

8K ROOFTOP AIR CONDITIONER WITH ELECTRONIC CONTROL

MODEL (LIPPERT PN)

FACR08HESA2-BL (2024006030) FACR08HESA2-PS (2024006031)

INSTRUCTION MANUAL



ADB: FACT12SA2-PS
Control Box: FACC10ESSA2-BL
(Sold Separately)

* Pictures shown here are for reference only.

Thank you for purchasing this Furrion® Chill™ Rooftop Air Conditioner. Before operating your new product, please read these instructions carefully. This will ensure safe use and reduce the risk of injury. This instruction manual contains information for installation, operation, maintenance of the product and safe use.

Please keep this instruction manual in a safe place for future reference. Be sure to pass on this manual to any new owners of this product.

The manufacturer does not accept responsibility for any damages due to not observing these instructions.

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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
- This appliance is intended to be used in the recreational vehicle
- 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

Handling the Device

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.

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.

- 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

- Risk of Fire: Flammable Refrigerant used. To be repaired only by trained service personnel. Do not puncture refrigerant tubing.
- Risk of Fire: Dispose of properly in accordance with Federal or Local regulations. Flammable refrigerant used (R32)
- 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 that they do not play with the appliance.
- If a component part is damaged, it must be replaced by the manufacturer, its service agent, or similar qualified persons to avoid a hazard.
- Follow local regulations regarding disposal of your air conditioner due to flammable refrigerant and gas. All air conditioner products contain refrigerants, which under the guidelines of federal law must be removed before disposal. It is the consumer's responsibility to comply with federal and local regulations when disposing of this product.

Handling Electrical Cables

WARNING

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

CAUTION

- Refer to NEC (National Electric Code) for proper sizing of wire gauge (AWG) based on cable length and overcurrent protection rating that is supplying 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.
- 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.
- This air conditioner works with only a certain set of ADBs and controls, which are approved with use of flammable refrigerants. Contact Furrion for further details before purchase or use.

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.

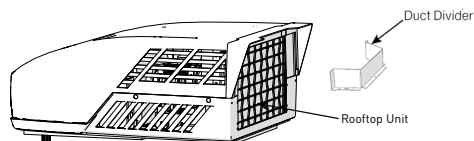
⚠ WARNING

- Risk of Fire: Flammable Refrigerant used. Prior to beginning work on air conditioner systems, safety checks are necessary to ensure that the risk of ignition is minimized. The work area around the unit is to be surveyed to make sure that there are no flammable hazards or ignition risks, including cigarette smoking.
- Risk of Fire. Installation, storage, and operation of the appliance in confined spaces shall be avoided (floor area must be $> 11 \text{ ft}^2$).
- Do not install in an unventilated space if it is smaller than 11 ft^2

What's in the Box

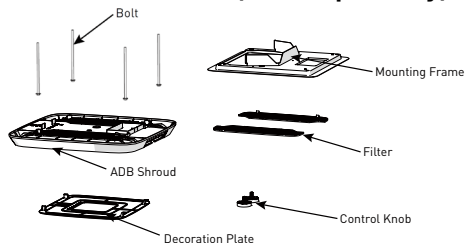
Open and remove the components from carton. Make sure you have all the following items included in the packaging, if any item is missing, contact your dealer.

Rooftop Air Conditioner:



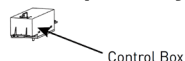
- Rooftop unit x 1
- EPE Air Duct divider x 1

Air Distributor Box (sold separately):



- Bolt x 4
- Mounting Frame x 1
- Air Distribution Box (ADB) Shroud x 1
- Filter x 2
- Decoration Plate x 1
- Control Knob x 2
- Self-tapping Screws x 4
- Instruction and Warranty Manual x 1

Control Box (sold separately):



- Control Box x 1
- Self-tapping screws x 2

Choosing Proper Location for the Air Conditioner

IMPORTANT: 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:

- Using the existing roof vent opening in the vehicle roof.
- 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:

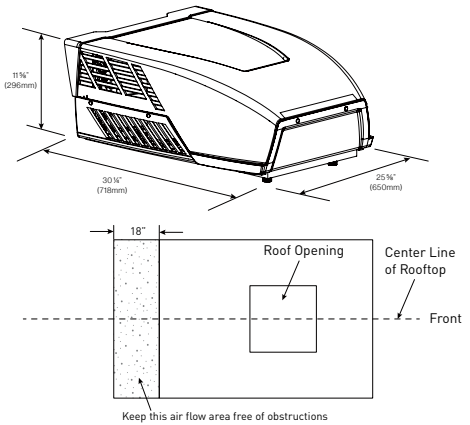
- For one unit installation - the air conditioner should be mounted slightly forward of center (front to back) and centered from side to side.
- For two unit installations, install one air conditioner one third from the front of the RV and the other air conditioner two thirds from the front of the RV, 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.

