FURRION CHILL™

MODEL (LIPPERT PN)
FACR18VS-SA-BL (2023010865)
FACR18VS-SA-PS (2023010866)
FACT18MA-PS (2023010867)

CHILL® CUBE VARIABLE SPEED RV ROOFTOP AIR CONDITIONER

USER MANUAL

* Picture shown here is for reference only.

Furrion Model No.	Lippert No.
FACR18VS-SA-BL	2023010865
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Thank you for purchasing this Furrion® product. Before operating your new appliance, please read these instructions carefully. This instruction manual contains information for safe use, installation and maintenance of the appliance. Please keep this instruction manual in a safe place for future reference. This will ensure safe use and reduce the risk of injury. Be sure to pass on this manual to new owners of this appliance.
The manufacturer does not accept responsibility for any damages due to disregarding these instructions.

English

CONTENTS

EXPLANATION OF SYMBOLS

This manual has safety information and instructions to help you eliminate or reduce the risk of accidents and injuries. Always respect all safety warnings identified with these symbols. A signal word will identify safety messages and property damage messages, and will indicate the degree or level of hazard seriousness.

⚠ WARNING

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

⚠ DANGER

Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

⚠ CAUTION

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate personal injury, or property damage.

IMPORTANT SAFETY INSTRUCTIONS

This manual has safety information and instructions to help users eliminate or reduce the risk of accidents and injuries. Please read this instruction manual carefully before installation and start-up, and store it in a safe place for future reference. If you pass on the device to another person, hand over this instruction manual along with it.

- 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.

The following basic safety information should be heeded when using electrical devices to protect against:

- Electric shock
- Fire hazards
- Injury

All Furrion product referenced in this manual is to be installed in accordance with local and national codes, including the latest editions of the following standards:

USA:

- NFPA 1192
- NFPA 70

Canada:

- C22.1
- CSA Z240

⚠ WARNING

- Installation and repair of the rooftop air conditioner must 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 elderly persons. Do not allow them to use electrical devices without supervision.
- Prevent inexperienced people from using the device without supervision.
- Do not undo the upper cover of the rooftop air conditioner in the event of a fire. Use approved extinguishing agents instead. Do not use water to extinguish fires.

⚠ WARNING

This appliance is not intended for use by persons (including children with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure they do not play with the appliance.

⚠ CAUTION

- The rooftop air conditioner must be installed securely so that it cannot fall down.
- Only operate the rooftop air conditioner if you are certain that the housing and the cables are not damaged.
- Do not use the rooftop 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 20” must be kept.
- Do not reach into air outlets or insert any foreign objects into the device.

English

Handling the Device

- Only use the device as intended.
- Do not make any alterations or conversions to the device.
- If faults occur in the refrigerant circuit, the system must be checked by a certified service technician and repaired properly. The refrigerant must never be released into the air.

⚠ WARNING

- The electrical power supply must only be connected by a qualified electrician.
- If connecting power to fixed wiring, an all-pole disconnection device which has at least 3mm must be used.
- The appliance shall be installed in accordance to national wiring regulations.
- If the supply cord is damaged, it must be replaced by the manufacturer, service agent or similarly qualified persons in order to avoid a hazard.

⚠ CAUTION

- Refer to NEC (National Electric Code) for proper sizing of wire gauge (awg) based on cable length and overcurrent protection rating that is suppling power to the air conditioner.
- See rooftop unit nameplate for proper overcurrent protection sizing.
- Attach and lay the cables so that they cannot be tripped over or damaged.

Handling Electrical Cables

- Only a qualified electrician should connect the rooftop air conditioner to electrical power.
- Do not lay loose or bent cables next to electrically conductive materials.
- Do not pull on the cables.
- Use cable ducts to lay cables through walls with sharp edges.
- Refer to rooftop unit nameplate and NEC for proper power supply rating.

⚠ CAUTION

- Turn off he air conditioner and disconnect the power if you are not going to use it for a long time.
- Turn off and unplug the unit during storms.
- Make sure that water condensation can drain unhindered form the unit.
- Do not operate the air conditioner with wet hands. This may cause electric shock.

⚠ CAUTION

- Do not use device for any other purpose than its intended use.
- Do not climb onto or place objects on top of the outdoor unit.
- Do not allow the air conditioner to operate for long periods of time with doors or windows open, or if the humidity is very high.

WARNING FOR USING R32 REFRIGERANT

When flammable refrigerants are employed, appliance shall be stored in a well-ventilated area where the room size corresponds to the room area as specific for operation.

For R32 refrigerant models:

Appliance shall be installed,. operated, and stored in a room with a floor area larger than X m^2

Appliance shall not be installed in an unventilated space, if that space is smaller than X m^2 (please see the following table).

Model (Btu/h)	Amount of refrigerant to be charged (kg)	Installation height	Minimum room area (m^2)
≤12000	≤1.11	2.2m	1
18000	≤1.65	2.2m	2

Mechanical connectors used indoors shall have a rate of not more than 3g/year @ 25% of the maximum allowable pressure. When mechanical connectors are reused indoors, sealing parts shall be renewed. When flared joints are reused indoors, the flare part shall be re-fabricated. (UL Standard Requirements).

BEFORE INSTALLING

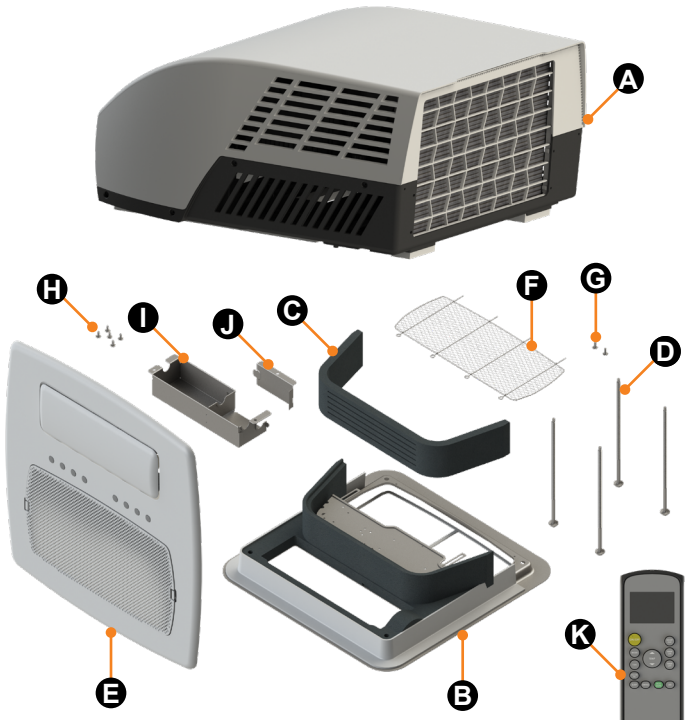
Read this installation manual completely before installing the rooftop air conditioner.

The following tips and instructions must be observed while installing the rooftop air conditioner.

What's in the Boxes

Open and remove the components from the cartons. Make sure you have all the following items included in the packaging, if any item is missing, contact your dealer.

- (A) Rooftop Unit x 1
- (B) Mounting Frame x 1
- (C) Foam Divider x 1
- (D) Mounting Bolts (Long) x 4
- (E) ADB Shroud x 1
- (F) Filter x 1
- (G) Electrical Box Screws x 2
- (H) Mounting Bolts (Short) x 5
- (I) Electrical Box x 1
- (J) Electrical Box Cover x 1
- (K) Remote (Select models only) x 1
- (-) Adhesive Insulation Foam (Not Shown) x 1
- (-) Instruction Manual (Not Shown) x 1
- (-) Refrigerant Manual (Not Shown) x 1
- (-) Warranty Manual (Not Shown) x 1



Choosing the Proper Location for the Air Conditioner

NOTE: The roof must be designed to support the weight of the rooftop unit and the weight of 2 installers standing on the roof.

There are two ways of installing the rooftop air conditioner:

1. Using the existing roof vent opening in the vehicle roof.

2. Making a new opening. In this case the opening should be reinforced by an appropriate frame as required.

Existing Roof Vent Opening

The air conditioner is designed to fit over an existing 14” roof vent opening.

New Opening

When no roof vent is available or another location is desired, the following is recommended:

- For one unit installation the air conditioner should be mounted near the rear and centered from side to side.
- For two unit installations, install one air conditioner near the rear of the RV and the other air conditioner less than two thirds from the rear of the RV, aligned in the center.

It is preferred that the air conditioner be installed on a relatively flat and horizontal roof section measured when the RV is parked on a level surface.

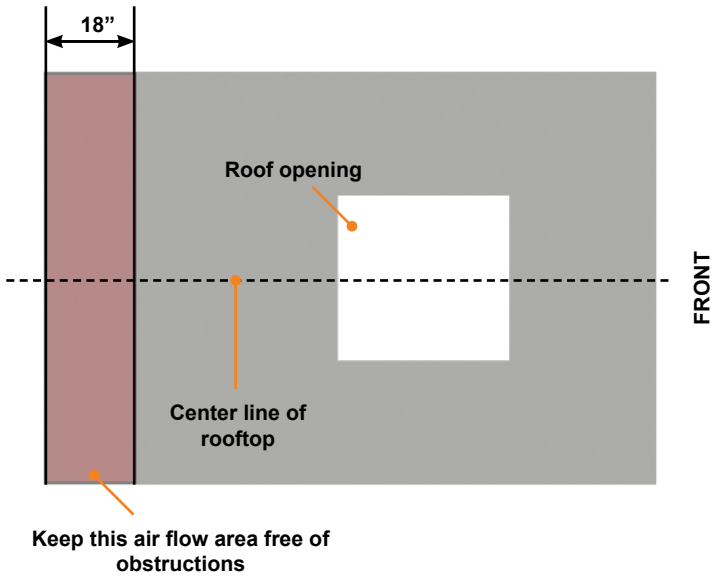
NOTE: A 15° slant to either side or front to back is acceptable for all units. If the roof exceeds 15° please use an exterior leveling shim to make air conditioner level.

