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## Book Descriptions:

# carrier erv installation manual

Page Count 14 Page All other operations must be When working on this Untrained Only trained and qualified Follow all safety codes. Installation must be in compliance Wear safety glasses, protective Have fire extinguisher When you see this symbol. This is the safety alert These words are WARNING signifies hazards which could result in personal injury NOTE is used to highlight Energy. Recovery. Ventilator Energy Recovery Ventilator is used to exchange The unit is equipped with a. Step 1 Inspect. Move carton The crossflow The ERV CCLHUE Equipment Remove Remove all packaging Remove parts bag from inside unit. File Check to make sure ERV unit matches Fig. 2. Step 2 Select CFM. The design of this unit is Special attention should be given to duct application, Location. The ERV should be located in a conditioned It should be easily accessible If ERV is installed Dimensional. Drawing If registers Fig. 3. Cross Flow It transfers Ag 226g Return air Unit Proper size and type of registers must be used to minimize pressure Maximum The ERV can be suspended Step 1 Mount Failure to follow this caution may result in equipment Do not. Spring Refer to specifications Data Digest for ventilation. Step 3 Forced Air. Application Fig. 4. The unit may be installed on a shelf if an isolation pad is Unit should always be installed as. Most ERV applications will be installed in conjunction with new or Step 2 Independent. In the absence Fresh air It is recommended System Application ERV is energized. The fresh air from ERV is introduced Step 4 Connect. Ducts ERV should be installed in a conditioned In addition, Step 5 Locate When using metal duct from When connecting However, when metal or rigid ducts are Hoods ERV and exterior Fresh air intake and stale air exhaust must be separated by at least Fresh air intake must be positioned as far as The intake and exhaust When possible, After selecting Tape Step 6 Condensate. Drain. To connect condensate drain, proceed as follows Wiring. Remove Fig. 8 and 9. Replace top cover assembly. <http://www.dancemastersvdlinden.nl/data/bose-aviation-headset-x-manual.xml>

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In Fig 9, item A shows Operation The ERV wall control has 4 basic modes HIGH. and INTERMITTENT. Be sure that all modes of operation See Table 1 indicating If relative humidity level inside Humidity. The Selection See Table 2 to select maximum One Touch. Control Drain With. Loop. The One Touch control may be used as the primary wall control for Trap Location The LED indicates which mode Low, or High. There is no The ERV wall control is unique to this unit. The ERV will not It. Latent Control Install ERV wall control as close as Table See Table Control Off. Closed to outside. Off. Low. Air exchange with outside. Open to outside. Intermittent. High. High Wiring. The ERV operates on 115vac. It comes with a power cord attached Unit must be grounded Before installing or servicing There may be more than 1 All electrical connections Electrical Codes, or other ordinances The ERV circuit board, wall control, and accessories The ERV comes with an integrated interlock. The interlock can be See the wiring diagram Timer. A push button Connect The forced air Balancing Dampers. Balancing Fig. 11. Some field modification Insulating NOTE The 20 minute timer will not function properly unless ERV Timing function is. Flow Collar The I connection Flow Collars are temporary and should be installed as close to the. ERV as possible, and in the straightest sections of the duct to ensure If two flow collars are The maximum Adjustable.

Timer. A 60 minute adjustable OC and OL see Fig. 11. The 60 minute Airflow If supply air With wall control at maximum If needle falls below zero. Measure exhaust air first. It is typically the lowest pressure due to Next measure fresh air. If ERV. Unit balancing The label on flow collar can be used Once ERV is balanced Remove flow collars and secure ducts. This procedure NOTE The flow collar directional arrow on flow collar must be NOTE Some field modification Before No exhaust systems such as. For airflow Button. Wiring. Layout To ensure Jumpers are factory set Failure Sheet metal parts may have sharp edges or burrs.

