

# ↗ DOMETIC

# CLIMATE CONTROL

# FJX



## Dometic FreshJet FJX

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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.dometic.com](http://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, can result in property damage.



**NOTE** Supplementary information for operating the product.

### 3 Safety instructions



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

- > **Electrical appliances are not toys.** The appliance is not to be used by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they are under supervision or have been given instruction.
- > Children should be supervised to ensure that they do not play with the appliance.
- > This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they are under supervision or have been given instruction concerning use of the appliance in a safe way and understand the hazards involved.
- > Cleaning shall not be performed by children without supervision.
- > Any person who is involved with working on or breaking into a refrigerant circuit should hold a current valid certificate from an industry-accredited assessment authority, which authorizes their competence to handle refrigerants safely in accordance with an industry recognized assessment specification.
- > Maintenance shall only be performed as recommended by the equipment manufacturer. Maintenance and repair requiring the assistance of other qualified personnel shall be carried out under the supervision of the person competent in the use of flammable refrigerants.
- > Repair of the appliance may only be carried out by qualified personnel who are familiar with the risks involved and the relevant regulations. Inadequate repairs may cause serious hazards. For repair service, contact the service center in your country (see [dometic.com/dealer](http://dometic.com/dealer)).
- > Always disconnect the power supply when working on the appliance.
- > The appliance shall be stored in a room without continuously operating ignition sources such as open flames, an operating gas appliance or an operating electric heater.
- > Do not pierce or burn the appliance.
- > Be aware that refrigerants may not contain an odor.
- > Do not use the appliance near flammable fluids or in closed rooms.
- > Ensure that no combustible objects are stored or installed near the air outlet. A distance of at least 50 cm must be kept.
- > Keep the ventilation openings clear of obstruction.
- > Do not damage the refrigerant circuit.
- > Under no circumstances shall potential sources of ignition be used in the searching for or detection of refrigerant leaks. A halide torch (or any other detector using a naked flame) shall not be used.
- > The roof air conditioner shall be installed in a vehicle with a floor area larger than 4 m<sup>2</sup>.



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

- > Do not reach into air outlets or insert any foreign objects in the appliance.
- > Do not undo the upper cover of the appliance in the event of a fire. Use approved extinguishing agents. Do not use water to extinguish fires.
- > If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified personnel in order to avoid a hazard.
- > In the case that the appliance contains an ionizer, consult your physician if you have a medical condition. The ionizer can produce ozone (O<sub>3</sub>) in small quantities. If you suffer from lung disease, asthma, heart disease, respiratory disease, respiratory problems, or have an ozone sensitivity, consult your physician to determine whether the use of this device is safe for you.



### NOTICE! Damage hazard

- > Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.
- > The appliance shall be stored so as to prevent mechanical damage from occurring.
- > Do not make any alterations or conversions to the appliance.
- > Never drive through automatic car washes when the appliance is mounted.
- > If faults occur in the refrigerant circuit, the appliance must be checked and repaired by the manufacturer, its service agent or similarly qualified personnel in order to avoid a hazard.

## 4 Intended use

The roof air conditioner is only designed for installation on the roof of a caravan or recreational vehicle to provide cooling and heating.

The roof air conditioner is **not** suitable for trains, houses, and apartments. The roof air conditioner is **not** suitable for installation in construction machines, agricultural machines, or similar equipment.

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.

## 5 Explanations of symbols on the appliance



A2L

Warning! Low burning velocity material.



Read operating manual.



Read service manual.

## 6 Technical limits and conditions

The roof air conditioner is intended for vehicles with the following roof thicknesses:

- 25 mm ... 60 mm for a roof cutout of 400 mm × 400 mm
- 32 mm ... 60 mm for a roof cutout of 360 mm × 360 mm

The roof top air conditioner will operate at ambient temperatures between  $-2^{\circ}\text{C}$  ...  $52^{\circ}\text{C}$ . The roof air conditioner is designed to be installed within  $\pm 10^{\circ}$  of the horizontal plane.

## 7 Technical description

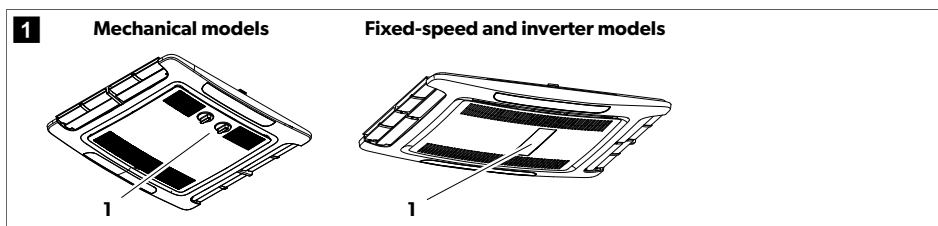
The roof air conditioner supplies the vehicle's interior with cool or warm air which is without dust and dirt and can be dehumidified.

The FJX4233M does not have a heating function.

The roof air conditioner can lower the temperature within the vehicle to a certain level that depends on the type of vehicle, the ambient temperature and the cooling capacity of the roof air conditioner. Below an outer temperature of 16°C the roof air conditioner does not cool anymore.

The roof air conditioner is operated with the following operating elements:

- Control panel
- Remote control (only some models, see List of models on page 6)



### 7.1 List of models

The models are differentiated between mechanical, fixed-speed, and inverter models.

