Workers in extreme temperatures wear Vortec Personal Air Conditioners to minimize heat stress and fatigue while improving comfort and productivity.

Cold Air circulates through a Diffuse Air Vest to distribute even cooling over the upper body.

- Vest can be worn under other protective clothing (PPE)
- Easy temperature adjustment even with gloved hands
- Provides continuous, consistent air delivery
- Vest allows for full range of motion with no airflow restrictions

Applications

- Foundries
- Powder Coating
- Welding Operations
- Steel Mills
- Sand Blasting
- Asbestos Abatement
- Power Plants
- Mines
- Casting Shops
- Smelters
- Boiler Rooms
- Metal Production
- Paint Operations
- Forging Shops
- Hazardous Waste Removal
- Unconditioned Warehouses
- Shipyards
- Glass Plants

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www.vortec.com
Personal Air Conditioners use filtered compressed air and vortex tube technology to generate cold air used for personal cooling applications.

Inside the personal air conditioner, a vortex tube spins the supplied compressed air, separating it into hot and cold air streams. The cold air is delivered to the Diffuse Air Vest via a ducting tube, while the hot air exits out the other end of the PAC. Inside the vest, the cold air is circulated via the perforated lining, providing a cooling effect to the wearer of the vest and PAC.

The distributed air temperature differential is +/- 60°F (33°C) from the compressed air inlet temperature.

**Case Study**

**Cadillac of South Charlotte**

Summers in South Carolina are quite hot, regularly reaching over 90°F. Inside a paint booth, this means temperatures can reach well over 100°F. Without proper PPE, heat stress, dehydration, exhaustion heat stroke can all come into play. Cadillac of South Carolina decreased those threats with Vortec's PAC.

Read more here: [https://bit.ly/2Az7UNf](https://bit.ly/2Az7UNf)

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description</th>
<th>Cooling Capacity</th>
<th>Compressed Air Consumption</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>@ 100 PSIG (SCFM)</td>
</tr>
<tr>
<td>22815</td>
<td>PAC with Belt</td>
<td>900 BTU/Hr</td>
<td>15 SCFM</td>
</tr>
<tr>
<td>22825</td>
<td>PAC with Belt</td>
<td>1500 BTU/Hr</td>
<td>25 SCFM</td>
</tr>
<tr>
<td>22835</td>
<td>PAC with Belt (L)</td>
<td>2500 BTU/Hr</td>
<td>35 SCFM</td>
</tr>
<tr>
<td>22525</td>
<td>PAC with Vest (L)</td>
<td>1500 BTU/Hr</td>
<td>25 SCFM</td>
</tr>
<tr>
<td>22735</td>
<td>PAC with Vest (XL)</td>
<td>2500 BTU/Hr</td>
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</tr>
<tr>
<td>22935</td>
<td>PAC with Vest (XXL)</td>
<td>2500 BTU/Hr</td>
<td>35 SCFM</td>
</tr>
<tr>
<td>865</td>
<td>Diffuse Air Vest Only, Size Large (fits 36” to 41” girth)</td>
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<td></td>
</tr>
<tr>
<td>867</td>
<td>Diffuse Air Vest Only, Size X-Large (fits 41” to 46” girth)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>869</td>
<td>Diffuse Air Vest Only, Size XX-Large (fits 46” to 52” girth)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

All PAC's have 1/4” compressed air quick connect and 3/4” garden hose thread for discharge of air to vest.

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