



AC AND VENTILATION

ROOF AIR CONDITIONERS



Penguin II (640310C), FreshJet 5 (FJX5357MHE)

EN

Rooftop Air Conditioner (Air Distribution Box, Mechanical Controls)

Installation and Operating Manual..... 3

FR

Climatiseur de toit (caisson de distribution d'air, commandes mécaniques)

Instructions de montage et de service.....15

ES

Aire acondicionado de techo (caja de distribución de aire, controles mecánicos)

Instrucciones de montaje y de uso..... 28

WARNING

Handling passenger or off-highway motor vehicle parts can expose you to chemicals such as phthalates and lead, which can cause cancer and reproductive harm. To minimize exposure, service the vehicle in a well-ventilated area, wear gloves, and wash your hands. For more information see www.P65Warnings.ca.gov/motor-vehicle-parts.

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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.

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.



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



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

- > Use only Dometic replacement parts and components that are specifically approved for use with the product.
- > Avoid improper installation, adjustment, alterations, service, or maintenance of the product. Installation, service, and maintenance must be done by a qualified service person only.
- > Do not modify this product in any way. Modification can be extremely hazardous.
- > Use care when diagnosing and/or adjusting components on a powered product.
- > All maintenance, service, and repair operations must be carried out **only** by qualified personnel. This includes tasks such as breaking into the refrigerant circuit, opening sealed components, or working on ventilated enclosures. Personnel must hold a valid industry-accredited certification confirming competence in handling refrigerants safely and must be familiar with the associated risks and relevant regulations. Maintenance should follow the manufacturer's recommendations, and any work involving flammable refrigerants must be supervised by a competent person. For

repair service, contact the authorized service center in your country (see dometic.com/dealer).

- > Always disconnect the power supply when working on the appliance.
- > Do not pierce or burn the appliance.
- > 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 19.69 in. must be kept.
- > Keep the ventilation openings clear of obstruction.
- > As the roof air conditioner uses a flammable refrigerant (R32), ducts connected to the air distribution box (ADB) shall not contain a potential ignition source.
- > 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.
- > As the roof air conditioner uses a flammable refrigerant (R32), the roof air conditioner shall be installed in a vehicle with a floor area larger than 43.1 ft² (4 m²).
- > The appliance shall be installed in accordance with national electrical and mechanical installation regulations.
- > **Electrical appliances are not toys.** Keep electrical appliances out of reach of children or infirm persons. Do not allow them to use electrical appliances without supervision.
- > Persons whose physical, sensory or mental capabilities or whose lack of experience and knowledge prevent them from using the appliance safely should not use it without supervision or instruction by a responsible person.
- > 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.
- > The appliance shall be stored in a room without continuously operating open flames (for example an operating gas appliance) and ignition sources (for example an operating electric heater).
- > The appliance shall be stored horizontally at a dry, ventilated and covered location.
- > Be aware that refrigerants may not contain an odor.
- > Ensure that there are no objects within the vehicle which could obstruct the attachment of the air distribution box or the cooled air from flowing through the swiveling air distribution louvers.



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

- > Only operate the appliance if you are certain that the housing and the cables are not damaged.
- > Do not reach into air outlets or insert any foreign objects in the appliance.
- > Always wear protective goggles and gloves.



NOTICE! Damage hazard

- > The appliance shall be stored so as to prevent mechanical damage from occurring.
- > Before installation, check whether any vehicle components could be damaged by the installation of the appliance (such as lamps, cupboards, doors). The vehicle manufacturer may have already provided points where the opening for the installation of the appliance can be made without any risk of weakening the construction or cutting power cables.
- > Before installation, consult the vehicle manufacturer whether the construction is designed for the static weight and the loads of the roof air conditioner when the vehicle is in motion.
- > Select a flat and sufficiently level area at the center of the vehicle roof between two longitudinal sections for installation.
- > Do not make any alterations or conversions to the appliance.
- > Never drive through automatic car washes when the appliance is mounted.
- > The refrigerant must not be released into the air.
- > Ask the vehicle manufacturer if the height entered in your vehicle documents needs to be altered due to the installation of the roof air conditioner.
- > Do not use means to speed up the defrosting process or to clean, other than those recommended by the manufacturer.

- > 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 Supplemental Directives

To reduce the risk of accidents and injuries, observe the following directives before proceeding to install or operate this appliance:

- Read and follow all safety information and instructions.
- Read and understand these instructions before installing, operating, or performing maintenance on this product.

The installation must comply with all applicable local or national codes, including the latest edition of the following standards:

U.S.A. Standards

- ANSI/NFPA70, National Electrical Code (NEC)
- ANSI/NFPA1192, Recreational Vehicles Code

Canada Standards

- CSA C22.1 Parts I and II, Canadian Electrical Code
- CSA Z240 RV Series, Recreational Vehicles

5 Explanations of symbols on the device



A2L

Warning! Low burning velocity material.



USA/Canada only. Warning! Risk of fire / Flammable materials



Read operating manual.



Read service manual.

6 Intended use

The roof air conditioner (Air Distribution Box (ADB), mechanical controls), also referred to as the "product" or "unit," is intended for installation on the roof of a recreational vehicle hereinafter referred to as "RV," during or after the time it is manufactured to provide cooling and heating.

The product consists of two main components:

- Rooftop unit
- Internal ADB

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.

7 Target group



The mechanical installation must be executed by a qualified person who is familiar with the construction and operation of the equipment and the hazards involved.

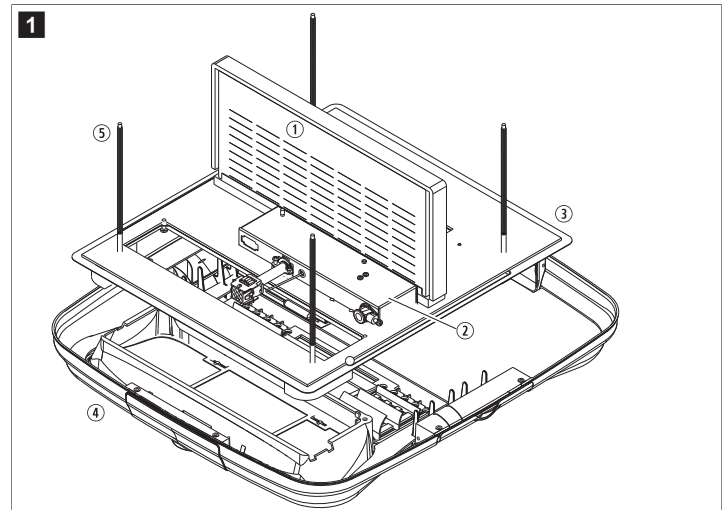


The electrical installation and setup of the device must be performed by qualified personnel who has demonstrated skill and knowledge related to the construction and operation of electrical equipment and installations, and who is familiar with the applicable regulations of the country in which the equipment is to be installed and/or used, and has received safety training to identify and avoid the hazards involved.

All other actions are intended also for non-professional users.

