

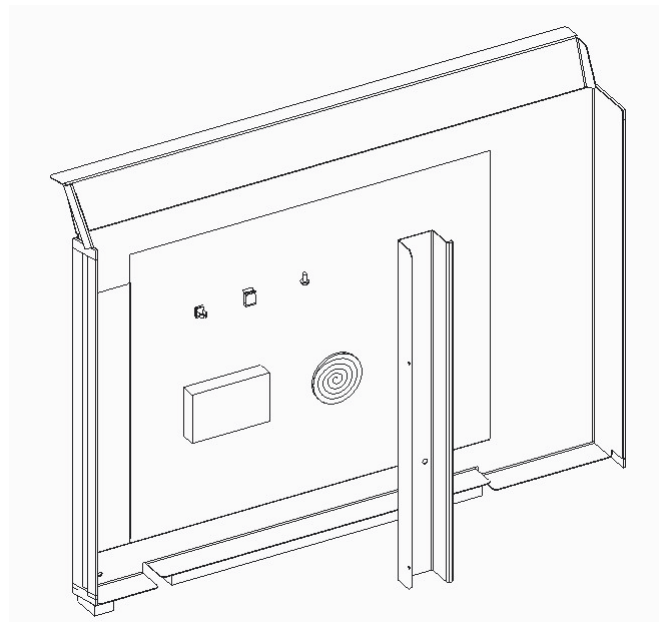
# Installer's Guide

## Filter Rack for ACCE and 5" Media Filters PKG Unit Applications

BAYACCEADP1A (Base-1 Kit for 024–036)  
BAYACCEADP2A (Base-2 Kit for 042–060)

### **IMPORTANT:**

- Horizontal Installations Only
- Not approved for Down Flow
- Cannot be applied in conjunction with economizers.



*Note: Graphics in this document are for representation only. Actual model may differ in appearance.*

### **⚠ SAFETY WARNING**

Only qualified personnel should install and service the equipment. The installation, starting up, and servicing of heating, ventilating, and air-conditioning equipment can be hazardous and requires specific knowledge and training. Improperly installed, adjusted or altered equipment by an unqualified person could result in death or serious injury. When working on the equipment, observe all precautions in the literature and on the tags, stickers, and labels that are attached to the equipment.

# SAFETY SECTION

**Important** — This document contains a wiring diagram, a parts list, and service information. This is customer property and is to remain with this unit. Please return to service information pack upon completion of work.

## **⚠ WARNING**

### **HAZARDOUS VOLTAGE!**

Failure to follow this Warning could result in property damage, severe personal injury, or death.

Disconnect all electric power, including remote disconnects before servicing. Follow proper lockout/tagout procedures to ensure the power cannot be inadvertently energized.

## **⚠ WARNING**

### **SAFETY AND ELECTRICAL HAZARD!**

Failure to follow this Warning could result in property damage, severe personal injury, or death.

These servicing instructions are for use by qualified personnel only. To reduce the risk of electrical shock, do not perform any servicing other than that contained in these operating instructions unless you are qualified to do so.

## **⚠ CAUTION**

### **GROUNDING REQUIRED!**

Failure to inspect or use proper service tools may result in equipment damage or personal injury. Reconnect all grounding devices. All parts of this product that are capable of conducting electrical current are grounded. If grounding wires, screws, straps, clips, nuts, or washers used to complete a path to ground are removed for service, they must be returned to their original position and properly fastened.

## **⚠ WARNING**

### **SAFETY HAZARD!**

Operating the unit without the access panels properly installed may result in severe personal injury or death.

Do not operate the unit without the evaporator fan access panel or evaporator coil access panel in place.

## **⚠ WARNING**

This product can expose you to chemicals including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)!

**Important:** *Wear appropriate gloves, arm sleeve protectors and eye protection when servicing or maintaining this equipment.*

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# General Data

The filter rack is used to hold Electronic Filters / 5" Media Filters in its position for applicable packaged units.

**Important:** The ACCE/Media filter TFD175CLAH000E or TFM17DA0FR must be ordered separately.

**⚠ CAUTION**

**Potential Coil Damage!**  
 In order to avoid possible coil damage, remove clips safely using the proper tools and avoid sharp edges with routing clips.