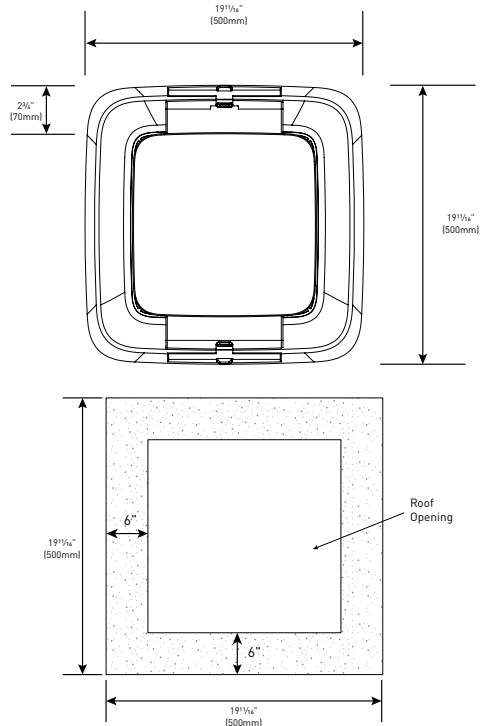
NOTE: A 15° slant to either side or front to back is acceptable for all units. If the roof exceeds 15° please use an exterior leveling shim to make air conditioner level.

After the Location Has Been Selected:

- Check for obstructions in the area where the air conditioner will be installed.
- Ensure that the ventilation holes for this air conditioning system are not obstructed or blocked.



- 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.



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

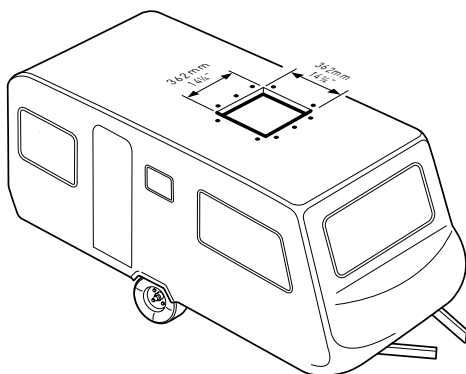
- Make sure there are no obstacles inside the RV roof, floor and walls, such as wires and pipes.
- Shut off the gas supply and disconnect the 115VAC power from the RV before drilling or cutting into the RV. Failure to obey these warnings could result in death or serious injury.

Roof Thickness

The installation of air conditioner suits for roof thickness from 3" (75mm) to 6" (152mm). For other thickness, please contact Furrion or Furrion authorized service agent.

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.

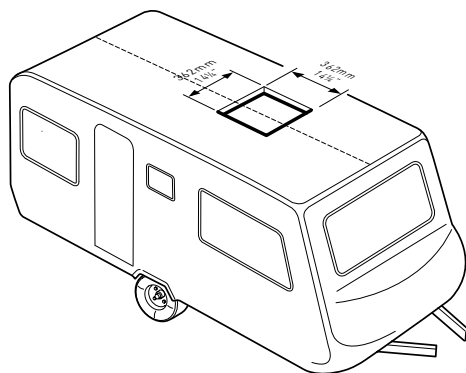


Making a New Opening

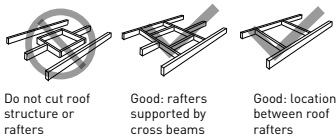
If a roof vent opening will not be used, a 14¼" x 14¼" (+½") (362mm x 362mm) opening must be cut through the roof and ceiling of the RV. This opening must be located between the roof reinforcing members.

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.

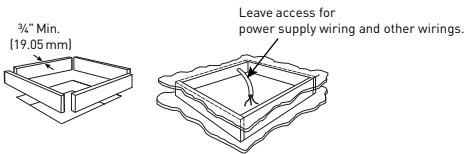
1. Mark a 14¼" x 14¼" (+½") square on the roof and carefully cut an opening.



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.



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.



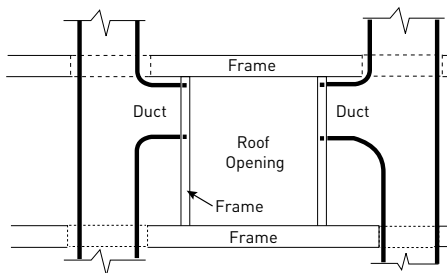
Air Distribution Duct Sizing and Design

The installer of this system must design the air distribution system for their particular application.
NOTE: Make sure ductwork will NOT bend or collapse during and after installation, and that it is correctly insulated and sealed. Otherwise, damage to roof structure and ceiling could occur. The following requirements must be met for properly operate the unit:

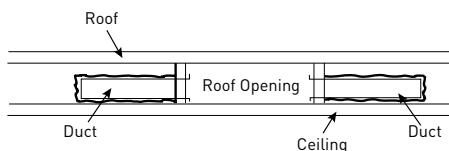
Roof Cavity Depth	3"-6" (75mm-152mm)	
Duct Cross Sectional Area	21 Sq. In. Min.	
Duct Size	Depth	1½" Min. - 2½" Max. (38mm Min. - 63.5mm Max.)
	Width	7" Min. - 10" Max. (178mm Min. - 254mm Max.)
	Total Duct Length	15Ft. Min. - 40Ft. Max. (4.5m - 13m)
	Duct Length (short run)	¼ Total Duct Length
Register Requirements per A/C Unit	Number Required	3 Min. - 8 Max.
	Supply Register Free Air Area	14 Sq. In. (90 sq. cm)
	Return Register Free Air Area	40 Sq. In. (258 sq. cm)
	Distance From Duct End	5" Min. - 8" Max. (127mm Min. - 203mm Max.)
	Distance From Elbow	15" (381mm)
Total System Static Air Pressure	Blower at High Speed, Filter & Grille In Place	0.55 - 1.10 In. W.C.