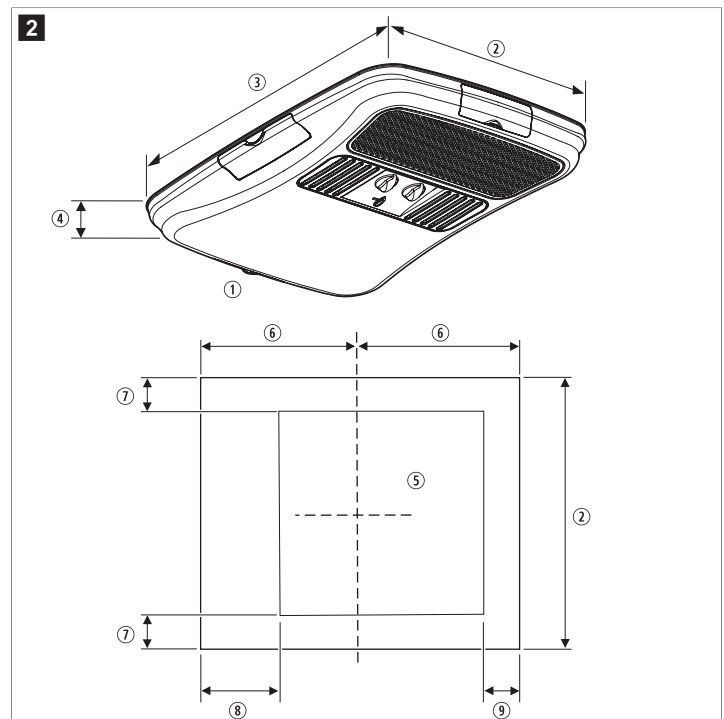
8 Technical description

8.1 ADB components



- | | |
|--------------------|--------------|
| ① Duct divider | ④ ADB cover |
| ② Control box | ⑤ Long bolts |
| ③ Ceiling template | |

8.2 Internal ADB dimensions



① Front of unit

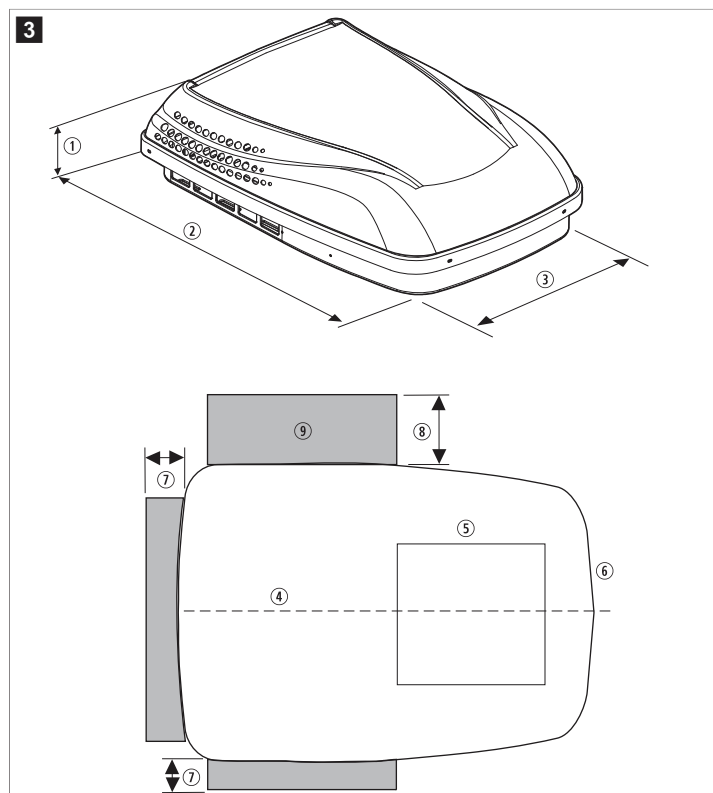
⑥ 11.6 in

- | | |
|----------------|----------|
| ② 21.1 in | ⑦ 3.4 in |
| ③ 23.1 in | ⑧ 6 in |
| ④ 2.6 in | ⑨ 2.9 in |
| ⑤ Roof opening | |

8.3 External dimensions of rooftop unit

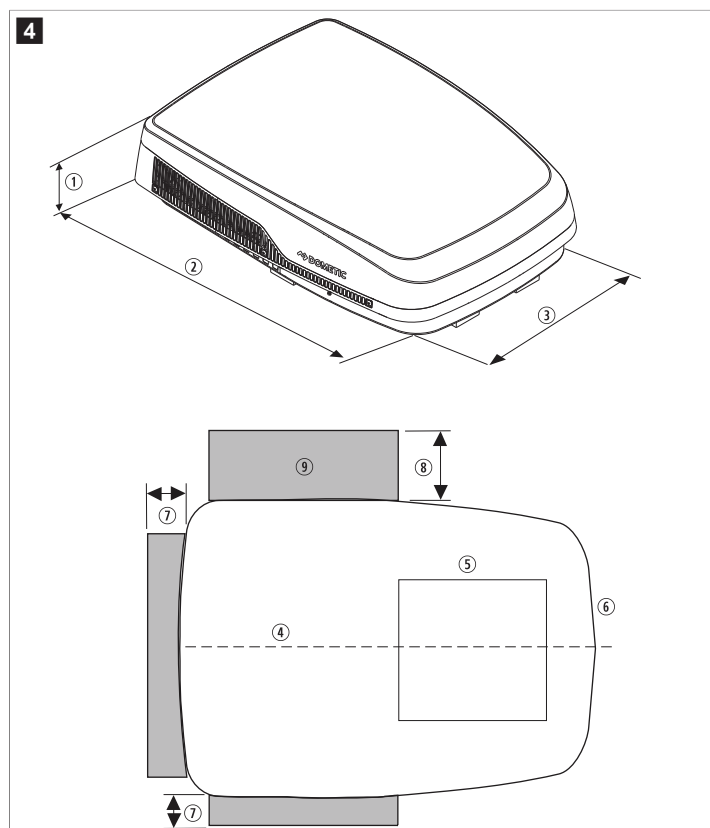
This section provides the external dimensions and clearance measurements of the rooftop unit.

8.3.1 Penguin II



- | | |
|-----------------------|------------------------------------|
| ① 10.4 in | ⑥ Front of unit |
| ② 40.5 in | ⑦ 4 in |
| ③ 29 in | ⑧ 12 in |
| ④ Center line of unit | ⑨ Air flow clearance area (shaded) |
| ⑤ Roof opening | |

8.3.2 FreshJet 5



- | | |
|-----------------------|------------------------------------|
| ① 11.1 in | ⑥ Front of the unit |
| ② 40.4 in | ⑦ 4 in |
| ③ 29.2 in | ⑧ 12 in |
| ④ Center line of unit | ⑨ Air flow clearance area (shaded) |
| ⑤ Roof opening | |

9 Installation



WARNING! Fire or electrical shock hazard

- > Shut off the gas supply, disconnect the 115 V ~ power from the RV, and disconnect the positive (+) 12 V DC terminal from the house battery before drilling or cutting into the RV.
- > Make sure there are no obstacles such as wires or pipes inside the RV's roof.
- > Provide grounding in compliance with all applicable electrical codes.