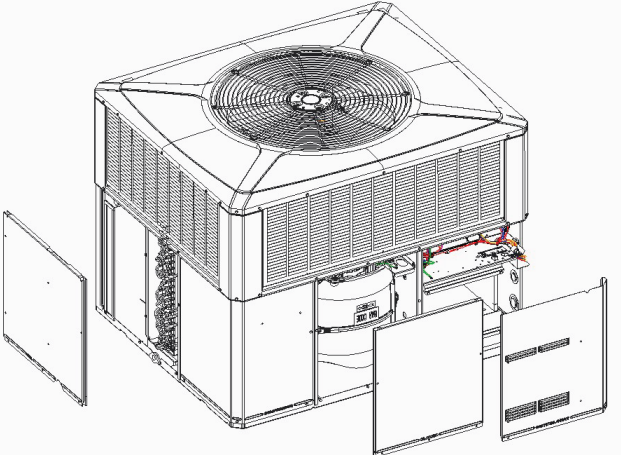
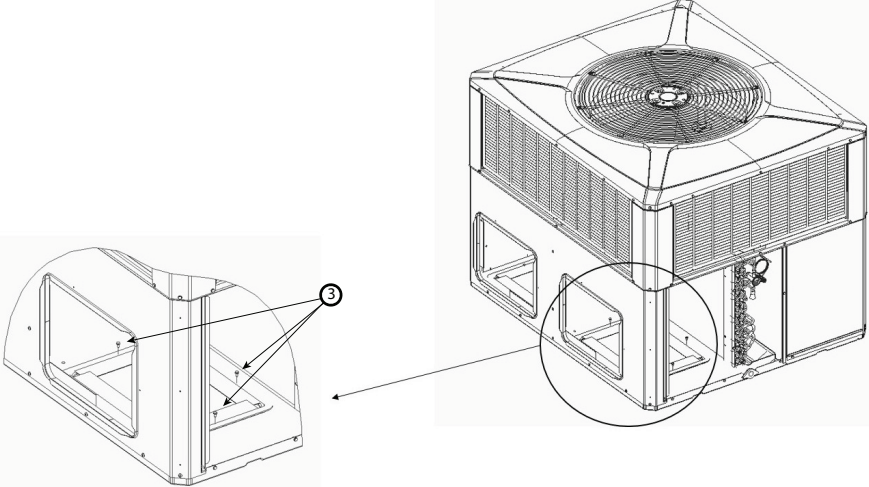
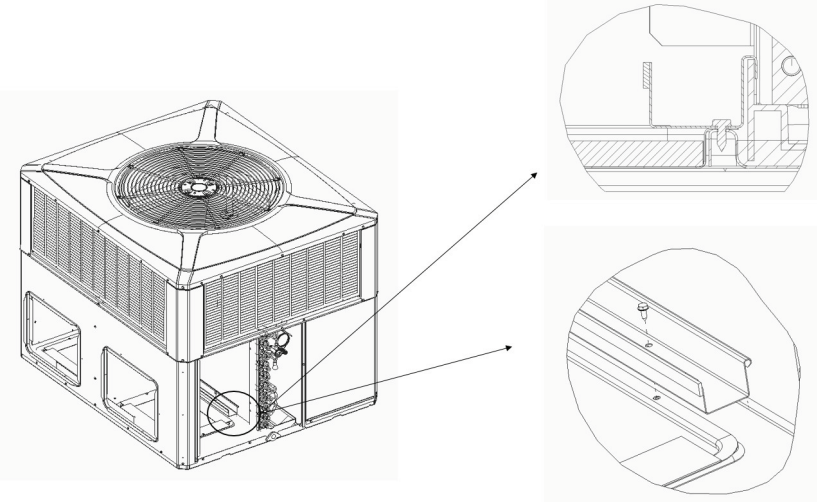
FILTER TYPE	FILTER MODEL #	USAGE BY SIZE
Electronic Filters	TFD175CLAH000E	Base-1 (024-036)
	TFD175CLFR000E	Base-2 (042-060)
5" Media Filters	TFM17DA0FR	Base-1 (024-036)
	TFM175B0FR	Base-2 (042-060)

**Table 1. Identify your Filter Rack Kit Contents**

<ol style="list-style-type: none"> <li>1. Filter Rack (1)</li> <li>2. Bracket Rail (1)</li> <li>3. Clips (5)</li> <li>4. Gasket (1-Roll) (Non-Gas Furnace Models Only)</li> <li>5. Wire Router (3)</li> <li>6. Gasket - Access Door / Side Panel (1)</li> </ol>	
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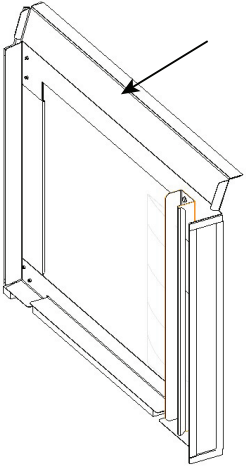
## Part A: Installation of ACCE Filter and Rack Assembly

Table 2. Preparing the unit

<p>Step 1: Remove all screws from the Service Panel and remove the panels as shown in the adjacent figure.</p>	
<p>Step 2: Remove three (3) screws from the Down Flow cutout opening as shown in the adjacent figure.</p>	
<p>Step 3: Hook the Base Channel over the drain pan and slide it to align with the hole in the down flow cutout where you previously removed a screw. Once the bracket rail is aligned with the hole, fasten it with the screw at that location.</p> <p><b>Note:</b> Ensure that the base channel is aligned straight.</p>	

# Rack Preparation and Assembly

**Table 3. Install Gasket**

<p>Step 4:</p> <p><b>Note:</b> This step is only for NON-Gas Furnace models. Apply gasket on top bracket of the filter rack as shown in the adjacent figure.</p>	 <p>The diagram shows a perspective view of a rectangular filter rack. A gasket is being applied to the top edge of the rack. An arrow points to the gasket, which is a thin, dark strip with a channel on its top surface. The gasket is being pressed onto a raised bracket on the top edge of the rack.</p>
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**Table 4. Inserting Filter Rack**