After the Location Has Been Selected:

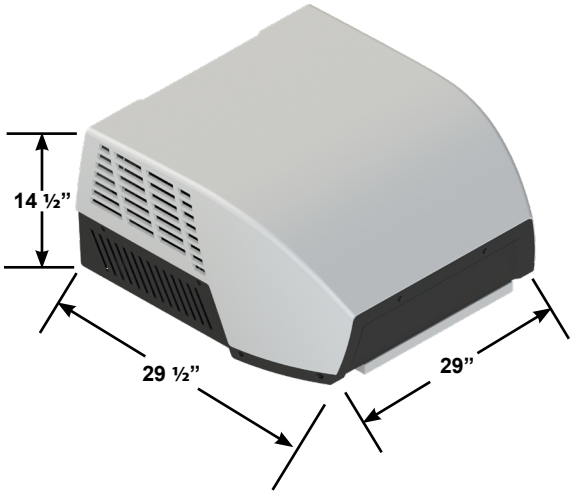
1. Check for obstructions in the area where the air conditioner will be installed.

2. Check the inside of the RV for return air kit obstructions. (i.e. door openings, room dividers, curtains, ceiling fixtures, etc.) Allow 6” (152mm) space from the opening to account for any potential return air kit obstructions.

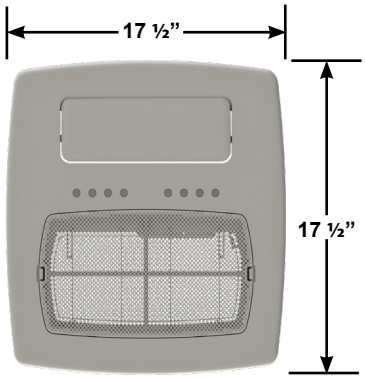
Rooftop View



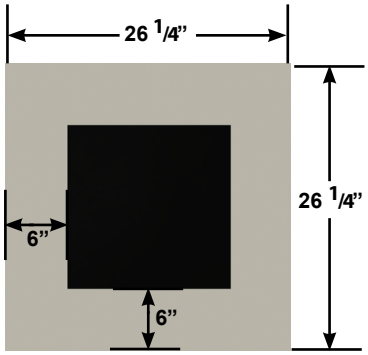
Unit Dimensions



ADB Shroud Dimensions



Ceiling Hole Dimensions



Roof Preparation

Opening Requirements - Before preparing the ceiling opening, decide on the type of system options. Read all of the following instructions before beginning the installation.

⚠ WARNING

Fire/Electric Shock Hazard

- Make sure there are no obstacles inside the RV roof, floor and walls, such as wires and pipes.
- Shut off the gas supply and disconnect the 115VAC power from the RV before drilling or cutting into the RV. Failure to obey these warnings could result in death or serious injury.

Roof Thickness

The installation of air conditioner suits for roof thickness from 3.5” (90mm) to 6” (152mm). For other thickness, please contact Furrion or Furrion authorized service agent.

English

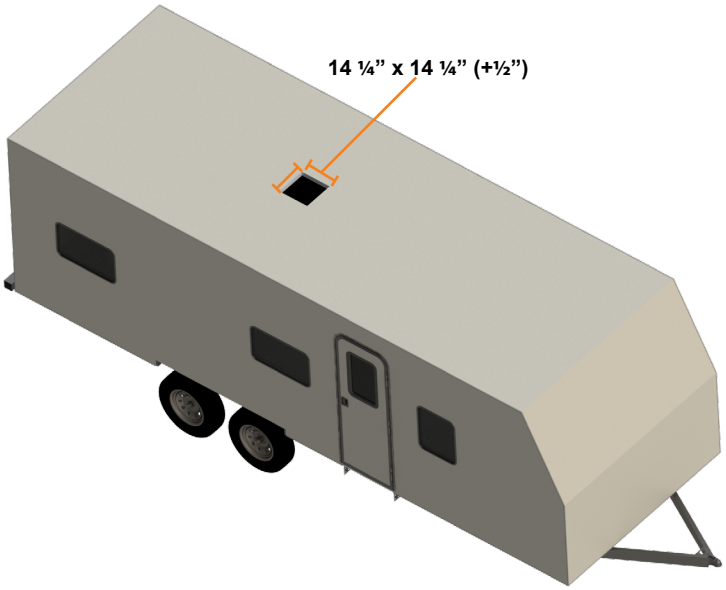
English

Installing in an Existing Opening

1. Unscrew and remove the roof vent.

2. Remove all caulking compound around the opening.

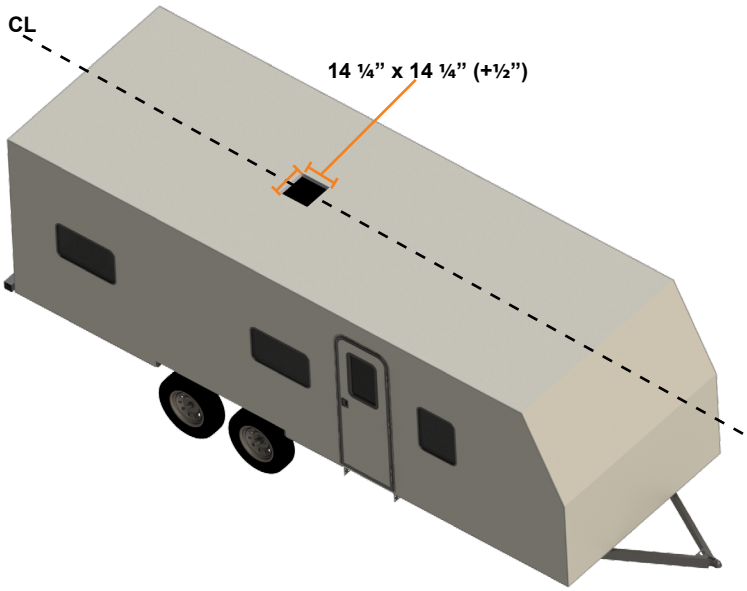
3. If the opening exceeds 14¼" x 14¼" (+½"), it will be necessary to resize the opening to 14¼" x 14¼" (+½"). If the opening is less than 14¼" x 14¼" (+½"), it must be enlarged.



Making a New Opening

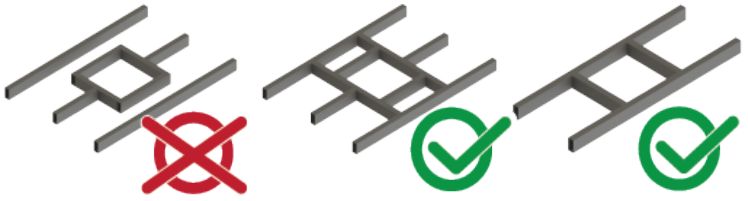
If a roof vent opening will not be used, a 14¼" x 14¼" (+½") (362mm x 362mm) opening must be cut through the roof and ceiling of the RV. This opening must be located between the roof reinforcing members.
The 14¼" x 14¼" (+½") opening is part of the return air system of the air conditioner and must be finished in accordance with NFPA Standard 501C Section 2.7.2.

1. Mark a 14¼" x 14¼" (+½") square on the roof and carefully cut an opening.



2. Using the roof opening as a guide, cut a matching hole in the ceiling.

NOTE: Maintain structural integrity. Otherwise damage to product and/or RV could occur. Always observe the following guidelines while structuring the opening.



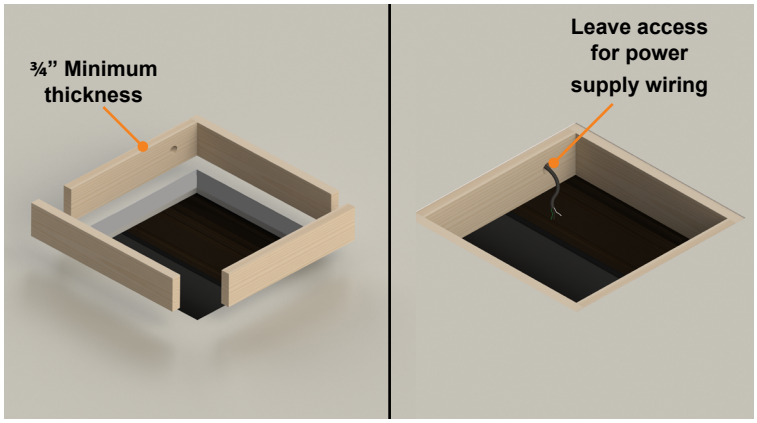
Do not cut roof structure or rafters

Good: rafters supported by cross beams

Good: location between roof rafters

3. The opening created must be framed to provide adequate support and prevent air from being drawn from the roof cavity.

4. Lumber ¾" or more in thickness must be used. Remember to provide an entrance hole for power supplies, wall thermostat and furnace wiring for connections. Leave 15" (381mm) minimum at the front of the opening.



Preparing Wire Connections

Each rooftop air conditioner opening must be prepared with proper wiring to connect the ceiling controller of the air conditioner to the 115VAC supply voltage.

NOTE: The wire connections need to be positioned in the forward facing ¼ section of the opening.

