PLENUM BOXES FOR SUPPLY DIFFUSERS
**Description**

Plenum box type VK - 200 series is designed to ensure equal distribution of air across the supply diffusers. The supply plenum box has acoustic lining to reduce noise generated inside the duct due to airflow turbulence before reaching the diffuser. The built-in damper can be operated from the spigot connection or from face of diffuser.

**Standard Construction**

**Plenum Box:**
Built of galvanized steel sheet gauge 24, conform to ASTM A653, Lock Forming Quality, G90 zinc coating.

**Insulation:**
25 mm thick acoustic lining with black glass tissue facing, 48kg/m³ density. Acoustic lining is fixed inside the plenum box with non-flammable adhesive and mechanical fastener (capped head pins).

**Spigot:**
Spigot inlet with damper as standard.

**Additional Options**
1. Spigot inlet without damper.
2. With perforated sheet covering the acoustic liner facing the air stream to prevent damage and fiber erosion. Type: VK-200P..210P..220P..230P


**VK 200 SERIES [VK 200, VK 210, VK 220, VK 230]**

**Legend:**
1 - Casing
2 - Acoustic Lining
3 - Spigot Inlet
4 - Hanging Bracket

**VK - 200**
Spigot inlet with damper and 25mm thick acoustic lining, density 48kg/m³ with BGT facing.

**VK - 210**
General construction as type VK - 200 plenum but damper blade is adjustable from face of diffuser.

**VK - 220**
General construction as type VK - 200 plenum but with especial damper adjustable horizontally with damper control on face of diffuser. A plastic tube is fitted to damper control for pressure test if required.

**VK - 230**
General construction as type VK - 200 plenum but damper blade open or close sideward with damper control on face of diffuser.
**VK 200 SERIES [VK 200, VK 210, VK 220, VK 230]**

**Legend:**
1 - Casing  
2 - Acoustic Lining  
3 - Spigot Inlet  
4 - Hanging Bracket

**VK - 220**
Spigot inlet with especial damper adjustable horizontally with damper control on face of diffuser, with 25mm thick acoustic lining. A plastic tube is fitted to damper control for pressure test if required.

**VK - 230**
Spigot inlet with damper blade open and close sideward adjustable from face of diffuser and with 25mm thick acoustic lining.

**Sizes of Plenum Box**

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Diffuser Size H x L (mm)</th>
<th>Plenum Size H+5 x L+5 (mm)</th>
<th>Spigot Inlet Dia (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>150 x 150</td>
<td>165 x 165</td>
<td>100</td>
</tr>
<tr>
<td>2</td>
<td>225 x 225</td>
<td>230 x 230</td>
<td>150</td>
</tr>
<tr>
<td>3</td>
<td>300 x 300</td>
<td>305 x 305</td>
<td>200</td>
</tr>
<tr>
<td>4</td>
<td>375 x 375</td>
<td>380 x 380</td>
<td>250</td>
</tr>
<tr>
<td>5</td>
<td>450 x 450</td>
<td>455 x 455</td>
<td>300</td>
</tr>
<tr>
<td>6</td>
<td>525 x 525</td>
<td>530 x 530</td>
<td>350</td>
</tr>
<tr>
<td>7</td>
<td>600 x 600</td>
<td>605 x 605</td>
<td>400</td>
</tr>
</tbody>
</table>

**Order Example**

Product Code: VK-200  
Size: 300 x 300  
Spigot Dia: 100 to 400 Dia  

Make: SAFID  
Type: VK-200-300 X 300 / 250 Dia  
Qty.: 1

**NOTE**
Plenum box size varies as per customer’s requirement.