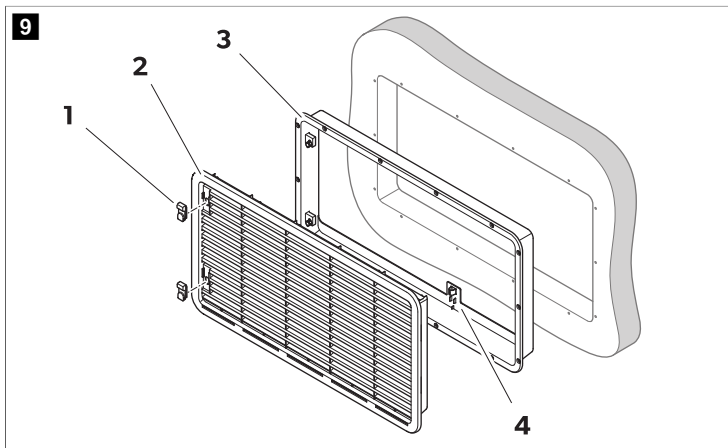
7.1.5 Making a gas outlet opening

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 12).



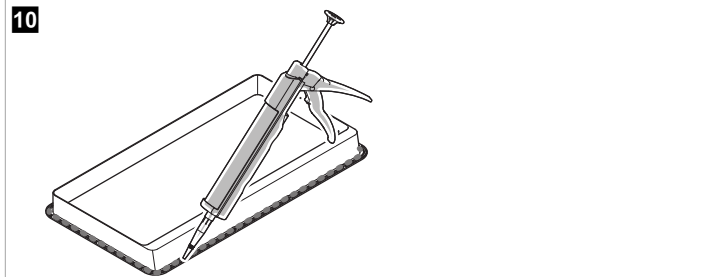
1. Make a cut out under the cooling unit at the back of the refrigerator with a diameter ≥ 40 mm.
2. Shield the opening with a deflector to prevent mud or dirt from getting inside while driving (2).

7.1.6 Installing the ventilation grille

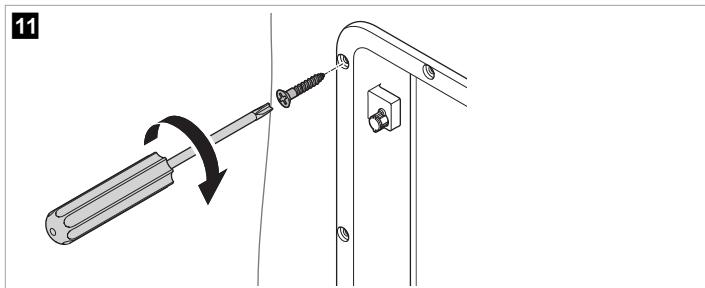


No.	Description
1	Slider
2	Grille
3	Mounting frame
4	Fastening for condensate drain

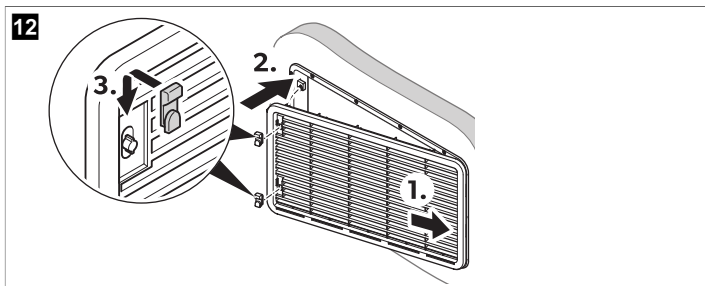
1. Apply sealant to the inner edge of the mounting frame to ensure the installation is water resistant.



2. Insert the mounting frame into the prepared openings in the outer wall (see chapter Making air inlet and outlet vents on page 11) and screw the mounting frame to the mounting holes.



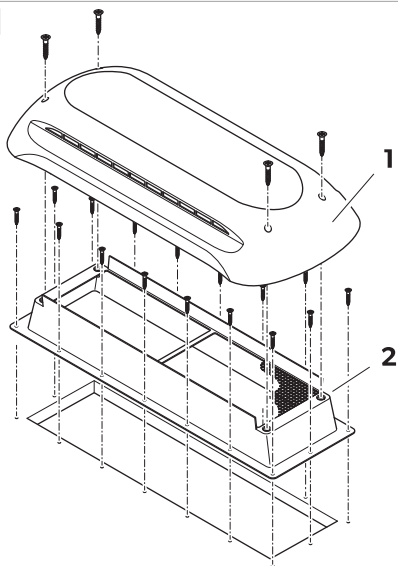
3. Insert the grille (1).