⚠ DANGER

Electrical Shock Hazard

- Disconnect power before servicing. Failure to obey this warning could result in death or serious injury.
- Provide grounding in compliance with all applicable electrical codes. Failure to obey this warning could result in death or serious injury.

115VAC Supply

1. Prepare a dedicated 20 amp rated circuit for each air conditioner unit, protected with a time delay fuse or circuit breaker.

NOTE: With multiple air conditioners on a 50 amp service, it is best to balance between the line voltage legs.

2. Extend circuit with a 12AWG 2-wire with ground to the roof opening.

NOTE: The wire gauge is generally acceptable per NEC code, refer to rooftop unit nameplate and applicable code for proper sizing.

3. Protect the wire where it passes through any rough surfaces or openings.

4. Terminate with at least 15” (381mm) of supply wire extending out of the roof opening. This ensures an easy connection at the control box.

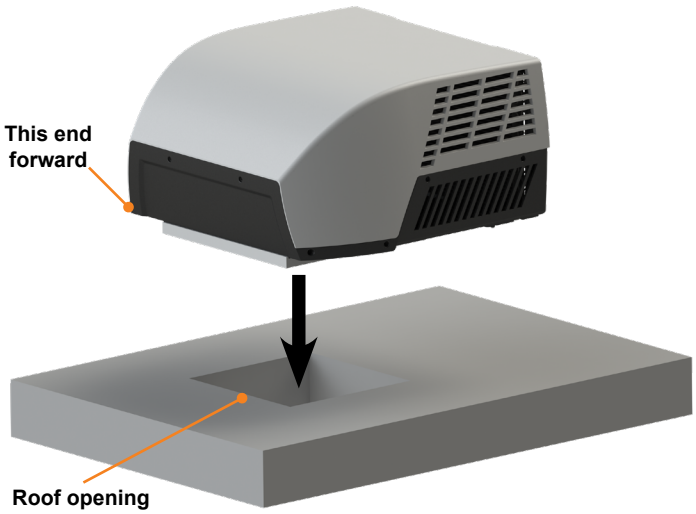
INSTALLATION

Installing the Rooftop Unit

⚠ CAUTION

- The rooftop unit weighs approximately 85 pounds (39 kg). To prevent back injury, use a mechanical hoist when lifting or moving the unit. Failure to obey this warning could result in injury.
- Do not slide unit. It may damage the gasket at the bottom of the rooftop unit and cause leakage.
- Do not grasp the ventilation slots to lift the rooftop unit up.

Hold the bottom of the unit, lift and position the rooftop unit into the prepared opening using the gasket at the bottom of the rooftop unit as a guide.

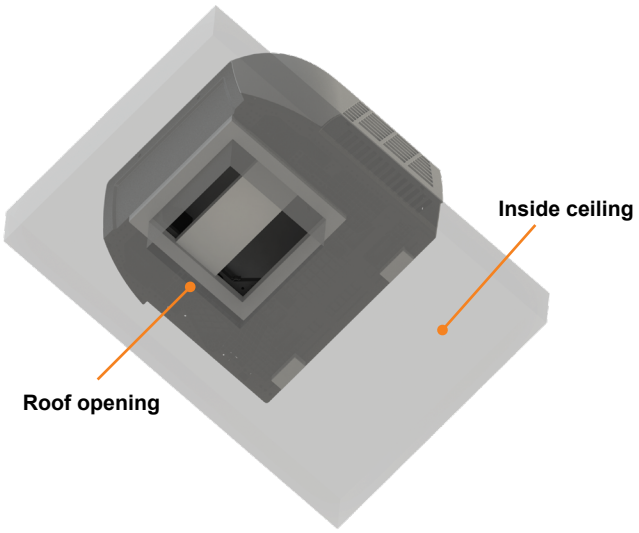


This completes the outside installation of the rooftop unit. Minor adjustments can be done from inside of the RV if required.

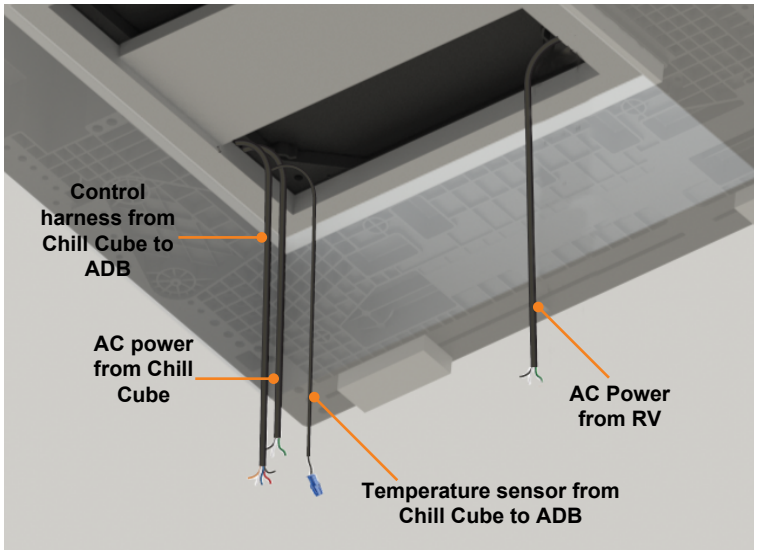
Installing the Air Distribution Box (ADB)

The rooftop unit is fixed on the RV roof using 4 long bolts through the mounting frame from the interior of the RV ceiling.

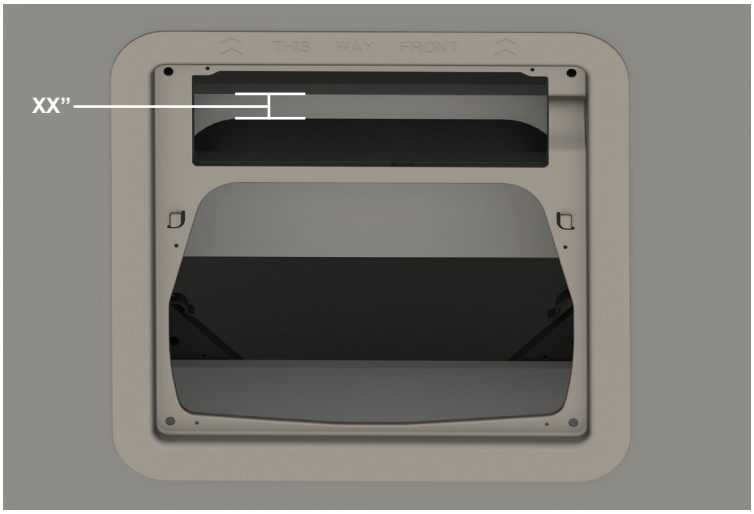
1. Check the gasket alignment of the rooftop unit inside the RV over the roof opening and adjust as necessary by lifting and moving slightly.



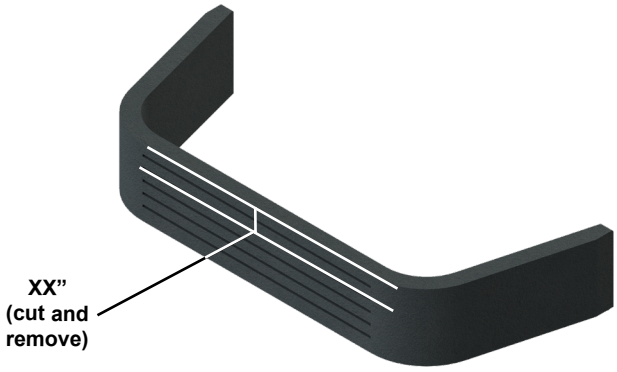
2. Reach up into the return air opening and pull down the rooftop unit electric cord. Ensure all terminated wire ends specified in “Preparing Wire Connections” section are accessible.



3. Dry fit the mounting frame, making sure the "**THIS WAY FRONT**" mark is facing front (the direction of the vehicle), and measure the gap from the top of the insulated foam divider to the base of the AC unit. Record this measurement.

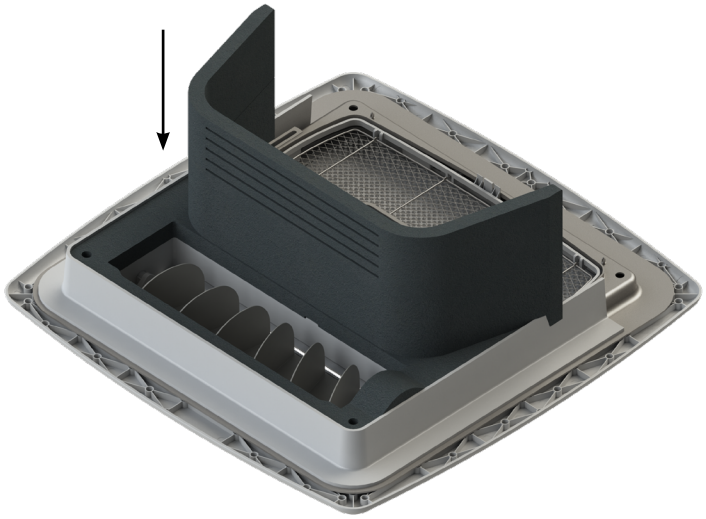


4. Cut and remove an amount of the top insulation foam divider equal to the recorded measurement height.

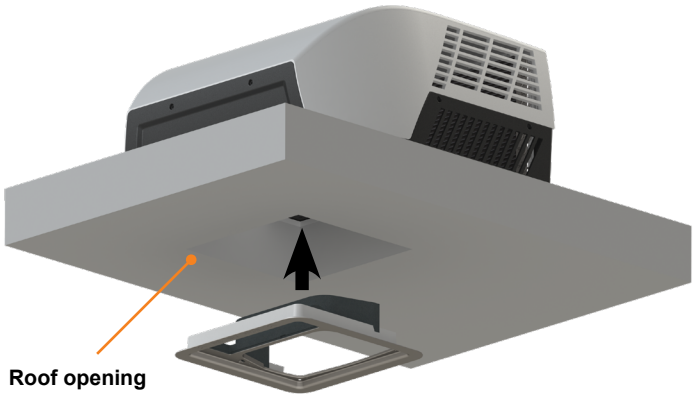


5. Measure the new height of the insulated foam divider. Cut enough adhesive insulation foam to fully cover the foam insulation divider, and adhere the adhesive insulation to the divider.

