Keep Workers Comfortable and Productive in Extreme Temperatures

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

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How it Works

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 deg F (33 deg C) from the compressed air inlet temperature.

Case Study

Cadillac of South Charlotte

Summers in South Carolina are quite hot, regularly reaching over 90 deg F. Inside a paint booth, this means temperatures can reach well over 100 deg 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:

<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) @ 6.9 BAR (SLPM)</td>
</tr>
<tr>
<td>22815</td>
<td>PAC w/Belt</td>
<td>900 BTU/Hr</td>
<td>15 SCFM 425 SLPM</td>
</tr>
<tr>
<td>22825</td>
<td>PAC w/Belt</td>
<td>1500 BTU/Hr</td>
<td>25 SCFM 708 SLPM</td>
</tr>
<tr>
<td>22835</td>
<td>PAC w/Belt</td>
<td>2500 BTU/Hr</td>
<td>35 SCFM 990 SLPM</td>
</tr>
<tr>
<td>22525</td>
<td>Integrated PAC (L Vest)</td>
<td>1500 BTU/Hr</td>
<td>25 SCFM 708 SLPM</td>
</tr>
<tr>
<td>22735</td>
<td>Integrated PAC (XL Vest)</td>
<td>2500 BTU/Hr</td>
<td>35 SCFM 990 SLPM</td>
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<tr>
<td>22935</td>
<td>Integrated PAC (XXL Vest)</td>
<td>2500 BTU/Hr</td>
<td>35 SCFM 990 SLPM</td>
</tr>
<tr>
<td>865</td>
<td>Large Diffuse Air Vest, fits 36” to 41” girth</td>
<td></td>
<td></td>
</tr>
<tr>
<td>867</td>
<td>X-Large Diffuse Air Vest, fits 41” to 46” girth</td>
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</tr>
<tr>
<td>869</td>
<td>XXL Diffuse Air Vest, 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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Innovative Compressed Air Products