The following table shows which function applies to a specific model:

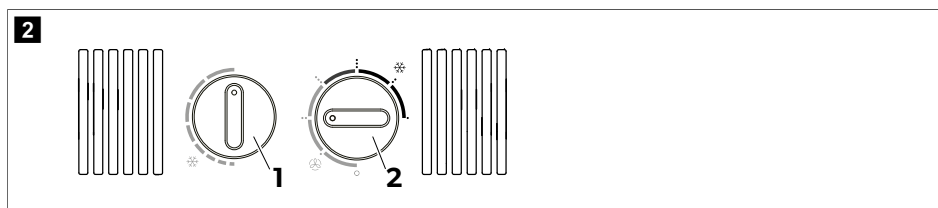
● Feature is available

○ Feature is upgradable

	FJX4233M	FJX4233EEH	FJX4333EEH	FJX4333E	FJX7333IHP	FJX7337IHP
					FJX7433IHP	FJX7457IHP
	Mechanical	Fixed-speed			Inverter	
Automatic		●	●	●		●
Cooling	●	●	●	●		●
Heating		●	●	○		●
Ventilation	●	●	●	●		●
Dehumidification		●	●	●		●
Air purifier	○	●	●	○		●
ADB light		●	●	○		●
External light						●
Timer		●	●	●		●
Sleep		●	●	●		●
Soft start			●	○		●

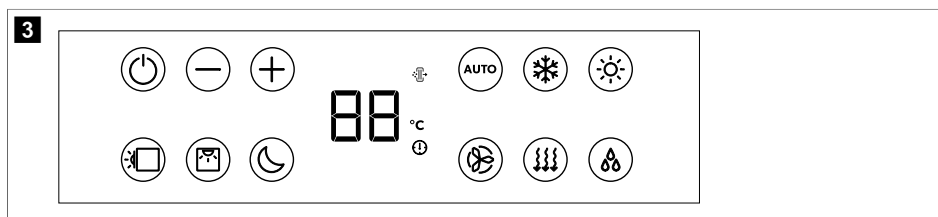
## 7.2 Control panel

### Control panel of mechanical models



Knob	Description
	Selects the temperature. Turn clockwise for higher cooling.
	Switches the roof air conditioner on or off and selects the intensity of the air circulation in the Ventilation () mode or the cooling intensity in the Cooling () mode.

### Control panel of fixed-speed and inverter models



Symbol	Description
	Switches the roof air conditioner on or to standby mode.
	Increases the currently displayed value.
	Reduces the currently displayed value.
	Pairs with bluetooth/WLAN when both buttons are pressed simultaneously.
	Switches the ambient lights in the roof top unit on or off.
	Switches the ambient lights in the air distribution box on or off.
	Activates the sleep function (only for models with sleep function).
	Displays the set temperature and indicates fan level when fan is adjusted.
	Indicates the Air Purifier mode is active.

Symbol	Description
°C	Indicates the temperature is displayed in degrees Celsius.
⏰	Indicates the timer is set.
AUTO	Enables/disables the automatic mode (only for models with automatic mode).
❄️	Enables/disables the cooling mode (only for models with cooling mode).
☀️	Enables/disables the heating mode (only for models with heating mode).
🌀	Adjusts the fan speed between Low, Med, High, Turbo or Auto (shown as 1, 2, 3, 4 or AA on the air distribution box display for a short time when changed).
🌀	Enables/disables ventilation mode (only for models with ventilation mode). Circulates air without heating or cooling.
💧	Enables/disables dehumidification mode (only for models with dehumidification mode).


















### 7.3 Remote control

The remote control is only available for some models, see List of models on page 6.



Control and display elements  Fig. 4 on page 8:





Button	Description
—	<p><b>Display</b></p> <p>Displays the following:</p> <ul style="list-style-type: none"> <li>• Time</li> <li>• Selected room temperature (target value) in °C</li> <li>• Actual room temperature</li> <li>• Air conditioning mode</li> <li>• Fan speed</li> <li>• Symbols for active additional functions</li> <li>• Battery status</li> </ul>
	Switches the roof air conditioner on or to stand-by mode.
	Increases the currently displayed value.
	Reduces the currently displayed value.
	Selects the fan speed (Selecting the fan speed manually on page 13).
	Selects the air conditioning mode (only for models with automatic mode). The corresponding symbol is displayed.
	Activates the sleep function (only for models with sleep mode). The  symbol is displayed.
	Confirms and saves settings.
	Sets the timer and the clock.
	Switches the ambient lights in the air distribution box on or off.
	<p>Press once to display the current interior temperature. The  symbol is displayed.</p> <p>Press twice to display the set temperature.</p>
	<p>Activates the I feel function. The  symbol is displayed.</p> <p>Every 10 min the I feel function adjusts the target temperature to the actual temperature measured by the remote control.</p>
	Switches the ambient lights in the roof top unit on or off.
	Displays that the remote control's batteries are empty. Replace the batteries (Replacing the remote control batteries on page 16).
	Displays that the remote control is transmitting values to the roof air conditioner.






## 7.4 Air conditioning modes

### Air conditioning modes of mechanical models

The roof air conditioner has the following air conditioning modes:



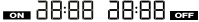
Air conditioning mode	Displayed symbol	Description
Cooling		You specify the temperature and fan settings, and the roof air conditioner cools the interior to this temperature.
Ventilation		You specify the fan settings, and the roof air conditioner circulates air without heating or cooling.



### Air conditioning modes of fixed-speed and inverter models

Air conditioning mode	Displayed symbol	Description
Automatic	<b>A</b>	You specify the temperature, and the roof air conditioner brings the interior to this temperature by heating or cooling and by controlling the necessary fan speed.
Cooling		You specify the temperature and fan settings, and the roof air conditioner cools the interior to this temperature.
Heating		You specify the temperature and fan settings, and the roof air conditioner heats the interior to this temperature. The fan will only start after 2 min (on Low speed) and then after around 5 min will go to the set fan speed (after the evaporator reaches temperature).  Only available for models with heating mode.
Ventilation		You specify the fan settings, and the roof air conditioner circulates air without heating or cooling.
Dehumidifying		The roof air conditioner removes moisture from the air without heating or cooling the interior thus decreasing the relative air humidity.
Air purifier		The roof air conditioner ionizes the air, thus collecting dust and particles including to viruses and bacteria out of the air.  Only available for models with air purification mode.

## 7.5 Additional functions

These additional functions are not available for mechanical models.

