# Dometic

**Rooftop Air-conditioner** 

EN



## Dometic Harrier Inverter

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## 1 Explanation of symbols



### DANGER!

**Safety instruction:** Failure to observe this instruction will cause fatal or serious injury.



### WARNING!

**Safety instruction:** Failure to observe this instruction can cause fatal or serious injury.



#### **CAUTION!**

**Safety instruction:** Failure to observe this instruction can lead to injury.



### NOTICE!

Failure to observe this instruction can cause material damage and impair the function of the product.



#### Note

Supplementary information for operating the product.

► Action: This symbol indicates that action is required on your part. The required action is described step-by-step.

✓ This symbol describes the result of an action.

**Fig. 1-5, page 3:** This refers to an element in an illustration. In this case, item 5 in figure 1 on page 3.

## 2 Safety instructions

# Please observe the prescribed safety instructions and stipulations from the vehicle manufacturer and service workshops.

The manufacturer accepts no liability for damage in the following cases:

- Faulty assembly or connection
- Damage to the product resulting from mechanical influences and excess voltage
- Alterations to the product without express permission from the manufacturer
- Use for purposes other than those described in the operating manual



### Note

This manual should be read in conjunction with the Operation Manual provided with the air-conditioner.

Note the following basic safety information when using electrical devices to protect against:

- Electric shock
- Fire hazards
- Injury

## 2.1 Handling the device



### WARNING!

Installation and repair of the roof air conditioner 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.

#### Electrical devices are not toys.

- Keep electrical devices out of reach of children or infirm persons. Do not allow them to use electrical devices without supervision.
- Persons whose physical, sensory or mental capabilities or whose lack of experience and knowledge prevent them from using the device safely should not use it without supervision or instruction by a responsible person.
- Do <u>not</u> undo the upper cover of the roof air conditioner in the event of a fire. Use approved extinguishing agents instead. Do not use water to extinguish fires.



### CAUTION!

- The roof air-conditioner must be fixed securely so that it cannot fall down.
- Only operate the roof air conditioner if you are certain that the housing and the cables are not damaged.
- Do not use the roof air conditioner near flammable fluids or in closed rooms.
- Make sure no combustible objects are stored or installed near the air outlet. A distance of at least 50 cm must be kept.
- Do not reach into air outlets or insert any foreign objects in the device.

### NOTICE!

- Only use the device as intended.
- The roof air conditioner is not suitable for use in agricultural or construction vehicles.
- Do not make any alterations or conversions to the device.
- Never drive through automatic car washes when the roof air conditioner is mounted.
- If faults occur in the refrigerant circuit, the system must be checked by a specialist company and repaired properly. The refrigerant must never be released into the air.



### Note

Please ask your vehicle manufacturer if a technical inspection is required after fitting an air conditioner and whether the height entered in the vehicle documents needs to be altered: – Harrier Series: increased height 280 mm

## 2.2 Handling electrical cables

### WARNING!

• The electrical power supply may only be connected by a qualified electrician.



### CAUTION!

- Fit a fuse of at least 10 A to the connection with the vehicle's power supply.
- Attach and lay the cables so that they cannot be tripped over or damaged.

## NOTICE!

- Use cable ducts to lay cables through walls with sharp edges.
- Do not lay loose or bent cables next to electrically conductive materials (metal).
- Do not pull on the cables.

## 3 Target group for this manual

The instructions in this manual are intended for qualified personnel at workshops who are familiar with the guidelines and safety precautions to be applied.

## 4 Scope of delivery

Item	Quantity	Description
1	1 pc	Roof air conditioner
2	1 pc	Roof frame
3	1 pc	Ceiling plate
4	1 pc	ADB cover
5	1 pc	Duct insert
6	2 pcs	Air filter
7	4 pcs	Screw hole cover
8	1 pc	Transition duct
9	3 pcs	Cable connector
10	4 pcs	Fastening bolt and washer
11	4 pcs	Fastening screw



## 5 Accessories

The following accessories are available for purchase separately.

Item No	Description
81-535-DUCT3	Thicker Roof Duct Kit

If you have questions in respect of the accessories, please contact Dometic or your local agent.