4. Insert the slider to lock the grille in place (3).

7.1.7 Installing the roof vent

13



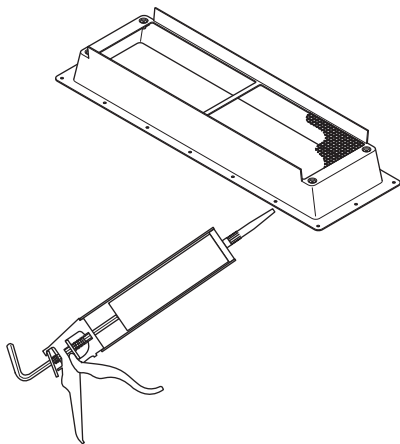
No. in  Fig. 13
on page 17

Description

- | | |
|---|----------------|
| 1 | Hood |
| 2 | Mounting frame |

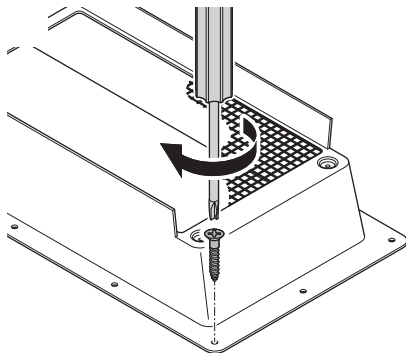
1. Apply sealant to the inner edge of the mounting frame to ensure the installation is water resistant.

14



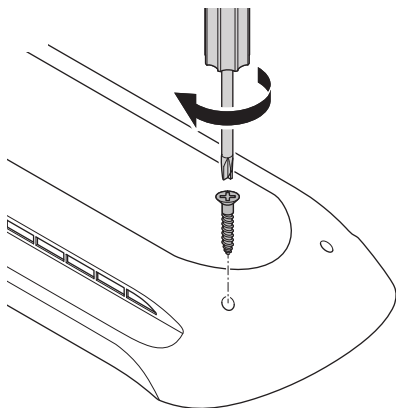
2. Insert the mounting frame into the prepared openings in the outer wall and screw the mounting frame to the mounting holes.