Additional function	Display message	Description
Timer		The roof air conditioner is switched on at the specified time.
		The roof air conditioner is switched off at the specified time.
		The roof air conditioner is switched on and off at the specified times.

Additional function	Display message	Description
Sleep		The sleep function reduces the fan speed and the compressor speed to reduce the noise levels for comfortable sleeping.
I Feel		The remote control measures the room temperature and transmits this measurement to the roof air conditioner every 10 min. The roof air conditioner adapts the target value to this measurement.
Soft start		Only for models with soft start mode.  The peak current that the compressor start produces is reduced by the soft start function. If a generator is used as power supply, the generator will not be overloaded.

## 8 Before initial use

### Inspection before starting up

Before switching on the roof air conditioner, observe the following:

- > Check whether the supply voltage and frequency correspond to the values specified in Technical data on page 25.
- > Ensure that both the air intake openings and the air nozzles are free. All ventilation grilles must always be kept free to ensure that the roof air conditioner is able to operate at maximum capacity.

### Prepare the remote control

Only for models with remote control

- > Insert the batteries (Replacing the remote control batteries on page 16).

### Set the time

Only for models with timer mode.

- > Set the current time (Setting the current time on page 14).

## 9 Operation

### 9.1 Tips for enhanced performance

To optimize the performance of the roof air conditioner, observe the following tips:

- Improve the heat insulation of your vehicle by sealing gaps and hanging reflective blinds or curtains on your windows.
- Select an appropriate temperature and fan speed.
- Align the air nozzles sensibly.
- Ensure that the air nozzles and air intake openings are not covered by cloths, paper, or other objects.

Only for mechanical models

- If the vehicle has been under direct sunlight for a long time, operate the roof air conditioner in the Ventilation (⏏) mode with the windows open for a while before switching to the Cooling (❄️) mode.
- Avoid opening doors and windows for as long as possible in the Cooling (❄️) mode.

### 9.2 Basic notes on operation

The mechanical models have three operating modes:

Operating mode	Description
Off	The roof air conditioner is switched off.
Cooling	The roof air conditioner cools the interior.
Ventilation	The roof air conditioner circulates air without cooling.

The fixed-speed and inverter models have two operating modes:

Operating mode	Description
Standby	The roof air conditioner is ready for operation and can be switched on with the remote control. The ambient lights are available. The remote control is also in standby, but you can switch the remote control on independently from the roof air conditioner.
On	The roof air conditioner is conditioning the air in the interior.

## 9.3 Mechanical models

The given information in this chapter applies only to the FJX4233M roof air conditioners.

### 9.3.1 Switching the roof air conditioner on and off

The roof air conditioner has two air conditioning modes:

- Ventilation (🌀) mode
- Cooling (❄️) mode



**NOTE** Before you switch from Ventilation mode to Cooling mode or vice versa, wait for at least 30 s. Otherwise the switching current may blow the fuse.

Each mode has three settings:

- ..: Low
  - ...: Medium
  - ....: High
- > To switch on, turn the ⏻ knob to the Ventilation (🌀) mode position or the the Cooling (❄️) mode position and choose the desired setting.
- ✓ The roof air conditioner is switched on and operates with the values that were set before switching off.
- > To switch off, turn the ⏻ knob to position 0.

### 9.3.2 Setting the temperature

- > Turn the 🕒 knob into the desired position. Turning the knob clockwise means a cooler temperature.
- ✓ The temperature is set on the roof air conditioner.


## 9.4 Fixed-speed and inverter models

The given information in this chapter applies to fixed-speed and inverter models.

### 9.4.1 Using the remote control

Consider the following hints when using the remote control:



- Point the remote control at the IR receiver of the control panel.
- The corresponding settings and values are directly transmitted to the roof air conditioner when you press a button.

- The roof air conditioner confirms the receipt of data with a beep sound.
  - Values increase or decrease faster when you press and hold the + or – button.
  - In the standby mode, the remote control display is inactive too. You can switch the remote control on to standby independently from the roof air conditioner.
- > To switch only the remote control to or from standby, press the  button while not pointing to the control panel's IR receiver.

### 9.4.2 Switching the roof air conditioner on and to standby



#### NOTE

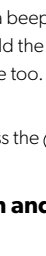

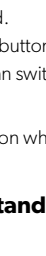
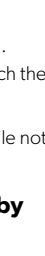

- When the roof air conditioner is switched on, it resumes operation with the previously set values.
  - The roof air conditioner can be switched off only by cutting the power supply.
- > Press the  button on the remote control or the  button on the control panel to switch the roof air conditioner between on and standby modes.



### 9.4.3 Selecting the air conditioning mode

- > Select the desired air conditioning mode using the MODE button (see Air conditioning modes on page 10).
- ✓ The roof air conditioner confirms the receipt of the values with a beep sound. The roof air conditioner is switched to the selected air conditioning mode.

### 9.4.4 Selecting the fan speed manually

In all modes, except for the Automatic (**A**) and Dehumidifying () modes, the fan speed can be selected manually.

Display message	Description
	Low fan level
	Medium fan level
	High fan level.
	Turbo fan level.
	Automatic mode (the fan speed is adjusted based on the ambient temperature).

- > Press the  button of the remote control or the  button of the control panel to select the desired fan speed.
- ✓ The roof air conditioner confirms the receipt of the values with a beep sound.

The new fan speed is set.


### 9.4.5 Setting the temperature

In the Automatic (**A**), Cooling () , Heating () , and Dehumidifying () modes, you can specify a temperature between 16°C and 31°C.

- > Use the + or – button on the remote control to set the desired temperature.
- ✓ The roof air conditioner confirms the receipt of the values with a high note. The temperature is set on the roof air conditioner.

### 9.4.6 Setting the current time

The remote control needs the current time in order to program the timer. The time is shown on the remote control display.

1. Press and hold the  button in order to get into the mode for setting the time.
  - ✓ The time flashes on the remote control display.
2. Use the + or – button to set the current time. Press and hold the + or – button longer than 2 s to increase or decrease the time quicker.
3. Press the **SET** button to confirm the time.

