Table 1

<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
<th>Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Air Intake Vent Pipe (C-Vent)(^3)</td>
<td>9</td>
<td>Tee with Drip Leg &amp; Cleanout Cap(^3)</td>
</tr>
<tr>
<td>2</td>
<td>Vertical Concentric Vent Box</td>
<td>10</td>
<td>Draft Hood Connector (C - B)(^3)</td>
</tr>
<tr>
<td>3</td>
<td>Aluminum Flex Pipe (or C-Vent)(^3,5)</td>
<td>11</td>
<td>Type RV B-Vent (Double-Wall, (\frac{1}{4})&quot; Air Gap)(^3,4)</td>
</tr>
<tr>
<td>4</td>
<td>Combustion Air Inlet Pipe Connection</td>
<td>12</td>
<td>Flashing (field supplied)(^3)</td>
</tr>
<tr>
<td>5</td>
<td>Gas Pipe</td>
<td>13</td>
<td>Combustion Air Inlet Terminal</td>
</tr>
<tr>
<td>6</td>
<td>Power Exhauster</td>
<td>14</td>
<td>Reverse Draft Hood Connector (B - C)(^3)</td>
</tr>
<tr>
<td>7</td>
<td>Vent Pipe Connection(^1)</td>
<td>15</td>
<td>Exhaust Vent Cap</td>
</tr>
<tr>
<td>8</td>
<td>C-Vent(^2,3)</td>
<td></td>
<td></td>
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</tbody>
</table>

1 HDS models 30-45 are factory supplied with 3”-4” vent adapters for attaching the exhaust & air intake pipe to the heater.
2 Horizontal sections of vent pipe are to be installed with a minimum downward slope from the appliance of \(\frac{1}{4}\) inch per foot.
3 All C-Vent, B-Vent, Aluminum Flex Pipe and accessories are field supplied and installed.
4 Follow the link on last page for availability and P/N’s of Selkirk Type “RV” B-Vent components.
5 Aluminum Flex Pipe (per local authority) &/or C-Vent, suggested 26 ga.
Vertical Concentric Vent Installation Supplement

1. Combustion Air Intake Vent (C-Vent)
   - Slide the Combustion Air Intake Pipe (C-Vent) over the Air Inlet located on the concentric pipe side of the Concentric Adaptor Box.

2. Attach the C-Vent to the air inlet using at least 3 corrosion resistant sheet metal screws. Seal the joint and seam using sealant suitable for temperatures up to 400°F.

3. Exterior side of building roof
   - Place this assembly (the adapter box and combustion air intake pipe) through the properly prepared hole penetration/flashing in the roof ensuring combustion air intake pipe terminates above the snow line or at least 12" above the roof, whichever distance is greater.

4. The adapter box can be mounted flush to the roof. The box can also be offset from the roof by using field supplied brackets. If using field supplied brackets, they must be strong enough to rigidly secure the box to the roof and should be made from corrosion resistant material.

5. Storm Collar
   - From outside the building, caulk the gap between the combustion air intake vent and the building penetration.

6. Exterior side of building roof
   - Slide the Storm Collar over the Combustion Air Intake Vent (C-Vent) and attach it per the local code.

7. Attach the Combustion Air Inlet Terminal to the Combustion Air Intake Vent (C-Vent). The bottom of the combustion air intake vent must terminate above the snow line, or at least 12 inches above the roof, whichever distance is greater.

8. Seal the joint and seam using sealant suitable for temperatures up to 400°F.
9. Attach the Draft Hood Connector (C - B) to the Type RV B-Vent (Double-Wall, \( \frac{3}{4} \)" air gap) and the C-Vent (vertical section) to the Draft Hood Connector (C - B). Attach the Tee with Drip Leg & Cleanout Cap to the C-Vent (horizontal section).