## 6 Intended use

The Dometic Harrier inverter roof air conditioner can condition the interior of campers and caravans with cool or warm dehumidified air.

The roof air conditioner is **<u>not</u>** suitable for installation in construction machines, agricultural machines or similar equipment. It will not work properly if exposed to strong vibrations.

Do **not** operate the roof air conditioner if the ambient temperature is above 52  $^{\circ}$ C.



#### Note

You can find additional information on roof air conditioners in the operating manual, such as the technical description or the controls.

## 7 Unit identification

Labels are attached to the Dometic Harrier inverter roof air conditioner.

These labels provide the user and fitter with information on specifications of the device.

A label is applied to the side of the electrical box inside the rooftop unit and can be read through the side ventilation grille. This label provides details on the rooftop unit.

Another label is located on the inside of the ADB cover giving details of the ADB.

## 7.1 Rooftop unit

Data label is located on the side of the electrical box under the top cover. It is visible through the side vent if the unit.



1 John Duncan Court Varsity Lakes QLD 4227 Australia MOD. CK36H401RI	Dometi SER.No 61827582	C PNC. 936001699 SKU. 9105306216	
Voltage: 220-240V 50Hz Fuse: 154	Refriger nt: R410A Charge Mount:780g Max Pres(High): 4.2MPa Max Pres(Low): 1.1MPa Production Ince	Weight: 45Kg IP Rating: IP55 Cooling Capacity: 3124W Heating Capacity: 2827W	
Model Number Serial Number			

## 7.2 Air distribution box

Another label is located on the inside of the ADB cover giving details of the ADB.



## 8 Installation



### **CAUTION!** Beware of injury

The roof air conditioner may only be installed by qualified personnel. The following information is intended for technicians who are familiar with the guidelines and safety precautions to be applied.

## 8.1 Note on installation

Read this installation manual completely before installing the roof air conditioner.

The following tips and instructions must be observed while installing the roof air conditioner:



#### **DANGER!** Danger of electrocution

Disconnect all power supplies when working on the roof air conditioner.



#### CAUTION! Beware of injury

- Improper installation of the roof air conditioner can result in irreparable damage to the device and put the safety of the user at risk.
- The manufacturer assumes no liability for malfunctions and for the safety of the roof air conditioner, especially for injury and/or damage to property, if the roof air conditioner is not fitted in accordance with these installation instructions.
- Always wear the recommended protective clothing (e.g. protective goggles, gloves).



#### NOTICE! Beware of damage

- Observe the structural engineering of the vehicle and seal of all openings made when installing the roof air conditioner.
- Check whether the roof of the vehicle is able to support the weight of a person before climbing onto it. Ask the vehicle manufacturer about the permissible roof loads.

### Note on transport

- Always have someone help you carry the roof air conditioner.
- Always lift the roof air conditioner to move it and never drag it over the roof.
- Do not use the rear or side ventilation slots to lift it.



#### Note on installation location

- Before installing the roof air conditioner, check whether any vehicle components could be damaged by the installation of the roof air conditioner (such as lamps, cupboards, doors).
- Before installation, find out (by consulting the manufacturer of the vehicle) whether the construction is designed for the static weight and the loads of the air conditioner when the vehicle is in motion. The manufacturer of the roof air conditioner assumes no liability whatsoever.
- The vehicle manufacturer may have already provided points where the opening for the installation of the roof air conditioner can be made without any risk of weakening the construction or cutting power cables. If not, fitment of a roof H-frame may be required. These are available separately.
- Select a flat and sufficiently level area at the centre of the vehicle roof between two longitudinal sections for installation.
- The roof inclination of the installation surface may not exceed 10°.
- Make sure no combustible objects are stored or installed near the air outlet. A distance of at least 50 cm should be kept.
- Make sure that there are no objects within the vehicle which could obstruct the attachment of the air outlet unit or the cooled air from flowing through the swivelling air distribution nozzles.
- For safety reasons, note the location of existing wiring harnesses, wires and other components within the installation area, in particular those which are not visible, when installing the roof air conditioner (when drilling or screwing etc.).