- Properly insulate and seal all discharge air ducts to prevent condensation from forming on their surfaces or adjacent surfaces during operation of the unit. This insulation must be R-7 minimum.

TOP VIEW
(BACK OF RV)



SIDE VIEW
(TOWARD BACK OF RV)



- Return air openings must have 80 square inches (516 square centimeters) minimum free area including the filter.
- Return air to the unit must be filtered to prevent dirt accumulation on the unit cooling surface.

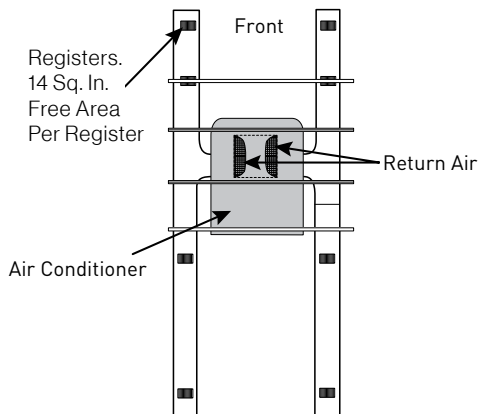
Air Distribution System Installation

It is the responsibility of the installer to review each RV floor plan to determine the following items in conjunction with “Air Distribution Duct Sizing and Design” section on Page 8.

NOTE: Alternate configurations and methods may be used which will allow the unit to operate properly, however, these alternate configurations and methods **MUST** be approved by Furrion in writing.

- Duct size
- Duct layout

- Register size
- Register location
- Thermostat location
- Indoor temperature sensor location (if applicable)



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 and 12VDC supply voltage, wall thermostat controller communication and furnace switch.

NOTE: The wire connections need to be positioned in the forward facing 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. Refer to the applicable electric code guidelines for sizing the appropriate wire gauge, length and type.
2. Route a 115VAC dedicated supply wire with ground from the time delay fuse to circuit breaker box to each roof opening.

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

NOTE: Refer to rooftop unit nameplate, applicable code, and specification chapter for proper installation.

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.

12VDC Supply

1. Prepare a 15 amp max protected circuit to supply power to all air conditioner units.
NOTE: The branch circuit can be dedicated or shared with other utilization equipment.
2. Extend circuit with a 14AWG 2-wire, (12V+, 12V-) to the roof opening.
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.

Wall Controller Connection (Single and Multizone Thermostat)

1. Prepare 4 wires to connect between the ceiling controller (roof opening) and wall controller/thermostat (wall opening).
NOTE: 18AWG max should be used, Furron recommends using a standard thermostat wire with at least 4-wires.
2. Terminate with at least 15" (381mm) of wire end for easy connection.
3. For Multizone installations, prepare additional wiring of the same type to connect between each roof opening.

Furnace Switch (Optional)

1. If required to operate the furnace using the air conditioner wall controller/ thermostat, prepare 1-wire to connect the desired ceiling controller (roof opening) to the furnace switch.
NOTE: This serves as a 12V+ line, that becomes hot only when the ceiling controller closes the furnace switch to turn the furnace on.
2. Terminate with at least 15" (381mm) of wire at each end for easy connection.

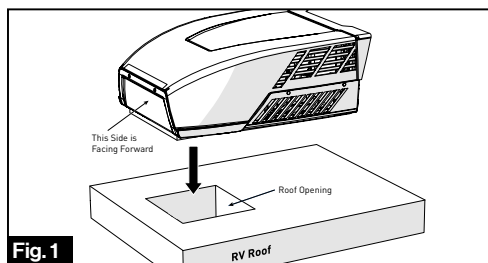
Installation

Installing the Rooftop Unit

⚠ CAUTION

- The rooftop unit weighs approximately 100 pounds (45 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.

1. Grasp the bottom of two sides 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. (Fig. 1)



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

Installing the Wall Thermostat

There are 2 types of wall thermostat (sold separately) for you to select.

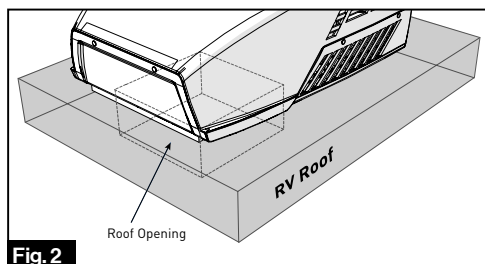
- FACW10ESSA2-BL: Single zone basic wall thermostat
- FACW12ESZA2-BL: Multi zone wall thermostat

Based on the wall thermostat version you selected. Please refer to the separate instruction manual on how to install the wall thermostat to the RV.