6. Connect the insulated top foam divider to the mounting frame and seal any cracks.

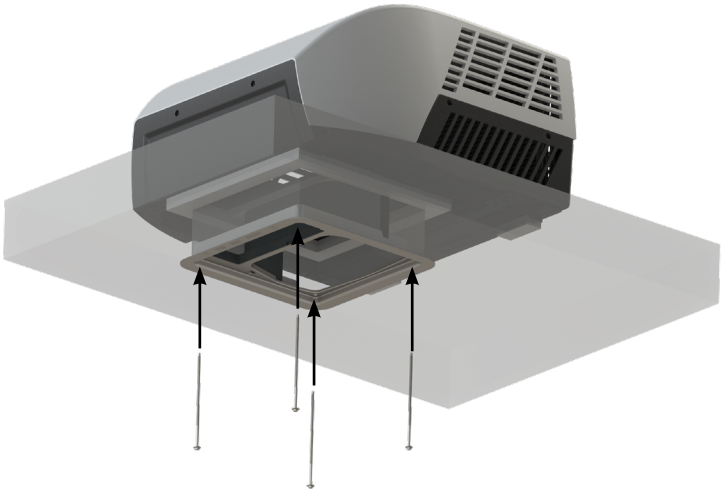


7. Install the assembled mounting frame into the rooftop opening.



8. Fix the assembled mounting frame into the rooftop unit using 4 bolts provided. Evenly tighten the four bolts to a torque of 40 inch pounds. This will compress the roof gasket to approximately ½".

NOTE: If bolts are left loose there may not be an adequate roof seal or if over tightened, damage may occur to the rooftop base or mounting frame.



Electronic Work

⚠ WARNING

BEFORE PERFORMING ANY ELECTRICAL OR WIRING WORK, TURN OFF THE MAIN POWER TO THE SYSTEM.

Wire Connection

⚠ DANGER

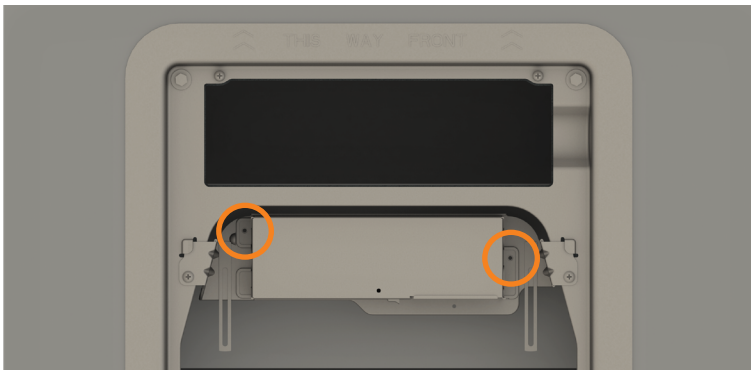
Electrical Shock Hazard

- Disconnect power before servicing.
- Provide grounding in compliance with all applicable electrical codes.

Failure to obey this warning could result in death or serious injury.

1. Familiarize yourself with the ceiling controller and wire harnesses.

2. Loosen the 2 provided “short” screws (one each side) holding the electrical box cover to the unit.



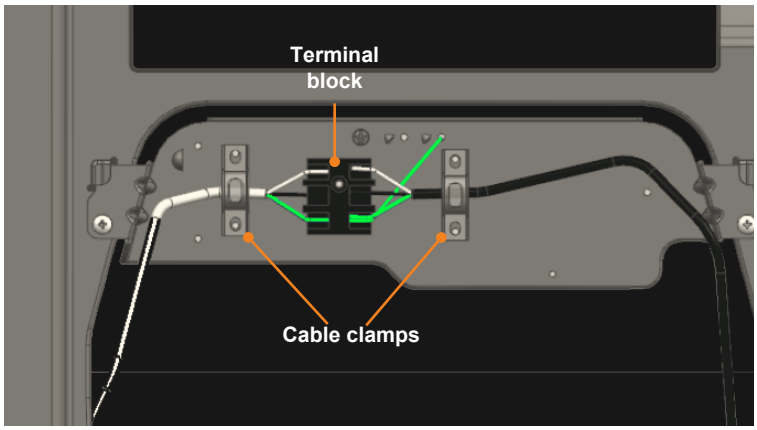
3. Feed the 115VAC power cords from the RV into the electrical box and connect them on the terminal block. Fasten the cables with the cable clamps. All wiring work must be performed strictly in according to the wiring diagram located on the unit.

NOTE: The power supply cord of the unit must be the double-layer insulated cable.

4. Make the power connection via one of two methods.

Option A - Using the supplied connection block (enclosed in mounting bolt bag) make wire connections following the below color codes.

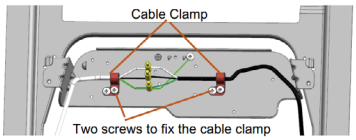
Black - Hot
White - Neutral
Green/yellow - Ground

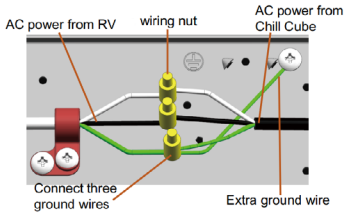


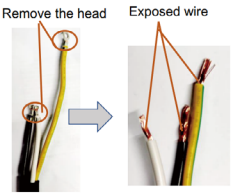
Option B - Make the wire connections using the appropriate wire connector following the below color codes.

Black - Hot
White - Neutral
Green/yellow - Ground

Refer to NEC (National Electric Code) for proper sizing of wire gauge (awg) and wire connector based on cable length and overcurrent protection rating.







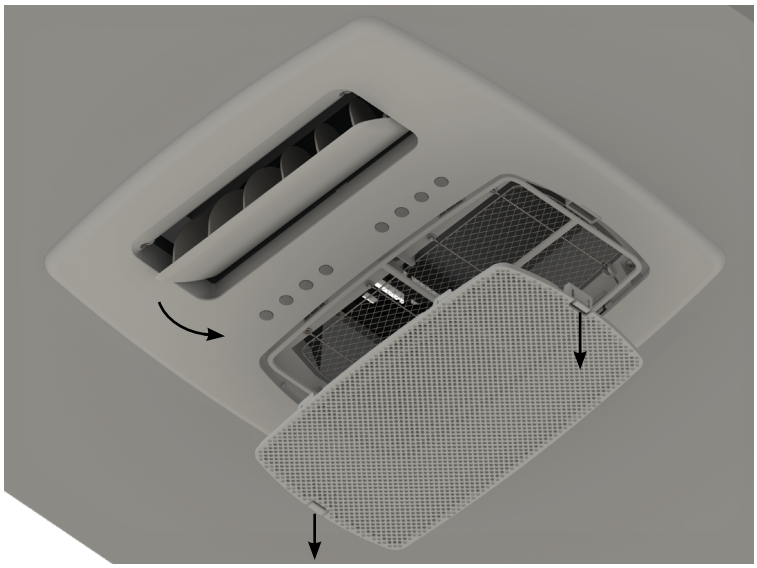
Remove the head of the three wires on AC power from Chill Cube and extra ground wire. Connect all the exposed cables with wire connectors (one connector will connect three ground wires). Fasten the cables with cable clamps. All wiring work must be performed strictly in accordance with the wiring diagram located on the unit.

NOTE: The power supply cord of the unit must be double-layered insulated cable.

5. Fix the electrical box cover to the mounting frame attached to the air conditioning unit to seal the electrical box using the 2 provided “short” screws (one each side).

ADB Shroud Installation

1. Reveal the 5 mounting screws inside the Air Distribution Box (ADB) shroud by removing the filter cover and opening the swivel door, respectively.