#### Note on electrical system

- Only a qualified electrician should connect the roof air conditioner to the electrical power.
- Check that the voltage specification on the type plate is the same as that of the power supply.
- Do not lay cables which are loose or bent next to electrically conductive material (metal).
- Install an all-pole switch with a contact opening width of at least 3 mm on the installation side.

There are two ways of installing the roof air conditioner:

- Making a new opening. In this case the opening must be reinforced by an appropriate frame.
- Using the existing roof hatch openings (ventilation hatch) in the vehicle.

## 8.2 Making a new opening

- Select an area at the centre on the roof between two longitudinal supports.
- ► Mark the position and size of the opening required either of:
  - 400mm × 400mm or
  - o 360mm × 360mm.





- Drill out the corners.
- Carefully cut out the opening on the roof using a keyhole saw or a similar tool. Make sure no electrical power cables are damaged.
- Before installation, check whether the roof hole needs reinforcing.
- Frame the opening with appropriate sized wood or steel members to prevent collapsing when clamping the air conditioner.
- ► If needed, fit a suitable H-frame to provide re-enforcement to the roof.

### 8.3 Installing in an existing opening

#### Note

- Existing roof openings of 400mm×400mm or 360mm×360mm are suitable for installing the roof air conditioner.
- Dispose of all waste material, glue, silicone and seals separately. Observe the disposal guidelines.
- The manufacturer only assumes liability for parts included in the scope of delivery. The validity of the warranty expires if the device is installed together with third-party parts.
- Remove all screws and fixtures of the existing roof hatch or an old air conditioner.
- Take out the roof hatch or old air conditioner.
- Remove any sealant around the opening using a scraper or similar tool.

Seal any screw holes and recesses with a <u>flexible non-hardening</u> <u>butyl sealing compound</u> (e.g. SikaLastomer-710, Selleys Butyl Mastic, Bostik ezycaulk butyl sealant or similar).

## 8.4 Running the electrical cables



#### **DANGER!** Danger of electrocution

Make sure there is no voltage at electrically operated components before carrying out work on them!

The roof air conditioner must be connected to an electric circuit which is able to supply the required current (see chapter "Technical data" on page 19).

- Select the cross-section of the cable corresponding to the length:
  - Length < 7.5 m: 1.5 mm<sup>2</sup>
  - Length > 7.5 m: 2.5 mm<sup>2</sup>
- Make an opening on one side in order to feed through the electrical power supply cable.
- ► Feed the 240 V AC cable through the opening into the vehicle interior.





Note

Allow enough length to connect the 240V AC cables to the air conditioner without causing strain to the cables or connections.

## 8.5 Installing the roof air conditioner ADB

#### NOTICE! Risk of damage

Observe the structural strength of the roof of the vehicle. The roof of the vehicle must be able to bear the weight of the roof air conditioner. The roof must not be indented or deformed by the weight of the unit, even over a longer period of time.

► Fit the roof frame (2) onto the roof of the vehicle over the opening.





#### Note

Ensure the roof frame is oriented correctly based on opening size otherwise this will cause problems with installation later (refer to markings on the plate).



- Seal around the perimeter with <u>flexible non-hardening butyl sealing</u> <u>compound</u> such as:
  - SikaLastomer-710
  - Selleys Butyl Mastic
  - Bostik ezycaulk butyl sealant
  - or similar products.
- Position the duct insert into the roof frame from the top (outside of the RV).



► Lift the roof air conditioner onto the roof of the vehicle.

Position the roof air conditioner over the installation opening. There are markings on the roof plate to assist in locating the roof air conditioner correctly. The base of the roof air conditioner should locate in the ribs of the roof plate.



### Note

Do not use sealant between the roof plate and the rooftop unit. It will make later servicing difficult and is not required for weather sealing.

### 8.6 Making the mains electrical connection



#### **DANGER!** Danger of electrocution

Make sure there is no voltage at electrically operated components before carrying out work on them! All electrical connections must be made by suitably qualified person in accordance with local regulations.

Locate the 240V AC wiring and the communication cable which are tucked up in the return air opening of the rooftop unit and gently pull them down into the RV.  Make the 240V AC connections using either the wiring quick connectors provided or a suitable electrical junction box or terminals.