Mounting and Sealing

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. (Fig. 2)



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. (Fig. 3)

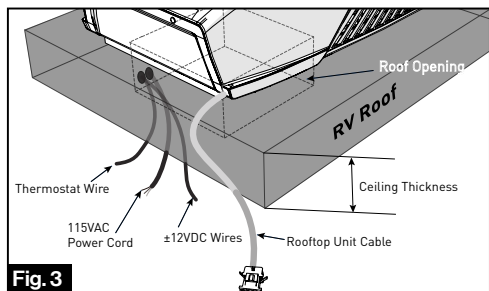


Fig. 3

3. Install the assembled mounting frame and the duct divider into the rooftop opening. Make sure the "THIS WAY FRONT" mark is facing front (the direction of the vehicle) while installing. (Fig. 4) Trim duct divider to provide tight seal.

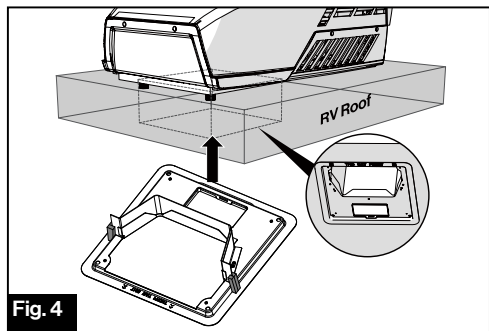


Fig. 4

4. Fix the assembled mounting frame and duct divider into the rooftop unit using 4 bolts provided. (Fig. 5)

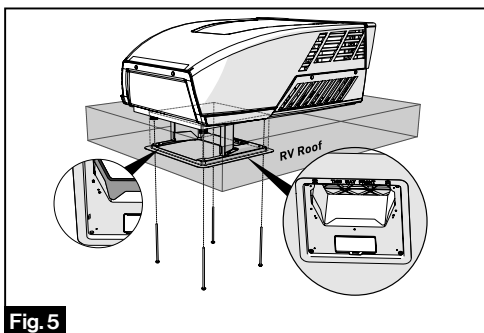


Fig. 5

NOTE: Tighten bolts until the white indicators are touching the top of the roof, approximately 40-50 inch pounds and 9/16" gasket compression.

5. Make sure the duct divider is compressing the top foam on the base of the unit, and compress to divider to ensure a positive retention. (Fig. 7)

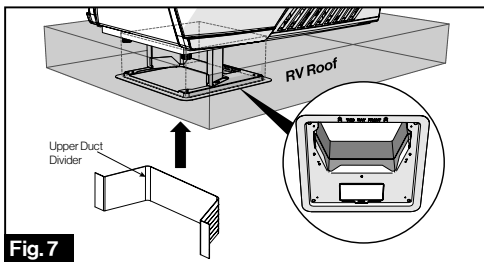


Fig. 7

- Use self adhesive foil tape to seal all remaining gaps around the duct divider, PE foam and roof opening, completely sealing duct edges as required. (Fig 8)

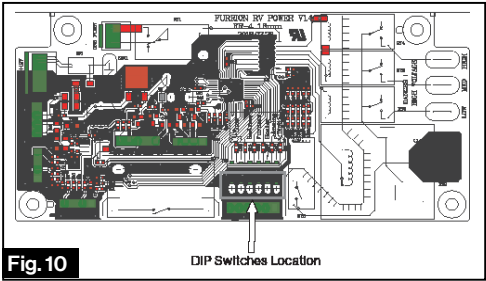
NOTE: Clean metal surface with a degreaser to ensure good adhesion of the foil tape.

DIP Switches Settings

- The DIP switches enable / disable the wall thermostat's communications with the PCB board and controls to the functions of Zone Selection (for multi zones model), Heat Pump, Furnace, Electric Heat of the air conditioner.
- No default settings for DIP switches. If forgetting to set the DIP switches or setting them incorrectly, the corresponding function can not be enabled through the wall thermostat.

Location of the DIP Switch

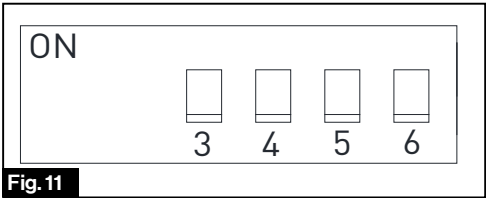
The DIP switches are located on the PCB board of the control box. Each time you want to set the DIP, you should open the control box and find the DIP switches. (Fig. 10)



Setting DIP Switches

Using a small tool, slide the dip switch to either ON/OFF. When setting dip switches, make sure all 120Vac and 12Vdc power to the control board is removed. If 12V is present when making a setting change, It will be is necessary to cycle power to reset the control to make the setting active.