15



3. Insert the hood and screw it tight.

16

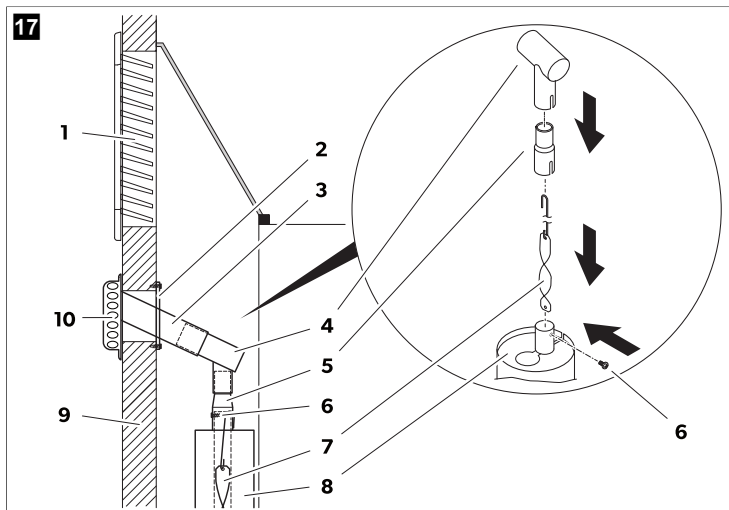


7.1.8 Installing the flue duct



NOTE

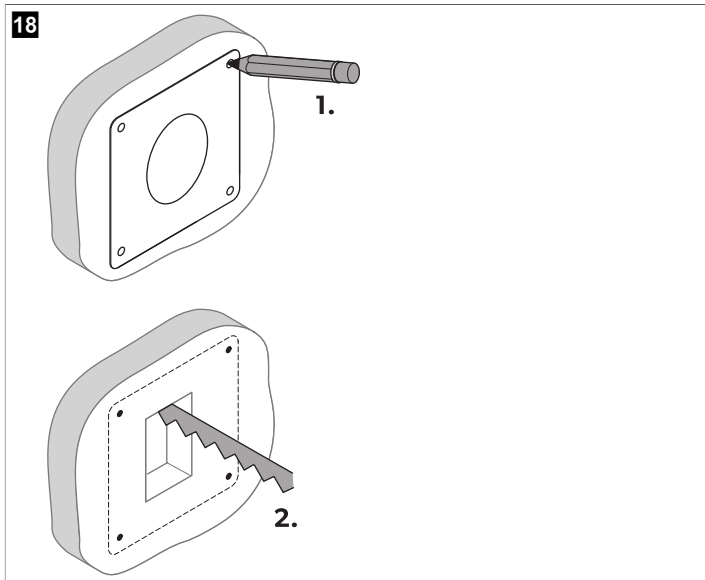
- Use the gas flue kit (accessories).
- Do not install additional flue ducts, as this leads to poor performance and increases the power consumption of the refrigerator.
- Trim the flue pipe to the desired length if the flue pipe protrudes too far from the vehicle when installed.
- If an exhaust extension 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
 - is made of suitable materials in accordance with AS/NZS 5601.2



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

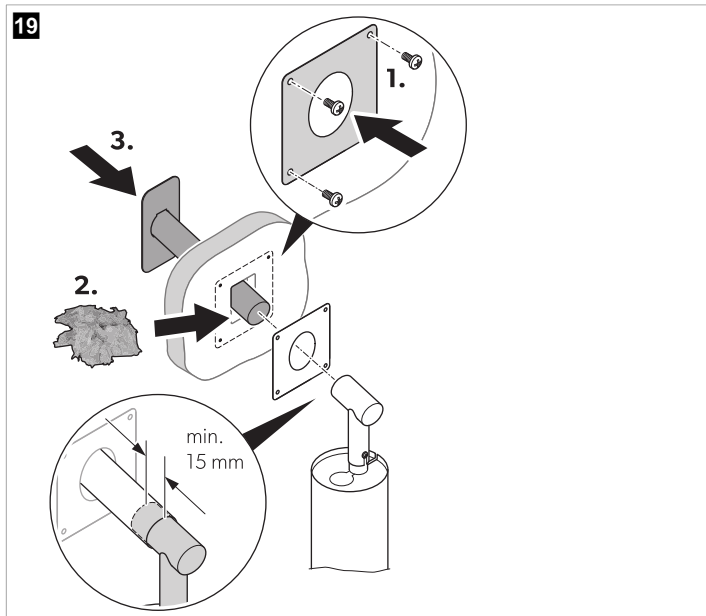
1. Choose a position for the cut out in the outer wall. Ensure that the position is high enough so that the flue pipe can be passed through the cut out at a 45° angle.

2. Place the cover and mark the drill holes ( Fig. 18 on page 21, 1.).



3. Make the rectangular cutout with edge lengths equal to the diameter of the flue duct ( Fig. 18 on page 21, 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. 17 on page 20, 6).

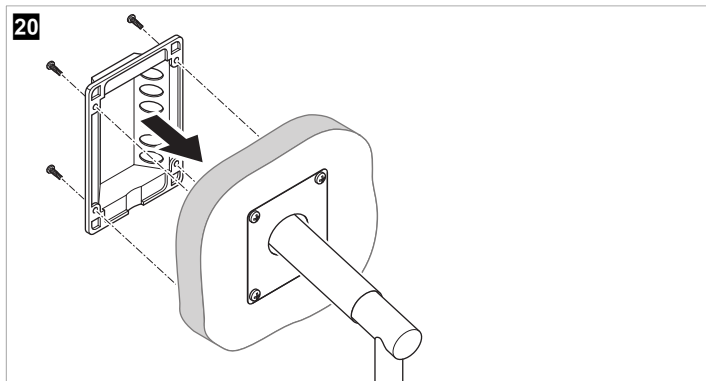
8. Mount the mounting plate.



9. Seal the gap between the outer wall and the mounting plate with fire-resistant material (e.g. stone wool,  Fig. 19 on page 22, 2.).

10. Push the flue pipe through the cut-out in the outer wall and at least 15 mm onto the T-piece ( Fig. 19 on page 22, 3.).

11. Attach the cover to the outside of the outer wall of the vehicle.



7.1.9 Installing the drain water hose

Condensation can form inside the refrigerator, e.g. due to frequent opening of the door or incorrectly stored food. Condensation must be drained with a constant slope.