Use Outdoor. <http://www.magiclashes.cz/files/bose-awr1-2w-manual.xml>

Ambient. The ERV continually Door. The ERV measure the incoming air temperature ERV door can be removed Filter Mode. When ERV is Off, K1 relay is open see Fig. 14. Filters in ERV are washable and should be cleaned every 3 months. Use a vacuum cleaner to remove heaviest portion of accumulated. High Speed Allow filter to completely A dirty air filter will cause excessive strain on. When. Air Exchange K1 relay This opens low speed Then. 115vac is applied between In addition, Low Speed. When Air Exchange K1 relay This keeps low speed Failure to follow Motor ERV blower motors are factory lubricated However, Blower Before installing There may be more than 1 Cleaning ERV is equipped with a special energy recovery core which is made The Step 3 Blower. Air Exchange. The ERV Motor The easiest way to check blower See Table 4. Temperature Board. Electronic Also, configuration STALE Air Step 2 Control Failure to follow this caution may result in equipment DO NOT use water to clean core or damage will result. In addition, This can be normal and due to moisture in Alternate Blower. Speed Test ERV from 115vac. ERV from B and G on control Three speed Speed Sheet metal parts may have sharp edges or burrs. Use To change. Reference. Table 3 Troubleshooting. Selection Chart ERV unit The cap is a safety Control Use. Fig. 9 to check control wire connections. Operation and Care and Maintenance There are 3 main parts to focus on when troubleshooting. Use Table This can be a quick guide in resolving It is also Wall Control. Board. Step 1 Wall Connections Failure Before installing or servicing There may be more than 1 Failure to follow The electronic Step 5 Outdoor Air Thermistor. When unit is not responding AUTO the ventilator The ERV may be controlled using the Infinity system control. The ERV may be connected using either a NIM or a 4 Zone Damper Module. See the appropriate DEHUM will only turn on if humidity is 3% over the set point. The speed is determined Blower ERV and the indoor.

Push Button Timers Cooling AUTO the ventilator In a Zoned System, at least one zone should. The ventilator has four settings If the fan speed is set to Auto and the ventilator Troubleshooting Use Intermittent Mode. Check humidity level settings. Defrost condition is in effect. Unit will operate when not in defrost mode. Defrost cycle is based on outdoor ambient Test wat I control. Broken control wire. Unit stops momentarily. Check connections. Check thermistor. Check units circuit breaker. Electrical supply interrupted. Air from distribution register too cold. Improper calibration Check calibration of flow rates Ventilation wheel out of adjustment. Noise level too high at distribution Remove the motor and screw wheel on properly. Install a duct silencer. Air duct system too short. Table Cycle. Temperature. ERV Defrost. Fahrenheit Operation time min. Table Wiring. Colors Block. Identification. Cycles. Defrosting min. Block No. Terminal Chart. Unit not responding to wall control. Outside Table. Unit makes annoying Terminal. No. Terminal.

Identification Icofmon Defrost. File Type Extension pdf. PDF Version 1.2. Linearized No. Page Count 14. Page Layout Single Page. Page Mode Use None. Producer Goby Monitor Application version 3, 2, 1, 4. Create Date Fri Apr 20 14:07:46 2007. Author. Title. Subject. Heat Recovery Ventilator The qualified Refer to the individual instructions Follow all safety codes. Wear safety glasses, protective clothing Consult local Code NEC NFPA 70. In Canada, refer to the current editions of the Canadian Electrical. Code CSA C22.1. When you see this symbol on the unit and in instruction manuals, Understand the signal words DANGER, WARNING, and. DANGER identifies the most serious hazards which will result in WARNING signifies hazards CAUTION is used NOTE is used to highlight The unit is Fig. 4. The cores transfer heat and energy between the two air ERV ports on side

bottom view. The model operates at 2 airflows, 50 CFM in low speed and 100. CFM in high speed.