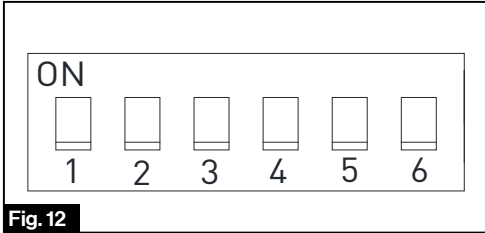
Single Zone DIP Switches:



Heat Pump (selected models)	DIP 3	Reserved	
Furnace	DIP 4	OFF	Furnace Off
		ON	Furnace On
Electric Heat (selected models)	DIP 5	OFF	Heat Strip Off
		ON	Heat Strip On
Analog / Digital	DIP 6	OFF	Digital
		ON	Analog

Multi Zones DIP Switches:

- For the settings of DIP switches of multi zones, each zone has its independent control box while sharing the same one wall thermostat with each other.
- You should define the name of each zone separately as zone 1, 2, 3, 4 by setting the DIP 1 and DIP 2 to avoid repetition and communication conflicts.
- If you define the zones repeatedly to the same name, the wall thermostat can only recognize and control one zone, the other one is uncontrollable.



Zone Selection*		DIP 1	DIP 2	ZONE Setting
		OFF	OFF	ZONE1
		OFF	ON	ZONE2
		ON	OFF	ZONE3
		ON	ON	ZONE4
Heat Pump (selected models)	DIP 3	Reserved		
Furnace	DIP 4	OFF		Furnace Off
		ON		Furnace On
Electric Heat (selected models)	DIP 5	OFF		Heat Strip Off
		ON		Heat Strip On
Analog / Digital	DIP 6	OFF		Digital
		ON		Analog

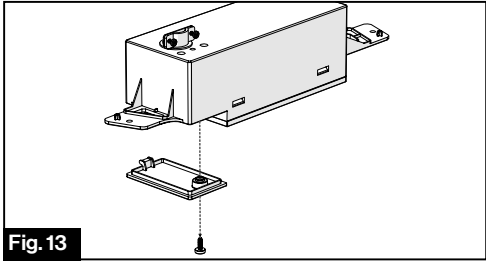
Wire Connection - Digital Furrion Wall Controller/Thermostat

⚠ DANGER

Electrical Shock Hazard

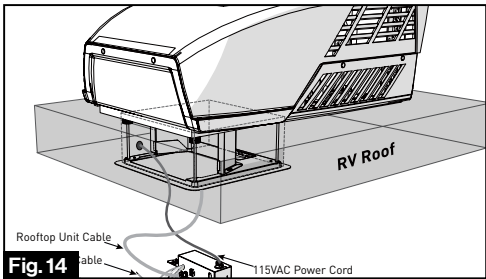
- Disconnect power before servicing. Failure to obey this warning could result in death or serious injury.
- Provide grounding in compliance with all applicable electrical codes. Failure to obey this warning could result in death or serious injury.

1. Remove the cable compartment cover using a Phillips screw driver. (Fig. 13)



2. Familiarize yourself with the ceiling controller and wire harnesses. (Fig. 14)

NOTE: The analog cable is not used and positioned out of the way when the air conditioner unit is connected with a Furrion wall controller/thermostat.



- Loosen the strain relief and compartment cover of the control box and pass the 115VAC power cord through the strain relief hole and re-tighten the cable clamp until properly restrained. (Fig. 15)

NOTE:

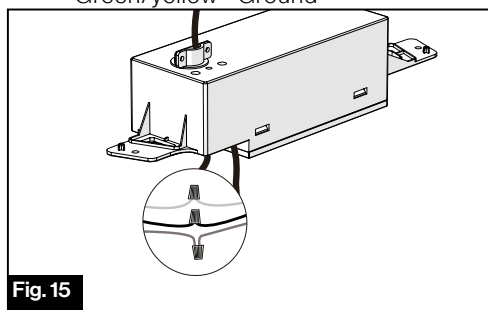
Do not over tighten.

Make wire connections following the below color codes. (Fig. 15)

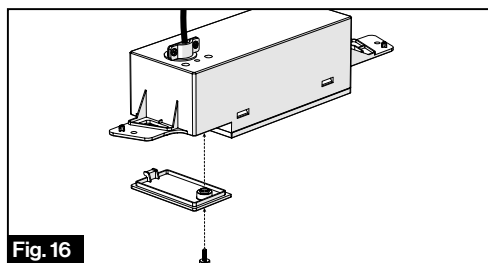
Black - Hot

White - Neutral

Green/yellow - Ground



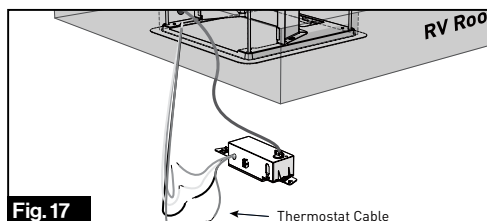
- Fit all cables into the cable compartment and tuck any excess wires up out of the way. Tighten the cover with screw. (Fig. 16)



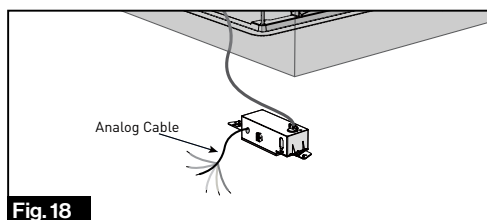
- Find the four thermostat cables of the control box (red, green, blue and purple), which are tied together and tagged with "To wall thermostat". And then connect them with the corresponding wires of the wall thermostat. (Fig. 17)

WARNING: Do carefully find out the four thermostat cables to avoid color

crossing, otherwise the control box could be malfunction or even on fire.