CAUTION! Lifting hazard

- > Use proper lifting technique and control when lifting the rooftop component. Two people are required to lift the rooftop unit to the roof.



NOTICE! Potential damage to rooftop unit and/or RV

- > Never create a low spot on the RV roof.
- > Maintain the structural integrity of the RV roof. It must support at least 130 lb while in motion. A 200 lb static load rating is typically sufficient.
- > Read this entire section before beginning the installation.

9.1 Installation location

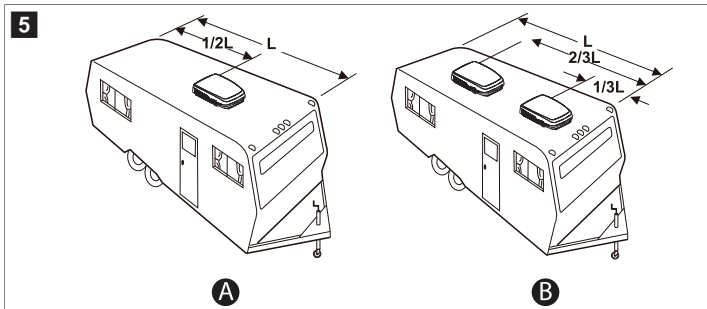
The rooftop unit is specifically designed for installation on the roof of an RV. To determine where to place the rooftop unit, consider the following items:

- A 14.3 in $\times$ 14.3 in square opening [$\pm$ 0.1 in] is required. This "roof opening" is part of the return air system and must be finished per NFPA 1192.

- Rafter/joist support frames must be spaced no greater than 16 in on center. The rooftop unit is designed to fit over an existing roof vent opening.
- The distance between the roof and the RV ceiling must be between 1.5 in to 6 in .
- When no roof vent is available or when installing in a new location, an opening must be cut through the roof and ceiling of the RV. This location must lie between roof reinforcing members.

Consider these recommendations along with your cooling needs:

- **Single rooftop unit:** Mount slightly forward of the RV's midpoint (front to back), centered side to side.
- **Two rooftop units:** Mount the first at 1/3 and the second at 2/3 of the RV's length, both centered side to side.



9.1.1 Tilt requirements

When measuring for placement, the following tilt requirements must be considered:

- All measurements must be made while the RV is parked on a level surface.
- The rooftop unit should be installed on a flat and level roof section.
- Use the tilt allowance table to determine the maximum acceptable roof tilt.

The following table lists the maximum allowable tilt angles for supported models:

Model Number	Maximum Tilt (all directions)
640310C, FJX5357MHE	8 °

9.1.2 Tools and materials required

Dometic recommends to use the following tools and materials:

- Framing wood
- All-weather caulk
- Knife / box cutter
- Screwdrivers
- Electrical connectors
- 3/8 in torque wrench socket
- Basic electrical connection tools
- Torque wrench

9.2 Determining your cooling needs

The roof air conditioner is designed to be installed on the roof of an RV. When determining cooling needs, consider the following factors:

- The size of the RV.
- The RV window area (which could increase heat gain).
- The amount of insulation in the walls and the roof.
- The geographical location where the RV will be used.
- The personal comfort level required.

9.3 Preparing the RV roof opening



NOTICE! Improper framing or air leakage risk

- > The roof opening must be structurally framed to provide adequate support and to prevent air from being drawn from the roof cavity.
- > Use framing stock with a thickness of at least 0.8 in .
- > Provide an entrance hole for power supplies at the front of the opening.



WARNING! Fire or electrical shock hazard

- > Shut off the gas supply, disconnect the power from the RV, and disconnect the terminal from the house battery before drilling or cutting into the RV.
- > Make sure there are no obstacles such as wires or pipes inside the RV's roof.
- > Provide grounding in compliance with all applicable electrical codes.



CAUTION! Device damage

- > Maintain the structural integrity of the RV roof and never create a low spot on the RV roof.
- > Otherwise the accumulated water will leak into the interior and damage the roof air conditioner and the vehicle.

9.3.1 Using an existing roof vent opening



NOTE If the roof does not have an existing roof vent, skip to Making a new roof opening on page 6.

1. Unscrew and remove the roof vent.
2. Remove the caulking compound around the opening.
3. Seal the screw holes and seams where the roof gasket will be located. Use a good grade of all-weather sealant.
4. Measure the roof opening (see Installation location on page 5).
 - If the roof opening is within specifications, skip to Routing the wiring on page 6.
 - If the opening needs to be resized, proceed to on page :
 - If the opening exceeds 14.4 in × 14.4 in , reduce the size of the opening.
 - If the opening is less than 14.1 in × 14.1 in , enlarge the opening.

9.3.2 Making a new roof opening



NOTE If the roof has an existing roof vent, see Using an existing roof vent opening on page 6.

1. Carefully mark the required roof opening (See Installation location on page 5).
2. Make sure the new opening does not compromise the roof's structural integrity.
 - Do not cut the roof structure or the rafters.
 - The rafters should remain supported by a cross beam.
 - The opening should be between the rafters.
3. Carefully cut the required roof opening.
4. Frame the opening so it will not collapse when bolting the rooftop unit down.
5. At the front of the frame opening, leave or create an access hole to allow for the length of exposed 115 V ~ power supply wiring required to complete the installation.
6. Cut the matching hole in the ceiling using the roof opening as a guide.

9.4 Routing the wiring

The power must be connected to a properly-sized, separate time delay fuse or circuit breaker. For full electrical requirements, see Technical data on page 13.

This section describes how to route the 115 V ~ power wiring for the rooftop unit.

1. Position a copper 115 V ~ supply wire, with ground, in the front part of the roof opening.
2. Route the supply wire from the time delay fuse or circuit breaker box to the roof opening.

Use a listed or certified non-metallic sheathed single-strand cable (See Technical data on page 13).

If an AC or vent fan was removed, the existing power wire may be reused only if it meets all of the following:

- Proper type
- Correct gauge
- Properly located and fused

3. Ensure that at least 15 in of supply wire extends into the roof opening. This allows for an easy connection at the junction box.

4. Protect the 115 V ~ power supply wire where it passes into the roof opening.
Follow local and national electrical standards when securing and protecting the wiring.