NOTE

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

7.1.10 Sealing the refrigerator

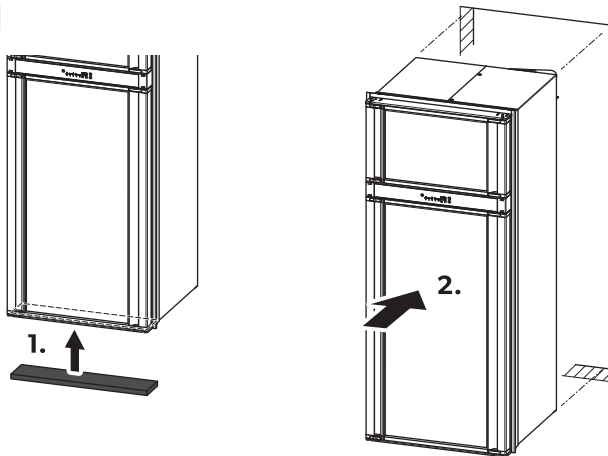
Gas-powered refrigerators in caravans or motor homes must be installed in an enclosed space so that combustion air and exhaust gases cannot enter the living space directly.

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. The manufacturer recommends using a flexible seal to ease removal and installation for maintenance purposes.



WARNING! Fire hazard

- > Do not use flammable materials such as silicone sealants, foam or similar for the draft-proof installation.



1. Apply the sealing strip to front of the bottom surface of the refrigerator.
 2. Push the refrigerator into place.
- ✓ The space behind the refrigerator is sealed to the interior of the vehicle.

7.1.11 Securing the refrigerator

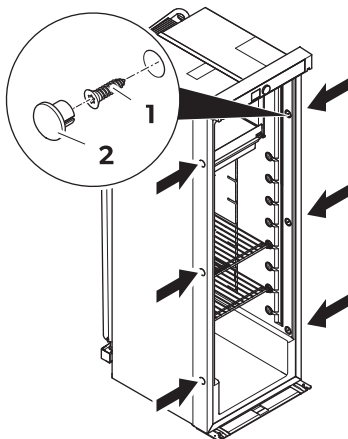


NOTICE! Damage hazard

- > Only screw through the bushings provided, otherwise foamed components, such as cables, can be damaged.
- > Fasten the side walls or the attached strips in such a way that the screws are tight even under increased load (while driving).



NOTE The refrigerator is designed to provide a regulated air flow. The manufacturer does not recommend to leave additional space between the refrigerator and the recess walls.



1. Place the refrigerator in its final position with the front flange sitting tight against the recess front.
2. Fasten the screws (1) through the plastic bushings in the sides of the refrigerator, and further into the wall.
3. Put the caps (2) onto the screw heads.

7.2 Connecting the refrigerator

7.2.1 Connecting the gas supply



CAUTION! Explosion hazard

- > This refrigerator may only be connected to the gas supply by a specialist in accordance with the applicable guidelines and standards.
- > Use flexible gas piping to ensure that the installation remains tensionless (not included in the scope of the delivery). A hose connection is **not** permitted.
- > Use a metal-sealed screw connection.
- > The gas filter (white) in the refrigerator gas connection must not be removed.
- > Only use cylinders of Universal LPG (not natural gas or city gas) with an approved gas pressure regulator. Compare the pressure information on the rating label with the pressure information on the gas cylinder.
- > **Only** operate the refrigerator at the pressure shown on the rating label.
- > **Only** operate the refrigerator with the type of gas shown on the rating label.
- > Observe the pressures which are permitted in your country. Only use pressure controllers with a fixed setting which comply with the national regulations.
- > It must be possible to shut off the refrigerator from the gas line separately by means of a shut-off device. The shut-off device must be easily accessible.

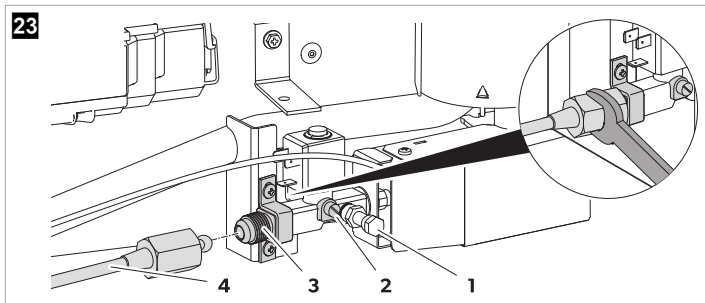
**NOTICE! Damage hazard**

- > Always use a backup wrench (size 17 mm) when connecting the gas supply line to the refrigerator's gas inlet fitting.