- For the multizone air conditioner units, connect the corresponding wires of each control box with the corresponding wires of the same bundle of the wall controller/ thermostat.
- Connect the analog cables with other brand wall controller/ thermostat (optional). The analog wire, grouped by six wires (red, blue, green, yellow, white and black) in a large strip and tagged separately, provides you an option to connect the control box with an external wall controller (if applicable). For detail connection, please refer the instructions of the external wall controller. (Fig. 18)



- Find the 12V DC power cable (red, tagged with "12 VDC") and ground cable (black, tagged with "Ground (12VDC)") of the control box, which are tied together. And then connect them with the corresponding wire of the RV. (Fig. 19)

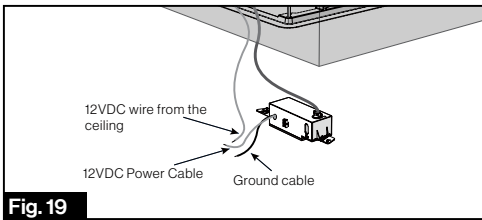


Fig. 19

9. Find the furnace cables of the control box, which are two separate grown wires tagged with "FURN". And then connect them with the corresponding wires of the rooftop unit. (Fig. 20)

NOTE: No distinction of positive or negative ends of the furnace wires of the control box. They can be connected freely with that of the rooftop unit.

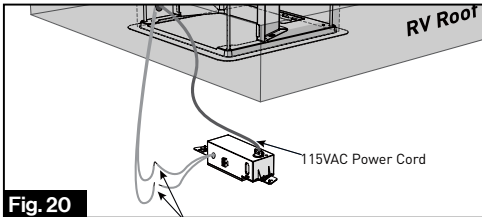


Fig. 20

Final Installation

1. Install the control box into the mounting frame and fix with 2 self-tapping screws (one piece each side). (Fig. 21)

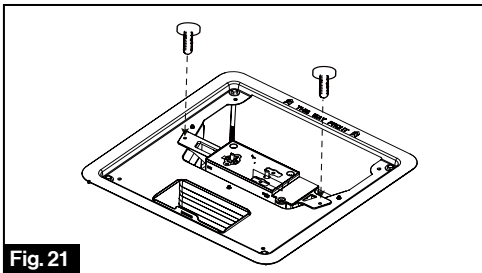


Fig. 21

2. Stick the freeze sensor onto the center bottom of the evaporator about $1\frac{3}{16}$ " (30mm) depth. Then fix it with the clamp. (Fig. 22)
3. Extend the Room Temperature sensor into the middle of the return air stream. Be careful to not let the sensor touch the metal frame or plastic grill.

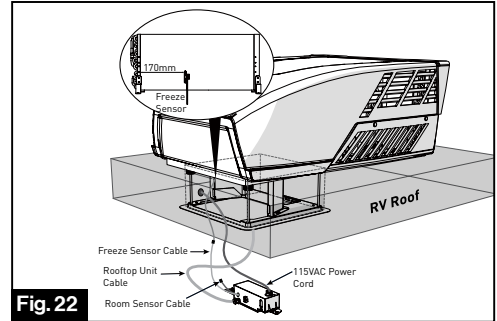


Fig. 22

4. Connect the LED cable (optional) from the ADB shroud to the control box (white strip, tagged with "LED"). (Fig. 23)

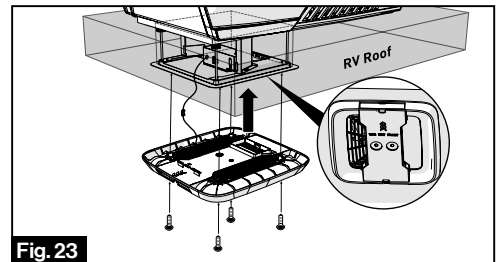


Fig. 23

5. Install the Air Distribution Box (ADB) shroud over the mounting frame and fix with 4 self-tapping screws.

NOTE: Make sure the "THIS WAY FRONT" mark is facing front (the direction of the vehicle) while installing. (Fig. 24)