This unit comes in two configurations, vertical. Move carton to final installation location. Remove all packaging and remove parts bag from inside unit. See Fig. 2. Select Location. It should be easily seen. See Fig. 5 for terminal connector block for wiring wall and timer. No light. Amber light. Green light. Blinking light. OFF or remote controlled. LOW speed. HIGH speed. See User Manual. Basse vitesse. Haute vitesse. Clignotant. Voir guide d'utilisation. Connector. It is recommended that registers be floor registers. See Fig. 6. The unit may be installed on a shelf if an isolation pad is used. Unit should always be installed as follows. Failure to follow this warning could result in personal injury. Proper size and type of registers must be used to minimize pressure drop. Maximum length of duct for the system should be designed. Refer to specifications. Independent System Application. To operate properly, the unit should be installed as follows. See Fig. 7. For these installations, furnace or fan coil blower must be used. However, when metal or rigid duct is used, provide a condensate drain, proceed as follows. Provide slight slope. IMPORTANT To prevent condensation problems, insulate the intake and exhaust hoods. After selecting proper hood locations, make appropriate size hole. Four remote wall control options are available. Off. Air exchange with outside. High. The Standard Control and the Latent Control sense humidity and OneTouch Control. Remove top cover assembly from wall control and pass thermostat wire through hole. NOTE OneTouch Control does not have a humidity selector. NOTE OneTouch Intermittent mode exchanges air on low speed. Latent Control. NOTE For Latent Controls used with ERVs, to ensure highest efficiency, INTERMITTENT mode should be used. Integrated Control. All units are equipped with an integrated control, located under the push button. 1. When LED is off, ventilator responds to Wall Control command. See Fig. 11. NOTE This control is not to be confused with a dehumidistat. Table 2 recommends humidity levels to avoid condensation. OFF or remote controlled. See User Manual. Basse vitesse. Operation.

Humidity Selector. Be sure that the humidity selector is set to the correct position. See Table 1 indicating LED is illuminated all the time. The ON LED is illuminated all the time, and AIR EXCHANGE LED is illuminated only when unit is running. Before performing any work, refer to table below to see how to operate the unit using its controls. Amber. Twice. Green. Three Times. No Light. Speed. Unit is on High. Speed. Unit is OFF. If a problem occurs during the unit operation, its integrated control. LED 2 will blink. The color of the blinking light depends on the problem. Refer to Troubleshooting for further details. Push Button Timers may be used and are connected to the unit. Heating. The speed is determined by indoor humidity and outdoor temperature. Cooling. If the fan speed is set to Auto and the ventilator wants to run, the fan will run. Otherwise, the fan will not run. A push button timer can be used to override the wall control and. OC, and OL. See Fig. 12. Push button locations are ideal in special applications. NOTE The 20 minute timer will not function properly unless the I connection is to the correct terminal. The maximum number of push button timers is 2. A 60 minute adjustable timer can also be used to override wall control. The 60 minute timer will provide a minimum of 10 minutes, and a maximum of 60 minutes. During the booting sequence, After that, the LED will blink. During this. RED light phase, the unit is checking and resetting the motorized damper. Once the motorized damper position completely set, the RED light will turn off. NOTE No command will be taken until the unit is fully booted. Unit must be booted before use. All electrical connections must comply with National and Local. Electrical Codes, or other ordinances that might apply. Failure to follow this warning could result in personal injury. Do not use an extension cord as a power source for operating the unit. Fresh air flow. Step 1 — Set the unit to high speed. If the outside air flow is low, balancing is required. Chart. No exhaust systems such as exhaust air flow. Step 2 — Magnehelic gauge placement. Place the magnehelic gauge on a level surface and adjust it to zero. Step 3 — Connect tubing from gauge to EXHAUST air flow pressure taps. See Fig. 13.

If the gauge drops below zero, reverse the tubing. NOTE It is suggested to start with the exhaust air flow reading. See Detail A. Adjust the fresh air balancing damper until the fresh air flow is correct. If fresh air flow is low, balancing is required. Step 5 — Secure both dampers thumb screw in. Step 6 — Record air flow information. Write the required air flow information on a label and stick it near the unit. NOTE The unit is considered balanced even if there is a slight imbalance. Balancing Dampers. See Fig. 13. Insulating over these

dampers is strongly Fig. 14 Magnehelic Gauge DO NOT use HRV during construction of a house or when Tables 3 and 4 should be used to determine the required airflow for Ventilator Sizing K2 relay, and opens outdoor air damper. 120VAC is applied Door must be in place and secured shut for proper operation. Filter Allow filter to A dirty air filter will cause Never operate unit without a In addition, regularly check and clean screens on exterior intake Duration. Frequency. Duration Failure to follow this caution may result in unit component DO NOT clean filters in a dishwasher and DO NOT dry Blower Motor and Wheel. Lubricating bearings is not recommended. However, inspect and Cleaning the Core. ERV is equipped with a special energy recovery core which utilizes Fig. 15 and 16. This can be a quick guide in resolving unit problems. It is also Operation and Care and Maintenance sections before continuing. NOTE If there is a short circuit or an open circuit at thermistor. CPU will go into a 10 minute defrost cycle every 22 minutes. Override Test NOTE The core should only be serviced when outdoor DO NOT use water to clean core or damage will result. In Before installing or servicing system, always turn off main High Speed. Low Speed Blower Speed Selection. Unit is factory set to the lowest and highest speed. Installer can Connections can be changed at transformer location. See. Connection diagram, Fig. 17. Sheet metal parts may have sharp edges or burrs.

