CBV Booster Systems
WITH VARIABLE SPEED MOTOR (VSM) TECHNOLOGY

MODELS: CBV4015 CBV7230 CBV1250 CBV2085

Kinney® Compact Booster Variable (CBV) Systems combine the features of Kinney KT™ pumps and vacuum boosters with VSM Technology into a space efficient package capable of continuous, high pumping capacity to 10 microns. The CBV booster system is ideal for use in vacuum furnace, vacuum coating, sputtering, space simulation, and other applications where rapid pump down is required.

CBV BOOSTER SYSTEM BENEFITS

- High pumping capacity starting from atmospheric pressure
- VSM booster motor VFD tuned and programmed by Kinney
- VSM motor eliminates vacuum booster “wind-milling”
- Reduces vacuum pump down cycle time by 30-40%, depending on chamber volume
- No unique “bypass” booster needed
- No vacuum switch required to start booster

STANDARD FEATURES

- Integral drive booster with VSM (includes remote VFD keypad with RJ45 cable)
- Kinney KT pump
- Overtemperature switch for booster
- Steel base with VibraMounts

OPTIONAL FEATURES

- Oil mist eliminator
- Suction flexible connector
- Cooling water solenoid valve
- KT Series “Water Miser” thermostatic valve
- Air cooling systems

SPECIFICATIONS (IMPERIAL / METRIC)

<table>
<thead>
<tr>
<th>System Model</th>
<th>Hz</th>
<th>CIP¹ (Torr)</th>
<th>Maximum COP² (Torr)</th>
<th>Booster Model</th>
<th>Displacement CFM / m³/h</th>
<th>HP / kW</th>
<th>Pump Model</th>
<th>Displacement CFM / m³/h</th>
<th>HP / kW</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBV4015</td>
<td>60</td>
<td>760</td>
<td>760</td>
<td>400</td>
<td>400 / 680</td>
<td>5 / 3.7</td>
<td>KT-150</td>
<td>150 / 250</td>
<td>7.5 / 5.5</td>
</tr>
<tr>
<td></td>
<td>50</td>
<td></td>
<td></td>
<td>720</td>
<td>720 / 1220</td>
<td>7.5 / 5.5</td>
<td>KT-300</td>
<td>300 / 500</td>
<td>15 / 11</td>
</tr>
<tr>
<td>CBV7230</td>
<td>60</td>
<td></td>
<td></td>
<td>1200</td>
<td>1200 / 2040</td>
<td>10 / 7.5</td>
<td>KT-500</td>
<td>500 / 850</td>
<td>30 / 22</td>
</tr>
<tr>
<td></td>
<td>50</td>
<td></td>
<td></td>
<td>2000</td>
<td>2000 / 3400</td>
<td>10 / 7.5</td>
<td>KT-850</td>
<td>780 / 1330</td>
<td>40 / 30</td>
</tr>
</tbody>
</table>

¹ CIP = Cut-in Pressure  | ² COP = Maximum Continuous Operating Pressure
DIMENSIONS

Values shown are approximate and should not be used for construction. Certified drawings are available through your local Kinney sales professional.

DIMENSIONAL TABLE (INCHES / MILLIMETERS)

<table>
<thead>
<tr>
<th>System Model</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D (Inlet)</th>
<th>E (Discharge)</th>
<th>F</th>
<th>G</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBV4015</td>
<td>36</td>
<td>39</td>
<td>48</td>
<td>4&quot; FLG</td>
<td>3&quot; NPT</td>
<td>44</td>
<td>48</td>
</tr>
<tr>
<td>CBV7230</td>
<td>42</td>
<td>48</td>
<td>53</td>
<td>4&quot; FLG</td>
<td>3&quot; NPT</td>
<td>58</td>
<td>57</td>
</tr>
<tr>
<td>CBV1250</td>
<td>54</td>
<td>53</td>
<td>72</td>
<td>6&quot; FLG</td>
<td>4&quot; FLG</td>
<td>65</td>
<td>68</td>
</tr>
<tr>
<td>CBV2085</td>
<td>57</td>
<td>78</td>
<td>86</td>
<td>8&quot; FLG</td>
<td>5&quot; FLG</td>
<td>75</td>
<td>80</td>
</tr>
</tbody>
</table>

CONTACT US

For more information, contact your Regional Sales Manager or call us at:

1-800-825-6937

Your Local Sales Professional: