RenewAire
Energy Recovery Ventilation

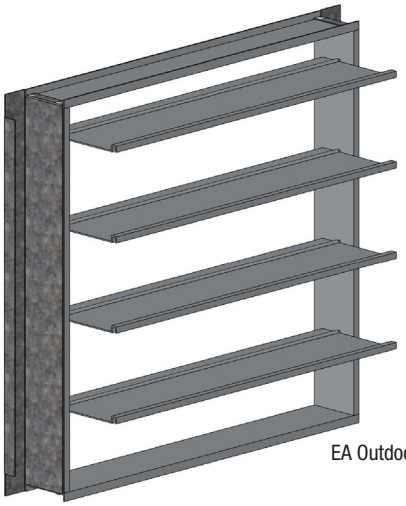
Backdraft Damper Kit

Supplemental Installation Manual for Accessories

HE1.5

OA Indoor
OA Outdoor

EA Indoor



EA Outdoor

TABLE OF ILLUSTRATIONS

1.0 OVERVIEW

1.1 DESCRIPTION

The backdraft damper's purpose is to minimize flow to or from the outdoors when the RenewAire Energy Recovery Ventilation (ERV) system is off.

For use with HE1.5 indoor and outdoor ERVs.

Each kit includes a backdraft damper in an easy-to-install mounting flange.

1.2 MATERIALS AND FEATURES

Backdraft Damper:

- Aluminum blades, extruded aluminum frame.
- Low pressure drop (See Figure 3.1.0).

2.0 SHIPPING/RECEIVING/HANDLING

2.1 UNIT DIMENSIONS

DIMENSIONS			
Kit	Height	Width	Depth
OA INDOOR	17.94"	17.94"	5.31"
EA INDOOR	17.94"	17.94"	5.31"
OA OUTDOOR	17.94"	17.94"	5.31"
EA OUTDOOR	17.77"	20.32"	5.06"

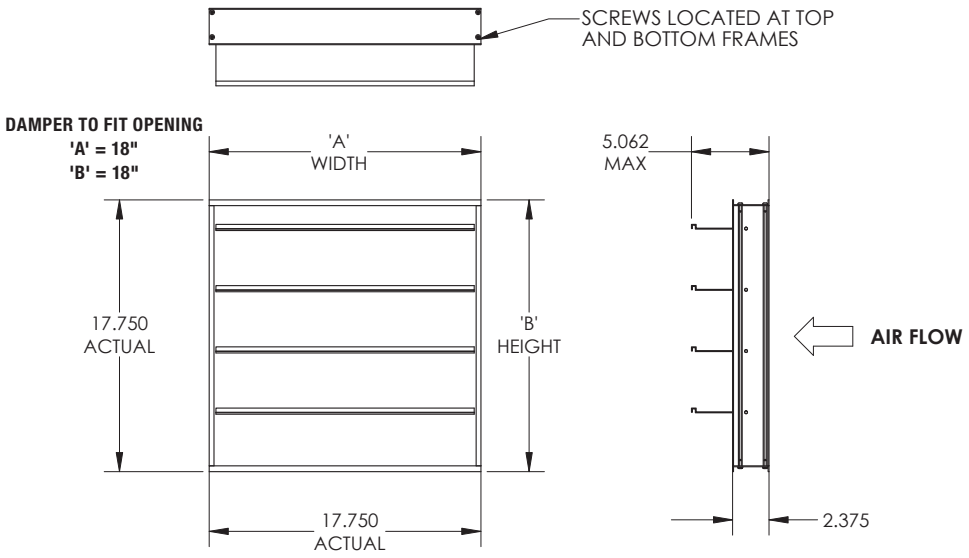


FIGURE 2.1.0 BACKDRAFT DAMPER BDD 18"

