

Powered Air-Purifying Respirator with High Efficiency (HE) Filters (2) – Approval No. TC-21C-0773

Powered Air-Purifying Respirator with PA3NBC cartridges (3) for chlorine, hydrogen chloride, sulfur dioxide, chlorine dioxide, hydrogen fluoride, ammonia, methylamine, and particulates – Approval No. TC-23C-2236

Powered Air-Purifying Respirator with OV-AG-HE Cartridges (3) for organic vapors, chlorine, hydrogen chloride, sulfur dioxide, chlorine dioxide or hydrogen fluoride and particulates – Approval No. TC-23C-2237

Intended Use:

It is anticipated that individuals contaminated as a result of industrial accidents or terrorist attacks may bypass the traditional emergency medical services (EMS) and self-present at a health care facility for treatment. These individuals present multiple risks including: exposure of the healthcare workers that are providing care and treatment to the patient, exposure of other patients at the hospital, contamination of the healthcare facility itself, spreading the contamination away from the point of origin, and the financial risk in terms of the potential liability for the healthcare facility. For these reasons, it is important that there be a practical and effective system in place to decontaminate patients prior to treatment while protecting the healthcare workers.

Healthcare workers performing this decontamination require, among other things, proper and practical respiratory protective equipment.

Bullard recommends the PA30 Series Powered Air-Purifying Respirator (PAPR) to meet this requirement.

PA30 PAPR

Cautions and Limitations

- A. Not for use in atmospheres containing less than 19.5% oxygen.
- B. Not for use in atmospheres immediately dangerous to life or health.
- C. Do not exceed maximum use concentrations established by regulatory standards.
- F. Do not use respirator if airflow is less than four cfm (115 lpm) for tight fitting face pieces or six cfm (170 lpm) for hoods and/or helmets.
- H. Follow established cartridge and canister change schedules or observe ESLI to ensure that cartridges and canisters are replaced before breakthrough.
- I. Contains electrical parts which have not been evaluated as an ignition source in flammable or explosive atmospheres by MSHA/NIOSH.
- J. Failure to properly use and maintain this product could result in injury or death.
- K. The Occupational Safety and Health Administration regulations require gas-proof goggles to be worn with this respirator when used against formaldehyde.
- L. Follow the manufacturer's user instructions for changing cartridges and/or filters.
- M. All approved respirators shall be selected, fitted, used and maintained in accordance with MSHA, OSHA and other applicable regulations.
- N. Never substitute, modify, add or omit parts. Use only exact replacement parts in the configuration as specified by the manufacturer.
- O. Refer to User's Instructions, and/or maintenance manuals for information on use and maintenance of these respirators.
- P. NIOSH does not evaluate respirators for use as surgical masks.

⚠ WARNING

Failure to follow all instructions and warnings could result in death or serious injury.

Use strictly in accordance with instructions, labels and limitations pertaining to the PA30 respirator.

1. The PA30 respirator does not supply oxygen. Use only in adequately ventilated areas containing at least 19.5% oxygen.
2. Do not use when concentrations of contaminants are immediately dangerous to life or health (IDLH). This term is defined in 29CFR 1910.134 (b).
3. Do not use these respirators for respiratory protection during abrasive blasting or clean up.
4. Do not use in circumstances where the airborne concentration level of contaminant exceeds maximum use concentration for this type of respirator as established by regulatory standards.
5. Leave area immediately if:
 - Breathing becomes difficult
 - Dizziness or other distress occurs
 - You taste or smell the contaminant
 - Unit becomes damaged
 - Battery alarm sounds
6. This apparatus must not be worn with the blower unit switched off. If the blower is switched off, a rapid build-up of carbon dioxide and depletion of oxygen may occur, which could result in death or serious injury.
7. Never alter or modify this respirator. Use only Bullard PA30 components and replacement parts for this respirator.



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PA30 Series Powered Air-Purifying Respirator for Hospital Preparedness Applications

PA3H Blower Assembly User Manual

PA3H - Principle of Operation

The PA30 Powered Air-Purifying Respirator (PAPR) System is supplied in six parts:

1. The blower assembly (Part No. PA3H) which includes:
 - PA3BU Blower Unit
 - PA1DB Belt Assembly
 - PA1AFI Air Flow Indicator
2. The battery pack (Part No. PA3BP). One or two packs can be used. One fully charged pack will power the blower for approximately four hours.
3. The breathing tube:
 - PA3HPBT Breathing Tube Assembly with Clamp
4. The cartridges (Part No. PA3NBC) offer protection for most toxic industrial chemicals and are recommended by Bullard for use against chemical warfare agents. The cartridges include High Efficiency particulate filters to protect against biological, radiological, and other particulate contaminants.
5. The hood with headband suspension:
 - 20SICV Hood, with Taped and Sealed Seams, and CBRN-resistant pressed polished vinyl (PVC) lens
 - 20SICVH Hood, with Taped and Sealed Seams, and CBRN-resistant pressed polished vinyl (PVC) lens for use with Bullard Hard Hat
6. The Battery Charger (Part No. PA3SMC Quick Charger or PA3GC Gang Charger).

