VORTEC COOLING VESTS

Keep Workers Comfortable and Safe in Extreme Temperatures

Workers in extreme temperatures wear Vortec Cooling Vests to minimize heat stress and fatigue while improving comfort and productivity.

Cold Air circulates through the Cooling 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	Power Plants	Paint Operations
Powder Coating	Mines	Forging Shops
Welding Operations	Casting Shops	Hazardous Waste Removal
Steel Mills	Smelters	Unconditioned Warehouses
Sand Blasting	Boiler Rooms	Shipyards
Asbestos Abatement	Metal Production	Glass Plants

Vortec, an ITW Company

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VORTEC

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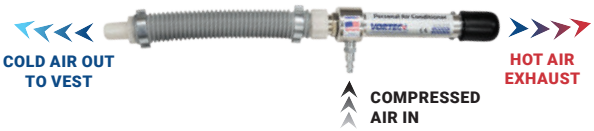
How It Works

Vortec Cooling Tubes use filtered compressed air and vortex tube technology to generate cold air used for personal cooling applications.

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

The distributed air temperature differential is +/- 60°F (33°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°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 Charlotte decreased those threats with the Vortec Cooling Vest.

Read more here:

https://bit.ly/2Az7UNf

Item #	Description	Cooling Capacity	Compressed Air Consumption	
			@ 100 PSIG (SCFM)	@ 6.9 BAR (SLPM)
22825	Cooling Tube with Belt	1500 BTU/Hr	25 SCFM	708 SLPM
22835	Cooling Tube with Belt	2500 BTU/Hr	35 SCFM	990 SLPM
Cooling Vest-L	Cooling Vest (L)	1500 BTU/Hr	25 SCFM	708 SLPM
Cooling Vest-XL	Cooling Vest (XL)	2500 BTU/Hr	35 SCFM	990 SLPM
Cooling Vest-2XL	Cooling Vest (2XL)	2500 BTU/Hr	35 SCFM	990 SLPM
Vest-L	Replacement Vest Only, Size Large (fits 36" to 41" girth)			
Vest-XL	Replacement Vest Only, Size X-Large (fits 41" to 46" girth)			
Vest-2XL	Replacement Vest Only, Size 2X-Large (fits 46" to 52" girth)			

- Vest is made with flame resistant fabric that meets CPAI-84, Sec. 6 Fire Standard Specifications
- All Cooling Tubes have 1/4" compressed air quick connect and 3/4" garden hose thread for discharge of air to vest

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