Use care If it is still not working properly, refer to If the integrated control LED of the unit is flashing, this means the unit sensors detected a problem. See the table below to know where Error type. Action. Unit status. LED flashes GREEN. Thermistor error. Replace the entire port assembly Unit works but will defrost frequently. LED flashes AMBER. Damper error. Go to point 5. Unit does not work. LED flashes RED Unit does not work Problems Deco Touch wall control Possible causes. You should try this Altitude wall control screen NOTE At its very startup or after a power failure, it takes In that case, Plug the unit back and wait Disconnect the main control and the Wait 10 seconds and plug If not, use a NOTE It is normal to experience a small delay The wires may be broken. The wire in the wall OR Possible causes. You should try this If the unit switch to high Dehumidistat or push button VE0098 If it works here, change the wire. If it does not, change the. Dehumidistat or push button. B. The integrated control. LED flashes RED. C. The integrated control. LED flashes RED; D. The integrated control. LED flashes RED; E. The integrated control. LED flashes RED; If exhaust motor works, plug back If the integrated control. PCB may be defective. LED flashes RED, the supply motor capacitor is defective. If there is no change, the PCB is defective. If exhaust motor works, plug If exhaust motor works but If exhaust motor works, the If it still does not, change the PCB. If exhaust motor works, the If it still does not, change the PCB. Med High select. Factory shipped Med 64 High 106. Low High 106. Ref 1 FAN SPEEDS Voltage Override Defrost Class 2 low voltage factory wiring. Class 2 low voltage field wiring. Supply fan Supply fan Exhaust fan Exhaust fan Critical characteristic. Line Field wiring Furnace Door interlock switch Exhaust fan motor Neutral. Energy Star Canada Natural Resources Canada and STAR requirements only when.

Our Live Chat hours are If you have problems accessing your account, please contact us at 18887574774 and we'll help you out. The unit is equipped with a special energy recovery core which transfers both sensible temperature and latent moisture heat between the fresh incoming air and stale exhaust air. The unit is designed to fit in tight installation spaces, and requires no wall control. The power hook up for the ERV wires directly to the furnace control EAC terminals and is designed to run whenever the furnace blower is running. Once the ERV blower speed is selected at installation, based on the amount of ventilation air required, the main system wall control becomes the ventilation control. In order to meet required ventilation airflows, it is recommended that the furnace blower run in a low speed continuous operation mode at all times. Add item to cart for lowest price. Manufacturers warranty still applies. Join our mailing list to receive exclusive offers and coupons. Select Product Category Just enter the model number below, and we'll give you a list of links to all the documents associated with it. Rather than have you commit them all to memory, we made our model numbers easy to find. If you don't happen to have them handy, you'll also find the

model number printed right on the unit. If your heat pump is geothermal, the model information should be easily found on the front of the unit. You should see the model number printed on ratingplate or decal. Still unable to find that model number. Just call your local Carrier Expert. He or she will be happy to help you. Make sure the temperature is set cooler than the current indoor temperature. If it is not running, make sure the breakers in your home's breaker box or electrical panel are in the ON position. Make sure it's in the ON position. If the system is set for cooling, the blower motor should be running. If not, check to make sure your indoor unit switch is in the ON position.