10. Insert the assembly (Type RV B-Vent (Double-Wall, \( \frac{3}{4} \)" air gap), Draft Hood Connector (C - B) and C-Vent) through the hole on the non-concentric pipe side of the Concentric Adaptor Box to pass concentrically between the Air Intake Vent Pipe (C-Vent) and appear above the Combustion Air Inlet Terminal.

11. Attach the assembly (C-Vent and Tee with Drip Leg & Cleanout Cap) to the bottom end of the assembly (Type RV B-Vent (Double-Wall, \( \frac{3}{4} \)" air gap), Draft Hood Connector (C - B) and C-Vent). Horizontal sections of vent pipe are to be installed with a minimum downward slope from the appliance of \( \frac{3}{8} \)" per foot and suspended securely from overhead structures at points not greater than 3' apart.

12. Connect the Combustion Air Inlet Pipe Connection of the unit heater with the Concentric Adaptor Box using Aluminum Flex Pipe or C-Vent.

13. Reverse Draft Hood Connector (B - C) and attach the Reverse Draft Hood Connector (B - C) to the Type RV B-Vent (double-wall, \( \frac{1}{2} \) inch air gap).


15. The bottom of the Exhaust Vent Cap must terminate at least 6" above the top of the Combustion Air Inlet Terminal.

Refer to Table 2 on the next page for B-Vent, C-Vent and Concentric Adaptor Box dimensions recommended for corresponding unit heater model #s.

All seams and joints must be sealed with either tape, silicone sealant, or other appropriate sealants suitable for metal to metal contact and for temperatures up to 400° F. If using tape, wrap it two full turns around the vent pipe.

A minimum of 12" straight pipe is recommended from the flue outlet before turns in the vent pipe.
Vertical Concentric Vent Installation Supplement

Fig 1 - Vertical Concentric Venting
Outdoor Clearances

Fig 2 - Adaptor Box with Combustion Air Intake Pipe Attached

* whichever is greater

Table 2

<table>
<thead>
<tr>
<th>Model #</th>
<th>BTU/hr</th>
<th>Exhaust Pipe (C-Vent)</th>
<th>B-Vent Pipe* ID</th>
<th>OD</th>
<th>Combustion Air Pipe (C-Vent)</th>
<th>Length (A)</th>
<th>Width (B)</th>
<th>Depth (C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDS / HDC</td>
<td>30-125</td>
<td>4&quot;</td>
<td>4&quot;</td>
<td>4.5&quot;</td>
<td>6&quot;</td>
<td>18.84&quot;</td>
<td>13.33&quot;</td>
<td>4.57&quot;</td>
</tr>
<tr>
<td>PTS / BTS</td>
<td>150-200</td>
<td>4&quot;</td>
<td>4&quot;</td>
<td>4.5&quot;</td>
<td>6&quot;</td>
<td>18.84&quot;</td>
<td>13.33&quot;</td>
<td>4.57&quot;</td>
</tr>
<tr>
<td>PTS / BTS</td>
<td>250-400</td>
<td>6&quot;</td>
<td>6&quot;</td>
<td>6.5&quot;</td>
<td>8&quot;</td>
<td>15.27&quot;</td>
<td>17.00&quot;</td>
<td>4.57&quot;</td>
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</tbody>
</table>

* For reference, Selkirk Type "RV" B-Vent (inner liner - aluminum, outer casing - galvanized, ¼" air gap). Scan the QR code on the right with your smart phone to view the Selkirk Type "RV" B-Vent web page (http://www.selkirkcorp.com/supervent/Product.aspx?id=70).

Vertical Concentric Vent Kit Components & Part #s:
A) Exhaust Vent Cap
B) Combustion Air Inlet Terminal
C) Concentric Adaptor Box

Model Size: 30-45 60-200 250-400
Acc Code: 33356 33356 33357

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Disclaimer: This supplement is not an authorized document from Modine Manufacturing. It is strictly a supplement to assist in understanding how the concentric kit is assembled. Please refer to manufacturer's Installation & Operations Manual for detailed instructions.