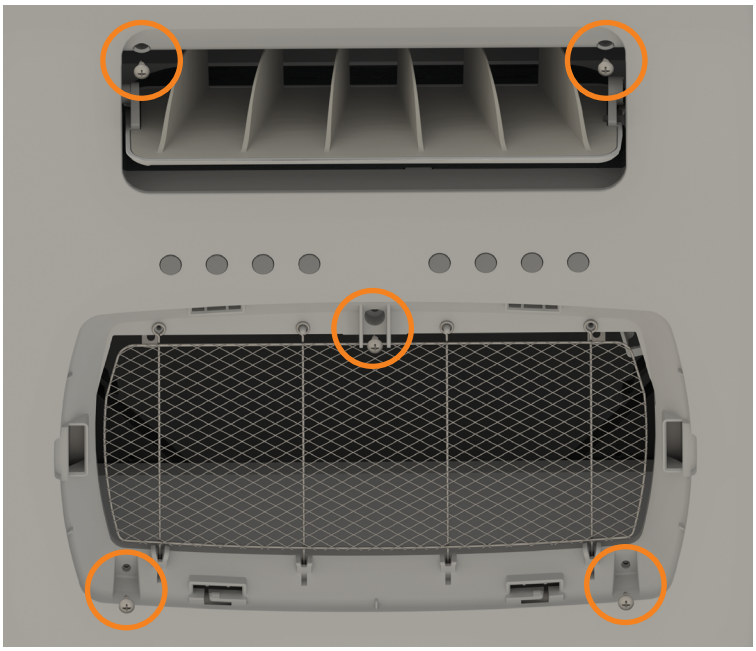


English

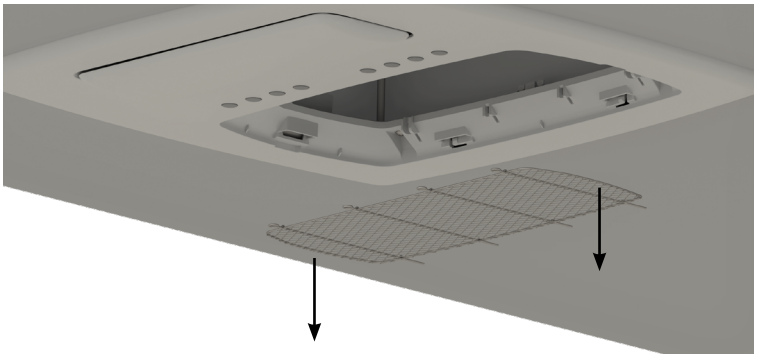
English

2. Install the ADB shroud over the mounting frame and fix with the 5 provided long screws, or #8 x1.5" (max) pan head RV screws can also be used.

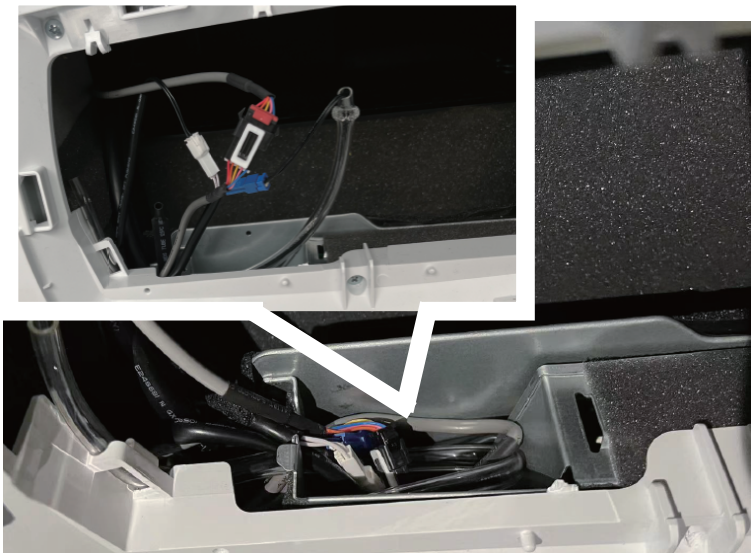
NOTE: Make sure the "**THIS WAY FRONT**" mark is facing front (the direction of the vehicle) while installing.



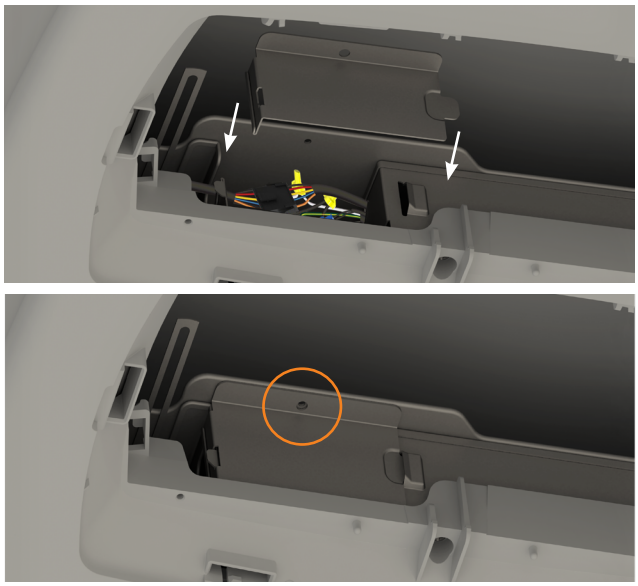
3. Remove wire mesh filter from the ADB to access the wires in the return by removing the two screws and snapping the mesh out of the mounting frame.



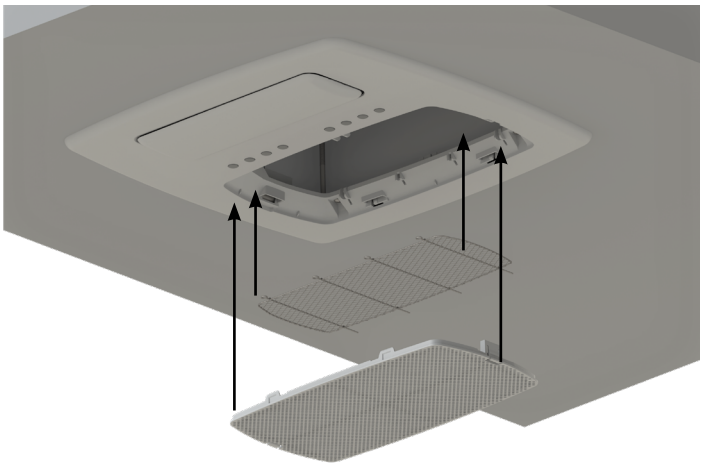
4. Connect the Chill Cube wires from the control box to the wires from the faceplate of the ADB. Connect the black, main control connectors together, and the blue temperature sensor connectors together. Tuck the white connection off to the side, unused

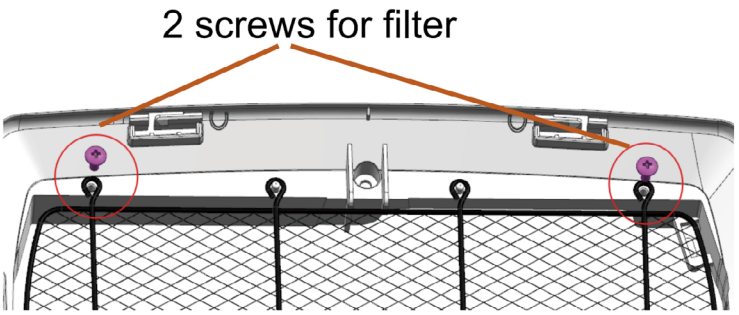


5. Place loose wires inside the electrical box, and close the electrical box panel door. Secure the panel door shut using the screw provided.



6. Replace the wire mesh filter in the ADB shroud using the two screws provided.





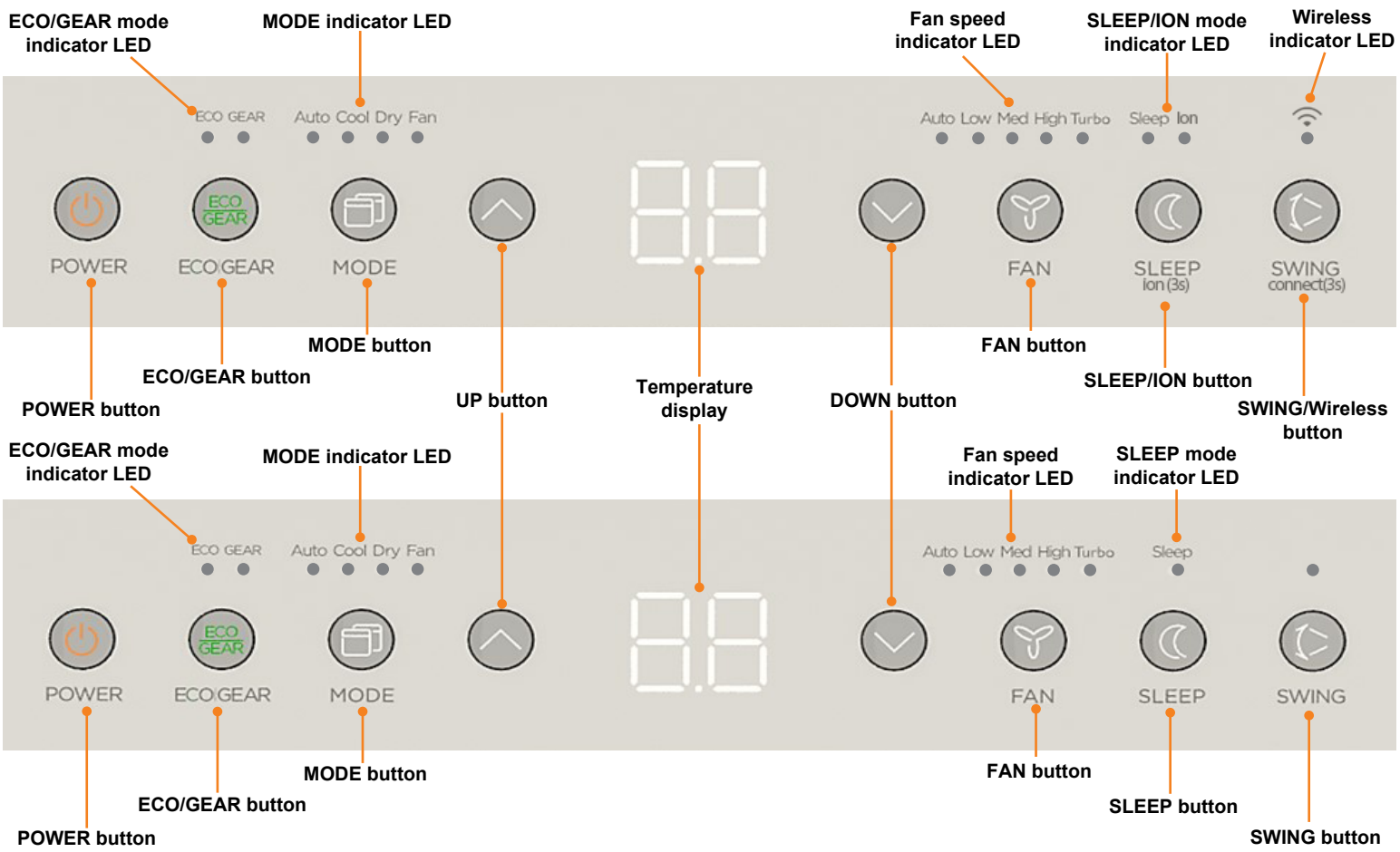
7. Replace the ADB filter cover over the filter, and close the swivel door.