### 9.4.7 Setting the timer

The timer function allows you to set a specific time period for air conditioning. You can specify the switch-on time, the switch-to-standby time, or both values.




The timer function is set via remote control.



**NOTE** The remote control will return to its initial mode if no button is pressed on the remote control for 15 s during timer setup.

#### Setting the switch-on timer




1. Select the desired air conditioning mode and set all required values (e.g., temperature).
2. If necessary, switch the roof air conditioner to standby.
 

The switch-on timer can only be set when the roof air conditioner is in **standby** mode.
3. Press the  button once.
  - ✓ The  symbol flashes on the remote control display.
4. Use the + or – button to set the time when the roof air conditioner shall be switched on.
5. Press the  button.

The switch-on timer is set. The roof air conditioner will be switched on with the selected settings at the specified time.





#### Setting the switch-to-standby timer


1. If necessary, switch the roof air conditioner on.
 

The switch-to-standby timer can only be set when the roof air conditioner is switched **on**.
2. Press the  button twice.
  - ✓ The  symbol flashes on the remote control display.
3. Use the + or – button to set the time when the roof air conditioner shall be switched to standby.
4. Press the  button.





The switch-to-standby timer is set. The roof air conditioner will be switched to standby at the specified time.

#### Setting the switch-on timer and the switch-to-standby timer

1. Select the desired air conditioning mode and all required values (for example the temperature).
2. Press the  button three times.
  - ✓ The   symbol is shown on the remote control display. The ON symbol flashes.
3. Use the + or – button to set the time when the roof air conditioner shall be switched on.
4. Press the  button.
  - ✓ The **OFF** symbol flashes.

5. Use the + or – button to set the time when the roof air conditioner shall be switched to standby.
6. Press the  button.
  - ✓ The switch-on and switch-to-standby timers are set. The roof air conditioner will be operating for the specified time period.

### Canceling the timer








- > To **cancel** preset timer, press the  button once.
- ✓ The    symbols disappear. Preset values are discarded.

## 9.4.8 Setting the sleep function

The sleep function is only available in Cooling () or Heating () modes.

The sleep function limits the fan speed to a lower level to reduce the noise levels for easier sleeping.


**Only for inverter models:** The sleep function additionally limits the compressor speed.

- > To activate the sleep function proceed as follows:
  - a) Set the required temperature (Setting the temperature on page 13).
  - b) Press the  button on the remote control or the  button on the control panel.
- ✓ The symbol  appears in the remote control display. The sleep function is activated.
- > To deactivate the sleep function, press the  or the  button on the remote control or the  button on the control panel.
- ✓ The symbol  disappears in the remote control display. The sleep function is deactivated.

## 9.4.9 Activating the I feel function

When this function is active, the remote control measures the room temperature and transmits this measurement to the roof air conditioner every 10 minutes. The roof air conditioner adapts the target value to this measurement. The I feel function is only active when the temperature range is between +18 °C and +29 °C.

The remote control should not be kept in a part of the room that is considerably warmer or colder than the average room temperature. For example, don't leave the remote control in the sun or in front of the roof air conditioner.

When the temperature rises above +29 °C or falls below +18 °C, the I feel function is deactivated. The  symbol flashes three times in the display and then turns off.

1. Press the button.
  - ✓ The I feel function is activated.

The  symbol appears in the display.

2. Position the remote control so that it points at the IR receiver on the control panel. Otherwise, the values cannot be transmitted to the roof air conditioner.

## 9.4.10 Operating the ambient lights










### WARNING! Risk of injury

By law it is forbidden to use the external lights when driving the vehicle.


The  button on the remote control is active even if the remote control is switched off.

### Only for models with ADB light:

- > To switch the internal lights on or off, press the  button on the remote control or on the control panel.
- ✓ The  symbol flashes once in the display of the remote control when the internal lights are switched **on**.

- > To dim the internal lights, proceed as follows:
  - a) Press the  button on the remote control or on the control panel for 3 s .
  - b) When pressing the  button on the remote control, press the  button to dim the internal light between 50 % and 100 % .
  - c) When pressing the  button on the control panel, the internal light's brightness cycles between 50 % and 100 % . Release the  button when the the desired brightness is reached.

**Only for inverter models:**

- > To switch the external lights on or off, press the  button on the control panel.

### 9.4.11 Replacing the remote control batteries



**NOTE** The remote control display may still be bright even if the batteries are running low. Replace the batteries when the remote control indicates low batteries.

- > Replace the batteries as shown.



- ✓ The display shows all symbols for 5 s .



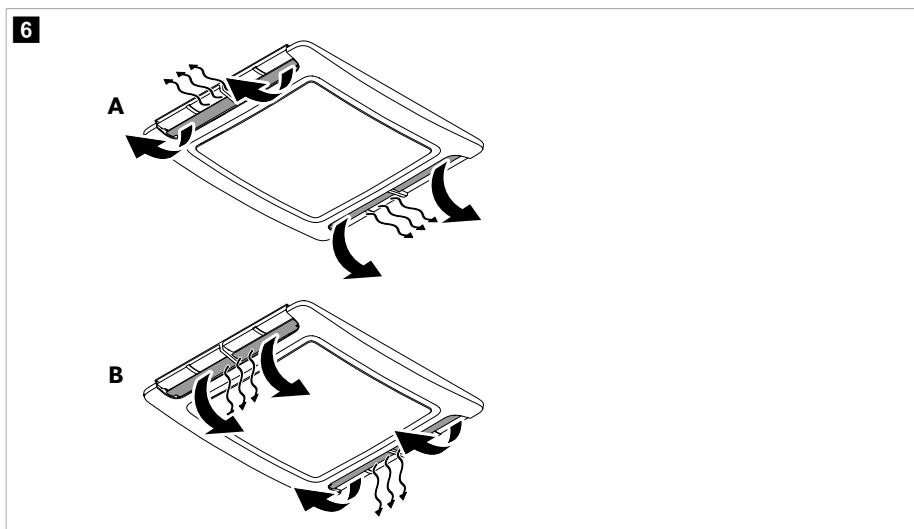
Protect the environment! Do not dispose of any batteries with general household waste. Return defective or used batteries to your retailer or dispose of them at collection points.