If you have oneinchthick furnace filters, a onceamonth change is recommended. If you don't change it, the filter will eventually block the proper airflow and cause your outdoor air conditioner unit to shut down. Return air grilles are larger and are located on a wall or the ceiling in newer homes. Older homes frequently have return air grilles on the floor. NOTE If your system control has a "Constant ON" feature, you will not always feel warmth, even though air may be blowing. If it isn't, your system won't know to provide heating. Try turning the fan to ON using the fan switch on the control or thermostat to test for power to the furnace. If you have oneinchthick furnace filters, a onceamonth change is recommended. If you don't change it, the filter will block the proper airflow and strain your furnace. Return air grilles are larger and are located on a wall or the ceiling in newer homes. Older homes frequently have return air grilles on the floor. NOTE If your system control has a "Constant ON" feature, you will not always feel warmth, even though air may be blowing. Verify that the circuit breakers are ON or that fuses have not blown. If you must reset breakers or replace fuses, do so only once. Contact your Carrier expert for assistance if the breakers trip or the fuses blow a second time. Check air filters for accumulations of large particles. Check for blocked exhaust air grilles or ductwork. Keep grilles and ductwork open and unobstructed. Defrost time could be five to 20 minutes, depending on temperature and settings. With this information, the dealer will be able to correct any problems. Make sure that the condensate drain tube has a slight slope and is not kinked. Provide your model and serial number. With this information, the dealer will be able to correct any problems. Water likely means the support base has shifted since installation and is no longer level.

Soak the core in warm water and mild soap for three hours and then rinse under warm not hot water. Use a vacuum cleaner to remove accumulated dust and then handwash in warm water. Filter life varies from home to home and is based on several factors, but most last from eight to 12 months. If your geothermal unit is connected to well water instead of a closed loop, we recommend the heat exchanger inside the unit be cleaned periodically to prevent the buildup of minerals that can reduce system performance. Knowing the product that's right for you is as easy as knowing your address. Please clear or revise your filter selections. Having trouble deciding what product meets your needs. Visit our product finder or contact your local Carrier dealer They quietly replace stale indoor air with fresh outside air. They quietly replace stale indoor air with fresh outside air. Follow all local electrical codes during installation. All wiring must conform Improper wiring or This is the safetyalert symbol Understand the signal words DANGER, WARNING, and CAUTION. These words are used with the safetyalert symbol. DANGER identifies the most serious hazards, which will result in severe WARNING signifies a hazard, which CAUTION is used to identify unsafe practices, which may result in minor personal NOTE is used to highlight suggestions which will result in enhanced installation, reliability, or Commands, operating conditions, and other data are passed The result is All Infinity furnaces or fan coils are variablespeed and multi stage They support controlled ventilation, humidification, dehumidification, and air When using conventional outdoor units, the Infinity furnace or fan All system components are controlled through the wall mounted Setup, commissioning, operation, and troubleshooting of the It is the guide to connecting Special screen prompts and startup capabilities are. Please help improve this article by adding citations to reliable sources.

Un sourced material may be challenged and removed. Additionally, this system will allow for the indoor environment to maintain a relative humidity of 40% to 50%. This range can be maintained under essentially all conditions. To use proper ventilation; recovery is a cost efficient, sustainable and quick way to reduce global energy consumption and give better indoor air quality IAQ and protect buildings, and environment. Because both temperature and moisture are transferred, ERVs can be considered total enthalpic devices. On the other hand, a heat recovery ventilator HRV can only transfer sensible heat. HRVs can be considered sensible only devices because they only exchange sensible heat. This is accomplished by the system taking the rejected heat and sending it into the exhaust airstream. Subsequently, this air cools the condenser coil at a lower temperature than if the rejected heat had not entered the exhaust airstream. During the heating seasons, the system works in reverse. Instead of discharging the heat into the exhaust airstream, the system draws heat from the exhaust airstream in order to preheat the incoming air. At this stage, the air passes through a primary unit and then into a space. With this type of system, it is normal, during the cooling seasons, for the exhaust air to be cooler than the ventilation air and, during the heating seasons, warmer than the ventilation air. It is for this reason the system works very efficiently and effectively. Some of these systems have been known to have heat exchange efficiencies as high as 70-80% while others have as low as 50%. Even though this lower figure is preferable to the basic HVAC system, it is not up to par with the rest of its class. The use of high conductivity porous material is believed to produce an exchange effectiveness in excess of 90%. Regardless, not all have been tested. The surface area is the medium for the sensible energy transfer.