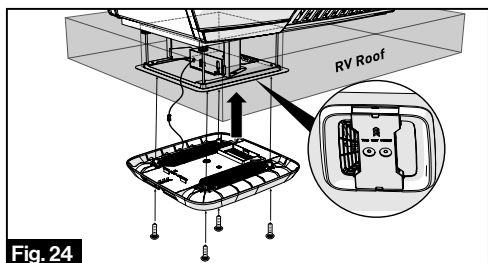


Fig. 24

6. Align the filter tabs with mating notches and push to snap the filters into the ADB shroud. (Fig. 25)

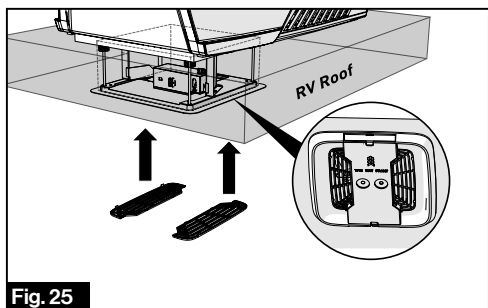


Fig. 25

7. Align the decoration plate tabs with the mating notches on the ADB shroud and push to snap the decoration plate into place. (Fig. 26)

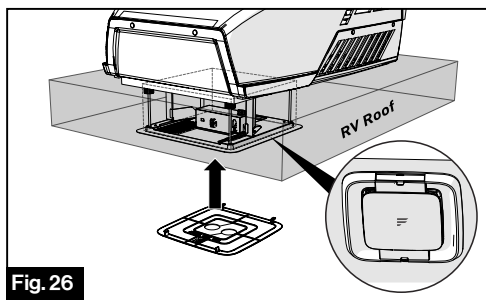


Fig. 26

8. Install the decoration plate back. Your new rooftop air conditioner has now been fully installed in the RV roof. (Fig. 27)

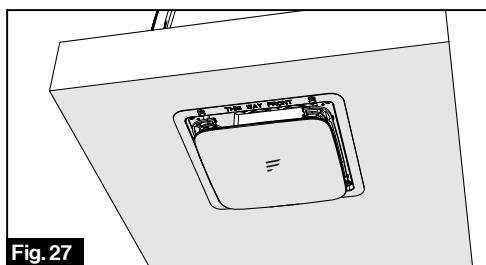


Fig. 27

Based on the wall thermostat version you selected. Please refer to the separate instruction manual on how to operate your RV air conditioning system.

Cleaning and Maintenance

Repairs and Maintenance

Only a qualified personnel or a certified service technician is permitted to carry out any repairs of the air conditioner.

- Before any maintenance disconnect the power source (e.g. by turning off the battery main disconnect switch or by removing the corresponding fuse in the fuse box) from your air conditioner before carrying out user maintenance on it.
- Repair and maintenance to electrical components shall include initial safety checks and component inspection procedures. If a fault exists that could compromise safety, then no electrical supply shall be connected to the circuit until it is satisfactorily dealt with.

Initial safety checks shall include:

- That capacitors are discharged: this shall be done in a safe manner to avoid possibility of sparking;
- That no live electrical components and wiring are exposed while charging, recovering or purging the system;
- That there is continuity of earth bonding.

Repair of components:

- Sealed electrical components shall be replaced.
- Intrinsically safe components must be replaced.

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.

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. If a leak is suspected, all naked flames shall be removed/ extinguished. A blocked filter will impair the cooling and heating performance of the unit significantly.

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.

To Recharge Refrigerant

Any repairs in the refrigerant system, including recharging or decommissioning must be carried out by a certified service technician. Flammable refrigerant used.

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 decoration plate from the air conditioning system by pushing the side tabs to release. (Fig. 28)

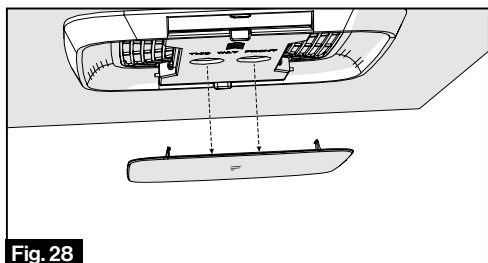


Fig. 28

2. Remove the filters by pushing the tabs to release. (Fig. 29)

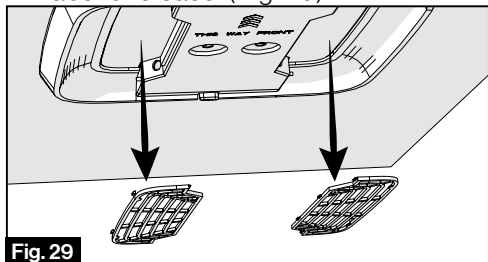


Fig. 29

3. The filter can be washed with warm soapy water. Care must be taken to avoid ripping the fabric.
 4. 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.

Troubleshooting

Problem	Cause	Remedy
Rooftop air conditioner Abnormal shutdown	Freeze sensor has tripped.	Outer temperature is too low or all air nozzles are closed.
Not cool enough	Refrigerant leakage	Contact an authorized service agent or Furrion (see the detail contact info at the back page of this manual).
	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).