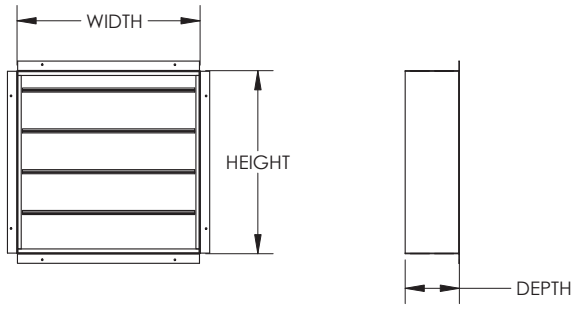


FIGURE 2.1.1 BACKDRAFT DAMPERS FOR OA AND EA INDOOR, AND OA OUTDOOR UNITS

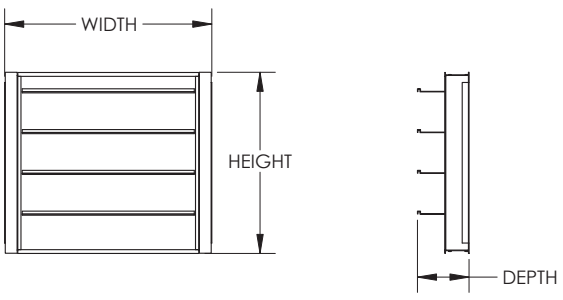


FIGURE 2.1.2 BACKDRAFT DAMPERS FOR EA OUTDOOR UNITS

3.0 INSTALLATION

3.1 BACKDRAFT DAMPER PRESSURE DROPS

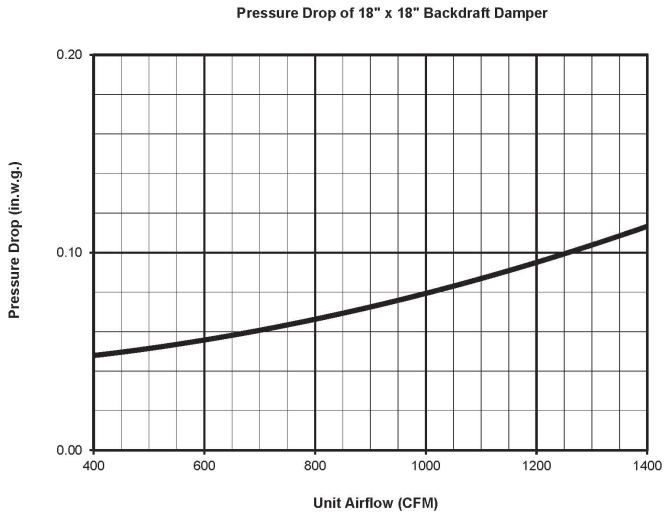


FIGURE 3.1.0 BACKDRAFT DAMPER PRESSURE DROP CHART

3.2 OA BACKDRAFT DAMPER, INDOOR

The OA Backdraft Damper is installed on the OA opening.

Use existing holes in the side pan to attach damper flange. Damper blades should open towards unit.

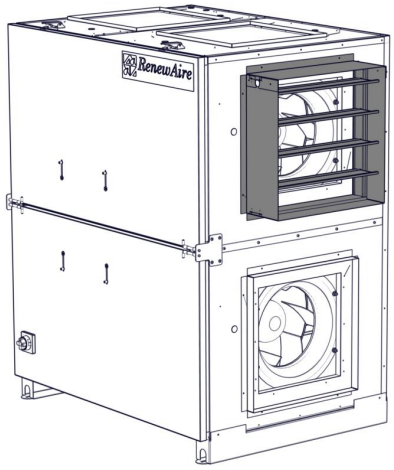


FIGURE 3.2.0 INDOOR OA BACKDRAFT DAMPER, HORIZONTAL CONFIGURATION

3.3 EA BACKDRAFT DAMPER, INDOOR

The EA Backdraft Damper is installed on the EA opening.

Use existing holes in the side pan to attach damper flange. Damper blades should open away from unit.

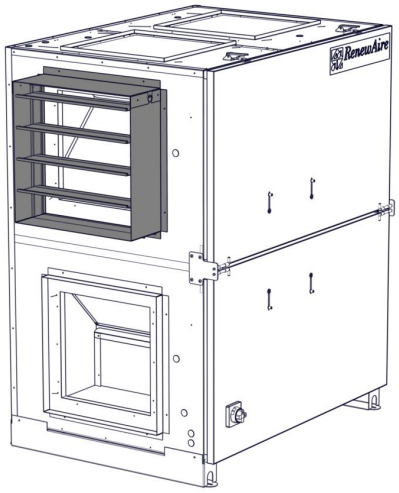


FIGURE 3.3.0 INDOOR EA BACKDRAFT DAMPER, HORIZONTAL CONFIGURATION

3.4 OA BACKDRAFT DAMPER, ROOFTOP

The OA Backdraft Damper is installed on the OA opening.