The blower unit draws in ambient air through the cartridges. The purified air is blown into the wearer's hood through the breathing tube. A flow indicator is provided to check that there is an adequate volume of air available to the wearer prior to use.

The units are designed for use at temperatures from 10°F to 120°F (-12°C to 49°C).

The system is designed to operate at a minimum air flow of 7.5 cubic feet of air per minute (210 liters per minute) in the hood under normal use.

The battery packs mount in compartments on the back of the blower. One fully charged battery pack will power the blower for approximately four hours. Two fully charged packs will run for approximately eight hours.

The PA3BU is fitted with an audible alarm which will sound due to low battery power.

Battery Pack

A fully charged battery pack will power a blower unit to provide adequate air volume for the respirator for up to 8 hours for the PA3BU under normal working conditions, depending on whether one or two battery packs are used.

To charge the battery pack, do the following:

- Open the battery latch and remove the battery from the back of the blower. One or two batteries can be used.
- Place each battery in the charging ports of the battery charger. Ensure that the battery contacts line up with the contacts in the charger port (**see Figure 1**).



Figure 1

- Connect the battery charger to a 115-volt AC electrical outlet. Charge the battery pack for approximately 8 hours.

While the battery is charging, the light on the charger will remain on. The charger light will flash when charging is complete.

The charger will then be in a “trickle” mode. The charger will allow the battery to discharge for a period of 22 hours, and charge for a period of 2 hours. This process repeats as long as the battery remains on charge in order to preserve battery performance and duration.

A table-top gang charger with 6 ports, Part No. PA3GC, is also available.

Initial Charging Procedure with Quick Charger

To ensure a full charge on a new battery pack, follow these important guidelines. These guidelines also apply to battery packs that have been in storage for extended periods of time.

For new battery packs or packs that have been in storage for extended periods of time, follow the directions above under “Battery Pack”, and when the light begins to flash on the charger do the following:

- Unplug the charger power cord. Wait 15 seconds. Plug the charger in again. The charger light will now remain on.
- When the light begins flashing again, unplug the charger power cord. Wait 15 seconds. Plug the charger in again. The charger light will now remain on.

The charger light will flash a third time, indicating that the battery is fully charged.

This procedure should also be followed after periods of prolonged storage. Without periodic charging, the nickel metal hydride batteries will lose up to 1% of their charge per day. Allowing a battery to self-discharge during periods of prolonged storage will not damage the battery.

NOTE

For hospital preparedness applications, the batteries should be left on charge at all times to insure adequate performance when needed. The nickel metal hydride batteries and quick charger have been engineered so that prolonged charging will not degrade battery performance or duration, however charging for periods of greater than 2 years without use may affect the performance.

Pre-Operational Inspection

Prior to each work shift, perform the following Pre-Operational Inspection to ensure proper operation and to insure that the unit is complete.

1. Belt Mounted Blower Unit, Part No. PA3BU

- Check that the unit is clean and undamaged.
- Inspect for deterioration, physical damage, and improper assembly.
- Ensure that the canisters are properly mounted on the blower unit. Screw the cartridges into the ports until hand-tight.

Consult your own safety professional if you have any questions as to the suitability and efficiency of the Air-Purifying Element.

2. Battery Pack

- Check that the battery is not damaged.
- Place the battery pack in the battery compartment on the blower by first engaging the tab on the pack under the lip on the edge of the compartment. Then close the latch. Place a second battery pack in the other compartment, if desired. If only one battery is used, install the PA3BPC battery port cover over the unused port.

3. Hood with Suspension or Hard Hat, or Loose Fitting Facepiece

- The hood is constructed of Tychem SL. Depending on the model selected, it may be used with either a headband suspension or a hard hat.
- Inspect the hood for any physical damage.

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Mounting the Breathing Tube on the PA3BU Blower

Ensure that a gray rubber gasket is in place in the breathing tube coupler on the blower unit (see Figure 2).

Screw one end of the breathing tube into the blower unit (hand tight is sufficient) (see Figure 2).

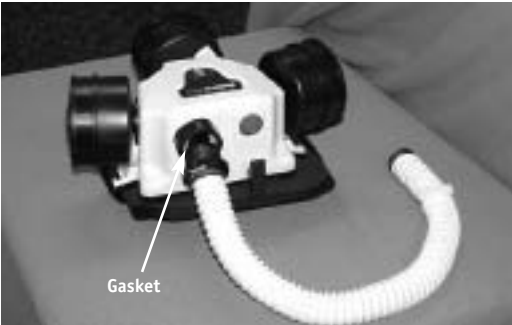


Figure 2

Ensure that neither the breathing tube nor the filter is blocked.

Ensure that the ON/OFF Switch is in the OFF position.

Switch on the blower. If the Low Battery Alarm sounds at this time, the battery needs to be recharged. See instructions on page 4 regarding properly charging the battery.

NOTE

The low battery alarm will sound a short beep as the power switch is cycled on and off, indicating that the alarm is functioning properly. The alarm will sound continuously to indicate low battery power.

Checking Airflow with the Airflow Indicator (PA1AFI)

With the blower switched ON and the filters/cartridges mounted, take the free end of the breathing tube in one hand, hold it upright and place the Airflow Indicator into the end of the tube (see Figure 3).



Figure 3

Apply a light downward pressure to the Airflow Indicator to get a reasonable seal at the breathing tube end. Ensure that the air outlet holes in the Airflow Indicator tube are not blocked. Two hands may be used if preferred, one to hold the breathing tube and one to hold the Airflow Indicator.

The position of the ball in the Airflow Indicator should be observed. If any part of the ball is below the PASS LINE on the Airflow Indicator, check for:

- Blower malfunction.
- Clogged or damaged cartridges. See "Mounting and Replacing Canisters on the Blower Unit" on page 7.
- Low battery charge or battery malfunction.

If the ball is completely above the PASS LINE on the Airflow Indicator, then the system is ready for use.

NOTE

Due to the back-pressure of the ball, the Low Battery Alarm may sound when a reading is being taken. If the ball bounces, let it stabilize, and then read the lowest point.

When the blower passes the flow test, it is ready to use.

WARNING

If the blower malfunctions during use in a hazardous area:

DO NOT remove the respirator hood, blower or waist-belt while in the hazardous area.

DO remain calm and **LEAVE** the hazardous area immediately.

After reaching a hazard-free area, immediately remove the respirator.

DO NOT use a blower that fails the flow test.

This apparatus **MUST NOT** be worn with the blower unit switched off. If the blower unit is switched off, a rapid build-up of carbon dioxide and depletion of oxygen may occur, which could result in death or serious injury.

Failure to observe these warnings could result in death or serious injury.

PA3BU/PA5BU Air-Purifying Elements

Principle of Operation

The following filter/cartridge protection classification applies when used with any of the hoods or loose fitting facepieces. In the following table "Quantity" refers to the number of filters/cartridges which must be attached to the blower unit to provide the required protection.



Protection	Filter/Cartridge Type	Quantity	NIOSH / ANSI Color Code for Cartridge Label
HE	PA3HE	2	Purple
CL/HC/SD/CD/HF/FM/AM/MA/HE	PA3NBC*	3	Olive Green and Purple
OV/CL/HC/SD/CD/HF/HE	PA3OVAGHE	3	Yellow and Purple

*The PA3NBC cartridge provides protection for acid gases, formaldehyde, and ammonia and therefore is effective against a wide range of Toxic Industrial Chemicals. The High Efficiency (HE) Particulate Filter provides protection against airborne bacteria, viruses, and other particulates. Although not NIOSH-approved for use with the following contaminants, independent laboratories have tested and verified that the PA3NBC cartridge is effective against many chemical warfare agents and/or their recognized surrogates. These agents/surrogates are listed below.

PA3NBC CARTRIDGE CHEMICAL WARFARE GAS PERFORMANCE TESTING				
Gas Challenge	Test Concentration	Flow Rate	Breakthrough Concentration	Time to Breakthrough
DMMP	3000 mg/m ³	50 lpm	.04 mg/m ³	>120 minutes*
Sarin (GB)	4000 mg/m ³	32 lpm	.04 mg/m ³	>120 minutes*
Cyanogen Chloride (CK)	4000 mg/m ³	32 lpm	8.0 mg/m ³	30 minutes*
Chloropicrin (PS)	15000 mg/m ³	30 lpm	0.7 mg/m ³	60 minutes
Hydrogen Cyanide (AC)	5500 mg/m ³	30 lpm	5.0 mg/m ³	>30 minutes
Tear Gas (CS)	23 mg/m ³	64 lpm	0.4 mg/m ³	>480 minutes
Tear Gas (CN)	101 mg/m ³	64 lpm	0.3 mg/m ³	>480 minutes

*These tests are part of the performance specifications for the C2A1 military canister. The PA3NBC Cartridge meets or exceeds the performance requirements of the C2A1 canister for these gases.