NOTE Optionally, use the Dometic flexible gas connection pipe to keep the installation tensionless.

1. Connect the refrigerator securely by hand to the gas supply.



No. in  Fig. 23 on page 26	Description
1	Pressure testing point
2	Manual shut-off
3	Refrigerator gas connection (5/8" 18 UNF 2A)
4	Gas piping

2. Have a leak test and a flame test performed by an authorized specialist after professional installation. Ensure you are issued with a certificate of inspection and hand this certificate to the end user for safekeeping.

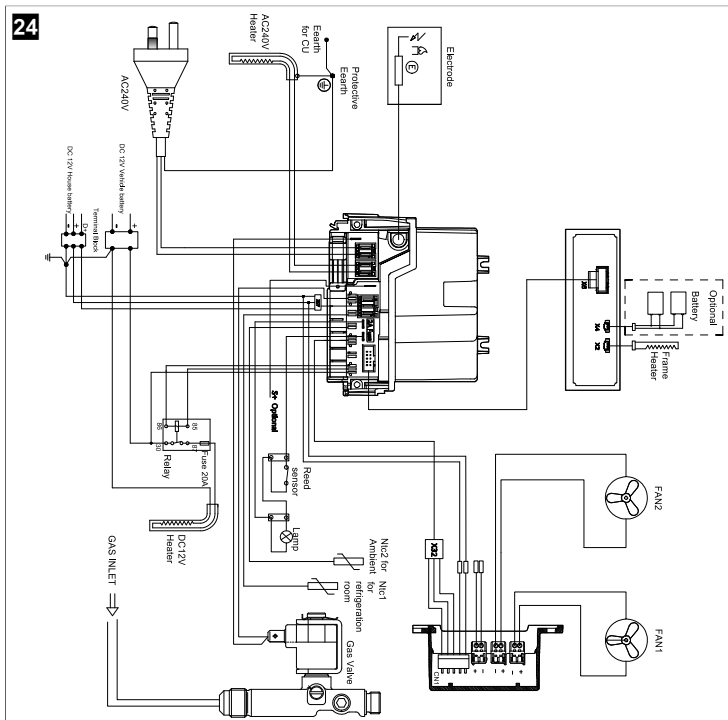
7.2.2 Connecting to AC and DC

Observe the following notes for the connection to a AC and DC power supply:

- The device plug must not be placed directly behind the ventilation grill in order to prevent the air circulation from being impaired and to protect the device plug from splashes of water.
- The device plug of the AC connection cable must not be cut off.
- The connection cables must be laid so that they do not come in contact with hot parts of the unit/burner or with sharp edges.
- Changes to the internal electrical installation or the connection of other electrical components (e.g., extra third party fans) to the internal wiring of the device will void any claims from the guarantee and product liability.
- The device has a CI bus interface and can be controlled through a compatible central vehicle display.

Connect the refrigerator according to Circuit diagram on page 27.

7.2.2.1 Circuit diagram



7.2.2.2 Connecting the DC power supply



WARNING! Fire hazard

- > The supply line to the heating element must be protected with a 20 A fuse.
- > The supply line to the electronics must be protected with a 2 A fuse.



NOTICE! Damage hazard

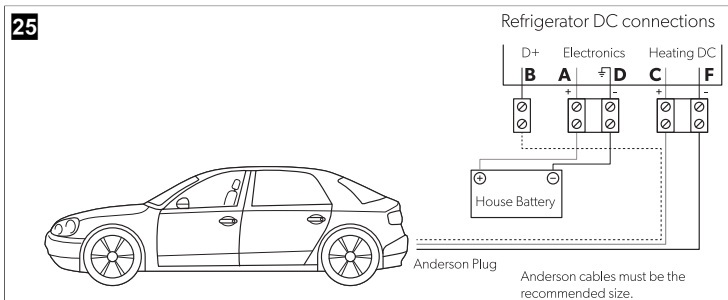
- > The respective positive and negative supply lines of the DC connections for electronics and heating element may not be joined with one another and carried on a single wire. This can cause electrical interference or damage to electrical components.

