

PERSONAL AIR CONDITIONER

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

VORTEC
Innovative Compressed Air Products

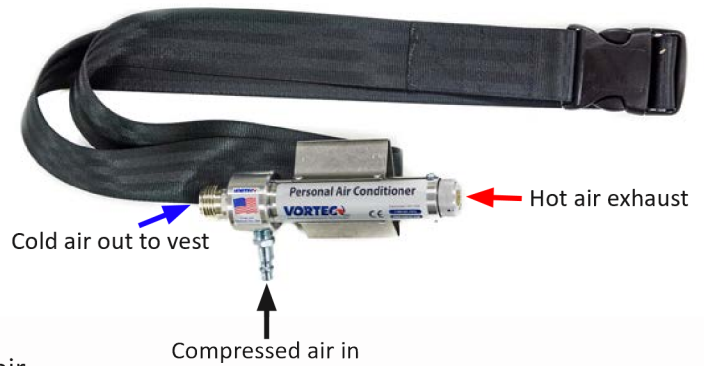
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How it Works

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.



Cold air distribution

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.



Item #	Description	Cooling Capacity	Compressed Air Consumption	
			@ 100 PSIG (SCFM)	@ 6.9 BAR (SLPM)
22815	PAC w/Belt	900 BTU/Hr	15 SCFM	425 SLPM
22825	PAC w/Belt	1500 BTU/Hr	25 SCFM	708 SLPM
22835	PAC w/Belt	2500 BTU/Hr	35 SCFM	990 SLPM
22525	Integrated PAC (L Vest)	1500 BTU/Hr	25 SCFM	708 SLPM
22735	Integrated PAC (XL Vest)	2500 BTU/Hr	35 SCFM	990 SLPM
22935	Integrated PAC (XXL Vest)	2500 BTU/Hr	35 SCFM	990 SLPM
865	Large Diffuse Air Vest, fits 36" to 41" girth			
867	X-Large Diffuse Air Vest, fits 41" to 46" girth			
869	XXL Diffuse Air Vest, fits 46" to 52" girth			

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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