Filters and cartridges are supplied in quantities of 6 per box.

HE particulate filters are 99.97% effective against all particulate aerosols.

The following abbreviations are used to indicate the particulates, gases or vapors which are removed by the gas/vapor portion of the cartridge:

CL	Chlorine
CD	Chlorine Dioxide
HC	Hydrogen Chloride
SD	Sulfur Dioxide
FM	Formaldehyde
AM	Ammonia
MA	Methylamine
HF	Hydrogen Fluoride
HE	High Efficiency Particulate Air Filter for Powered Air-Purifying Respirators

⚠ WARNING

Use only the cartridge described in the above table. Used/particulate-laden cartridges must be changed as a set and not individually. All cartridges must be of the same type. Do not change cartridges while in a hazardous atmosphere. Incorrect cartridge selection will invalidate all performance statements and approvals for this equipment.

Three (3) of the same type of cartridge must be used on the PA3BU blower unit, with the exception of the PA3HE filters which are used two (2) at a time, in conjunction with the PA3PG plug. DO NOT use the PA3PG plug to close off a port with any other cartridge type.

The PA3NBC cartridges and PA3H blower should only be used with the 20SICVH and 20SICVH hoods. These hoods are made of Tychem SL, which has been tested by DuPont and shown to be effective against chemical warfare agents. These hoods also feature a press polished vinyl lens adequate for hospital preparedness applications.

These respirators are not NIOSH-approved for use against chemical warfare agents.

The respirator and cartridges should not be used beyond eight (8) hours after initial exposure to chemical warfare agents to avoid possibility of agent permeation. If liquid exposure is encountered, the respirator should not be used for more than two (2) hours.

Follow established canister change schedules to ensure that cartridges are replaced before breakthrough occurs.

Failure to follow these warnings could result in death or serious injury.

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Mounting and Replacing Cartridges on the Blower Unit

The useful life of a chemical cartridge for vapors and gases will vary with the concentration and nature of the contaminant, the breathing rate of the respirator wearer, and ambient temperature and humidity.

The Occupational Safety and Health Administration (OSHA) regulations 29 CFR 1910.134 require that the employer must implement a change schedule when using Air-Purifying respirators for protection against gases and vapors, if there is no end-of-service-life indicator on the cartridges. The change schedule must be based on objective data that will ensure that the cartridges are replaced before the end of their service life. Factors to consider include workplace conditions such as contaminant concentration, relative humidity, temperature, work activities, respirator use pattern (e.g., continuous or intermittent use), presence of other contaminants, potential for contaminant migration/desorption, health effects of the gas or vapor, and the presence of any warning properties.

High efficiency particulate filters must be replaced when the clogging of the filter due to retained particles reduces the air flow below the acceptable level, as indicated by testing with the Air Flow Indicator. See page 5.

To Replace Cartridges

Remove the air-purifying element from its packaging, and inspect for damage. If in doubt do not use.

Check that the air-purifying element has not exceeded its "use-by" date and that the connecting thread is in good condition.

Check that the air-purifying element is appropriate to the hazard. If in doubt consult your respirator program administrator or supervisor.

Check that the threads in the blower unit port are in good condition and clear of contaminant.

Check that the PA3BU blower ports have the gray rubber gasket seals present.

Remove the air-purifying element seals (see Figure 4).

Screw the air-purifying elements into the receptacles (see Figure 5) until the cartridge is hand tight. **DO NOT OVERTIGHTEN.**

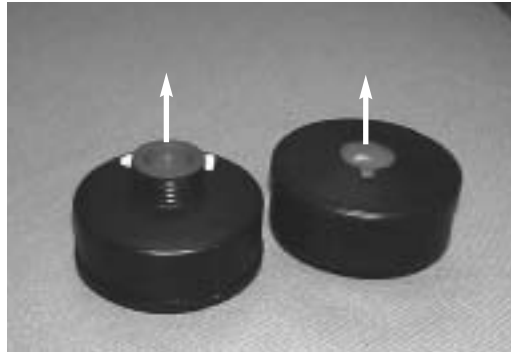


Figure 4



Figure 5

When using the two PA3HE filter cartridges, install the filter plug into one of the ports. **DO NOT OVERTIGHTEN** (Figure 6).



Figure 6

Donning the Blower and Respirator Hood

Prepare to don the blower, battery and hood in a safe, hazard-free area and do the following:

Check that the cartridges are properly mounted on the blower unit.

