**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:  

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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.

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 then 60 second 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.
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.
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