#### NOTICE! Risk of damage

Ensure any excess electrical cables are secured where it cannot interfere with or be damaged during the remaining installation or from rubbing/vibration following installation.

 Leave the communication cable free to be connected to the ADB transfer board later in the installation process.

## 8.7 Completing the installation

► Choose the suitable duct seal in accordance with the following table:

Roof thickness	Seal type
30 – 60 mm	transition duct (included with ADB)
60 – 105 mm	thicker roof kit (purchased separately – refer to section 5)



#### Note

For the thicker roof seal refer to the instructions included with the seal kit.





Ensure the transition duct or seal is located correctly over the duct insert, otherwise the performance of the unit may be affected.

 Locate the communication cable and feed the black plug end through the opening in the ceiling plate of the ADB.



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- Raise the ceiling plate into position and clip the transition duct into place using the 2 finger holds on the transition duct to ensure full engagement.
- When clipped correctly the ADB ceiling plate will be held up while the clamping bolts are inserted.



4 bolts are used to clamp the rooftop unit and ceiling plate into place. 3 are positioned in the corners, while the 4<sup>th</sup> is slightly inbound.



Use the supplied washers with the bolts.



► Tighten the bolts using a torque spanner to a torque of **4.0 Nm**.



ΕN

#### NOTICE! Risk of damage

- Tighten to the specified torque.
- Ensure all 4 bolts are tightened by the same amount. Uneven tightening can cause distortion of the roof air conditioner and result in possible damage.

### 8.8 Connecting communication cables

- ► Connect to the transfer PCB on the ADB ceiling plate:
  - o the black 4-pin connector from the rooftop unit
  - o the white 13-pin connector from the ADB cover



## 8.9 Installing the ADB cover

- Place the ADB cover over the ceiling plate by clipping the front edge under the clips near the outlet vent, then doing the same on the other side.
- Be aware of the orientation of the cover as the display should align with the recessed area of the ceiling plate.
- If the outlet vent doors have rotated during assembly they can be returned to the home position by gently pushing the bottom edge by hand – this will <u>not</u> damage the oscillation motors.



- ► Fix the ADB cover using the 4 screws provided.
- Install the screw covers over the opening.
- ► Insert the 2 air filter elements.



Enter the new vehicle height and weight in the vehicle documents (if required).

## 9 Troubleshooting

Problem	Cause	Remedy
Air conditioner constantly switches itself off.	Icing sensor has tripped.	Outer temperature is too low or all air nozzles are closed.
Not cooling well	The roof air conditioner is not set to cooling.	<ul> <li>Set the roof air conditioner to cooling.</li> </ul>
	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.	<ul> <li>Select a lower temperature.</li> </ul>
	The ambient temperature is below 16 °C.	The roof air conditioner is only designed for ambient temperatures above 16 °C.
	One of the temperature sensors is defective.	<ul> <li>Contact an authorised service agent or Dometic.</li> </ul>
	The evaporator fan is damaged.	_
	The condenser fan is damaged.	_
Not heating well	The roof air conditioner is not set to heating.	<ul> <li>Set the roof air conditioner to heating.</li> </ul>
	The ambient temperature is below –2 °C.	The roof air conditioner is only designed for ambient temperatures of over –2 °C.
	The temperature set is lower than the room temperature.	<ul> <li>Select a higher temperature.</li> </ul>
	One of the temperature sensors is defective.	<ul> <li>Contact an authorised service agent or Dometic.</li> </ul>
	The evaporator fan is damaged.	_
	The condenser fan is damaged.	_
Low air output	The air intake grilles are blocked or obstructed.	<ul> <li>Remove any leaves and other dirt from the ventilation grilles of the roof air conditioner.</li> </ul>
	The blower is defective.	<ul> <li>Contact an authorised service agent or Dometic.</li> </ul>

