

## SPECIFICATIONS

Product Description: **AIR TEMPERATURE CONTROLLER**  
Part Number: **4000-20**  
Style: **VORTEX, HEATER**

### GENERAL DESCRIPTION:

Vortex tubes are an effective, low-cost solution to respiratory cooling needs. With no moving parts, a vortex tube spins compressed air to separate the air into cold and hot air streams by forcing the compressed air through a generation chamber which spins the air centrifugally along the inner walls at a high rate of speed toward the control valve. The air temperature controller adjusts the amount of air to the helmet and adjusts air 25° F (-3.8° C) warmer than the ambient air for use in cold environments.



### AIR QUALITY:

The respirator's air source must always be supplied with clean breathable air, Grade D or better as defined by the Compressed Gas Association. (Commodity Specification G7.1)

### TECHNICAL:

Body: Plastic  
Fitting: ¼" (0.63 cm) stainless steel quick-connect (Rectus style)  
Belt: Nylon  
PSI Range: 67-92 psi  
Weight: 1.3 lbs. (0.58 Kg)  
Color: Red body with black control valve

### BENEFITS:

- Lightweight for better comfort
- Provides continuous warm air delivery
- No moving parts
- Easy to adjust control valve even with gloved hands
- Will warm compressed air by 25° F (-3.8° C)
- Belt adjust to fit up to a 50" (127.0 cm) waist

### NIOSH APPROVAL:

NIOSH approved to supply a continuous flow of warm compressed air to the Nova 2000 supplied air respirator. (Approval number TC-19C-363)

**(USE ONLY NIOSH APPROVED AIRLINE HOSE)**