Your new rooftop air conditioner has now been fully installed in the RV roof.

OPERATION

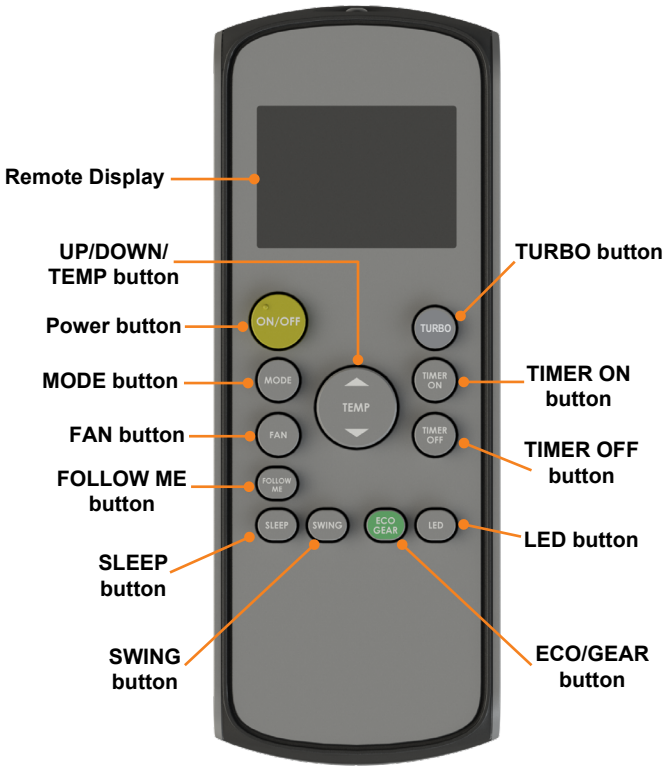
Operating Panel Diagrams

NOTE: Different models may have different buttons and indicator lights. Not all the buttons and indicator lights described are available on all units. Please check the operating panel of your unit. The following graphics are for explanatory purposes only.



Button/Function	Effect
POWER	Turns the unit on and off.
ECO/GEAR - Function	Toggles between ECO and GEAR settings to control the power consumption of the unit to: ECO → GEAR 75% → GEAR 50% → Cancel
MODE - Function	Toggles between the operational modes of the unit. There are four modes: Auto, Cool, Dry and Fan.
UP/DOWN ARROWS	Adjusts the temperature setting.
FAN - Function	Adjusts the fan speed in five steps: AUTO → LOW → MED → HIGH → TURBO (Fan speed cannot be adjusted in AUTO/DRY mode.)
SLEEP - Function ION - Function (On some models)	Initiates SLEEP/ION mode.
SWING - Function WIRELESS - Function (On some models)	SWING: Controls the oscillating louver. WIRELESS: Press for 3 seconds to activate the wireless control connections on wireless enabled models.
TEMPERATURE DISPLAY	Displays temperature settings or ambient temperature.

Remote Diagram



Button/Function	Effect
Power Button	Turns the unit on and off.
MODE button	Toggles between the operational modes of the unit. There are four modes: Auto, Cool, Dry and Fan.
FAN Button	Adjusts the fan speed in four steps: AUTO → LOW → MED → HIGH (Fan speed cannot be adjusted in AUTO/DRY mode.)
FOLLOW ME button	Enables remote to measure the temperature at its current location and send it to the air conditioner every 3 minutes.
SLEEP button	Activates/disables the sleep function.
UP/DOWN/TEMP button	Raises or lowers the set temperature in 2°F(1°C) increments. Max setting: 86°F(30°C) Lowest setting: 62°F(17°C) Temperature controls are not available while unti is in FAN mode.
TURBO button	Activates/disables Turbo function. This function enables the unit to reach a pre-set temperature in a short amount of time. Not supported on all models.
TIMER ON button	Sets timer to turn unit on
TIMER OFF button	Sets timer to turn unit off
LED button	Turns unit's LED display on and off
ECO/GEAR button	Toggles between ECO and GEAR settings to control the power consumption of the unit to: ECO → GEAR 75% → GEAR 50% → Cancel
SWING button	Controls the oscillating louver.

Handling the Remote Control

NOTE: Remote not available for all units.

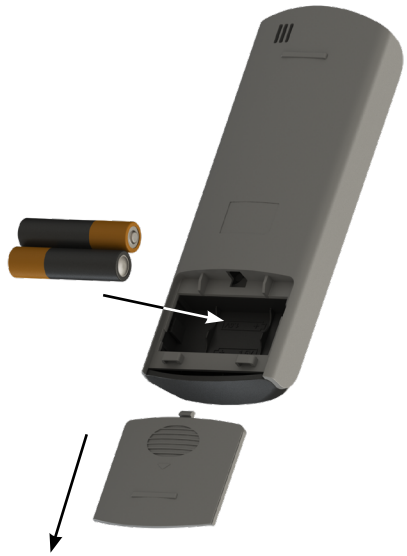
NOTE: Remote requires 2 AAA batteries. Some models come with included batteries.

Inserting and Replacing Batteries

1. Slide the back cover from the remote control downward, exposing the battery compartment.

2. Insert the AAA batteries, matching the (+) and (-) ends of the batteries with the symbols inside the battery compartment.

3. Slide the battery cover back into place.



NOTE: For optimum product performance, do not mix old and new batteries or batteries of different types

NOTE: Do not leave batteries in the remote control if you don't plan on using the device for more than 2 months.

Battery Disposal

Do not dispose of batteries as unsorted municipal waste. Refer to local laws for proper disposal of batteries.

Using the Remote

- The remote control must be used within 26.25 feet (8 meters) of the unit.
- The unit will beep when remote signal is received.
- Curtains, other obstructions, and direct sunlight can interfere with the infrared signal receiver.

Remote Notes

This device complies with the local national regulations.

In Canada, it should comply with CAN ICES-3(B)/NMB-3(B).

In the USA, this device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference

2. This device must accept any interference received, including interference that may cause undesired operation.

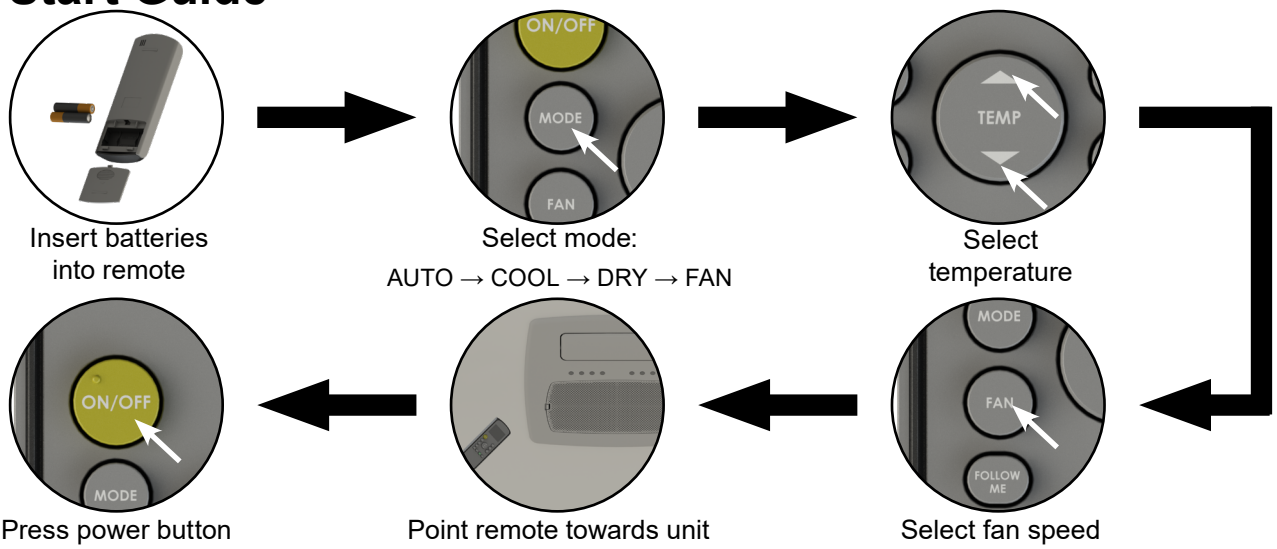
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not approved by the party responsible for compliance could void the user's authority to operate the equipment.

English

Quick Start Guide



Insert batteries into remote

Select mode:
AUTO → COOL → DRY → FAN

Select temperature

Select fan speed

Point remote towards unit

Press power button

Basic Function Operation

Auto Mode Operation

1. Set the unit to AUTO mode by pressing the MODE button until “AUTO” is selected.

2. Use the Up and Down buttons to choose the desired temperature.

3. Press the POWER button to turn on the unit. The system will automatically select cooling or fan-only operation depending on what temperature is selected and the current room temperature.