9.5 Positioning the rooftop unit



NOTICE! Gasket damage and water leakage risk

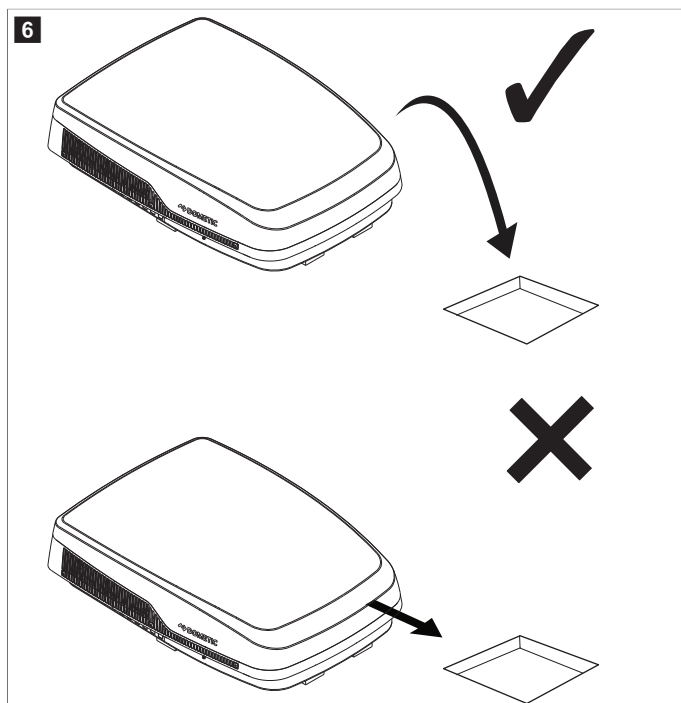
- > Do not slide the rooftop unit along a surface. Otherwise, damage to the gasket on the bottom of the rooftop unit could occur and cause a leak.



CAUTION! Lifting hazard

- > Use proper lifting techniques and maintain control when lifting the rooftop unit.
- > Two people are required to lift the rooftop unit to the roof.

1. Remove all the contents from the carton and discard the carton.
2. Place all ADB kit contents inside the RV.
The ADB kit contains mounting hardware for the components that will be installed inside the RV.
3. Move the rooftop unit to the roof of the RV.



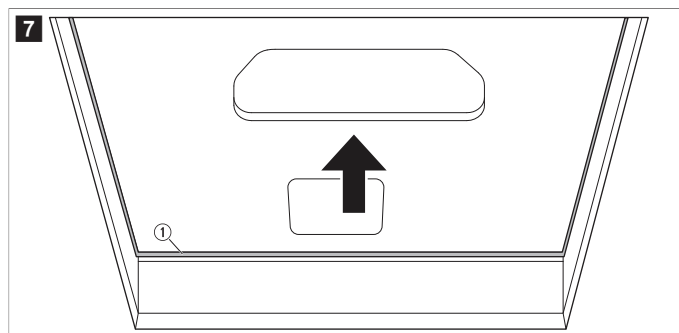
4. Lift and place the rooftop unit over the prepared roof opening using the gasket on the rooftop unit as a guide.



NOTE The exterior rooftop work is now complete. Minor adjustments can be made from inside the RV if required.

9.6 Preparing to work inside the RV

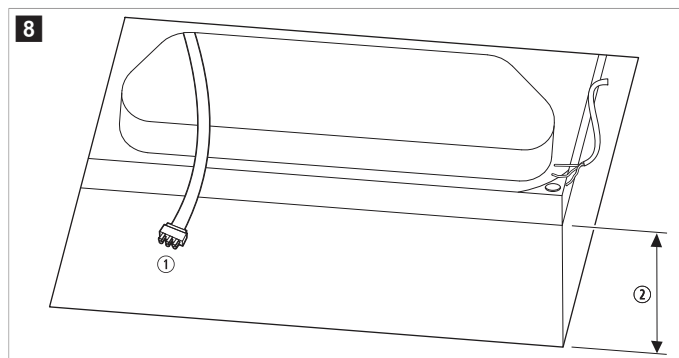
1. Carry the ADB kit into the RV.
The ADB box contains all required mounting hardware for interior installation.



① Roof gasket

2. From inside the RV, check the gasket alignment of the rooftop unit over the roof opening.

If necessary, adjust the rooftop unit from below by slightly pushing upward.



① Electrical cord

② Ceiling thickness

3. Reach up into the return air opening of the rooftop unit and pull down the rooftop unit's electrical cord for later connection.

4. Remove the ADB and the mounting hardware from the carton.

For a full list of parts, see *Model identification* on page 13.

9.7 Installing the duct divider

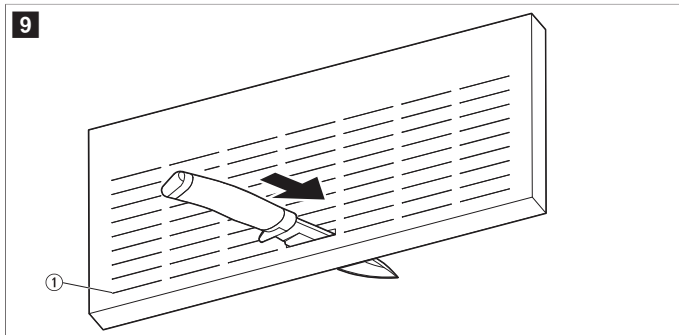
1. Measure the ceiling thickness of the RV at the roof opening.
2. Use the appropriate table below to determine the number of rows to remove from the duct divider based on the your model and the measured ceiling thickness.



NOTE If the ceiling thickness falls exactly on a value shared by two ranges, either recommendation is acceptable since the cell foam can be compressed.

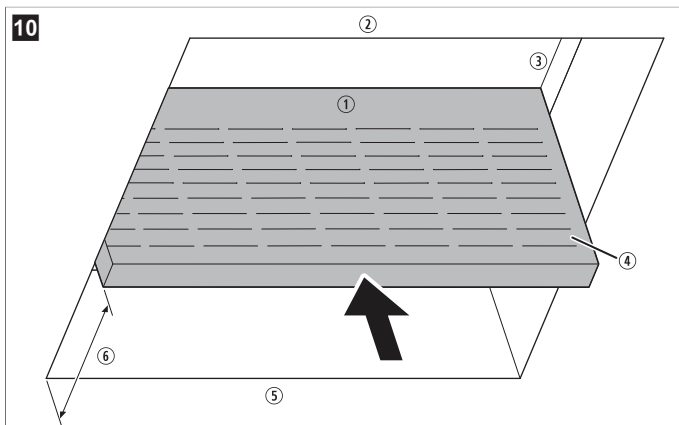
Models: 640310C, FJX5357MHE		Number of rows to cut
Ceiling thickness		
Min	Max	
6 in	6.5 in	0
5.5 in	6 in	1
5 in	5.5 in	2
4.5 in	5 in	3
4 in	4.5 in	4
3.5 in	4 in	5
3 in	3.5 in	6
2.5 in	3 in	7

2 in	2.5 in	8
1.5 in	2 in	9



① Row removal starting point

3. If rows need to be removed, cut the duct divider as follows:
- Identify the cut row by counting from the bottom of the duct divider.
 - Insert a utility knife into the selected row.
 - Carefully cut along the row.