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Problem	Cause	Remedy
Water enters the vehicle	The condensation water drainage openings are clogged up.	<ul> <li>Clean the drainage openings for condensation water.</li> </ul>
	The seals are damaged.	<ul> <li>Contact an authorised service agent or Dometic.</li> </ul>
Roof air conditioner does not switch on.	No supply voltage (240V AC) connected.	<ul> <li>Check the power supply.</li> </ul>
	The voltage is too low (under 200V AC). The voltage converter is defective.	<ul> <li>Contact an authorised service agent or Dometic.</li> </ul>
	One of the temperature sensors is defective.	-
	The electrical fuse of the power supply is too low.	<ul> <li>Check the electrical fuse of the power supply.</li> </ul>
Roof air conditioner does not switch off.	One of the temperature sensors is defective.	<ul> <li>Contact an authorised service agent or Dometic.</li> </ul>
	The electrical fuse of the power supply is too low.	<ul> <li>Check the electrical fuse of the power supply.</li> </ul>
Remote control does not register	The remote control is not pointing towards the ADB display.	<ul> <li>Point the remote control towards the ADB display.</li> </ul>
	The batteries in the remote control are low. Note: The display of the remote control will still be bright even if the batteries are low.	<ul> <li>Replace the batteries in the remote control.</li> </ul>

## 10 Disposal

### Regulations for environmental safety and correct disposal

All organisations must apply a set of procedures to identify, evaluate and control the influence that their activities (manufacturing, products, services, etc.) have on the environment.

The procedures to be followed to identify significant environmental impact must take the following factors into account:

- use of raw materials and natural resources
- atmospheric emissions
- discharge of liquids
- waste management and recycling
- contamination of the soil

In order to minimise environmental impact, the manufacturer provides a series of indications here below that should be taken into account by all those who, for whatever reason, interact with the appliance during its working life.

- All packing components must be disposed of (preferably recycled) in compliance with statutory legislation in the country in which disposal takes place.
- All product components must be disposed of (preferably recycled) in compliance with statutory legislation in the country in which disposal takes place.
- For correct disposal, the appliance must be consigned to an authorised waste disposal company to ensure that all recyclable components are reused and the remaining materials are processed properly.
- During installation ensure the room has adequate ventilation to prevent the build-up of stale air that might be harmful to the health of the operators.
- During operation and maintenance ensure that any waste pollutant products (oil, grease, etc.) are disposed of correctly.
- Keep noise levels down to reduce noise pollution.

For more information on correct dismantling of our products please refer to the recycling handbooks at www.dometic.com.

 Place the packaging material in the appropriate recycling waste bins wherever possible. When in operation or undergoing repairs and maintenance work, make sure that the refrigerant circuit is not damaged and refrigerant cannot escape. It acts as a greenhouse gas and should not be allowed into the environment.

Any person who handles or works on equipment containing refrigerant in Australia must have an appropriate refrigerant handling license.

This includes:

- decanting the refrigerant
- manufacturing, installing, commissioning, servicing or maintaining equipment regardless of whether it is charged with refrigerant or not
- decommissioning or disposing of equipment where refrigerant is present

Discharge of refrigerant into the atmosphere is against the law. Severe penalties apply.



If you wish to finally dispose of the product, ask your local recycling centre or specialist dealer for details about how to do this in accordance with the applicable disposal regulations.

 Dispose of the product at an official waste disposal facility in accordance with the applicable recycling or disposal guidelines.



#### 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.

## 11 Technical data

	Dometic Harrier Inverter
Item no.:	Rooftop: CK36H401RI ADB: CA02HR11
Compressor rated capacity:	3675 W
Cooling capacity based on ISO 5151:	3124 W
Heating capacity based on ISO 5151:	2827 W
Rated input voltage:	230V AC / 50 Hz
Current consumption in cooling mode:	6.5 A
Current consumption in heating mode:	5.2 A
Operating temperature range:	−2 °C to +52 °C
Refrigerant:	R-410a
Blower:	3 blower levels 1 Automatic mode
Suggested max. vehicle length (with insulated walls):	≥ 7.5 m
Dimensions L x W x H (mm): (height above vehicle roof)	1070 x 750 x 280 mm
Weight: approx.	45 kg
Inspection/certification:	

## 11.1 Main PCB Schematic



## 11.2 Display and transfer PCB schematic



## 11.3 Key dimensions



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