

# Personal Air Conditioners

## Raffreddatori Personali per Vestiti



### Personal Worker Comfort in Hot or Cold Environments

Personal Air Conditioners (PACs) use filtered compressed air and vortex tube technology to keep workers comfortable in extremely hot or cold areas. PACs use the Model 855 or 857 Diffuse Air Vest to distribute cooled or heated air over the upper body.

### Applications

Unlike "ice pack" type vests, the PAC offers consistent and continuous cooling to minimize heat stress and increase worker productivity in hot surroundings. The vest allows full range of motion with no airflow restrictions and can be worn under welding leathers or protective clothing. The vortex tube unit, worn on a supplied belt, cools or heats inlet temperature

by  $\pm 60^{\circ}\text{F}$ .

### Features and Benefits

- Uses filtered compressed air
- Provides continuous cooled air delivery
- Easy temperature adjustment even with gloved hands
- Exposure rating:  $200^{\circ}\text{F}$  with protective outer clothing  $130^{\circ}\text{F}$  no protective outer clothing
- No moving parts - exceptionally reliable
- Vest can be worn under protective outer clothing
- Vest collar unfolds to deliver tempered airflow to neck and face
- Vest allows full range of motion with no airflow restrictions
- Separate respiratory air source is required
- Not intended to provide protection from hazardous conditions
- Fits workers up to 6'4", 250 pounds (XL), 6'2", 210 pounds (L)

### Uses

ITW Vortec PACs provide effective cooling or heating, and are especially popular for workers operating near:

- Foundries
- Boiler rooms
- Steel mills
- Glass plants
- Power plants
- Forging shops
- Casting shops
- Welding operations
- Sand blasting
- Paint baking operations
- Powder coating
- Refrigerated lockers
- Smelters
- Mines
- Asbestos abatement
- Hazardous waste removal

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# Personal Vortex Cooling Systems

Personal Worker Comfort in hot or cold environments.

## 22815: Vortex Mancooling Tube (264 Watts)

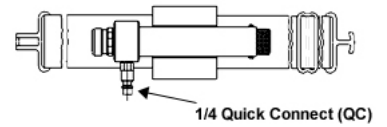
Power: 900 BTU/h (264 Watts, 227  
kCal/h)

Test pressure: 100 psig (6.9 bars)

Airflow: 15 scfm (420 l/min)

Quick Connect: 1/4 " (6.4 mm.)

Garden Hose (tempered air discharge):  
3/4 " (19.1 mm.)



## 22825: Vortex Mancooling Tube (440 Watts)

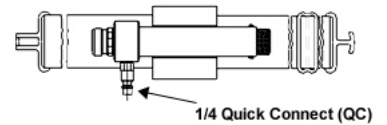
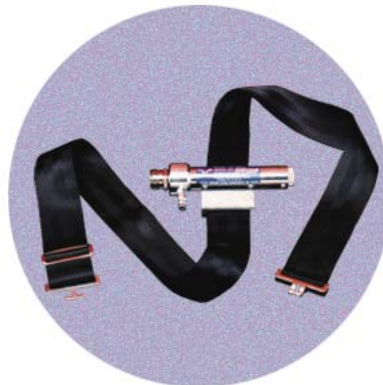
Power: 1500 BTU/h (440 Watts, 380  
kCal/h)

Test pressure: 100 psig (6.9 bars)

Airflow: 25 scfm (710 l/min)

Quick Connect: 1/4 " (6.4 mm.)

Garden Hose (tempered air discharge):  
3/4 " (19.1 mm.)



## 22835: Vortex Mancooling Tube (733 Watts)

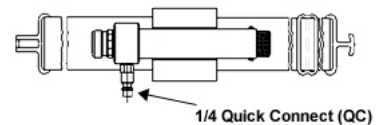
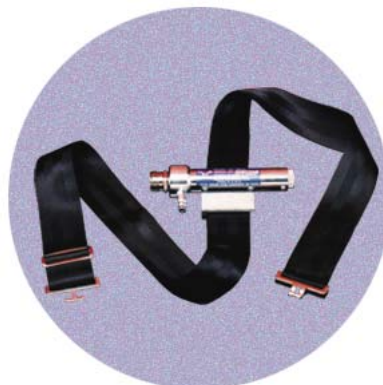
Power: 2500 BTU/h (733 Watts, 630  
kCal/h)

Test pressure: 100 psig (6.9 bars)

Airflow: 35 scfm (990 l/min)

Quick Connect: 1/4 " (6.4 mm.)

Garden Hose (tempered air discharge):  
3/4 " (19.1 mm.)



## 220: Vortex Mancooling Manheating Tube (440 Watts)

Power: 1500 BTU/h (440 Watts, 380

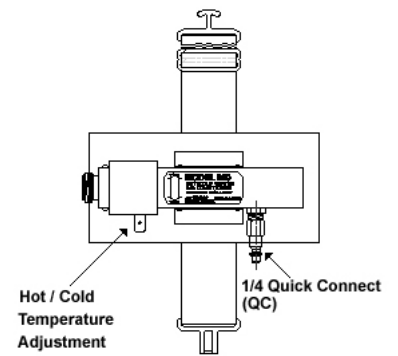
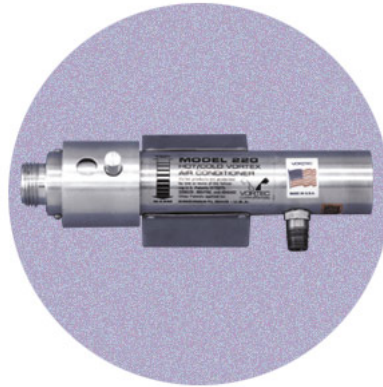
kCal/h)

Test pressure: 100 psig (6.9 bars)

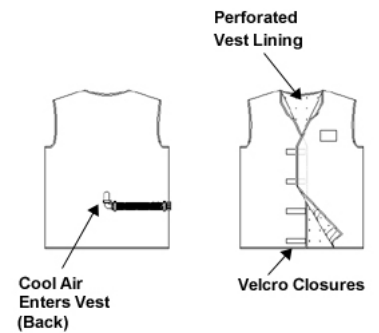
Airflow: 25 scfm (710 l/min)

Quick connect: 1/4 " (6.4 mm.)

Garden Hose connection (tempered air discharge): 3/4 " (19.1 mm.)



## 855: Vest (small to regular size) use with Vortex Mancooler



## 857: Vest (large to x-large) use with Vortex Mancooler