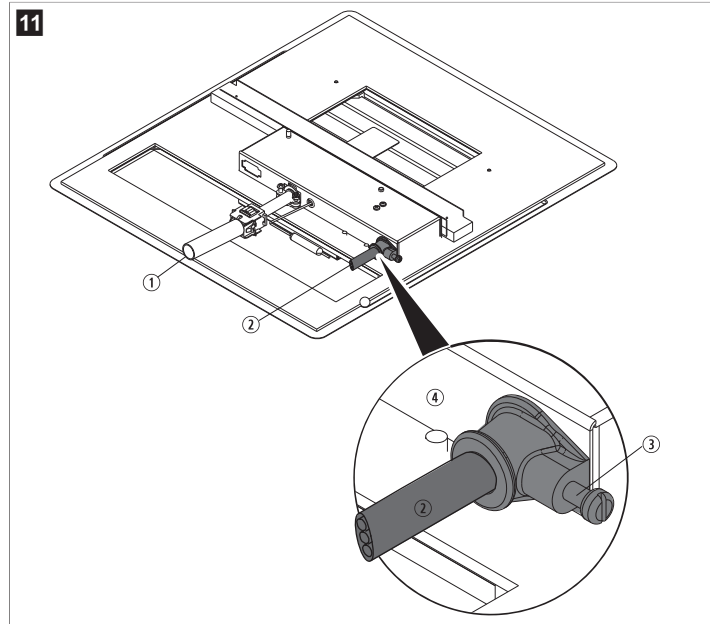
- | | |
|-----------------|--|
| ① Duct divider | ④ Back side to front |
| ② Front of unit | ⑤ Rear of unit |
| ③ Base pan | ⑥ 18 in. from the back of the roof opening |

4. Carefully insert the trimmed duct divider into the roof opening, measuring 6 in. from the back of the roof opening.



NOTE Ensure the foil backing faces the rear of the rooftop unit.

9.8 Wiring the unit to the power supply



- | | |
|------------------------------|---|
| ① 6-pin unit electrical cord | ③ Cable connector |
| ② 115 V ~ power supply wire | ④ Proper orientation of the cable connector |

- Plug the 6-pin electrical cord from the rooftop unit into the 6-pin connector in the electronic control box.
The connector is polarized and only fits in one orientation.
- Insert the supplied non-metallic cable connector into the junction box hole cutout.
- Route the previously-run 115 V ~ power supply wire through the cable connector and into the junction box.
- Secure the 115 V ~ power supply wiring by tightening the cable connector clamp.
Make sure not to damage the wires.

9.9 Securing the rooftop unit



NOTICE! Mounting risk

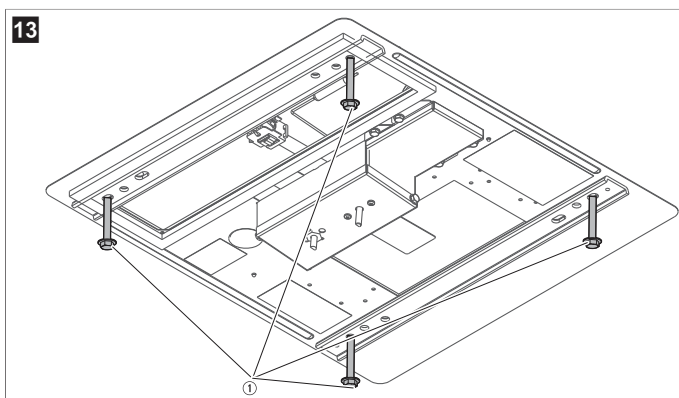
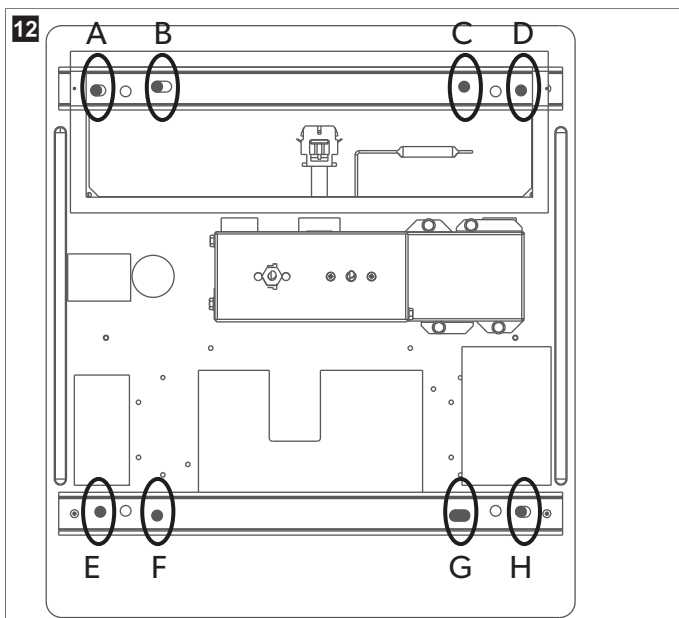
- > Do not over tighten the bolts. This may damage the rooftop unit's base pan or ceiling template.
- > Ensure bolts are torqued correctly. Insufficient torque may compromise the roof seal and cause leaks.



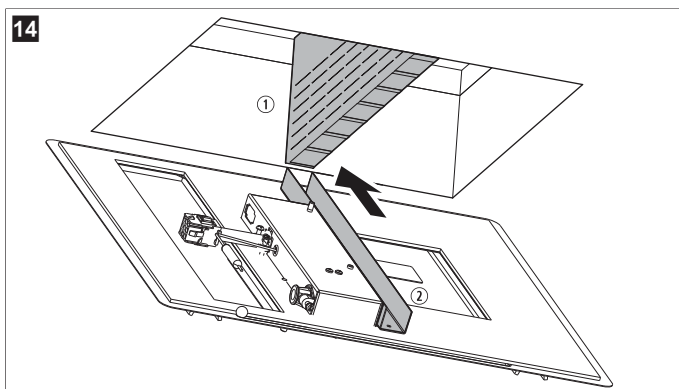
NOTE All models in this manual use a four-bolt pattern to secure the ADB kit.

- Use the following tables and figures to determine the proper mounting pattern and bolt location.

Model	Bolt location
640310C, FJX5357MHE	B, C, F, G



① Mounting bolt



① Duct divider

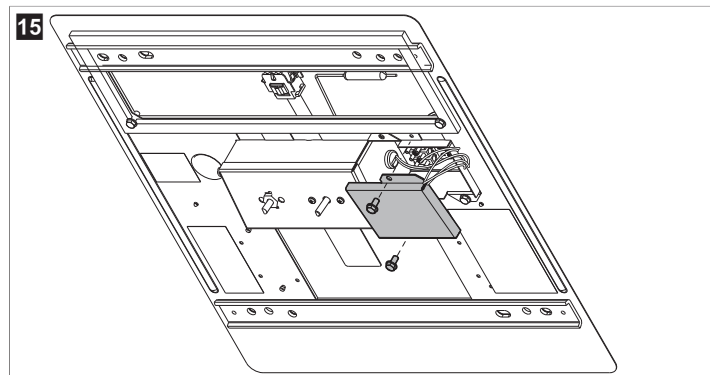
② Channel

2. Hold the ceiling template up to the roof opening and line up the channel on the ceiling template with the duct divider to ensure correct alignment.
3. Insert each mounting bolt by hand through the ceiling template into the rooftop unit's base pan.
4. Tighten the four mounting bolts evenly between 40 in-lb ... 50 in-lb .