4. The unit will control the room temperature automatically based on the set temperature.

NOTE: In this mode, the fan speed cannot be adjusted. It will be set automatically at a speed according to the room temperature.

Cool Mode Operation

1. Set the unit to COOL mode by pressing the MODE button until “COOL” is selected

2. Use the Up and Down buttons to choose the desired temperature.

3. Adjust the fan speed by the FAN button.

4. Press the POWER button to turn on the unit.

Fan Mode Operation

1. Set the unit to FAN mode by pressing the MODE button until “FAN” is selected.

2. Adjust the fan speed by pressing the FAN button.

3. Press the POWER button to turn on the unit.

NOTE: This function only provides room air circulation. It does not provide cooling or allow the temperature to be adjusted.

NOTE: In FAN mode the set temperature is not displayed on the remote control display screen.

Dry Mode Operation

1. Set the unit to DRY mode by pressing the MODE button until “DRY” is selected.

2. Use the Up and Down buttons to choose the desired temperature.

3. Press the POWER button to turn on the unit.

NOTE: In DRY mode, the unit will operate as a dehumidifier. Some degree of cooling will continue.

NOTE: In this mode, the fan speed cannot be adjusted. It will be set automatically at a speed according to the room temperature.

LED Operation (Remote Only)

1. Press the LED button to turn the LED display on the unit ON if it is off, and OFF if it is on.

Advanced Function Operation

ECO/GEAR Operation

1. Press the ECO/GEAR button. The ECO indicator LED will illuminate on the unit, and the remote will display ECO/GEAR.

2. The fan will continue to run for 3 minutes after the compressor shuts off. The fan will then cycle for a duration of 2 minutes at 10 minute intervals until the room temperature is above the set temperature. The compressor will then turn on and cooling will begin.

3. Press the ECO/GEAR button again. The GEAR indicator LED will illuminate, and the segment will show 75. In this mode, the unit will operate at 75% max current limit.

4. Press the ECO/GEAR button again. The GEAR indicator LED will stay illuminated, but the segment will show 50. In this mode, the unit will operate at 50% max current limit.

5. Press the ECO/GEAR button a final time to reset the unit back to the ECO setting.

Sleep Mode Operation

6. Press the Sleep button to initiate the sleep mode. In this mode the selected temperature will increase (in cooling mode) by 2°F/1 (or 2)°C 30 minutes after the mode is selected. The temperature will then increase (in cooling mode) by another 2°F/1 (or 2)°C after an additional 30 minutes. This new temperature will be maintained for 7 hours before it returns to the originally selected temperature.

7. After 7 hours, the sleep mode will end and the unit will continue to operate as originally programmed.

8. The sleep mode program can be canceled at any time during operation by pressing the SLEEP button again.

Swing Button Operation

1. While the unit is ON, press the SWING button to stop the louver at the desired angle.

Follow Me Operation (Remote Only)

1. While the unit is in AUTO or COOL mode, press the FOLLOW ME button on the remote.

2. Place the remote in any location where the air temperature needs to be adjusted. The remote will measure the ambient temperature at its current location and send it to the unit every 3 minutes.

3. To disable, press the FOLLOW ME button again.

Short Cut Operation (Remote Only)

1. Press and hold the SHORT CUT button for 2 seconds to save the current settings of the unit including operating mode, set temperature, fan speed and sleep as the “short cut.”

2. Press the SHORT CUT button at any time to revert the unit back to the previously saved settings of the “short cut.”

NOTE: Any time the SHORT CUT button is held for 2s the old “short cut” is cleared automatically and replaced with the current settings of the unit, I.E. a new “short cut.”

Operating the Timer Function

Press the TIMER ON button to set the auto-on time of the unit. Press the TIMER OFF button to set the auto off time of the unit

To set the Auto-on time

1. Press the TIMER ON button. The remote control LCD display will read TIMER ON, the last Auto-on setting time, and the letter “H”.

2. Push the TIMER ON button again to set desired Auto-on time. Each time the button is pressed, the time will increase by half hour increments up to 10 hours, and then by one hour increments between 10 and 24 hours.

3. After setting the TIMER ON there will be a one second delay before the remote transmits the signal to the air conditioner. Then, after approximately another two seconds, the letter “H” will disappear from the LCD display and the set temperature will re-appear.

To set the Auto-off time

1. Press the TIMER OFF button. The remote control LCD display will read TIMER OFF, the last Auto-off setting time, and the letter “H”

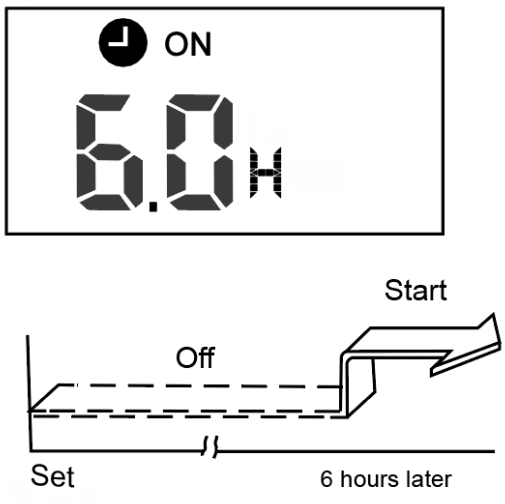
2. Press the TIMER OFF button again to set the desired Auto-off time. Each time the button is pressed, the time will increase by half hour increments up to 10 hours, and then by one hour increments between 10 and 24 hours.

3. After setting the TIMER OFF there will be a one second delay before the remote transmits the signal to the air conditioner. Then, after approximately another two seconds, the letter “H” will disappear from the LCD display and the set temperature will re-appear.

⚠ CAUTION

- When selecting timer operation, the remote control automatically transmits the timer signal to the indoor unit for the specified time. Keep the remote in a location where it can transmit the signal to the indoor unit properly within range of the unit.
- The effective operation time set by the remote control for the timer function is limited to the following settings: 0.5, 1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 6.5, 7.0, 7.5, 8.0, 8.5, 9.0, 9.5, 10, 11, 12, 13, 14, 15,16,17, 18, 19, 20, 21, 22, 23 and 24.

Examples of Setting the Timer



TIMER ON (Auto-on Operation)
The TIMER ON feature is useful for turning the unit on automatically before returning home. The air conditioner will automatically start operating at the set time.

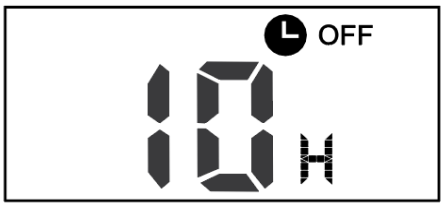
Example:

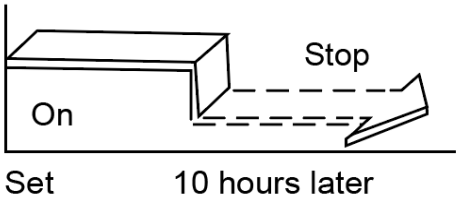
To start the air conditioner in 6 hours -

1. Press the TIMER ON button. The previous start time setting and the letter “H” will be displayed on the remote’s LCD display.

2. Press the TIMER ON button again as needed to cycle through times until “6.0H“ is displayed.

3. Wait for 3 seconds or until the display shows the temperature again. The “TIMER ON” indicator will remain on and the function is activated. The Air conditioner will turn itself on in 6 hours.





TIMER OFF (Auto-off Operation)

The TIMER OFF feature is useful for turning the unit off automatically at a set time, such as after going to bed. The air conditioner will automatically start operating at the set time.

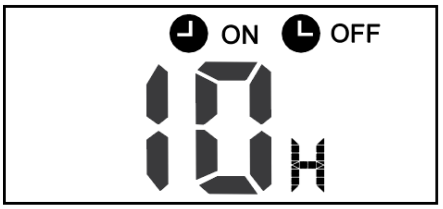
Example:

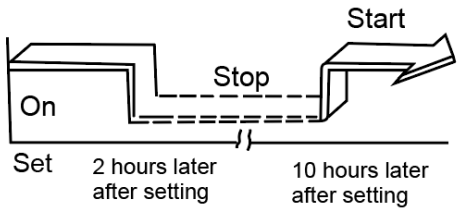
To stop the air conditioner after 10 hours -

1. Press the TIMER OFF button. The previous stop time setting and the letter “H” will be displayed on the remote’s LCD display.

2. Press the TIMER OFF button again as needed to cycle through times until “10H” is displayed.

3. Wait for 3 seconds or until the display shows the temperature again. The “TIMER OFF” indicator will remain on and the function is activated. The Air conditioner will turn itself off after 10 hours have passed.





Setting Both TIMER ON and TIMER OFF Together.

Setting the TIMER ON and TIMER OFF features together will allow the unit to only operate during certain periods of time. When set properly, the unit will turn itself on at the set TIMER ON time, run until the set TIMER OFF time, then shut itself off.

Example 1:

As if turning the air conditioner off for the night, and starting it again in the morning. I.E. To stop the air conditioner after 2 hours and start it again after 10 hours.

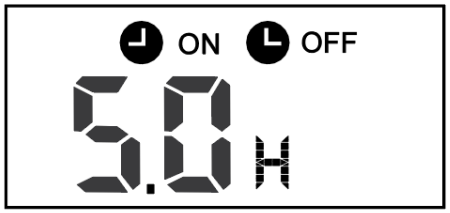
1. Press the TIMER OFF button.