## 9.5 Regulating air supply within the vehicle

The air flow can be adjusted along the ceiling or towards the floor.

- > Turn the slats in the air nozzles independently in the required directions.



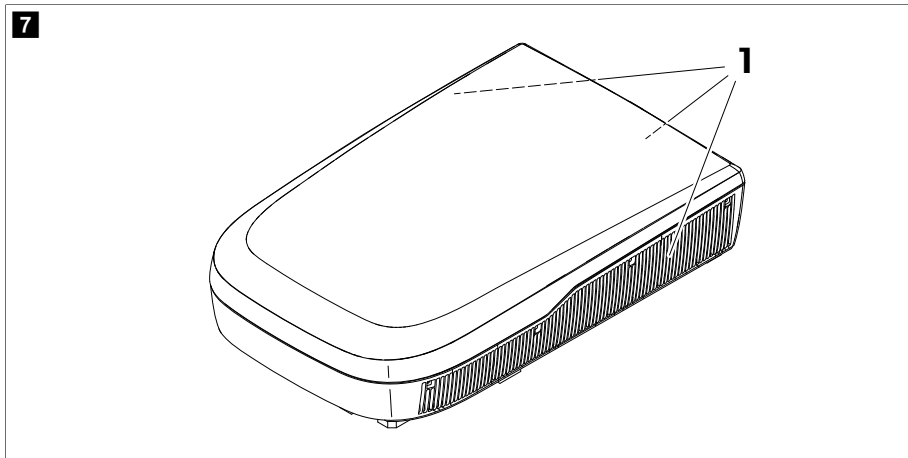
## 10 Cleaning the roof air conditioner



### NOTICE! Damage hazard

- > Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.
- > Do not clean the roof air conditioner with a high-pressure cleaner. Exposure to water can damage the roof air conditioner.
- > Do not use sharp or hard objects or cleaning agents for cleaning as these may damage the roof air conditioner.
- > Do not use petrol, diesel, or solvents.

1. Regularly remove leaves and other dirt from the air intake and the ventilation grilles of the roof air conditioner. Do not damage the ventilation grilles in the process.



2. Occasionally clean the housings of the roof top unit and the air distribution box with a damp cloth. Use only water with a gentle cleaning agent.
3. **Only for models with remote control:** Occasionally clean the remote control with a slightly damp cloth. Clean the display with a cleaning cloth for glasses.
4. **Only for models with air distribution box:** Occasionally clean the air distribution box display with a mild solution of warm soapy water. The display screen is acrylic and can be damaged by some common household chemicals such as chemical cleaners, window cleaners, alcohol, certain tensides, organic solvents, and softeners.

## 11 Maintenance



### **WARNING! Risk of injury**

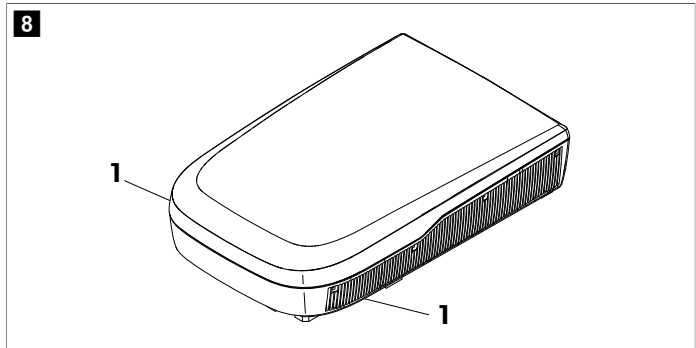
Any other maintenance work in addition to the described subjects here may only be carried out by qualified personnel who are familiar with the risks involved when handling refrigerant and air conditioning systems as well as the relevant regulations.

**Interval**

Regularly

**Inspection/maintenance**

Check whether the condensation water drainage channels (1) at the sides of the roof air conditioner are clear and the condensation water is able to escape.

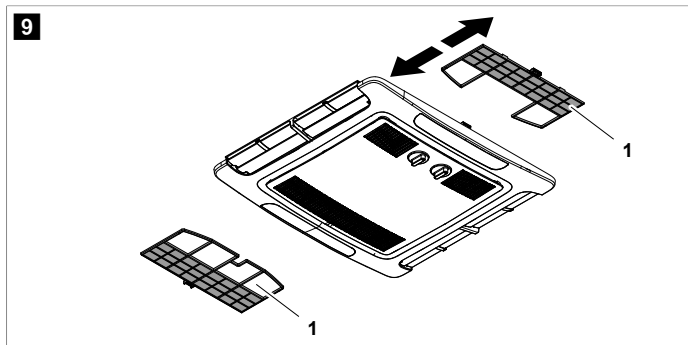






**Interval**

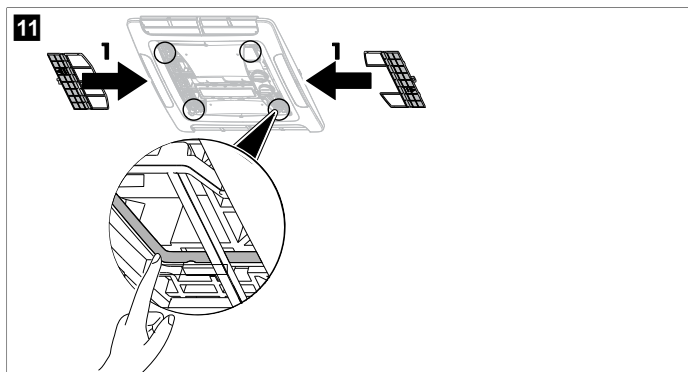
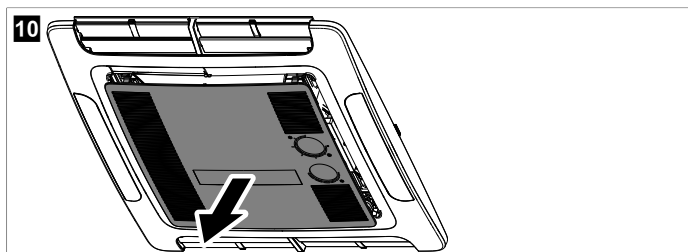
Regularly  
(only for mechanical models)

**Inspection/maintenance**

Clean the filter of the air distribution box.



