Fan sizes 21 to 36 are shipped fully assembled, unless otherwise specified.

A minimum of two people are required for assembly. Before starting, review these instructions.

The following tools are required:
- Powered screwdriver (preferred), or drill
- 3/8, 7/16, 1/2, 9/16 wrenches and sockets
- 5/16" nut driver bit for powered screwdriver
- Awl, for hole alignment

Inspect for missing or damaged parts
**Step 1 – Install Hood Mount Bars and Filter Stops**

Fasteners (Kit #1):
- Cap Screw, Serrated Flange, 3/8-16 x 0.75
- Hex Nut, Serrated Flange, 3/8-16

A. Assemble Hood Mount Bars and Filter Stop Plates on both sides of the fan housing, using cap screws and nuts.
B. Assemble four Hood Gussets using cap screws and nuts. The lower fasteners on the gussets attach to the curb stop fasteners, which are already installed on the fan housing. One at a time, remove the screws and attach the gussets.

**Step 2 – Install Filter Channels and Stiffeners**

Fasteners (Kit #7):
- Cap Screw, Serrated Flange, 5/16-18 x 0.75
- Hex Nut, Serrated Flange, 5/16-18
- Nut Clip, 5/16-18

A. Assemble two Filter Channels to Hood Mount Bars using cap screws and nuts.
B. Assemble two Stiffener Angles to the Filter Channels using cap screws and nuts.

**Step 3 – Install Filter Rail Assemblies**

Fasteners (Kit #7):
- Cap Screw, Serrated Flange, 5/16-18 x 0.75
- Hex Nut, Serrated Flange, 5/16-18
- Nut Clip, 5/16-18

A. Install nut clips onto the fan Housing Side Panel flanges as shown.
B. Assemble two Long Rail Assemblies using cap screws and nuts.
C. Assemble two Short Rail Assemblies using cap screws and nuts.
Step 4 – Install Hood Side Rails
Fasteners (Kit #1):
- Cap Screw, Serrated Flange, 3/8-16 x 1.25
- Hex Nut, Serrated Flange, 3/8-16

A. Install two Hood Side Rail Assemblies to the Hood Mount Bars using cap screws and nuts. Do not fully tighten fasteners. They will be tightened in Step 7.

Step 5 – Install End Assy (Male)
Fasteners (Kit #1):
- Screws, #12

A. Assemble End Panel Assembly (male type) using two #12 screws.

Step 6 – Install Hood Panels
Fasteners (Kit #1):
- Screws, #12

A. Install the Hood Panels using #12 screws.
B. On Sizes 54 and 60, hood clips must be installed at each interlocking rib while installing the panels. Position the Hood Panel in place and reach underneath to slide the clip into place.

For Sizes 54 and 60, install hood clips at each rib.
Step 7 – Install End Assembly (Female)

Fasteners (Kit #1):
Screws, #12

A. Assemble End Panel Assembly (female type) using four #12 screws. On sizes 54 and 60, install hood clips at flange joints.
B. Fully tighten the Hood Mount Bar/Side Rail fasteners from Step 4.

Step 8 – Install Filters

A. Remove both Filter Retainers from End Panels. Retain hardware.
B. Install Filters as shown.
C. Reinstall both Filter Retainers.

Filter Configurations

<table>
<thead>
<tr>
<th>Fan Size 21</th>
<th>Fan Size 24 to 48</th>
<th>Fan Size 54 to 60</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fan Size P/N</td>
<td>Size Quantity</td>
<td>P/N Size Quantity</td>
</tr>
<tr>
<td>21 FILTER2A-LH21</td>
<td>23.81 x 9.75 4</td>
<td>FILTER2B-LH21 29.19 x 8.88 2</td>
</tr>
<tr>
<td>24 FILTER2A-LH24</td>
<td>19.88 x 13.50 6</td>
<td>FILTER2B-LH24 16.00 x 13.38 4</td>
</tr>
<tr>
<td>30 FILTER2A-LH30</td>
<td>20.88 x 15.50 8</td>
<td>FILTER2B-LH30 20.00 x 21.06 4</td>
</tr>
<tr>
<td>36 FILTER2A-LH36</td>
<td>20.81 x 20.50 8</td>
<td>FILTER2B-LH36 23.00 x 18.25 4</td>
</tr>
<tr>
<td>42 FILTER2A-LH42</td>
<td>23.81 x 17.00 8</td>
<td>FILTER2B-LH42 26.00 x 21.38 4</td>
</tr>
<tr>
<td>48 FILTER2A-LH48</td>
<td>21.44 x 23.50 10</td>
<td>FILTER2B-LH48 29.00 x 24.38 4</td>
</tr>
<tr>
<td>54 FILTER2A-LH54</td>
<td>23.88 x 26.50 10</td>
<td>FILTER2B-LH54 32.13 x 13.69 8</td>
</tr>
<tr>
<td>60 FILTER2A-LH60</td>
<td>26.25 x 29.50 10</td>
<td>FILTER2B-LH60 35.00 x 15.00 8</td>
</tr>
</tbody>
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