- Remove OA Hood from unit. Retain fasteners to use to reinstall hood.
- Locate OA Backdraft Damper and flange assembly on right side of unit as indicated.
- Attach flange to side of unit with #12 TEK screws with washers as provided, quantity (8).
- Reattach OA hood. Make sure top flange of hood goes under roof flange.

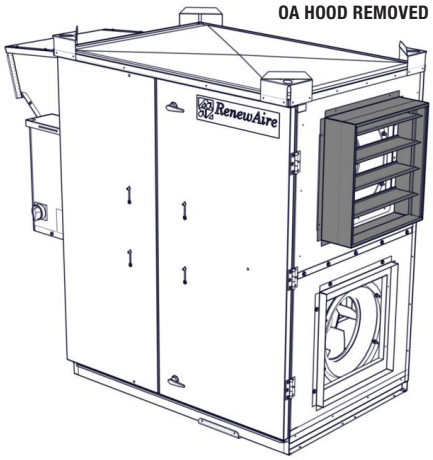


FIGURE 3.4.0 OA BACKDRAFT DAMPER

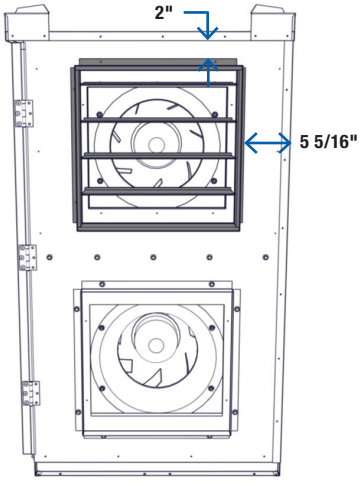


FIGURE 3.4.1 ROOFTOP OA BACKDRAFT DAMPER LOCATION

3.5 EA BACKDRAFT DAMPER, ROOFTOP

The EA Backdraft Damper is installed on the EA Hood.

- Remove EA Hood from unit. Retain fasteners to use to reinstall hood.
- Install backdraft damper and brackets assembly into EA hood. Back of damper frame should be flush with back of hood.
- Make sure backdraft damper louvers swing up and into hood to open.
- Drill holes in both sides of EA hood side pans at locations indicated.
- Attach backdraft damper and brackets to sides of EA hood with fasteners provided.
- Reattach EA hood to unit. Make sure top flange of EA hood goes under roof flange.

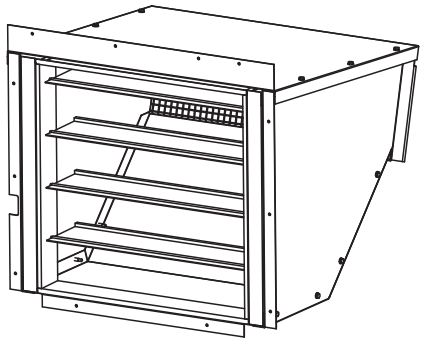


FIGURE 3.5.0 EA BACKDRAFT DAMPER INSTALLED IN EA HOOD

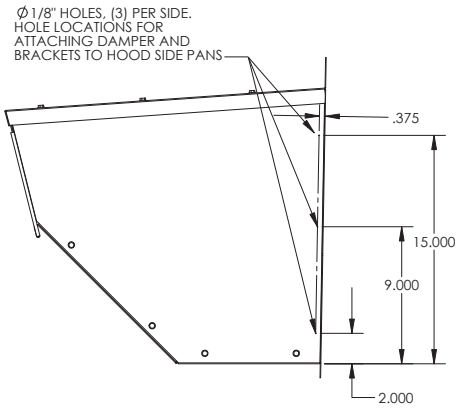


FIGURE 3.5.1 EA BACKDRAFT DAMPER ATTACHMENT LOCATIONS

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

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Soler&Palau Ventilation Group

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RenewAire® Energy Recovery Ventilation

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