1. Remove the filters (1 in  Fig. 9 on page 20).
2. Clean the filters with a detergent solution and let them dry.
3. Slide the dry filters back (  Fig. 9 on page 20). If the filter is bent, remove the ventilation grille (  Fig. 10 on page 20) and press the front of the filter upwards while sliding it back into place (  Fig. 11 on page 20).



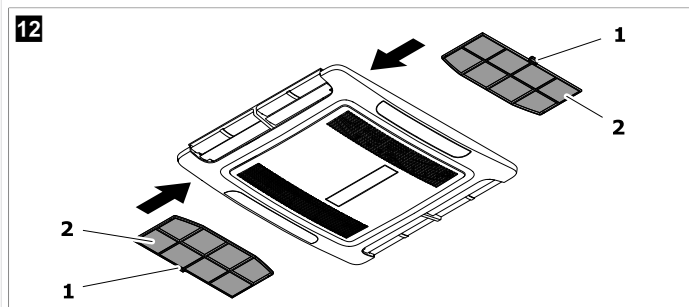
**Interval**






Regularly

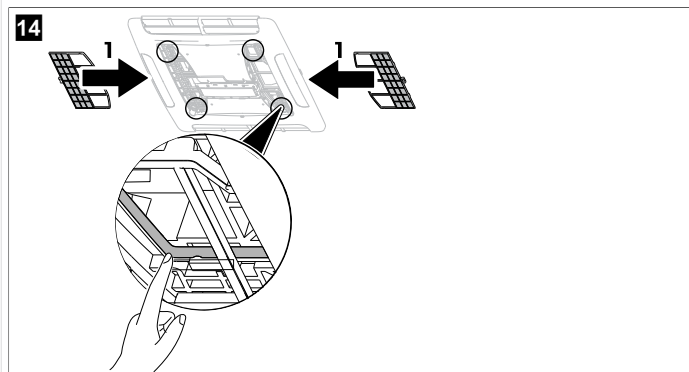
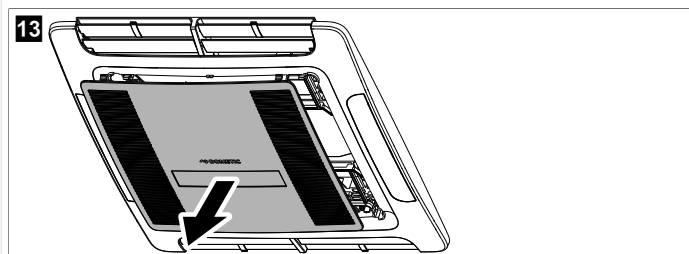
(only for fixed-speed and inverter models)

**Inspection/maintenance**

Clean the filter of the air distribution box.



1. Insert a flat screwdriver into the handle (1 in  Fig. 12 on page 21) to pull the filters (2 in  Fig. 12 on page 21) slightly out.
2. Remove the filters by hand.
3. Clean the filters with a detergent solution and let them dry.
4. Slide the dry filters back (  Fig. 12 on page 21). If the filter is bent, remove the ventilation grille (  Fig. 13 on page 21) and press the front of the filter upwards while sliding it back into place (  Fig. 14 on page 21).



Interval	Inspection/maintenance
Once per year	<ul style="list-style-type: none"> <li>• Have the heat exchanger of the roof air conditioner serviced by specialist company.</li> <li>• Check the seals between the roof air conditioner and the vehicle roof for cracks and other damage.</li> <li>• Check whether the fastening bolts are tightened to the correct torque (2.5 Nm ± 0.3 Nm) and adjust if necessary.</li> </ul>

## 12 Troubleshooting

Problem	Possible cause	Suggested remedy
Not cooling well	The roof air conditioner is not set to cooling.	Set the roof air conditioner to cooling.
	The ambient temperature is above 52°C.	The roof air conditioner is only designed for ambient temperatures of up to 52°C.
	The temperature set is higher than the room temperature.	Select a lower temperature.
	The ambient temperature is below 16°C.	The roof air conditioner is designed for cooling only at ambient temperatures above 16°C.
	One of the temperature sensors is defective.	Contact an authorized service agent or Dometic.
	The evaporator fan is damaged.	Contact an authorized service agent or Dometic.
	The condenser fan is damaged.	Contact an authorized service agent or Dometic.
<b>Only for models with heating mode:</b> Not heating well	The roof air conditioner is not set to heating.	Set the roof air conditioner to heating.
	The ambient temperature is below -2°C.	The roof air conditioner is designed for ambient temperatures above -2°C.
	The temperature set is lower than the room temperature.	Select a higher temperature.
	One of the temperature sensors is defective.	Contact an authorized service agent or Dometic.
	The evaporator fan is damaged.	Contact an authorized service agent or Dometic.
Low Air output	The air intake openings are blocked or obstructed.	Remove any leaves and other dirt from the ventilation grilles of the roof air conditioner.
	The fan is defective.	Contact an authorized service agent or Dometic.
Water enters the vehicle.	The condensation water drainage openings are clogged up.	Clean the water drainage openings from condensation water.
	The seals are damaged.	Contact an authorized service agent or Dometic.