Note the following cable sizes:

- < 6 m (in the interior): at least 6 mm²
- > 6 m (in the interior): at least 10 mm²
- Connections electronics and heating element: 0.8 mm²
- Connections D+: 0.8 mm²
- Cable fed via drawbar (caravans only): 2.5 mm²

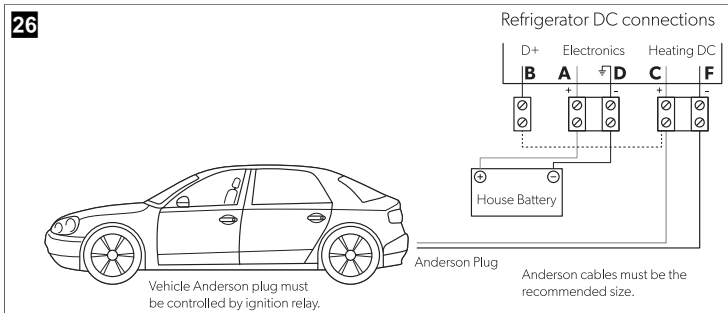
7.2.2.2.1 Alternative connection variants for connection to DC power supply

Connection variant A



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

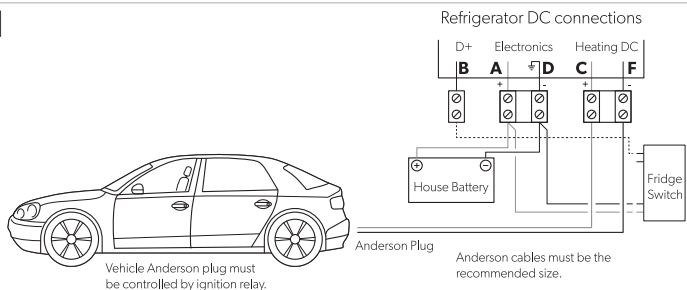
Connection variant B



- 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.
- No charging of the house battery by the vehicle.

Connection variant C

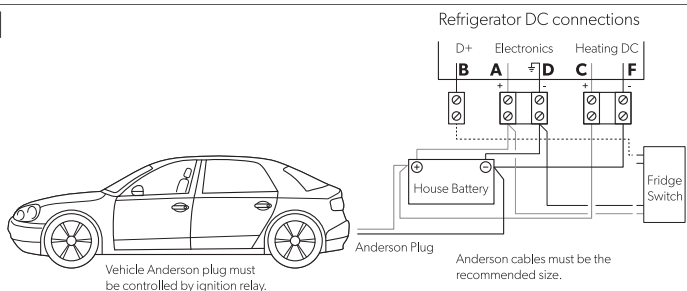
27



- 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

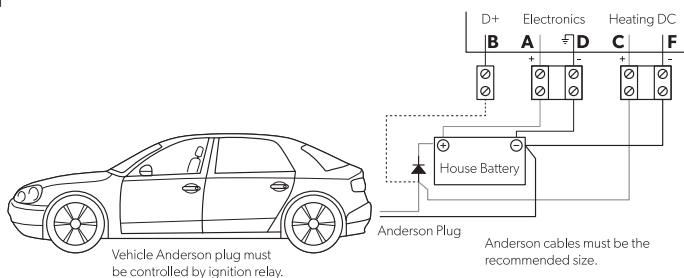
28



- 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.

29

Refrigerator DC connections



- 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.

7.2.2.3 Connecting the AC power supply

- > Connect the refrigerator to an AC socket using the device plug.

8 Technical data

	RMD10.5XS	RMD10.5XG	RMD10.5XP
Connection voltage	230 – 240 V ~ / 50 – 60 Hz 12 V ==		
Capacity:			
Gross capacity	173 L	173 L	173 L
Refrigerator compartment	136 L	136 L	136 L
Frozen compartment	33 L	33 L	33 L
Total net capacity	169 L	169 L	169 L
Power consumption	250 W (240 V ~) 170 W (12 V ==)		
Energy consumption	5 kWh / 24 h (240 V ~)		
Gas consumption	586 g / 24 h		
Climate class	T		
Dimensions (HxWxD) (without flange)	1246 × 526 × 615 mm		
Weight	52.5 kg		

	RMD10.5XS	RMD10.5XG	RMD10.5XP
Injector size	ø 0.38 mm		
Inspection/certification	 		



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