

# Vortex Cooling & Heating Systems



## Personal Cooling / Heating

Personal Air Conditioners (PACs) use filtered compressed air to keep workers comfortable in extremely hot or cold areas. PACs use the Model 855 Vest to distribute cooled or heated air over the upper body.

- Uses filtered compressed air
- Provides continuous cooled air delivery
- Easy temperature adjustment with gloved hands
- Exposure rating: 200°F with protective outer clothing  
130°F no protective outer clothing
- No moving parts—exceptionally reliable
- Not intended to provide protection from hazardous conditions
- Separate respiratory air source is required
- Vest can be worn under protective outer clothing
- Vest collar unfolds to deliver tempered air flow to neck and face
- Vest allows full range of motion with no airflow restrictions
- Fits workers up to 6'3", 210 pounds



855 Vest and 22815 PAC under welding leathers

Model Number	Description	Compressed Air Consumption		Temperature	
		100 PSIG SCFM	6.9 Bar SLPM	Drop °F / °C	Rise °F / °C
22815	Vortex Air Conditioner with belt 900 BTUH	15	425	60 / 30	
22825	Vortex Air Conditioner with belt 1500 BTUH	25	708	60 / 30	
22835	Vortex Air Conditioner with belt 2500 BTUH	35	991	60 / 30	
220	Hot/Cold Air Conditioner w/belt 1500 BTUH	25	708	60 / 30	60 / 30

Vortex Air Conditioners have 1/4" compressed air Quick Connects and 3/4" garden hose thread for discharge air flows.

## Heat Pump Heat Exchanger

The Model 1140 Heat Pump is used to replace existing enclosure fans that draw in dirt, dust and heat and cause equipment damage.

- Closed loop continuous cooling prevents heat layering
- Seals out dirt, dust and other contamination
- Cools without compressors
- Sealed heat pipe cooling—USES NO FREON
- Rated NEMA 12
- Suitable for either horizontal or vertical mounting

Model Number	Description	Voltage	Phase	Amps	Capacity BTUH 36°F Δ T
1140	Heat Pump Heat Exchanger	115	1	0.56	3750

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**ITW Vortec**  
Mini Cold Air Gun



**ITW Vortec**  
SUMP-N-ATOR Separator



**ITW Vortec**  
Hand-E-Vac

Due to a policy of continuous development, we reserve the right to change specifications without notice.

**ITW VORTEC WARRANTY TERMS**  
Reference Product Guide catalog and/or ITW Vortec invoice Conditions of Sale for complete information.

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