

INCLUDES: Frigitron 2000 and Belt

FUNCTION: The Frigitron 2000 is NIOSH approved to supply a continuous flow of cool air as part of Bullard supplied air respirator systems. Please consult the NIOSH approval matrix in your respirator user manual to verify that the Frigitron 2000 is NIOSH approved for your specific configuration. All Bullard parts must be present and properly assembled to constitute a NIOSH-approved respirator.

NOTE:
Frigitron 2000 **CAN** be used with a low pressure air source such as Bullard ambient air pump Models ADP20, EDP30, and ICEPUMP11.

CAUTION: BEFORE USING THIS PRODUCT, READ AND FOLLOW ALL DIRECTIONS AND WARNINGS, INCLUDING THOSE IN THE RESPIRATOR INSTRUCTION MANUAL.

▲ WARNING

Connecting the respirator to a line supplying Nitrogen or other harmful gases could cause death or serious injury

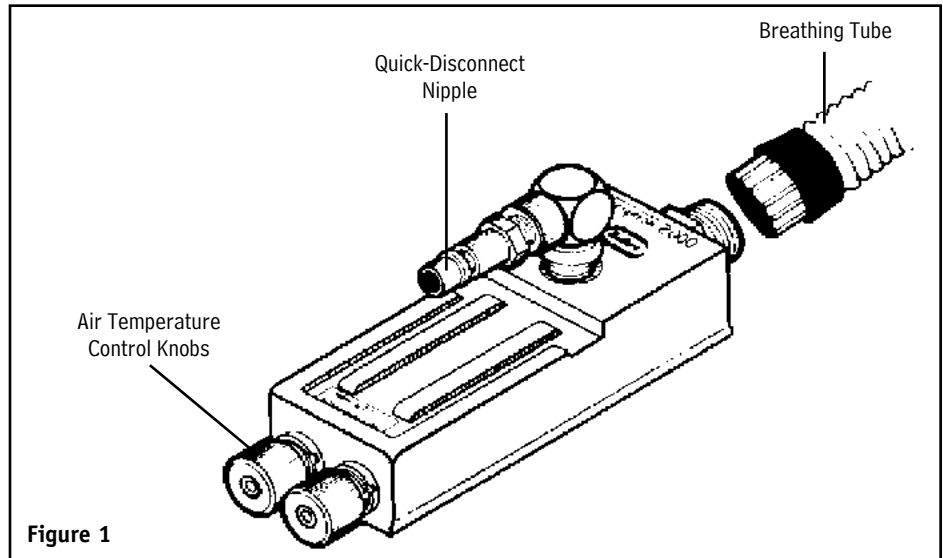


Figure 1

Air Quality, Air Pressure and Air Supply Hose Length Requirements

Air Quality

▲ WARNING

The respirator's air source must supply clean, breathable air, Grade D or better, at all times. The respirator does NOT purify air or filter out contaminants.

Respirable air must be supplied to the point-of-attachment of the BULLARD air supply hose. The point-of-attachment is where the air supply hose connects to the fitting that contains a pressure gauge used to monitor the pressure of the air provided to you.

Locate the source of supplied air in a clean environment far enough from your work site to ensure the air remains contaminant-free. Always use an inlet filter on your air source and any monitors and alarms as necessary to assure clean, breathable air at all times.

Supplied breathing air **MUST** meet or exceed the requirements for Type 1 gaseous air described in the Compressed Gas Association Commodity Specification G-7.1 (Grade D or higher quality) as specified by Federal Law 30 CFR, Part II, Subpart J, 11.121(b).

The requirements for Grade D breathable air include:

Oxygen.....	19.5-23.5%
Hydrocarbons (condensed) in mg/m ³ of gas.....	5 mg/m ³ max.
Carbon monoxide	10 ppm max.
Carbon dioxide	1,000 ppm max.
Odor	No detectable odor

No toxic contaminants at levels that make air unsafe to breathe.

Refer to C.G.A. Commodity Specification G-7.1 for complete details, or contact the Compressed Gas Association (1235 Jefferson Davis Highway, Arlington, VA 22202).

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 may expose you to life threatening conditions, diseases or death.

The BREATHING AIR PRESSURE TABLE in your respirator user manual defines the air pressure ranges necessary to provide the respirator with a volume of air that falls within the required range of 6-15 cubic feet per minute (cfm) or 170-425 liters per minute (lpm). (See 30 CFR, Part II, Subpart J, 11.124.7). Be sure you understand the information in the BREATHING AIR PRESSURE TABLE before using the respirator.

Air Supply Hose

To maintain your Bullard respirator's NIOSH approval, use only approved Bullard V20 Series hose(s) in lengths of 25-300 feet between the Frigitron's quick-disconnect fitting and the point-of-attachment to the hose.

Bullard quick-disconnect fittings **MUST** be used to connect V20 hose lengths together.

Use of any other air supply hose voids the NIOSH approval on the entire respirator assembly and could reduce the airflow to the respirator, possibly resulting in serious injury or death to the respirator wearer.

▲ WARNING

Before connecting the Frigitron 2000 to the respirator, be sure the breathing air at least meets the minimum Grade D requirements. (See Air Quality section on front page.)

Preparation and Use of the Frigitron 2000

1. In an uncontaminated atmosphere, screw the end of the breathing tube to the fitting on the climate control device. Tighten hose connectors firmly.
2. Lace the belt supplied with the Cool Tube through the belt bracket.
3. With the approved Bullard V20 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 Frigitron 2000.
4. Adjust the air pressure at the point-of-attachment to within the approved pressure range (Figure 2).
5. Put the hood on by following the directions in your respirator instruction manual. If you do not have instructions, contact Bullard Customer Service at the address or phone numbers given below.
6. To obtain cooler air, turn either or both of the air temperature control knobs clockwise (Figure 1).

Maximum cooling is attained when either or both knobs are fully open and when there is maximum airflow out of the Frigitron exhaust ports.

To obtain air that is closer to ambient temperature, turn either or both air temperature control knob counterclockwise. If both knobs are fully closed, your respirator will receive air at ambient temperature.

7. When finished working, leave the work area wearing the respirator. With the air still flowing into the hood, remove the hood and then disconnect the air supply hose using the quick-disconnect coupler attached to the Frigitron 2000.

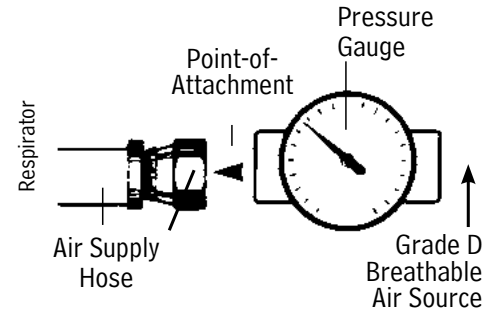


Figure 2

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2717 Tobey • Indianapolis, IN 46219
(317) 545-0665 • FAX (317) 545-0670 • (800) 800-0665
www.idsblast.com



Americas:
Bullard
1898 Safety Way
Cynthiana, KY 41031-9303 • USA
Toll-free within USA: 877-BULLARD (285-5273)
Tel: +1-859-234-6616
Fax: +1-859-234-8987

Europe:
Bullard GmbH
Lilienthalstrasse 12
53424 Remagen • Germany
Tel: +49-2642-999980
Fax: +49-2642-9999829

Asia-Pacific:
Bullard Asia Pacific Pte. Ltd.
LHK Building
701, Sims Drive, #04-03
Singapore 387383
Tel: +65-6745-0556
Fax: +65-6745-5176



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