Problem	Possible cause	Suggested remedy
The roof air conditioner does not switch on.	No power supply connected.	Check the power supply.
	The voltage is too low (< 200 V).	The power supply at the camping site is not sufficient.
	The voltage converter is defective.	Contact an authorized service agent or Dometic.
	One of the temperature sensors is defective.	Contact an authorized service agent or Dometic.
	The electrical fuse of the power supply is too low.	<ul style="list-style-type: none"> <li>&gt; The power supply at the camping site is overloaded. Check the power supply at the camping site.</li> <li>&gt; If applicable, unwind the power cable drum.</li> <li>&gt; Reduce the active electrical consumers in the vehicle.</li> <li>&gt; The electrical protection at the camping site is not sufficient. Check the electrical protection at the camping site.</li> </ul>
The roof air conditioner does not switch off.	One of the temperature sensors is defective.	Contact an authorized service agent or Dometic.
	The electrical fuse of the power supply is too low.	Contact an authorized service agent or Dometic.
<b>Only for fixed-speed and inverter models:</b> The roof air conditioner constantly switches itself off.	The icing sensor has tripped.	The outer temperature is too low or all air nozzles are closed.
The display shows: P0	Over temperature or over current on IPM module	Contact an authorized service agent or Dometic.
The display shows: P1	Under voltage protection	Check with the campsite management if the voltage at the campsite is sufficient.
The display shows: P2	Unit AC over-current protection	Contact an authorized service agent or Dometic.
The display shows: P3	Overvoltage protection	Check with the campsite management if the voltage at the campsite is sufficient.
The display shows: P4	Discharge tube overheat protection	Contact an authorized service agent or Dometic.
The display shows: P5	Evaporator coil protection (cooling mode)	Contact an authorized service agent or Dometic.
The display shows: P6	Condenser coil protection (cooling mode)	Contact an authorized service agent or Dometic.
The display shows: P7	Evaporator coil protection (heating mode)	Contact an authorized service agent or Dometic.
The display shows: P9	Compressor drive abnormal or compressor does not start	Contact an authorized service agent or Dometic.

<b>Problem</b>	<b>Possible cause</b>	<b>Suggested remedy</b>
The display shows: E0	Communication failure	Contact an authorized service agent or Dometic.
The display shows: E1	Room temperature sensor fault	Contact an authorized service agent or Dometic.
The display shows: E2	Evaporator coil temperature sensor fault	Contact an authorized service agent or Dometic.
The display shows: E3	Condenser coil temperature sensor fault	Contact an authorized service agent or Dometic.
The display shows: E7	Outdoor temperature sensor failure	Contact an authorized service agent or Dometic.
The display shows: E8	Discharge tube temperature sensor failure	Contact an authorized service agent or Dometic.
The display shows: E9	Compressor drive or IPM module fault	Check with the campsite management if the voltage at the campsite is sufficient. Contact an authorized service agent or Dometic.
The display shows: EA	Current sensor fault	Contact an authorized service agent or Dometic.
The display shows: EE	Outdoor EEPROM fault	Contact an authorized service agent or Dometic.
The display shows: EL	LIN-BUS/CI-BUS communication failure	Contact an authorized service agent or Dometic.

## 13 Disposal



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.



Protect the environment! Do not dispose of any batteries with general household waste. Return defective or used batteries to your retailer or dispose of them at collection points.

## 14 Warranty

The statutory warranty period applies. If the product is defective, please contact the manufacturer's branch in your country (see [dometic.com/dealer](http://dometic.com/dealer)) or your retailer.

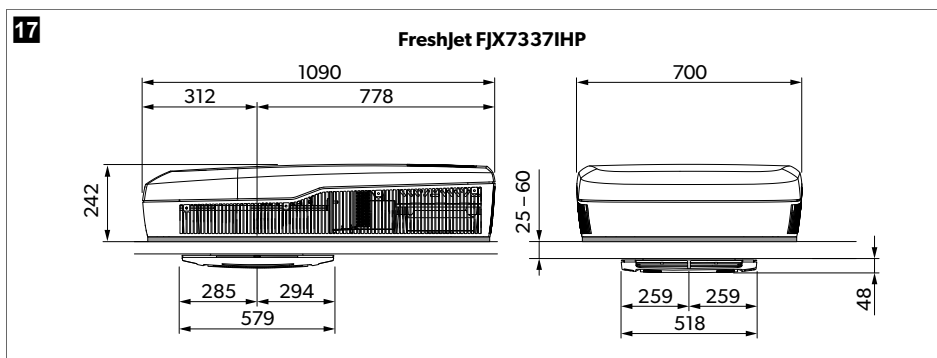
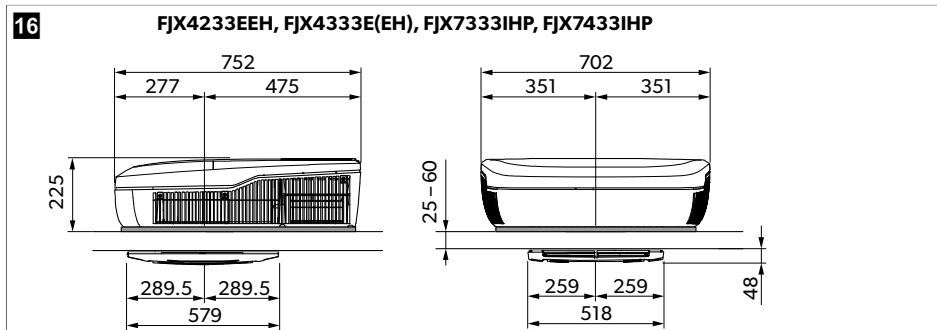
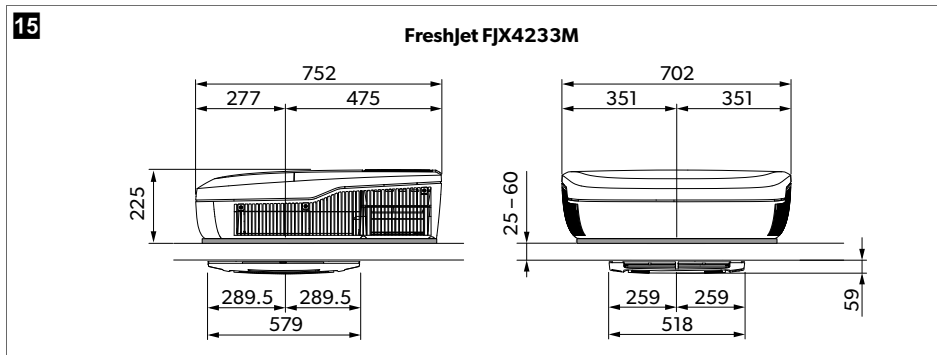
For repair and warranty processing, please include the following documents when you send in the device:

- 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.