NOTE FreshJet models include white foam torque tabs. These tabs are visible from inside the 14 in × 14 in roof opening. When torqued correctly, the tabs will contact the RV roof, providing a visual confirmation.

9.10 Connecting the power supply



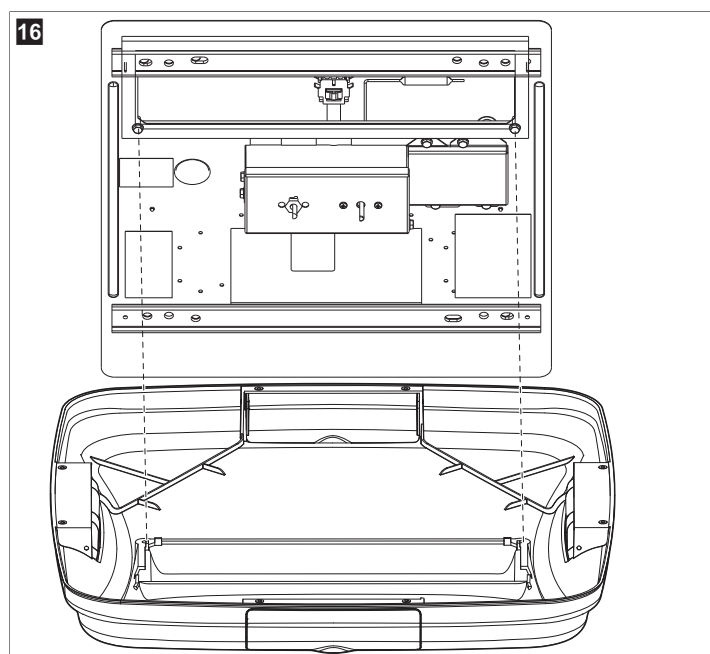
1. Remove the junction box cover.
2. Connect the white wires together, using the appropriately-sized connectors.
3. Connect the black wires to each other, using the appropriately-sized connectors.
4. Secure the bare copper wire under the grounding screw in the junction box.
5. Tape the connectors to the supply wire to ensure they do not vibrate loose.
6. Push the wires into the junction box.
7. Secure the junction box cover using the junction box screw.

9.11 Installing the ADB



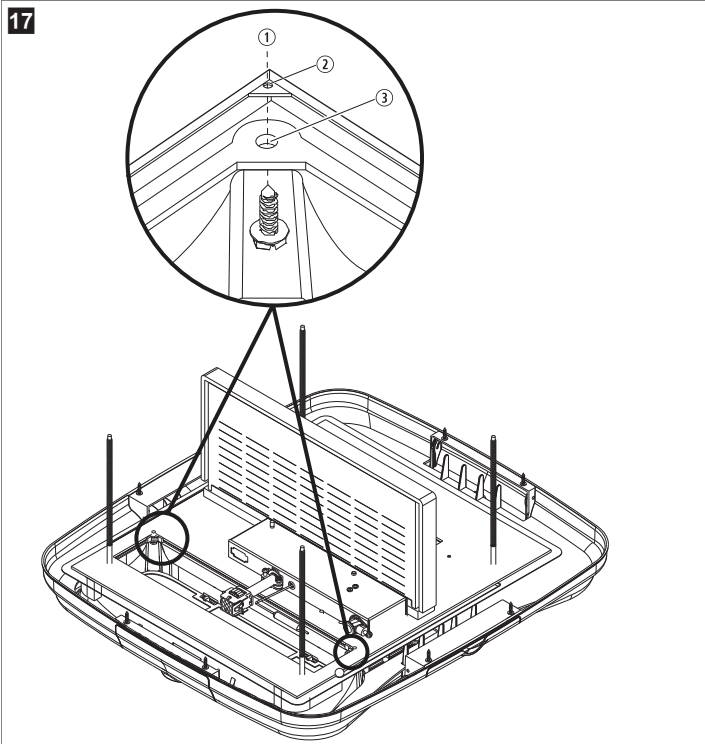
WARNING! Improper installation hazard

- > Do not install the front and rear vent doors until all screws are fully installed.



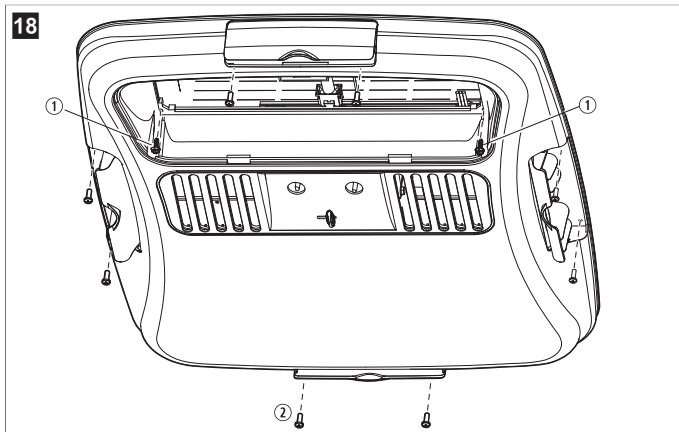
① Ceiling template alignment holes

② ADB alignment holes



- ① ADB hole alignment ③ Hole in ADB cover
② Hole in ceiling template

1. Align the ADB with the ceiling template.

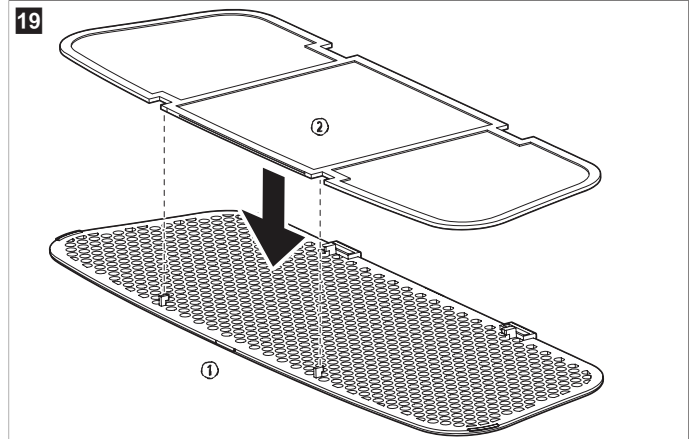


- ① Sheet metal screws (2) ② Wood screws (8)

2. Secure the ADB to the ceiling:

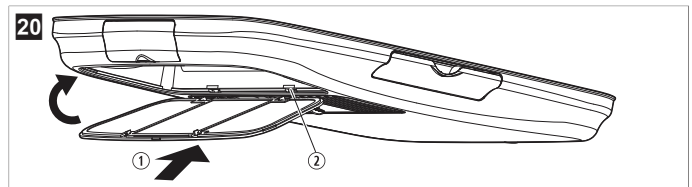
- Inside the return air opening, screw in the two supplied sheet metal screws to secure the ADB to the ceiling.
- Inside the front, rear, and side door areas, screw in the eight supplied wood screws to further secure the ADB to the ceiling.

