**TDC / TDCA UNIT DIMENSIONS**

**Border Type 1 (Surface Mount)**
Square or Rectangular Neck

- Ceiling Opening = A plus 3½"
- Duct Size A
- Duct Size minus ⅛"
- A plus 5⁹⁄₁₆"
- Ceiling Module

**Border Type 1 (Surface Mount)**
Round Neck

- Ceiling Opening = A plus 3½"
- A
- Duct Size, diameter
- Duct Size minus ⅛"
- 1¾"
- Ceiling Module

**Border Type 2**
(Snap-In)

- Ceiling Module
  - 2⅝" 13/16"

**Border Type 3**
(Lay-In)

- Ceiling Module
  - Ceiling Module minus ¼"

All dimensions are in inches
AVAILABLE DUCT SIZES - SQUARE AND RECTANGULAR NECKS

<table>
<thead>
<tr>
<th>Border Types 1, 5, 6</th>
<th>Minimum Duct Size A</th>
<th>Maximum Duct Size A</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 x 6</td>
<td>48 x 48</td>
<td></td>
</tr>
</tbody>
</table>

Note: Duct sizes are available in 3” increments only. Maximum duct size for border 5 is 36” x 36”.

AVAILABLE DUCT SIZES - ROUND NECKS

<table>
<thead>
<tr>
<th>Border Types 1, 5, 6</th>
<th>Dimension A</th>
<th>Available Round Duct Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 x 6</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>9 x 9</td>
<td>6, 8</td>
<td></td>
</tr>
<tr>
<td>12 x 12</td>
<td>6, 8, 10, 12</td>
<td></td>
</tr>
<tr>
<td>15 x 15</td>
<td>6, 8, 10, 12, 14</td>
<td></td>
</tr>
<tr>
<td>18 x 18</td>
<td>6, 8, 10, 12, 14, 16</td>
<td></td>
</tr>
</tbody>
</table>

Note: Round duct sizes are available only in sizes shown. Border type 5 is only available in steel.

ADJUSTING HORIZONTAL-TO-VERTICAL DISCHARGE PATTERN - TDCA, TDCA-AA
**DIFFUSERS**

**Optional Patterns**

- The table below shows the quantity and location of Model TRV vanes required per side of the diffuser.
- Throw reduction will be shown in the isovel diagrams.
- Total pressure will be 1.40 times that listed in the diffuser performance table.
- Sound level will be 4 NC higher than that listed in the diffuser performance table.

<table>
<thead>
<tr>
<th>Dimension X Inches</th>
<th>Quantity of Model TRV Vanes Required (per Side)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>- 1 1½ 2½ 3 4 5 5 6 7 8 11</td>
</tr>
<tr>
<td>6</td>
<td>- 2 2 3 4 4 5 7 7 8 10 14</td>
</tr>
<tr>
<td>9</td>
<td>1½ 3 4 5 7 8 9 11 12 13 16 22</td>
</tr>
</tbody>
</table>

**Removing Center Core**

1. Remove shipping clips
2. Push core sideways against spring
3. Hold core securely and allow to drop down

**Note:** Patterns are shown in plan view (looking down into inlet). Dimensions X and Y shown here are the proportions of available rectangular duct sizes. Duct sizes are available in 3-inch increments. Dimension X is always the longer dimension for each core option.