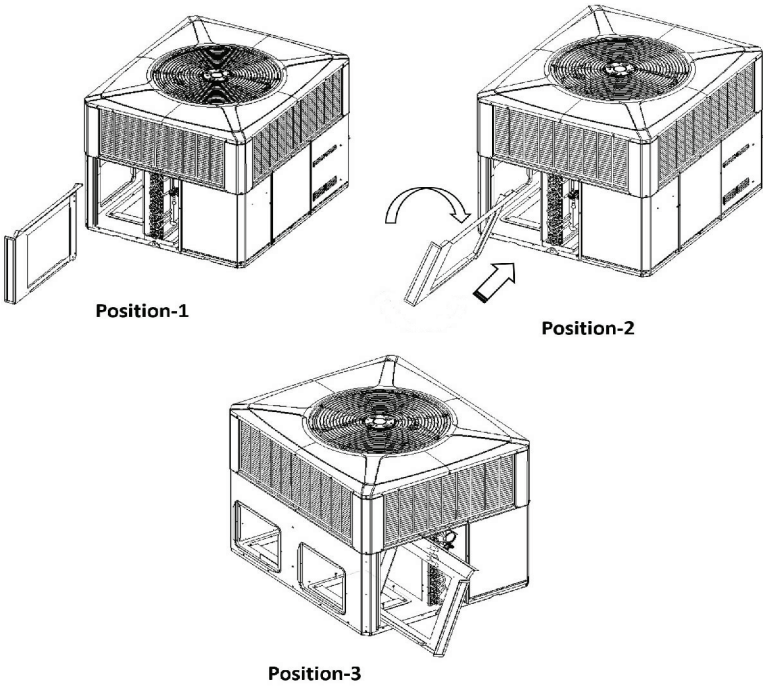
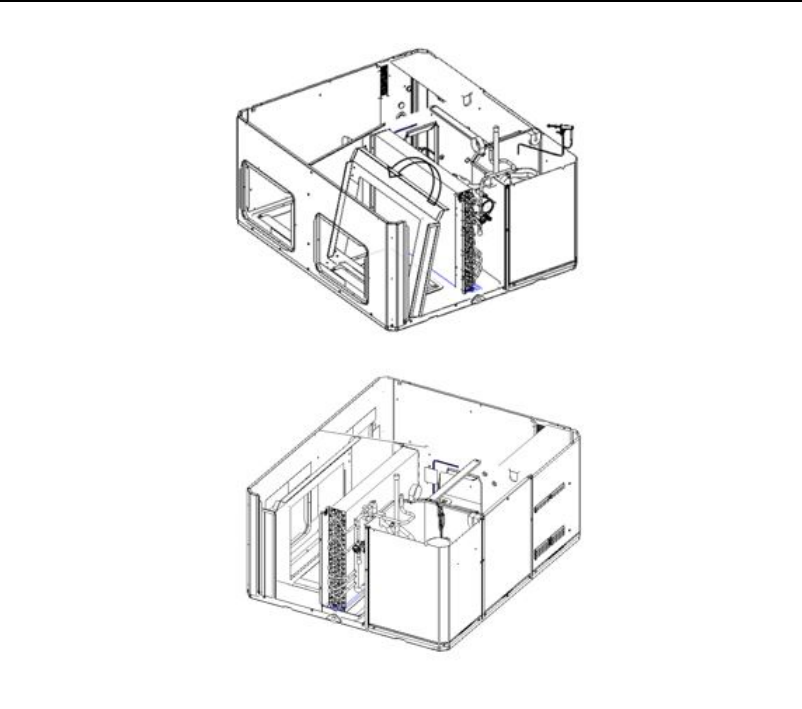
<p>Step 5:</p> <p>Rotate, position Filter Rack and install as shown in the adjacent images.</p>	 <p>The diagrams illustrate the process of inserting the filter rack into the furnace unit. The furnace unit is shown from a perspective view with its front panel open. The filter rack is shown in three positions:</p> <ul style="list-style-type: none"><li><b>Position-1:</b> The filter rack is shown to the left of the furnace unit, ready to be inserted.</li><li><b>Position-2:</b> The filter rack is being rotated and inserted into the furnace unit. A curved arrow indicates the rotation, and a straight arrow indicates the insertion direction.</li><li><b>Position-3:</b> The filter rack is fully inserted into the furnace unit.</li></ul>
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Table 5. Secure Final Bracket Location

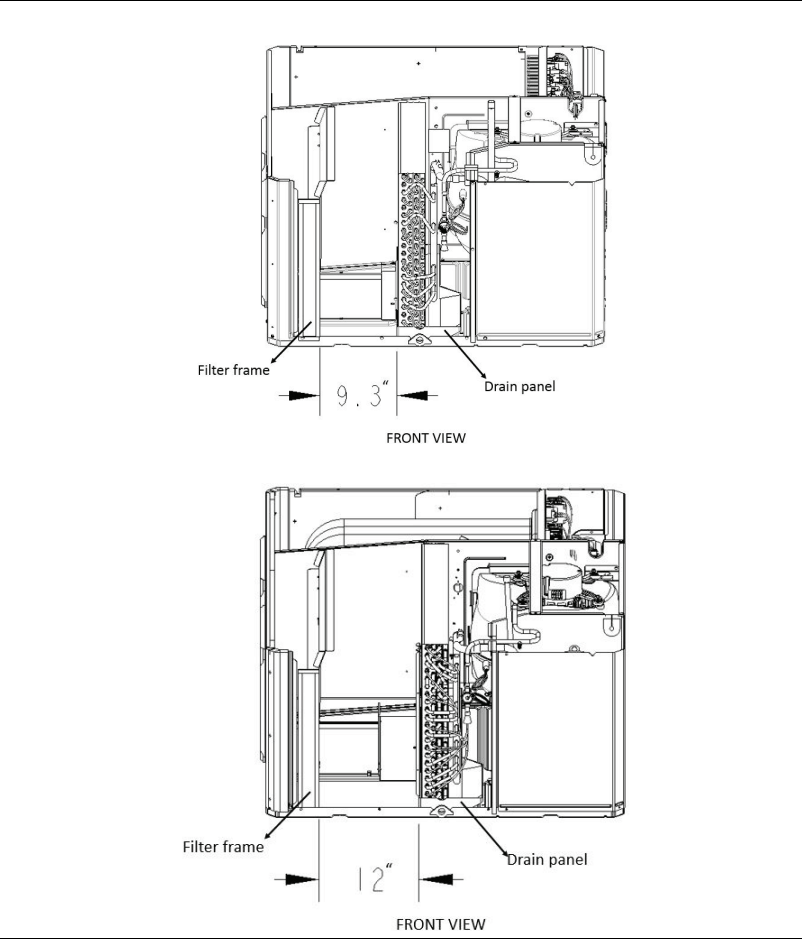
Step 6:  
Tilt the bracket straight as shown in the adjacent figure. Ensure the top bracket and far end are completely compressed to the unit with the side panel and top panel respectively.  
*Ensure there is NO GAP at top, bottom and sides of the filter rack with the unit.*

**Note:** The unit top has been removed from the images for representation only. Do not remove the top and OD coil to install the filter rack.