3. Affix the front and rear vent doors and snap into place.



- ① Return air vent grille ② Slot in the ADB

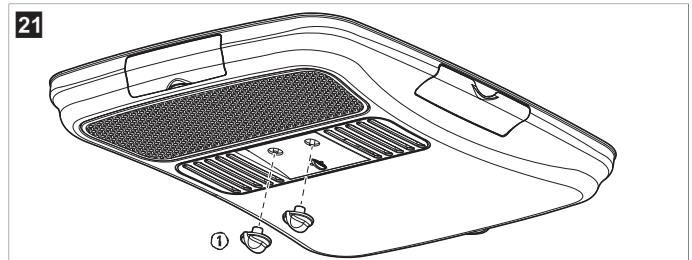
4. Place the filter in the return air vent grille. The filter may already be in place on some models.



- ① Sheet metal screws (2) ② Wood screws (8)

5. To connect the return air vent grille to the ADB, slide the grille's tab into the slot in the ADB.

6. Rotate the return air vent grille up until it snaps into place.



- ① Control knobs (2)

7. Align the control knobs to the control knob stems on the ADB.

8. Gently push the control knobs into place.

9. Turn on the power supply.

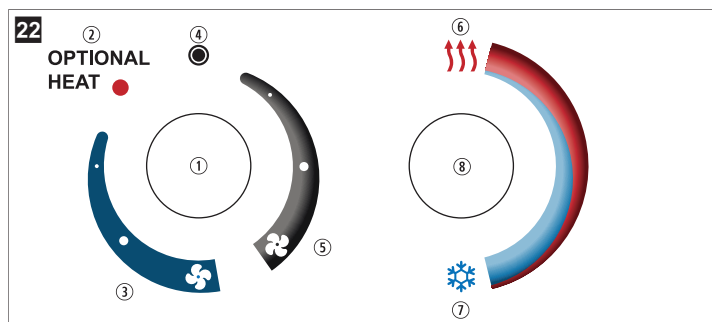
10. Verify that all the rooftop unit features work.



NOTE Read the following operating instructions before attempting to run the rooftop unit.

10 Operation

10.1 Understanding the controls



- ① Selector control knob (8 positions)
- ② (Optional) Heat
- ③ Cool
- ④ OFF position
- ⑤ Fan only
- ⑥ Warmer temperature
- ⑦ Cooler temperature
- ⑧ Thermostat control knob

Selector control knob

The selector control knob has eight positions:

- OFF: Turns the roof air conditioner off.
- Cool: Activates the cooling mode. Use one of the three positions to select the fan speed (High cool, medium cool, and low cool).
- Fan only: Circulates air without cooling or heating. Use one of the three positions to select the fan speed (High fan, medium fan, and low fan).
- OPTIONAL HEAT: Activates the heating mode, if equipped.

Thermostat control knob

The thermostat control knob cycles the compressor on and off to maintain the selected temperature. The adjustable range is approximately 65 °F ... 90 °F, measured at the ADB inlet.

10.2 Cooling operation



NOTICE! Damage hazard

- > Wait at least two minutes before restarting the compressor if it has been manually turned off using the selector switch or thermostat control. Restarting too soon may cause the compressor to quick-cycle, which can overload the compressor or the electrical circuit.

1. Turn the selector control knob to one of the three positions in the blue area on the control panel.
2. Select the speed that best satisfies your needs:
 - High cool (fan symbol): Provides maximum cooling and dehumidification.
 - Medium cool (middle position): provides normal or average cooling.
 - Low cool (next to the optional Heat position): Maintains the current comfort level; ideal for nighttime operation.
3. Set the thermostat to the desired temperature level.

The compressor will automatically cycle on and off as needed to maintain the selected temperature. The fan will continue to run when the compressor is off to help keep the temperature consistent throughout the RV.

10.3 Heating operation (if heat strip equipped)



NOTE For models equipped with heat strips, the heating mode is designed for supplemental heating only and will not replace a furnace for heating your RV in cold weather.

1. Turn the selector control knob to the optional heat position.
The heat strip will turn on and begin heating.

2. When the desired temperature level in the RV is reached, move the selector control knob to the OFF position or to one of the fan positions.



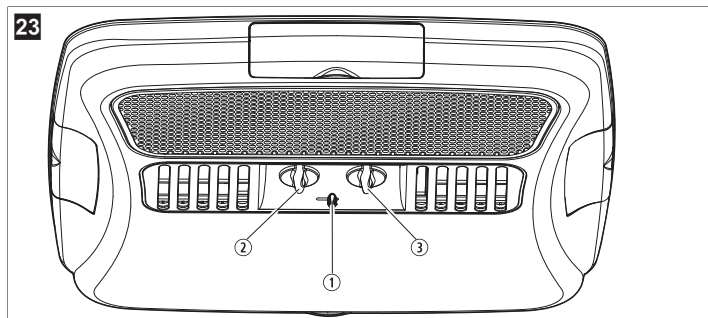
NOTE The thermostat does not control the fan or heater ON/OFF cycle.

10.4 Fan-only operation

1. Turn the selector control knob to one of the three positions in the black area on the control panel.
2. Select the fan speed that best satisfies your needs.

10.5 Controlling the air flow

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- ① Lever
- ② Selector switch
- ③ Thermostat control

- > Slide the lever to increase or decrease the volume of air flow entering the RV.

11 Cleaning and maintenance



NOTE The blower motor is factory-lubricated and requires no service.

11.1 Cleaning the air filter



NOTICE! Failure to follow this notice could result in damage to the rooftop unit and/or degradation of performance.

- > Never run the unit without the return air filter in place. Otherwise, dirt will restrict the rooftop unit's evaporator coil and may substantially degrade the performance of the unit over time.

1. Periodically (or a minimum of every two weeks of operation) remove the return air filter located behind the return air vent grille and wash it with soap and warm water.
2. Let the filter dry completely before placing the filter back into position.

11.2 Cleaning the ADB housing



NOTICE! Failure to follow this notice could result in damage to the ADB housing.

- > Never use furniture polish or scouring powders.

- > Clean the ADB housing and the control panel with a soft cloth dampened with a mild detergent.

12 Troubleshooting

The following describes common occurrences that are not a result of defective workmanship or materials.

Problem	Possible cause	Suggested remedy
The product does not operate.	The circuit breaker has activated.	> Set or reset the circuit breaker.
	A fuse has blown.	> Replace the fuse.