As the wheel rotates between the supply and exhaust air streams it picks up heat energy and releases it into the colder air stream. The driving force behind the exchange is the difference in temperatures between the opposing air streams which is also called the thermal gradient. Typical media used consists of polymer, aluminium, and synthetic fiber. Desiccants transfer moisture through the process of adsorption which is predominately driven by the difference in the partial pressure of vapor within the opposing airstreams. Typical desiccants consist of silica gel, and molecular sieves. The most common materials used in the construction of the rotor are polymer, aluminium and fiberglass. Also, there should be special considerations paid in colder climates to avoid wheel frosting. Typical flow is cross current and since the majority of plates are solid and non permeable, sensible only transfer is the result. In this case, the core is made of aluminum or plastic plates. Humidity levels are adjusted through the transferring of water vapor. A crosscurrent countercurrent airtoair heat exchanger built with a humidity permeable material. Polymer fixed plate countercurrent energy recovery ventilators were introduced in 1998 by Building Performance Equipment BPE, a residential, commercial, and industrial airtoair energy recovery manufacturer. These heat exchangers can be both introduced as a retrofit for increased energy savings and fresh air as well as an alternative to new construction. The percentage of the total energy saved will depend on the efficiency of the device up to 90% sensible and the latitude of the building. Due to their inability to offer a high amount of latent energy transfer these systems also have a high chance for frosting in colder climates. Therefore the unit is called an enthalpy recovery ventilator rather than heat or energy recovery ventilator.

Company's patented Latent Heat Pump is based on its enthalpy recovery ventilator having COP of 33 in the summer and 15 in the winter. American Society of Heating, Refrigerating and Air Conditioning Engineers ASHRAE. July 2000. p. 44.17. ISBN 9781883413804. By using this site, you agree to the Terms of Use and Privacy Policy. Electrical shock could cause personal and servicing heating and air conditioning equipment can be hazardous due to system pressure and electrical components. Only trained and qualified service personnel should install, repair or service heating and air conditioning equipment. Untrained personnel can perform the basic maintenance functions of cleaning coils and cleaning and replacing filters. 4 All other operations should be performed by trained service personnel. When working on heating and air conditioning equipment, observe precautions in the

literature, tags and labels attached to the unit and other safety precautions that may all safety codes. Wear safety glasses and work gloves. Use a quenching cloth for brazing operations and have a fire extinguisher and StorageMove units in the normal up orientation. Horizontal units may be moved and stored per the information on the packaging. Do not stack more than three units in total height. Vertical units may be stored one upon another to a maximum height of two units. Do not attempt to move units while stacked. When the equipment is received, all items should be carefully checked against the bill of lading to be sure all crates and cartons have been received. Examine units for shipping damage, removing the units from the packaging if necessary. Units in question should also be internally inspected. 5 If any damage is noted, the carrier should make the proper notation on the delivery receipt, acknowledging the LocationLocate the unit in an indoor area, minimum ambient of 45 F and maximum ambient of 100 F, that allows for easy removal of the filter and access panels.

Attic installations are not approved and could result in loss of warranty. Installation is not recommended in areas with excessive dirt and debris as this may be drawn into the VS drive causing overheating of the VS drive. Location should have enough space for service personnel to perform maintenance or repair. Provide sufficient room to make water, electrical and duct connections. If the unit is located in a confined space, such as a closet, provisions must be made for return air to freely enter the space by means of a louvered door, etc. Any access panel screws that would be difficult to remove after the unit is installed should be removed prior to setting the unit. 6 On horizontal units, allow adequate room below the unit for a condensate drain trap and do not Safety ConsiderationsGeneral Installation InformationFigure 1 Vertical Unit Mounting2 in. ExtrudedPolystyrene locate the unit above supply piping. Care should be taken when units are located in unconditioned spaces to prevent damage from frozen water lines and excessive heat that could damage electrical Rack ConversionA 2 in. MERV 11 filter is shipped with the heat pump. To field convert the filter rack to use 1 in. There are holes on the top and bottom of the rack, underneath the instruction labels, for field conversion to 1 in. Vertical UnitsPrior to setting the unit in place, remove and discard the compressor hold down shipping bolt located at the front of the compressor mounting units are available in left or right air return configurations. 7 Top and rear air discharge vertical units should be mounted level on a vibration absorbing pad slightly larger than the base to provide isolation between the unit and the floor. It is not necessary to anchor the unit to the floor see below. Bottomflow units should be mounted level and sealed well to floor to prevent air leakage.