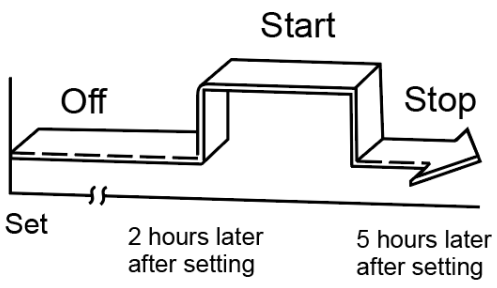
2. Press the TIMER OFF button again as needed to cycle through times until “2.0H” is displayed.

3. Press the TIMER ON button.

4. Press the TIMER ON button again as needed to cycle through times until “10H” is displayed .

5. Wait for 3 seconds or until the display shows the temperature again. The “TIMER ON” and “TIMER OFF” indicators will remain on and the function is activated.





Example 2:

As if starting the air conditioner before waking up and stopping it after leaving the house I.E. to start the air conditioner after 2 hours and stop it after 5 hours.

1. Press the TIMER ON button.

2. Press the TIMER ON button again as needed to cycle through times until “2.0H” is displayed.

3. Press the TIMER OFF button.

4. Press the TIMER OFF button again as needed to cycle through times until “5.0H” is displayed.

5. Wait for 3 seconds or until the display shows the temperature again. The “TIMER ON” and “TIMER OFF” indicators will remain on and the function is activated.

CLEANING AND MAINTENANCE

Cleaning and Maintenance Warnings

- Turn off the device and disconnect the power before cleaning. Failure to do so can cause electrical shock.
- Do not clean the air conditioner with excessive amounts of water.
- Do not clean the air conditioner with combustible cleaning agents. Combustible cleaning agents can cause fire or deformation.

⚠ WARNING

Airborne particles can pose a health risk, particularly to young children and the elderly. Ensure that filters are cleaned in a safe and well ventilated area.

⚠ CAUTION

Do not use a high-pressure water gun or similar device to flush or clean the unit.

A blocked filter will impair the cooling and heating performance of the unit significantly.

The filter must be cleaned periodically to ensure that it does not become clogged with dust and other particles. The state of the filter can be ascertained from its appearance. If it appears dirty or clogged then it should be cleaned.

To Clean the Filter

The filter should be cleaned every four weeks or more when in use. Prolonged use, higher concentrations of airborne particles and various other factors may result in the filters needing to be cleaned more often

1. Remove the filters by pushing the tabs to release.

2. The filter can be washed with warm soapy water. Care must be taken to avoid ripping the fabric.

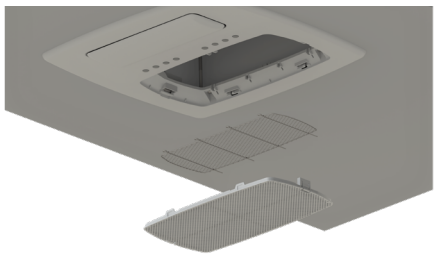
3. Replace the filters and decoration plate, by reversing the above process.

NOTE: The filter must be completely dry before re-installation.

To Replace the Filter

Filter changes should be carried out depending on the amount of use, it is recommended to change at least every 12 months. Never operate the air conditioning system without a filter, since this can decrease performance and indoor air quality.

Replacement return air filters can be ordered directly from Furrion.



English

TROUBLESHOOTING

Problem	Cause	Remedy
Rooftop air conditioner constantly switches itself off	Freeze sensor has tripped.	Outer temperature is too low or all air nozzles are closed.
Not cooling well	The rooftop air conditioner is not set to cooling.	Set the rooftop air conditioner to cooling.
	The set temperature is too high.	Select a lower temperature.
	The evaporator fan is damaged.	Contact an authorized service agent or Furrion (see the detail contact info at the back page of this manual).
	The condenser fan is damaged.	Contact an authorized service agent or Furrion (see the detail contact info at the back page of this manual).
	The air intake grilles are blocked or obstructed.	Remove any leaves and other dirt from the ventilation grilles of the rooftop air conditioner.
	The blower is defective.	Contact an authorized service agent or Furrion (see the detail contact info at the back page of this manual).
Water enters the vehicle	The condensation water drainage openings are clogged up.	Clean the drainage openings for condensation water.
	The seals are damaged.	Contact an authorized service agent or Furrion (see the detail contact info at the back page of this manual).
Rooftop air conditioner does not switch on	No supply voltage connected.	Check the power supply.
	The voltage is too low.	Contact an authorized service agent or Furrion (see the detail contact info at the back page of this manual).
	Fuse blown or circuit protector tripped.	Check the electrical fuse of the power supply.

SPECIFICATIONS

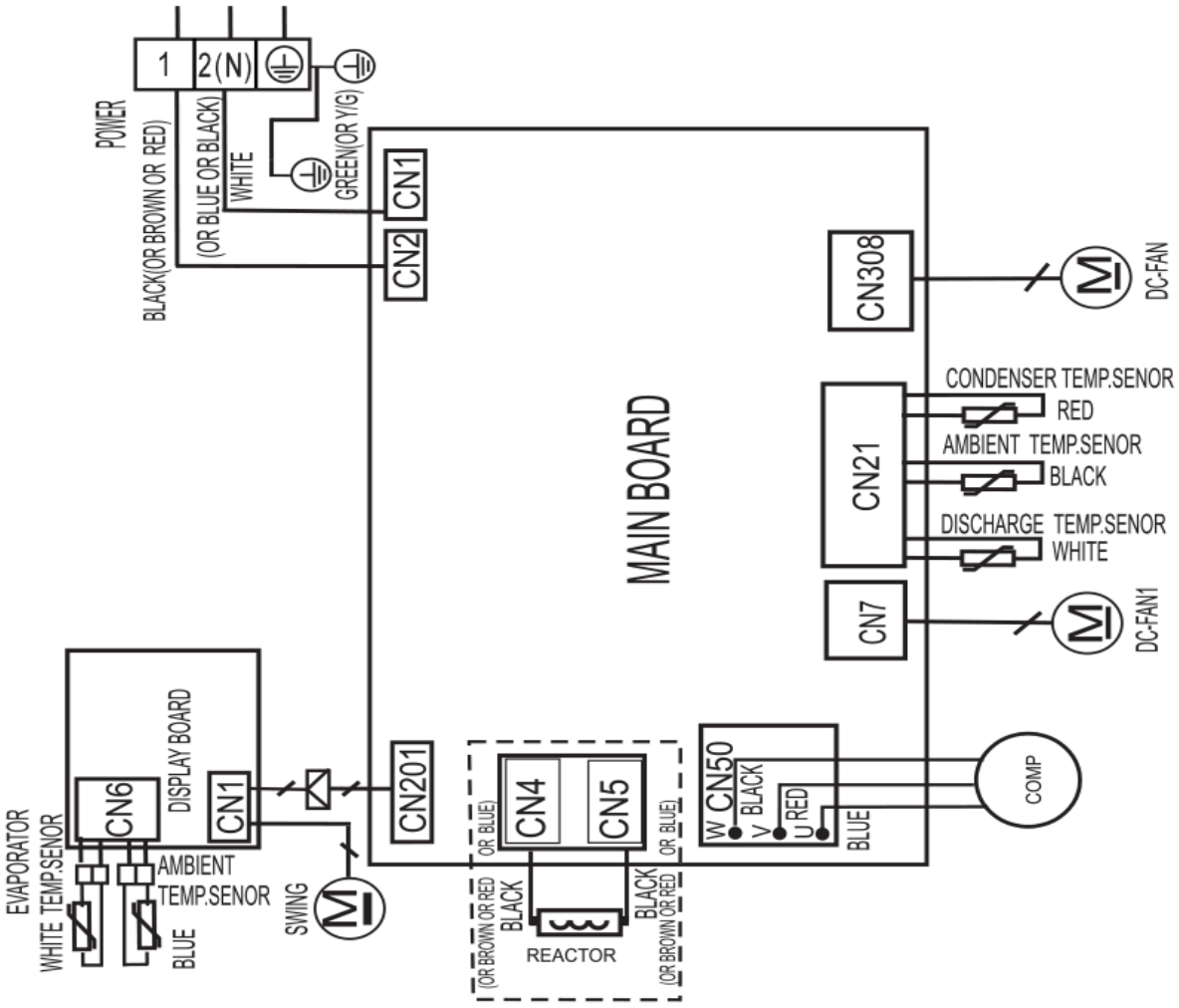
	FACR18VS-SA-BL	FACR18VS-SA-PS
Nominal Cooling (Btu)	18,000	18,000
Dehumidification (pint/h)	1.8	1.8
Applicable vehicle length (feet)	23	23
Refrigerant	R32	R32
Charge (Oz)	18.34	18.34
Roof top Unit Dimensions (L x W x H) (inch)	29 x 29 ½ x 14 ½	29 x 29 ½ x 14 ½
ELECTRICAL		
Volts/Frequency	115V~/60Hz/1Ph	115V~/60Hz/1Ph
Power Watts (Cooling)	1330	1330
Amps (Cooling)	14A	14A
Power Cord Gauge Min. (mm²)	AWG12	AWG12

WIRING DIAGRAM

⚠ DANGER

Electrical Shock Hazard

- Disconnect power before servicing. Failure to obey this warning could result in death or serious injury.
- Provide grounding in compliance with all applicable electrical codes. Failure to obey this warning could result in death or serious injury.



NOTES

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