

## **SPECIFICATIONS**

Product Description: **COOLER**  
Part Number: **9991**  
Style: **VORTEX**

### **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. A fraction of the hot air is discharged at the control valve. The remainder of the slower air stream is forced to counter-flow up through the center of the high-speed air stream, giving up heat, through the center of the generation chamber finally exiting through the opposite end as extremely cold air.



### **CONSTRUCTION:**

Body: Aluminum  
Fitting: Hansen 1/4" (0.63 cm) plug (series 1000) Stainless Steel  
Belt: Nylon

### **BENEFITS:**

- Uses filtered compressed air
- Provides continuous cool air delivery
- Easy temperature adjustment even with gloved hands
- No moving parts
- Exceptionally reliable
- A control valve allows for temperature adjustment
- Will cool compressed air by 25° F (-3.9° C)
- Requires an air supply pressure range from 50 -115 psi