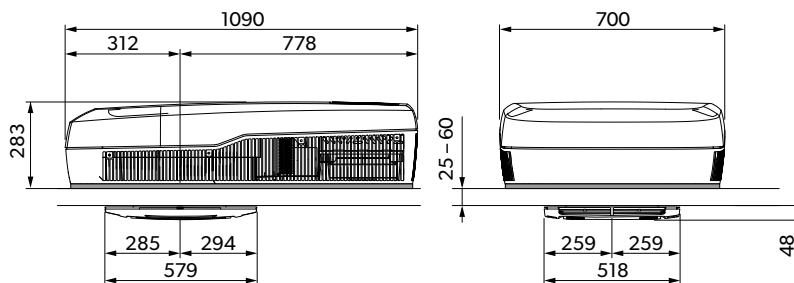


## 15 Technical data



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**FreshJet FJX7457IHP**






This product contains fluorinated greenhouse gases.

The cooling unit is hermetically sealed.




Hereby, Dometic (Zhuhai) Technology Co., Ltd. declares that the radio equipment type FJX4233M, FJX4233EEH, FJX4333EEH, FJX4333E, FJX7333IHP, FJX7433IHP, FJX7337IHP, FJX7457IHP is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: [documents.dometic.com](http://documents.dometic.com)

	<b>FreshJet FJX4233M</b>
Cooling capacity based on ISO 5151	1500 W
AC input voltage	220 V ... 240 V / 50 Hz
Rated cooling current	3.1 A
Required fuse	Min. 4 A , max. 16 A
Operating temperature range	-2°C ... 52°C
Refrigerant	R410a
Refrigerant quantity	380 g
CO <sub>2</sub> equivalent	0.793 t
Global warming potential (GWP)	2088
Protection class (roof top unit)	IPX4
Noise level (highest fan setting)	< 70 dB(A)
Frequency	2.4 GHz
Maximum radio frequency power	19.14 dBm
Suggested max. vehicle length (with insulated walls)	≤ 5 m
Dimensions L x W x H	Fig. 15 on page 25
Weight	< 30 kg

<b>FreshJet FJX4233M</b>			
Inspection/certification			
	<b>FreshJet FJX4233EEH</b>	<b>FreshJet FJX4333EEH</b>	<b>FreshJet FJX4333E</b>
Cooling capacity based on ISO 5151	1700 W	2200 W	2200 W
Heating capacity based on ISO 5151	800 W	1000 W	-
AC input voltage	220 V ... 240 V / 50 Hz		
Rated cooling current	3.4 A	4.6 A	4.6 A
Rated heating current	3.7 A	4.4 A	-
Required fuse	Min. 4 A, max. 16 A	Min. 5 A, max. 16 A	Min. 5 A, max. 16 A
Operating temperature range	-2°C ... 52°C		
Refrigerant	R32		
Refrigerant quantity	320 g	360 g	360 g
CO <sub>2</sub> equivalent	0.216 t	0.243 t	0.243 t
Global warming potential (GWP)	675		
Protection class (roof top unit)	IPX4		
Noise level (highest fan setting)	< 70 dB(A)		
Frequency	2.4 GHz		
Maximum radio frequency power	19.14 dBm		
Suggested max. vehicle length (with insulated walls)	≤ 6 m	≤ 7 m	≤ 7 m
Dimensions L x W x H	 Fig. 16 on page 25		
Weight	< 30 kg	< 30 kg	< 30 kg
Inspection/certification			

	<b>FreshJet FJX7333IHP</b>	<b>FreshJet FJX7433IHP</b>	<b>FreshJet FJX7337IHP</b>	<b>FreshJet FJX7457IHP</b>
Cooling capacity based on ISO 5151	2200 W	2537 W	3000 W	3500 W
Heating capacity based on ISO 5151	2000 W	2285 W	2500 W	3000 W
AC input voltage	220 V ... 240 V / 50 Hz ... 60 Hz			
Rated cooling current	< 5.9 A	< 6.9 A	< 7.3 A	< 7.5 A
Rated heating current	< 3.7 A	< 4.7 A	< 5.9 A	< 6.5 A
Required fuse	Min. 6 A, max. 16 A	Min. 8 A, max. 16 A	Min. 8 A, max. 16 A	Min. 8 A, max. 16 A

## EN Dometic FJX

	<b>FreshJet FJX7333IHP</b>	<b>FreshJet FJX7433IHP</b>	<b>FreshJet FJX7337IHP</b>	<b>FreshJet FJX7457IHP</b>
Operating temperature range	-2°C ... 52°C			
Refrigerant	R32			
Refrigerant quantity	400 g	420 g	480 g	650 g
CO <sub>2</sub> equivalent	0.270 t	0.284 t	0.324 t	0.439 t
Global warming potential (GWP)	675			
Protection class (roof top unit)	IPX4			
Noise level (highest fan setting)	< 70 dB(A)			
Frequency	2.4 GHz			
Maximum radio frequency power	19.14 dBm			
Suggested max. vehicle length (with insulated walls)	≤ 7 m	≤ 7 m	≤ 7 m	> 8 m
Dimensions L x W x H	 Fig. 16 on page 25		 Fig. 17 on page 25	 Fig. 18 on page 26
Weight	< 30 kg	< 35 kg	< 35 kg	< 40 kg
Inspection/certification	