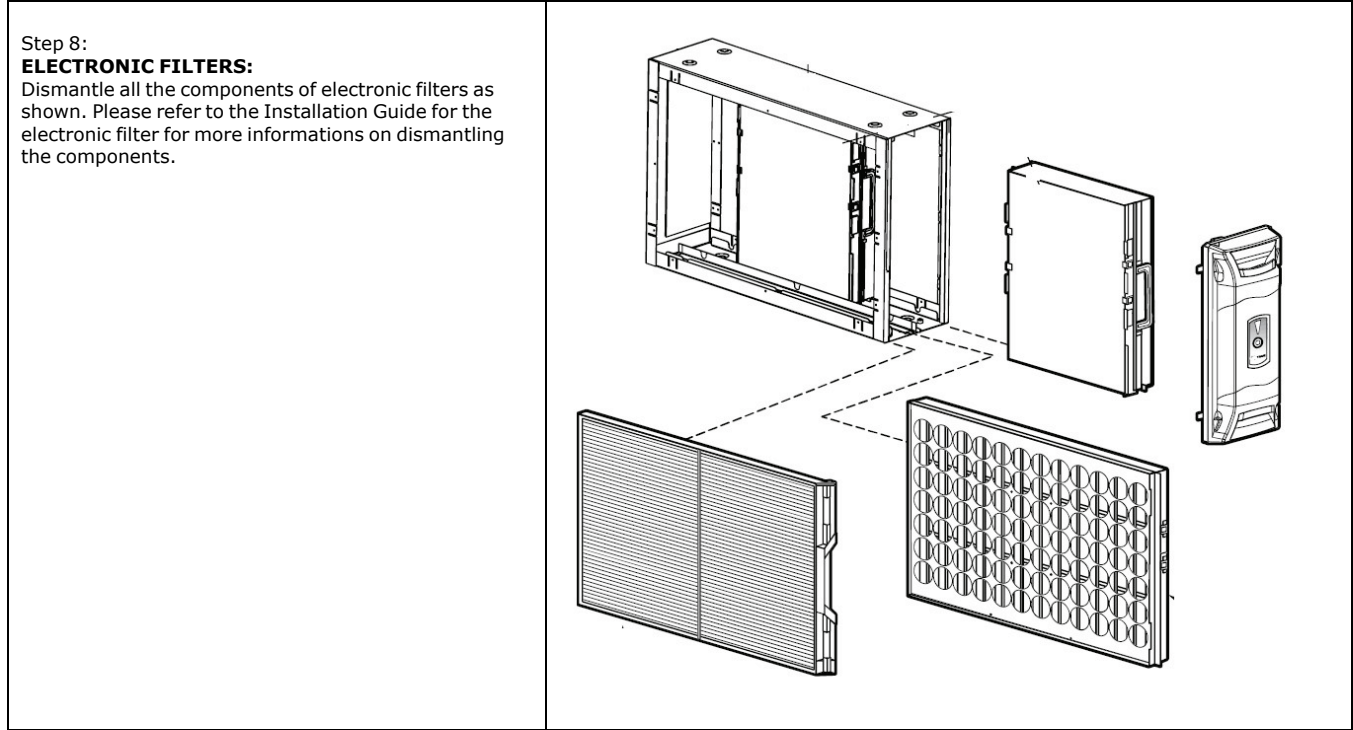


Step 7:

- BASE 1 (024 to 036) 9.3"
- BASE 2 (042 to 060) 12"



