



Head
Protection



Respiratory
Protection



Fire and Rescue
Safety



Thermal
Imaging

Bullard – Solutions for the Healthcare Community

Many hospitals today are not equipped to treat patients contaminated with Toxic Industrial Chemicals (TIC's). TIC's are a broad class of potentially dangerous contaminants that are commonly used in workplace settings. Bullard can help your organization better prepare for these types of incidents.

The primary OSHA standard that addresses this concern is the Hazardous Waste Operations and Emergency Response (HAZWOPER) standard found in 29 CFR Part 1910.120. For more information on this standard, visit OSHA's web site.

The Danger:

- Anywhere between 60-80% of individuals exposed to these chemicals may bypass the traditional emergency medical services (EMS) and self-present
- If the patient is unable to decontaminate himself, the medical providers need to be equipped to protect themselves while decontaminating the patient
- Lack of proper protection in such cases could endanger the health and safety of the employee and create a potential liability for the hospital

Possible Scenarios:

- A worker is sprayed with solvent from an industrial accident
- A farm worker is contaminated with a pesticide
 - Accidental poisoning
 - An internal spill of materials used at the hospital contaminates a hospital employee
 - Domestic terrorism incident involving TIC's

Examples of Possible Contaminants:

- Formaldehyde, glutaraldehyde, petroleum fuels and lubricants, caustic boiler chemicals, solvents, cleaning agents, alcohols, xylene, radiological fluids, mercury, anesthetic waste gases, disinfectants, ethylene oxide, acids, chemotherapy drugs, fixer, developer, and compounding liquids and powders



Simulation exercise



EDP16TE Free-Air Pump and 20SICH Tychem St. Hood

We've asked the experts!

Working in close collaboration with the Environmental Health and Safety staff at a major medical center Hazmat for Healthcare, and the Environmental Hazards Management Institute, Bullard has identified a system of respiratory protection that can properly protect the workers in incidents such as this. This system also addresses concerns of ease of use, fit testing, long-term shelf life and cost, which are some of the obstacles that arise when implementing a respiratory protection program.



"Planning for employee safety is a very important part of becoming fully prepared to treat patients contaminated with TICs. Bullard has demonstrated a willingness to understand this issue and to help us identify a solution to protect employees in a healthcare setting from airborne contaminants. Besides providing a high level of protection, the CC20 respirator is easy to use and doesn't require fit testing. That makes the package easy for us to implement within a short time."

Paul Penn, Western Director/VP, Environmental Hazards Management Institute; Former Manager of Environmental Health and Safety for Kaiser Permanente Sacramento Medical Center

Bullard Products

Bullard offers a variety of products that meet the needs of this and other applications in the healthcare community.

Respirator of Choice – The CC20 Hood

The CC20 Hood, available in a variety of different models, boasts the highest protection factor for a hood of this type in the industry. The CC20 is applicable for use in areas of patient decontamination, or in areas where airborne bacteria are present.

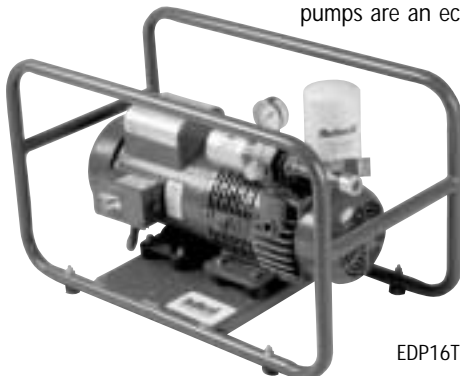
- Tychem QC, or Tychem SL with taped and sealed seams for increased protection
- Lightweight and comfortable, accommodates facial hair and eyeglasses
- Unique inflatable neck cuff air delivery system provides superior protection
- No fit testing required, no latex concerns
- Durable enough to be reused, inexpensive enough to be disposable
- For use with supplied air, Free-Air Pumps, or PA20 Powered Air-purifying Respirator (PAPR)



CC20 Hood - Part # 20TIC

Free-Air Pumps

Bullard's Free-Air Pumps transport clean breathable air into the contaminated working area. These pumps are an economical air source when compressed air is not available.



EDP16TE Free-Air Pump

- Portable, no expensive plumbing or installation
- Oil-less – does not produce CO
- Extremely low maintenance
- Inlet filter may be extended up to 300 feet from pump to a fresh air source
- Available in configurations to accommodate 1-10 users

Ambient Air Cart

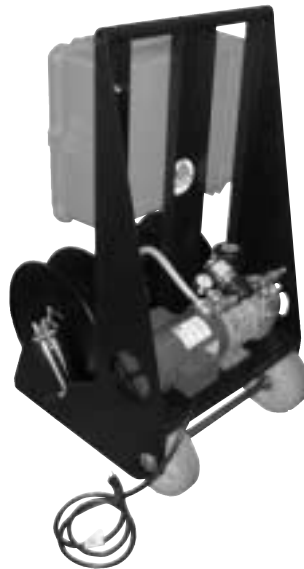
The BAC-20CRT Ambient Air Cart offers the advantages of an ambient air pump (similar to the EDP16TE), combined with portability, storage, and supply hose management.

- 20 CFM electric ambient air pump
- Durable cart for portability
- Two integrated hose reels for better storage and convenience
- Storage compartment for respirator hoods

A New Standard of Excellence – the PA20 Powered Air-Purifying Respirator

The PA20 Series of PAPR combines the proven performance of the CC20 Hoods with the most revolutionary powered air-purifying respirator on the market. Providing mobility and comfort, the PA20 Series provides protection from airborne particulate hazards such as tuberculosis and other bacteria.

- 10 hours of Nickel Metal Hydride battery performance
- Low voltage audible alarm
- Internal battery and filter for ease of decontamination
- 8.5 CFM of airflow
- For use with CC20 Series hoods



BAC-20CRT Ambient Air Cart

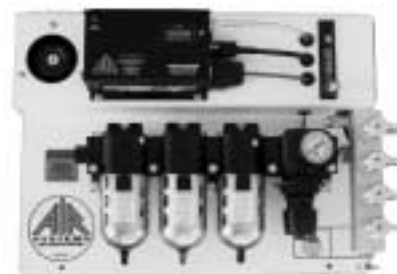


Part # PA20TIC1

Breathing Air Filtration at its Best!

Air Systems' breathing air filtration systems offer the very best in filtration capabilities for compressed air.

- Three stage filtration including bulk water and particulate, oil coalescing and ultra-fine particulate, and organic vapor and odor
- Particulate filtration to 0.01 microns
- Filter efficiency of 99.9998%
- Integrated carbon monoxide (CO) monitor
- Available in durable and rugged Pelican cases, or wall mount panels
- Various configurations for 1-6 person operation



Part # BB50-COPM Filtration Panel

Bullard

It's your life and you're worth it™



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For additional information:

Hazmat for Healthcare website: <http://www.hazmatforhealthcare.org>

Environmental Hazards Management Institute: <http://www.ehmi.org>

NIOSH article on Protecting the Safety and Health of Health Care Workers:
<http://www.cdc.gov/niosh/hcwold0.html>

NIOSH article on Chemical and Biological Respiratory Protection as it relates to
medical response capabilities: <http://www.cdc.gov/niosh/pdfs/2000-122.pdf>

OSHA Paper on Hospital Emergency Response Capabilities:
<http://www.osha-slc.gov/Publications/OSHA3152/osha3152.html>



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