

Isolation Dampers

Supplemental Installation Manual for Options

HE1XIN



HE1XINH shown

⚠ WARNING

Danger of Electrical Shock when installing dampers on an installed unit.

ALWAYS DISCONNECT POWER SOURCE BEFORE INSTALLING!

More than one disconnect switch may be required.

SAVE THIS MANUAL

UNIT INFORMATION

Record information as shown below.

In the unlikely event that factory assistance is ever required, information located on the unit label will be needed.

Locate the RenewAire unit label found on the outside of the unit.

OPTION CODE:

SERIAL NUMBER:

SO NUMBER:

Energy Recovery Ventilator **RenewAire**
Energy Recovery Ventilation
Toll Free: 800-627-4499

WARNING Danger of electric shock. Always disconnect power source before servicing. Not For Use in Cooking Area. Use Copper Supply Wires Only.

AVERTISSEMENT Danger de choc électrique. Toujours deconnecter la source d'alimentation avant les réparations. Ne Pas Utiliser Dans Une Zone De Cuisson. Utiliser Des Fil D'Alimentation En Cuivre.

Motors Thermally Protected / Moteurs protégés thermiquement					MOTORMOTEUR SPEC.		
POWER SUPPLY TO UNIT / Alimentation d'énergie à l'unité							
Voltage	Minimum Circuit Amps	Max Overcurrent Protection Device		Voltage	Qty & kW/HP	FLA	
208V	19.4	25		200-240	2@2.7 kW	8.6-7.2	
60 HZ 3 Phase Amp. Minimales de Circuit			Dispositif de protection maximum contre les surintensités				
Coil	Type	Rows	FPI	Max Pressure (psi)	Qty & kW/CV	APC	
Dehumidification	R410	3	14	460			
Re-heat	R410	1	11	460			
Heat	Steam	1	6	150			
Coil							
Option Code: DN-3-JINBH133-RS-EN2--L							
MODEL/MODELE: DN-3-JIN				Serial Number: L18 0001D			
SO#: 068519				JOF: 39376-0000			
Electric Heater/Chauffage Electrique							
Voltage/Phase		Amps		KW			
-		-		-			
Label No. 133995_000							

UNIT INFORMATION

TYPICAL UNIT LABEL

1.0 INSTALLATION	5
2.0 OPERATION	5
2.1 SEQUENCE OF OPERATION.....	5
2.2 COMMISSIONING.....	5
3.0 MAINTENANCE	6
3.1 TESTING AND REPLACEMENT OF DAMPERS AND ACTUATORS.....	6
4.0 TROUBLESHOOTING	6
5.0 FACTORY ASSISTANCE	6

1.0 INSTALLATION

Dampers are not factory installed but are factory wired.

Dampers for this model are designed for installation indoors.

Dampers for this model are designed to be installed at the Outside Air and Room Air locations (See air stream location stickers on side of unit).

Remove damper assembly from carton. The motorized actuator is pre-installed and needs no adjusting.

Secure damper assembly in appropriate manner.

Continue ducting the unit as described in the Installation and Operation Manual that came with the unit.

The damper actuators come wired with the appropriate low voltage wire plug.

Simply plug the wire connector from the end of the actuator into the wire plug in the unit.

Close inspection of the wiring connectors will reveal a notch in the actuator plug and a tab in the unit plug that need to line up for proper connection.

Use conduit, strain relief etc. as required by code to secure damper wiring.



NOTE: Position actuator for easy access.



NOTE: When insulating the duct around damper provide access to the damper actuators, which are located on the outside of the duct, so they can be serviced or inspected in the future.



NOTE: There is a proper orientation of these plugs in order for them to be correctly mated.

2.0 OPERATION

2.1 SEQUENCE OF OPERATION

At start-up: Once plugged in, when the ERV unit receives an external call for ventilation, the blowers should not turn on immediately. The isolation dampers are opening inside the duct. It will take less than 60 seconds for the dampers to open, at which point a low-voltage end switch in the actuator closes. The end switch calls on motor starter to turn on the blower motor.

At shut-down: When the ERV no longer calls for ventilation, the isolation dampers will begin closing. Once the dampers are approx. 75% from closure (15–20seconds), the end switches open, and the motors will stop.

2.2 COMMISSIONING

Check all dampers and insure they open and close properly and without binding. Apply power to motorized dampers to ensure the actuator opens and closes the damper as designed.

- Check for unobstructed operation.
- For indoor units, the dampers are located inside the ductwork attached to the unit. Therefore, check damper operation after installing the first lengths of ductwork that cover the damper, but before completing the ductwork and making it inaccessible.

⚠ CAUTION

Blowers may still be spinning.



NOTE: Isolation dampers are shut down and in the closed position when the unit is not operating.



NOTE: Isolation dampers return to the closed position if power to the unit is interrupted.

3.0 MAINTENANCE

Damper bearing are stainless steel and do not need lubrication.

3.1 TESTING AND REPLACEMENT OF DAMPERS AND ACTUATORS

If dampers fail to open at the signal for ventilation, disconnect power to the unit. To determine if the actuator is defective, disconnect the 24v power source. Connect the actuator directly to a known 24v power source with an appropriate cable. If the damper operates correctly, the problem is in the internal wiring connections.

If only one contactor is provided, the damper end switches are connected in series and both actuators need to be checked.

4.0 TROUBLESHOOTING

- Actuator: Refer to supplied Installation Instructions from manufacturer.
- Damper: Low air flow: Unit damper(s) not fully open, check for unobstructed operation. Clear any obstruction; re-tighten the actuator U-clamp; or replace damper actuator.
- Dampers open, but blowers don't run: check end switch closure.

5.0 FACTORY ASSISTANCE

In the unlikely event that you need assistance from the factory for a specific issue, make sure that you have the information called for in the Unit Information page in the Owner Information section of this manual. The person you speak with at the factory will need that information to properly identify the unit and the installed options.

To contact RenewAire Customer Service:

Call 800-627-4499

Email: RenewAireSupport@RenewAire.com

Remember that RenewAire Customer Service can only assist with the ERV and its options, it cannot resolve engineering issues that result from air handling system design by others.

THIS PAGE IS INTENTIONALLY LEFT BLANK





About RenewAire

For over 30 years, **RenewAire** has been a pioneer in enhancing indoor air quality (IAQ) in commercial and residential buildings of every size. This is achieved while maximizing sustainability through our fifth-generation, static-plate, enthalpic-core **Energy Recovery Ventilators (ERVs)** that optimize energy efficiency, lower capital costs via load reduction and decrease operational expenses by minimizing equipment needs, resulting in significant energy savings. Our ERVs are competitively priced, simple to install, easy to use and maintain and have a quick payback. They also enjoy the industry's best warranty with the lowest claims due to long-term reliability derived from innovative design practices, expert workmanship and **Quick Response Manufacturing (QRM)**.

As the pioneer of static-plate core technology in North America, RenewAire is the largest ERV producer in the USA. We're **committed to sustainable manufacturing** and lessening our environmental footprint, and to that end our Waunakee, WI plant is 100% powered by wind turbines. The facility is also one of the few buildings worldwide to be LEED and Green Globes certified, as well as having achieved ENERGY STAR Building status. In 2010, RenewAire joined the Soler & Palau (S&P) Ventilation Group in order to provide direct access to the latest in energy-efficient air-moving technologies. For more information, visit: renewaire.com

201 Raemisch Road | Waunakee, WI | 53597 | 800.627.4499 | RenewAire.com