**Table 6. Dismantle ACCE Filter**



**Table 7. Inserting Filter Rack**

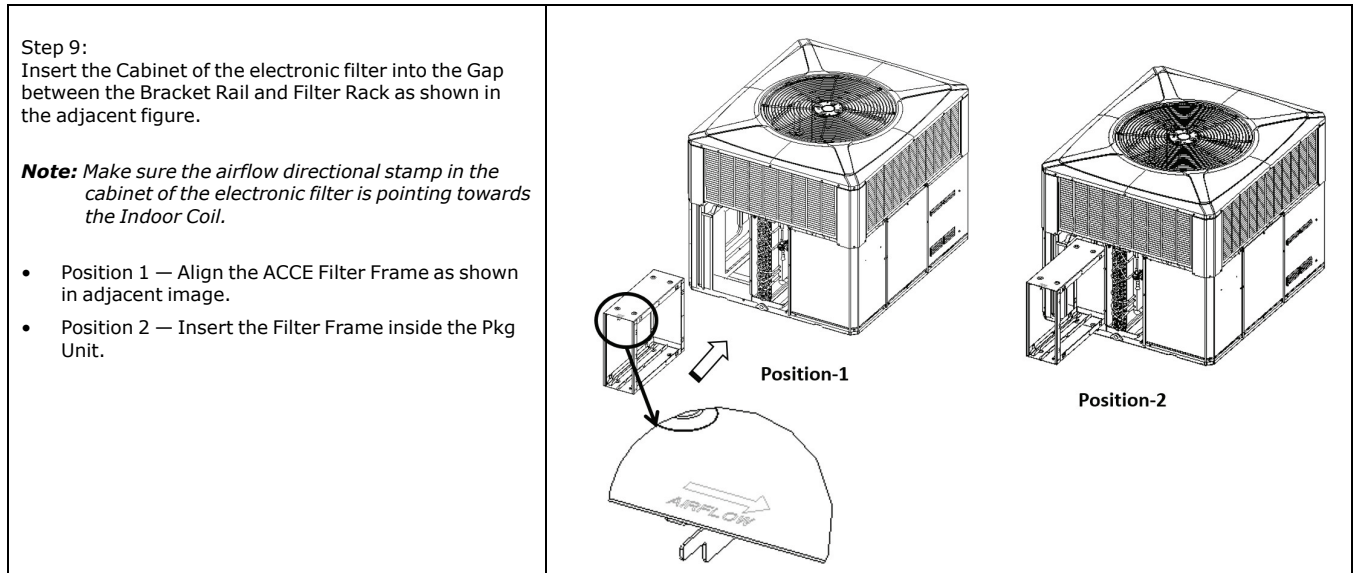




Table 8. ACCE Filter Cabinet Hooking

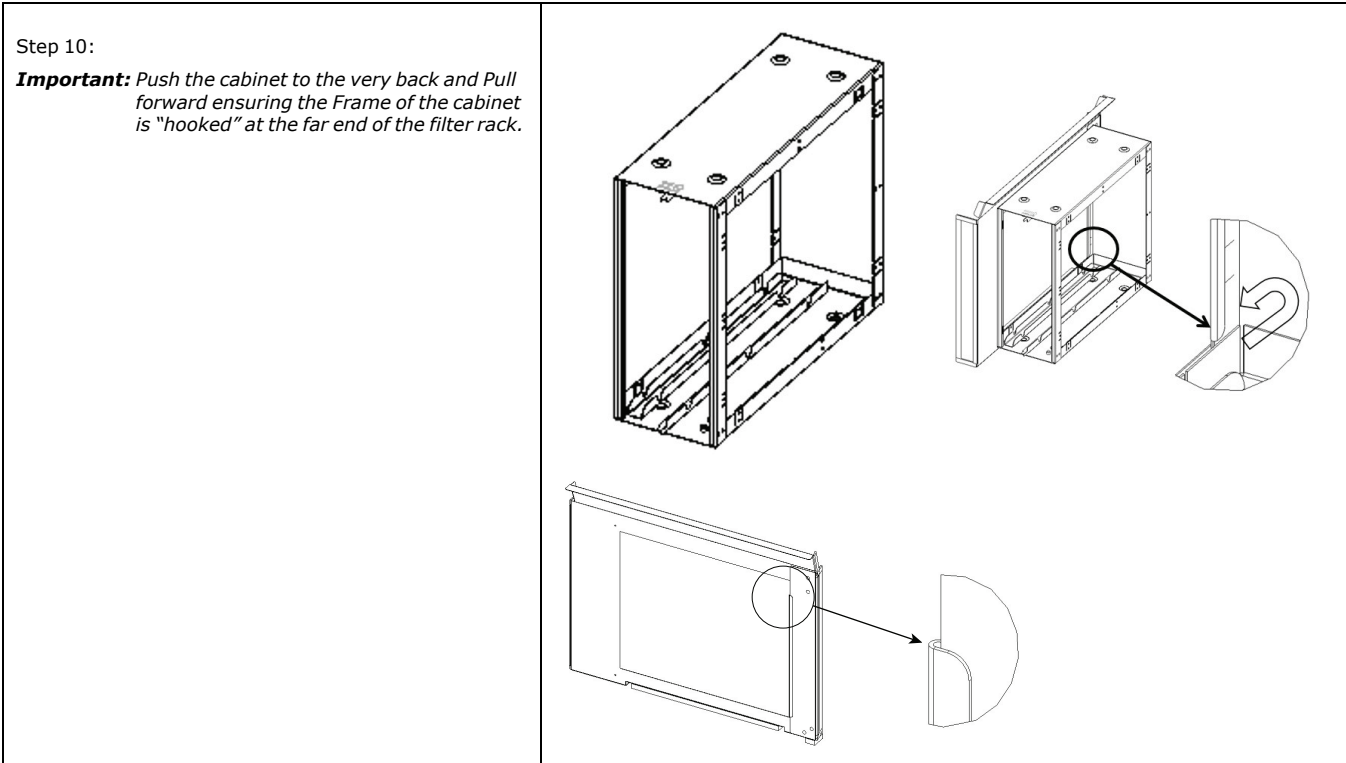
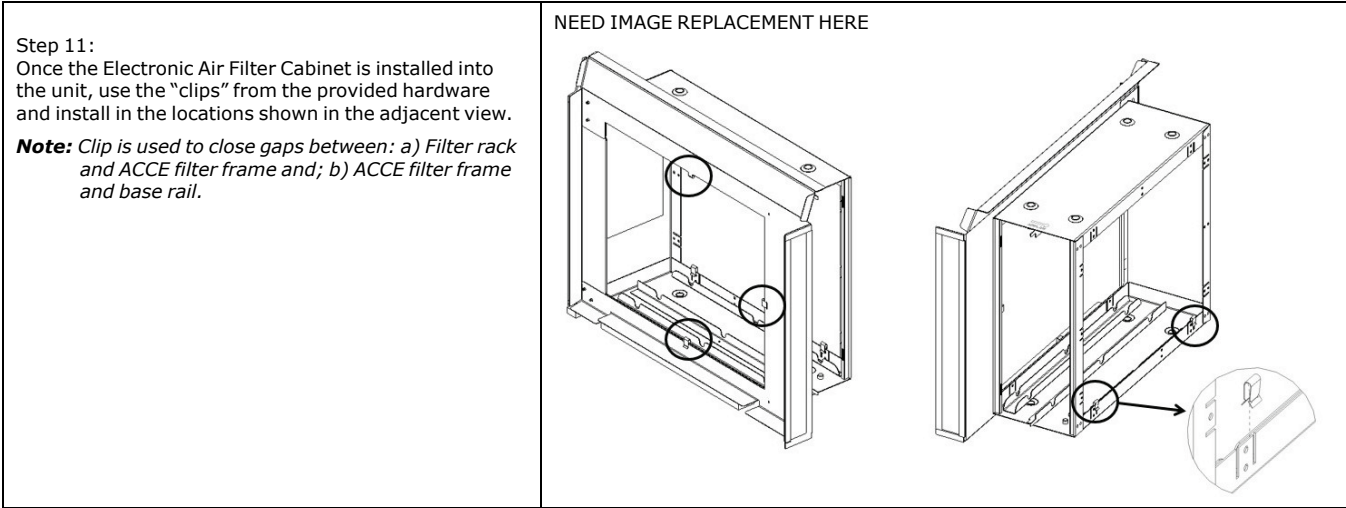


Table 9. Clip Installation



## Rack Preparation and Assembly

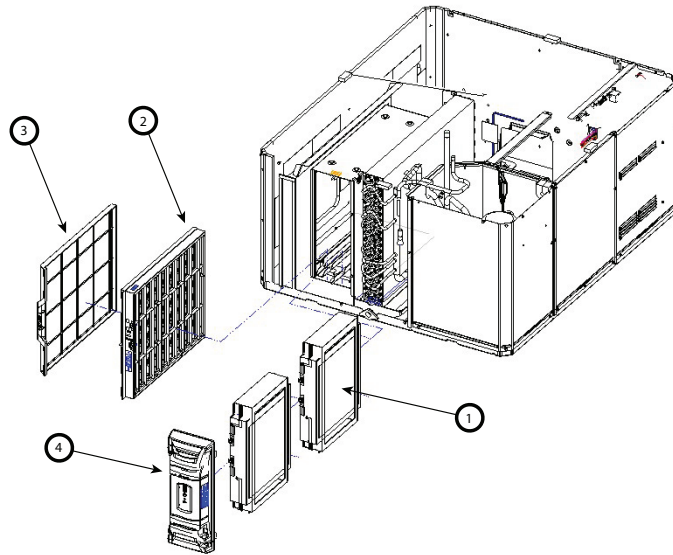
**Table 10. Reinstalling Filter Components**

Step 12:  
Reinsert the following parts from the coil end into the ACCE filter cabinet.