Problem	Cause	Remedy
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

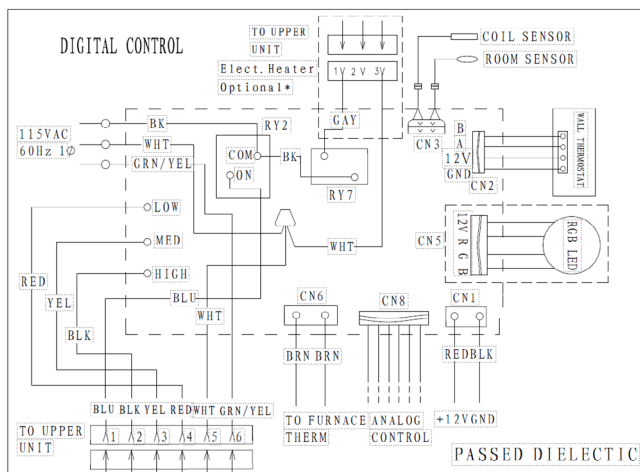
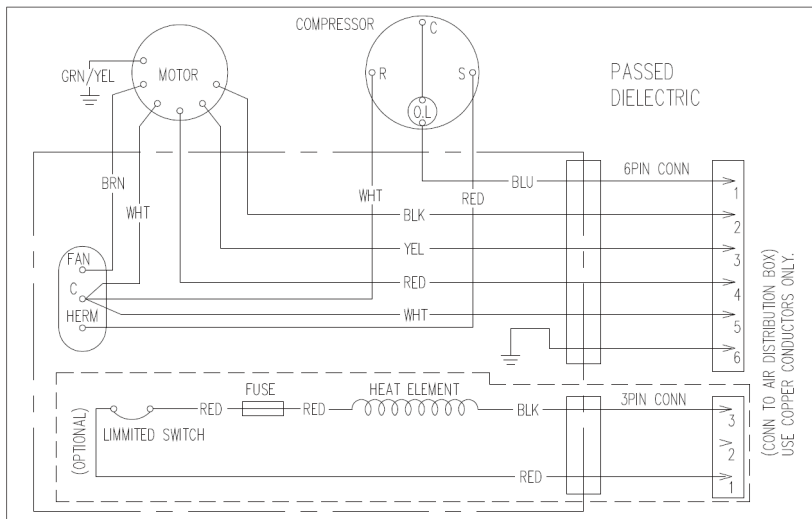
Specification	
PERFORMANCE	
Model Number	FACR08HESA2-BL FACR08HESA2-PS
Cooling Capacity (Btu/h)	8,000BTU
Dehumidification (pint/h)	1.04
Refrigerant	R32
Charge (Oz)	9.88
Roof top Unit Dimensions (W x H x D) (inch)	25 5⁄8" x 11 5⁄8" x 30 1⁄4"
ELECTRICAL	
Volts/Frequency	115V/60Hz/1Ph
Power Watts (Cooling)	932 Watts
Amps (Cooling)	8.2A
Power Cord Gauge Min. (mm²)	AWG14

Wiring Diagram

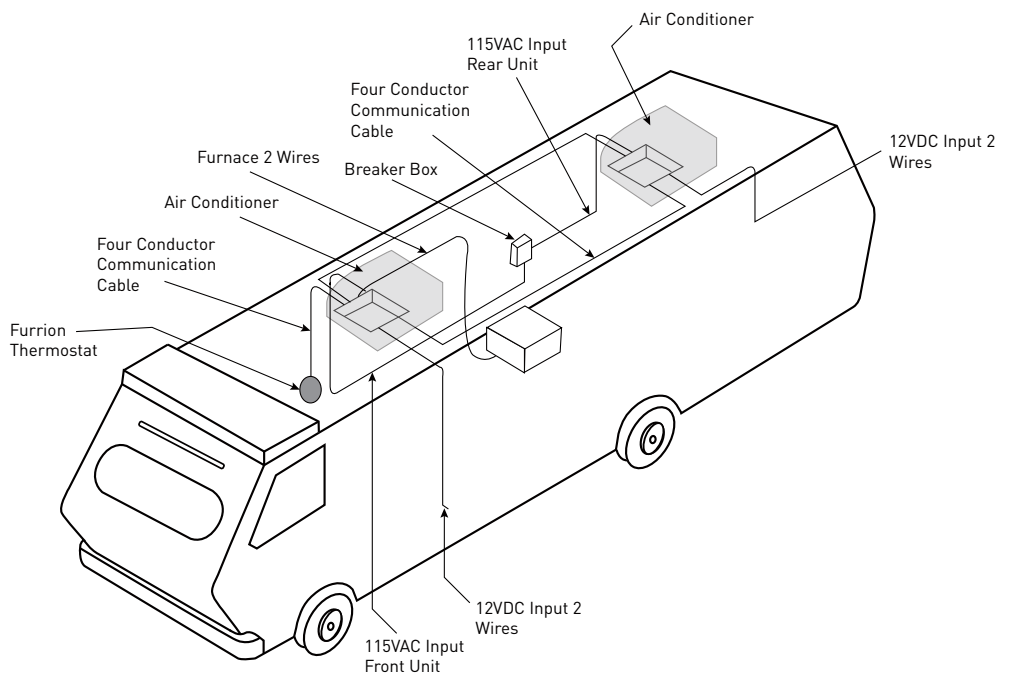
⚠ DANGER

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.



Multi Zone Wiring Diagram





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