Problem	Possible cause	Suggested remedy
The product does not operate (or operates poorly) and the RV is connected to the motor generator.	The RV is not receiving power from the motor generator.	> Confirm the motor generator is running. > Confirm the motor generator is producing power. > Contact the local service center.
The product does not operate (or operates poorly) and the RV is connected to a power supply by a land line.	The RV is not receiving power from the power supply.	> Confirm that land line is plugged into the power supply. > Confirm that land line is properly-sized for product's power load. > Contact local service center.
Frost forms on evaporator coil, as visible through air inlet hole with filter removed.	The product is producing very cold output at very low air speed.	> Inspect and clean filter. > Open air vents and remove any obstructions.
The product does not maintain the desired temperature.	The product is affected by the RV's heat gain from high outdoor temperatures or humidity.	> Park the RV in a shaded area. > Use window shades, blinds, or curtains. > Keep the windows and doors closed or minimize their use. > Avoid using heat-producing appliances inside the RV. > Operate the product in the High Fan/Cooling mode. > Start the product before the outside temperature increases.
Condensation forms on ceilings, windows, or other surfaces.	The air contains water vapor that is below the dew point of the surface.	> Keep doors and windows closed when the unit is in operation to reduce the formation of condensation.



NOTE During normal operation, this product is designed to remove a certain amount of moisture from the air, depending on the size of space being conditioned. The manufacturer of this unit will not be responsible for damage caused by condensation forming on ceilings, windows, or other surfaces.



NOTE For a more permanent solution to high heat gain, accessories like the Dometic outdoor patio or window awnings will reduce heat gain by removing the effects of direct sunlight.

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.

14 Warranty

1-year(s) limited warranty available at qr.dometic.com/bfneEw. If you have questions, or to obtain a copy of the limited warranty free of charge, contact:

DOMETIC CORPORATION
CUSTOMER SUPPORT CENTER
5155 VERDANT DRIVE
ELKHART, INDIANA, USA 46516
1-800-544-4881

15 Technical data

This product contains fluorinated greenhouse gases.

The cooling unit is hermetically sealed.

Model	Cooling Capacity (Btu/h)	Electrical Rating	Compressor Amps (Rated)	Compressor Amps (Locked)	Fan Amps (Rated)	Fan Amps (Locked)	Refrigerant (oz)	Wire Size ¹	AC Circuit Protection ²	Generator Size ³ (1/2 units)
640310C	11000	115 V ~, 1 rpm, 1 ph	11.5 A	53 A	2.6 A	8.5 A	18 oz	12 AWG	15 A	3.5 kW / 5 kW
FJX5357MHE	11000		7.8 A	55 A	3.6 A	6.2 A	8.5 oz	14 AWG		

15.1 Model identification

The model identification labels are located as follows:

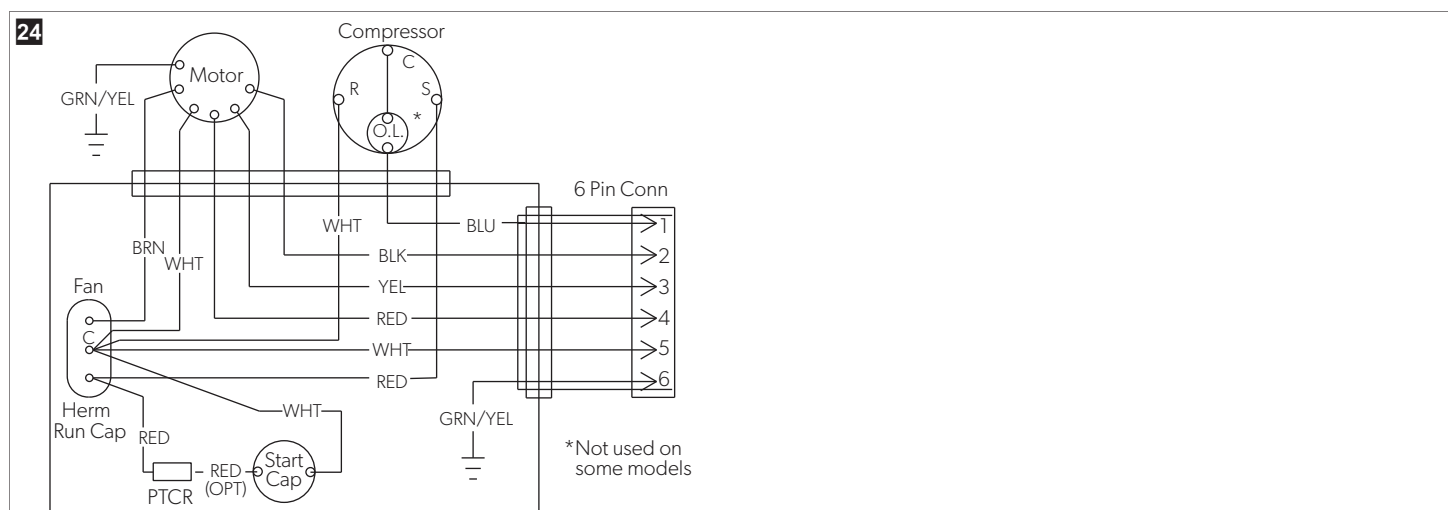
- The rooftop unit and serial numbers are found on the identification label located on the bottom of the base pan. To view the identification label, remove the return air vent grille from the air distribution box (ADB).
- The ADB model and serial numbers are found on the rating label located on the ceiling template. To view the rating label, look through the filter opening.



NOTE Have this information ready before contacting Dometic for service.

15.2 Wiring diagrams

Penguin II (640310CXX1C0, 640310CXX1J0)



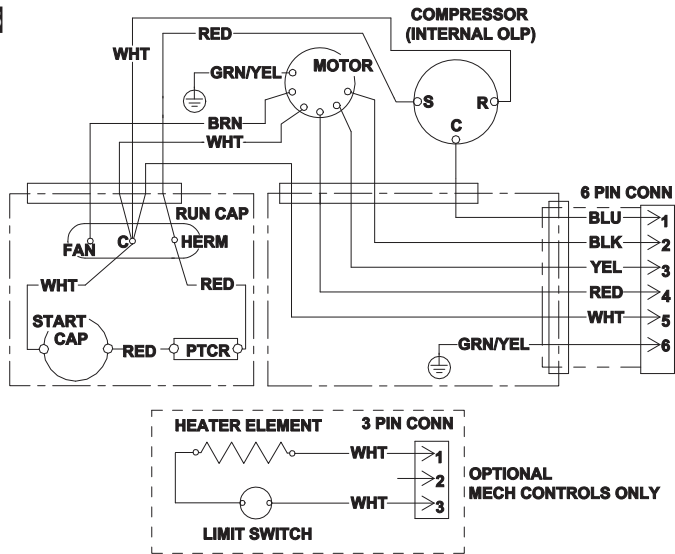
¹ The wiring size indicated is for copper wiring up to 24 ft in length. For wire lengths over 24 ft, consult the National Electrical Code for proper sizing.

² Circuit protection: a time delay fuse or circuit breaker is required.

³ Dometic Corporation gives general guidelines for generator requirements. These guidelines come from experiences people have had in actual applications. When sizing the generator, the total power usage of your RV must be considered. Generators may lose power at high altitudes and from lack of maintenance.

FJX5357MHE (FJX5357MHEWHCS, FJX5357MHEBKCS)

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ADB

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115 VAC
60 HZ 1 PH
USE COPPER
CONDUCTORS
ONLY

----- FIELD WIRING
————— FACTORY WIRING
○ LINE SPLICE