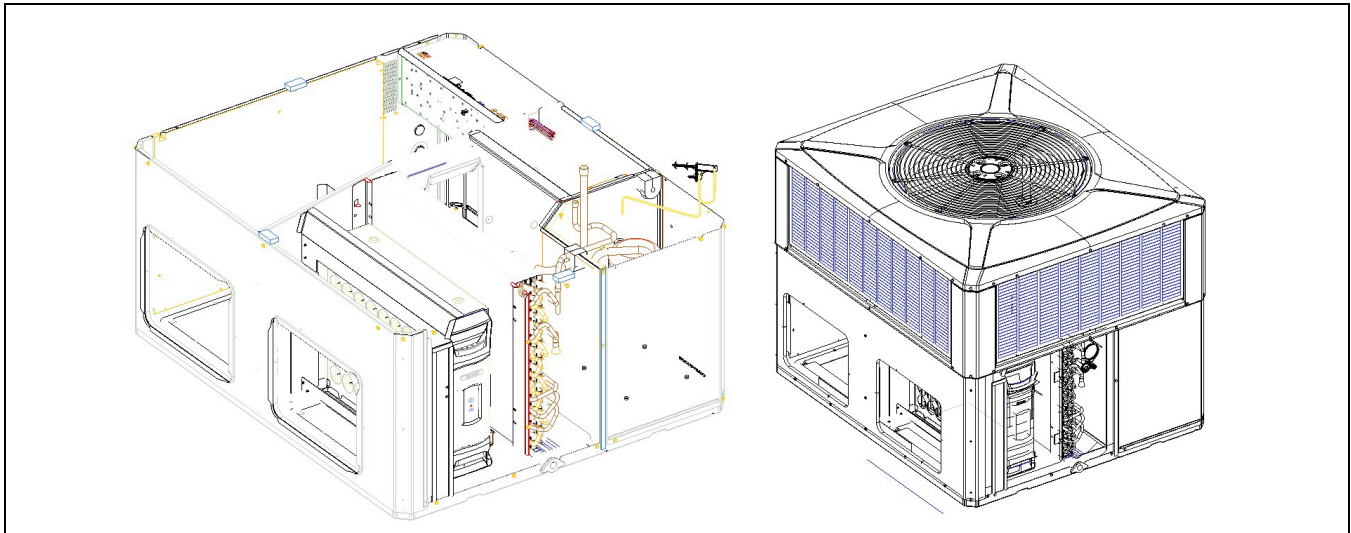
1. Collection cell
2. Field Charger
3. Pre Filter
4. Power door panel

