

## For optional use with Bullard Airline Respirators

Includes: AC1000 Cool Tube, belt bracket, nylon belt and heat shield.

Function: The AC1000 is designed to supply a continuous flow of cool air to certain Bullard supplied air respirators.

### ⚠ CAUTION

**AC1000 cannot be used with a low pressure air source such as an ambient air pump.**

### ⚠ WARNING

This climate control system is not recommended for cooling the air supply when the air temperature is less than 70°F (21°C). Since the system may cool the incoming air by more than 30°F (17°C), it is possible for ice to form in the breathing tube and reduce the airflow. Failure to observe this warning could result in death or serious injury or life-threatening delayed lung disease including but not limited to as silicosis, pneumoconiosis, or asbestosis.

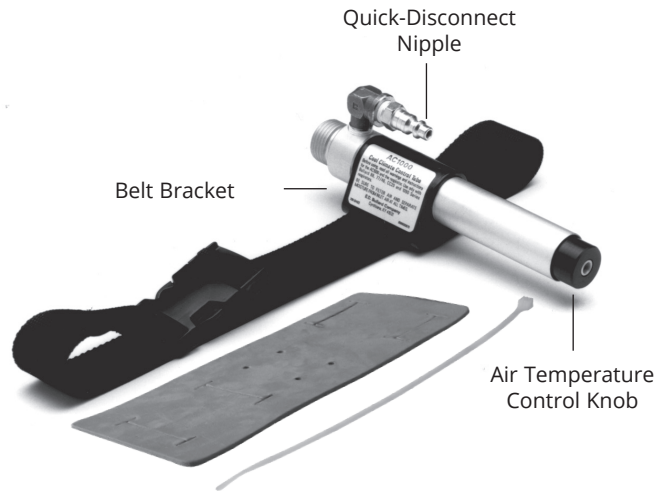
## Air Pressure

Continually monitor the air pressure at the point-of-attachment while operating the respirator. A reliable air pressure gauge must be present to monitor the pressure.

### ⚠ WARNING

Failure to supply the minimum required pressure at the point-of-attachment for your hose length will reduce airflow and could result in death or serious injury or life-threatening delayed lung disease including but not limited to as silicosis, pneumoconiosis, or asbestosis.

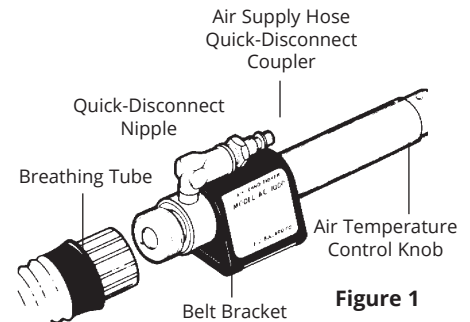
You must always operate the Bullard climate control device within the required pressure range for the specific Bullard supplied air respirator you are using. Using the correct pressure range will ensure that the air flow delivered to the respirator meets the NIOSH airflow requirements. Refer to the Supplied Air Pressure Tables located in the Bullard respirator user manuals to determine the correct pressure that should be used with the climate control device. If you do not have the respirator's user manual, contact Bullard Customer Service at the address or phone number given below.



## Preparation and Use of the AC1000

1. In an uncontaminated atmosphere, screw the hose connector fitting on the end of the breathing tube to the fitting on the AC1000. Tighten hose connectors firmly (Figure 1).
2. Lace the belt supplied with the Cool Tube through the belt bracket. Slots are provided for wearing the tube either vertically or horizontally on the waist. See Heat Shield instructions.

3. With the approved Bullard air supply hose connected to the air source and with air flowing into the hose, connect the quick-disconnect coupler on the air supply hose to the quick-disconnect nipple on the AC1000 Cool Tube.

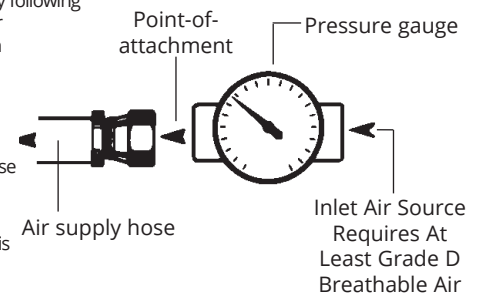


4. Adjust the air pressure at the point-of-attachment to within the approved pressure range (Figure 2). See the Supplied Air Pressure Table in the user manuals.

5. Don the respirator by following the directions in your respirator instruction manual.

6. To obtain cooler air, turn the air temperature control knob counterclockwise (Figure 1).

Maximum cooling is attained when knob is fully open and when there is maximum airflow out of the AC1000 exhaust port.



**Figure 2**

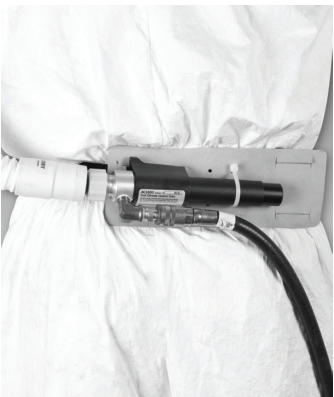
To obtain air that is closer to ambient temperature, turn air temperature control knob clockwise. If knob is fully closed, your respirator will receive air at ambient temperature.

7. When finished working, leave the work area wearing the respirator until you are in a clean air environment containing at least Grade D breathable air. With the air still flowing into the respirator, remove the respirator and then disconnect the air supply hose using the quick-disconnect coupler attached to the AC1000 Cool Tube.

## Heat Shield Instructions

### Assembly

1. Determine whether the climate control device will be worn vertically or horizontally on the waist.
2. If the device will be worn in the horizontal position, align the tube on the heat shield as shown in Figure 3. If the tube will be worn in the vertical position, align the tube on the heat shield as shown in Figure 4.
3. Lace the belt supplied with your climate control device through both the heat shield slots and the climate control belt bracket slots.
4. Use plastic zip tie to secure the climate control unit to the heat shield.



**Figure 3**



**Figure 4**



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Bullard Center  
2421 Fortune Drive  
Lexington, KY 40509 • USA  
877-BULLARD (285-5273)  
Tel: +1-859-234-6616  
Fax: +1-859-246-0243

Americas Operations  
1898 Safety Way  
Cynthiana, KY 41031 • USA  
877-BULLARD (285-5273)  
Tel: +1-859-234-6616  
Fax: +1-859-234-8987

Bullard GmbH  
Dieselstrasse 8a  
53424 Remagen • Germany  
Tel: +49-2642 999980  
Fax: +49-2642 9999829

Bullard AsiaPacific Pte. Ltd.  
51 Changi Business Park  
Central 2  
#03-04 The Signature  
Singapore 486066  
Tel: +65 6745 0556