*The Logo in power door panel should be straight in position.*

**Note:** Refer to ACCE Filter manual for more details.

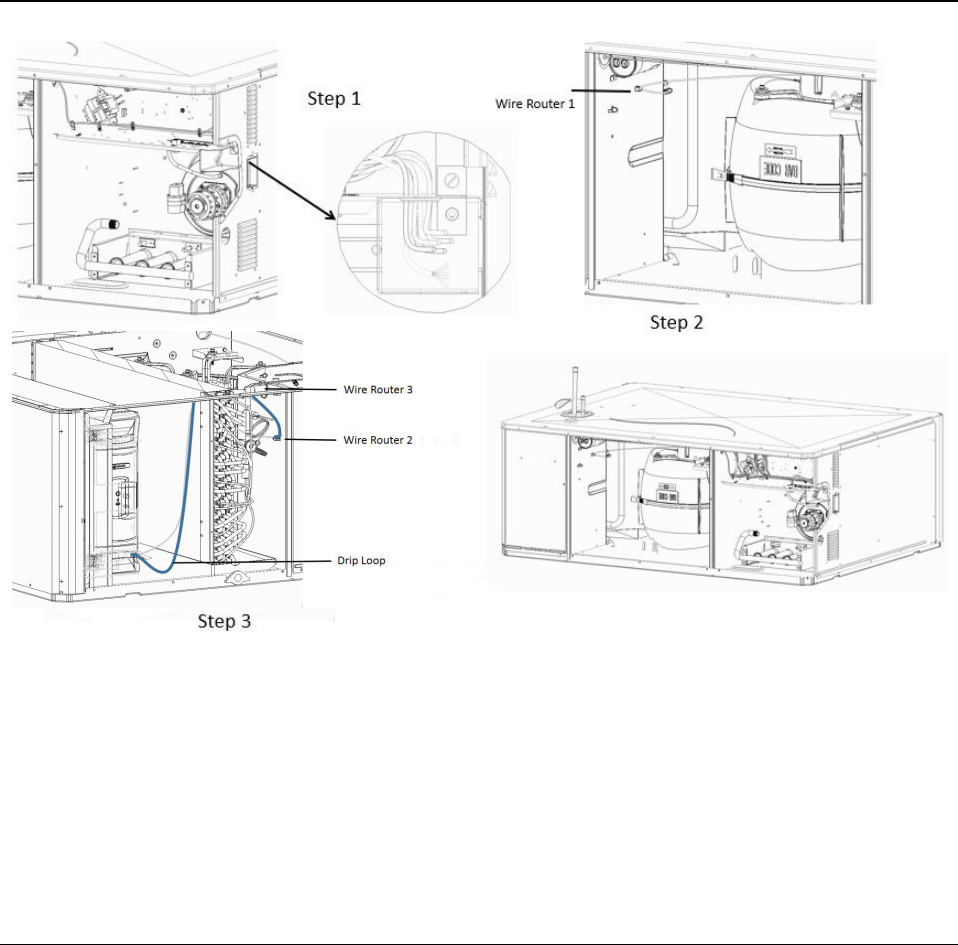


**Table 11. Completed Installation**



# Part B: Electrical Wiring and Connections

Table 12. Electronic Connections

<p>STEP 1:</p> <ul style="list-style-type: none"><li>• Refer the Wiring diagram and connect the terminals accordingly.</li><li>• Route the wires as shown in fig and use tie wrap to tie the cables.</li></ul> <p>STEP 2: Blower section &amp; separator panel</p> <ul style="list-style-type: none"><li>• Place the Wire Router as shown figure.</li><li>• Route the Wire through wire router up to the coil section.</li></ul> <p>STEP 3 : ACCE Filter Section</p> <p>Route the wire through coil section to the ACCE filter and connect the Cable terminal into the Power door panel terminal at the bottom.</p> <ol style="list-style-type: none"><li>1. Wire Routing after separator panel should be taken through wire router which has to be fixed in the Top panel ( before step 3)</li><li>2. Route away from coil surface and provide a drip loop in the power harness.</li><li>3. Package Unit must use a 75VA Transformer.<ol style="list-style-type: none"><li>a) Air cleaner models *FD175CLAH ship with a 240V, 75VA transformer. Use if needed.</li><li>b) Air cleaner models *FD175CLFR ship with a 120V, 50VA transformer; discard and replace with a field provided 240/24V, 75VA UL listed transformer.</li></ol></li><li>4. Use ACCE Filter Wire Harness</li></ol>	 <p>The diagram illustrates the three steps of electrical wiring:</p> <ul style="list-style-type: none"><li><b>Step 1:</b> Shows the blower section with wires being routed through a wire router. A circular inset provides a magnified view of the wire routing.</li><li><b>Step 2:</b> Shows the wire router (labeled 'Wire Router 1') being placed in the top panel to route wires up to the coil section.</li><li><b>Step 3:</b> Shows the ACCE filter section with wires routed through 'Wire Router 2' and 'Wire Router 3'. A 'Drip Loop' is also indicated for the power harness.</li></ul>
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# Rack Preparation and Assembly

**Table 13. Electrical Wiring Diagram**

**Note:** ACCE harness blue and black wire need to be connected together to Thermostat B signal.

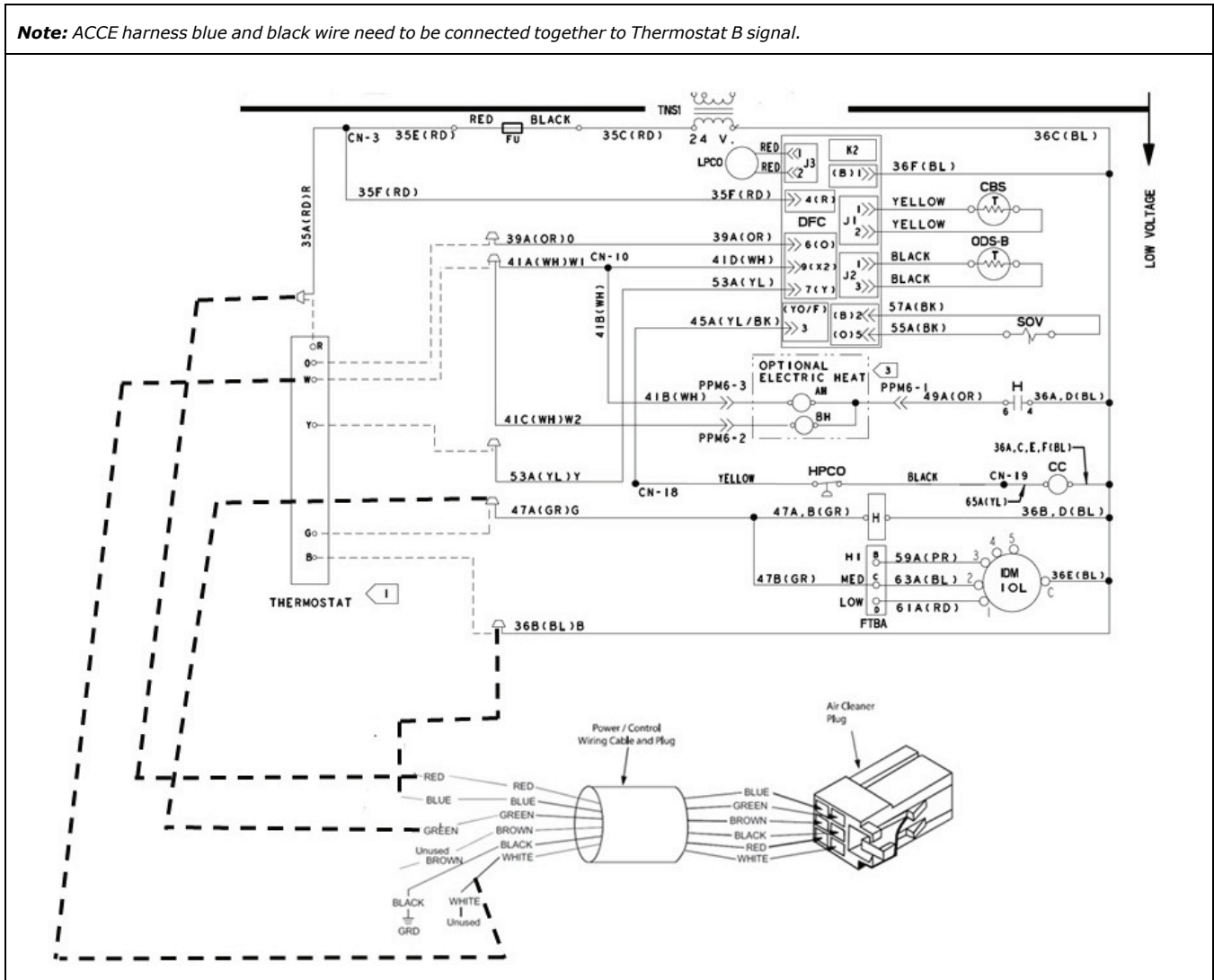


Table 14. Reinstall Unit Panels

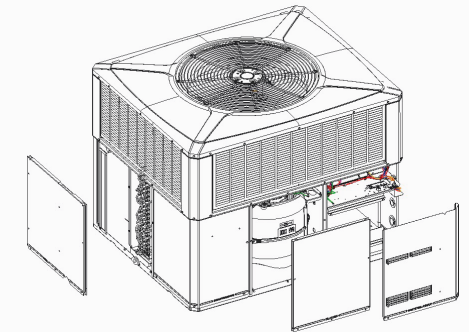
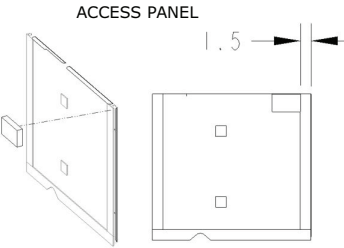
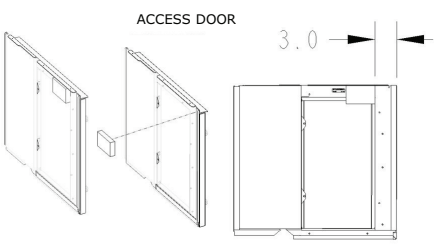
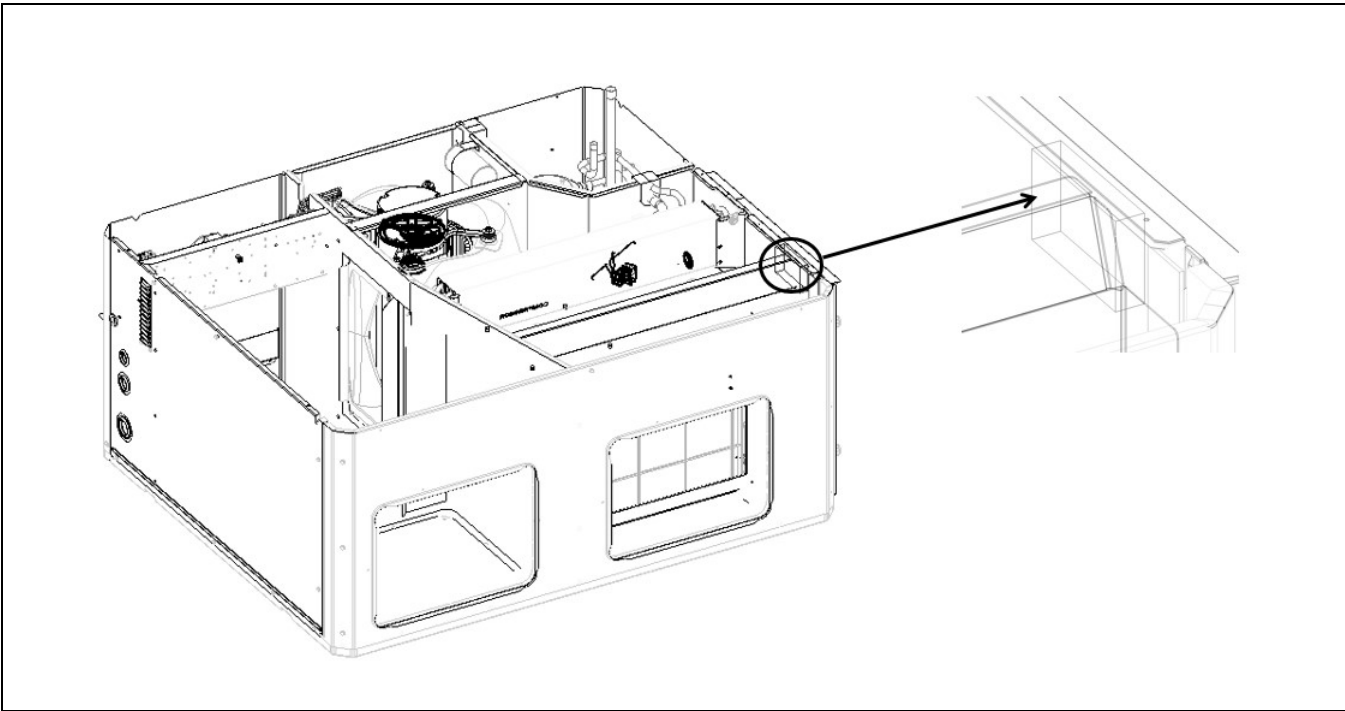
<p>Reassemble the blower and control access panels Install the gasket in the Access Panel or Access Door as shown in the figure</p>	
<p>ACCESS PANEL</p> 	<p>ACCESS DOOR</p> 

Table 15. Install Gasket – Reinstall Panel doors



# Pressure Drop Data

**Table 16. Pressure Drop Information with Electronic Filters**

<b>Filter Model # TFD175CLAH000E</b>			<b>Kit # BAYACCEADP1A</b>	<b>Filter Model # TFD175CLFR000E</b>			<b>Kit # BAYACCEADP2A</b>
Tonnage	Airflow	Static Pressure Drop (Inches of WC)		Tonnage	Airflow	Static Pressure Drop (Inches of WC)	
2.0	600	0.1		3.5	1200	0.22	0.28
	800	0.15			1400		
2.5	800	0.15		4.0	1400	0.28	0.34
	1000	0.20			1600		
3.0	1000	0.20		5.0	1600	0.34	0.40
	1200	0.27			1800		

**Table 17. Pressure Drop Information with 5" Media Filters**

<b>Filter Model # TFM17DA0FR</b>			<b>Kit # BAYACCEADP1A</b>	<b>Filter Model # TFM175BOFR</b>			<b>Kit # BAYACCEADP2A</b>
Tonnage	Airflow	Static Pressure Drop (Inches of WC)		Tonnage	Airflow	Static Pressure Drop (Inches of WC)	
2.0	600	0.04		3.5	1200	0.14	0.19
	800	0.07			1400		
2.5	800	0.07		4.0	1400	0.19	0.24
	1000	0.10			1600		
3.0	1000	0.10		5.0	1600	0.24	0.31
	1200	0.15			1800		



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