Prior to assembling the system, place the battery in the battery compartment on the back of the blower. One or two battery packs may be used. (See instructions on page 4.) Fit the blower and belt around the user's waist. With the blower at the rear of the user, adjust the belt for a comfortable fit.

Remove the belt and blower.

Ensure that the cartridges used are suitable for the contaminant in question and are compatible with the PA3BU Blower Unit.

For Hoods:

Insert the Breathing Tube 5 inches into the air entry sleeve at the rear of the hood being used (see Figure 7).

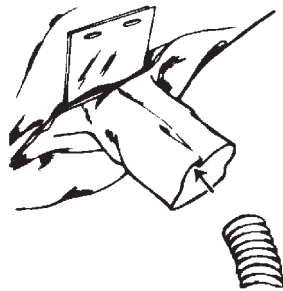


Figure 7

Install nylon clamp over air entry sleeve and breathing tube, inserting clamp locks through two holes in plastic anchor plate that is sewn into hood. Locks should face away from user's neck.

Engage clamp locks and squeeze together until tight.

Attach the other end of breathing tube to blower unit by screwing adapters together.

Put on the belt and blower assembly and make any final adjustments to the belt as necessary, keeping the breathing tube and hood behind the head.

Switch **ON** the blower.

Place the hood on the head making any final adjustments to the fit as required at this time to ensure a comfortable and stable fit.

⚠ WARNING

Do not enter a hazardous area until you are sure that the blower and hood are fully operational and the blower is running. The user should periodically leave the hazardous area to check the airflow through the system. If the PA3BU Low Battery Alarm should sound, or if the user experiences any difficulty in breathing, or senses any taste or any odors from the hazard, the user should leave the hazardous area immediately. Failure to observe these warnings could result in death or serious injury.

PA3BU Low Battery Alarm

The PA3BU Blower unit is fitted with a Low Battery Alarm. This device will activate if the battery power is below acceptable power supply levels. The alarm is internal to the blower and the sound will be carried up the breathing tube into the hood. Sounding of the alarm indicates that insufficient airflow may be imminent. The user should immediately do the following:

Leave the hazard area, remove the headpiece, disconnect the breathing tube from the hood and check the airflow with the airflow indicator (see page 5).

If the airflow indicator indicates insufficient airflow, the battery should be fully charged (see "Battery Pack" on page 4), and/or the filter/cartridge should be replaced.

The PA3BU Low Battery Alarm must not be solely relied upon as an indication of a low air flow condition. Only the Air Flow Indicator should be utilized for checking for adequate air flow.

👉 NOTE

The PA3BU blower is provided with a circuit to protect the battery. It will not allow the battery to be discharged below a safe voltage for the cells, regardless of airflow, without the Alarm sounding. When the Low Battery Alarm sounds and the cartridges are within their useful life, the battery should be recharged to protect the battery and thereby prolong the working life of the unit. If the ball in the Airflow Indicator is **BELOW** or **PARTLY BELOW** the **PASS LINE** with a fully charged battery, the cartridges may need to be changed.

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PA3H Blower Assembly User Manual

Troubleshooting

The following guide will enable you to locate and correct malfunctions:

Malfunction	Possible Cause	Solution
Low Battery Alarm is sounding, but Airflow Indicator shows adequate air flow	Low Battery Air inlet to hood is twisted or constricted, or breathing tube inserted incorrectly	Re-charge battery. Remove, inspect, and reinsert PA1BT Breathing Tube 5" into hood inlet.
No/low airflow into covering (Alarm sounding for low battery)	Clogged/damaged cartridge Battery low Blower malfunction Breathing tube or hood damaged	Replace the cartridge. Re-charge battery. Replace blower. Replace breathing tube and/or hood.
Smell or taste contaminant	Equipment damaged or filter needs to be replaced Low airflow	Leave hazardous area immediately and check equipment. Replace cartridge. If the problem persists and no damage is found, return equipment for evaluation. See above.
Blower unit does not run for full service life (8 hours with 2 battery packs; 4 hours with 1 battery pack)	Improper initial charge Prolonged storage of unit not on charger	Review "Initial Charging Procedure" on page 4.

Cleaning

⚠ WARNING

Avoid contaminant entry into the breathing tube, as this will compromise respiratory protection and could result in death or serious injury. Consult your local safety professional if you suspect that contaminant has entered the breathing tube. When cleaning the equipment, do the following:

Ensure water does not enter cartridges. Replace wet cartridges.

DO NOT use gasoline, organic-based solvents, or chlorinated degreasing fluids (such as trichloroethylene) as they will cause damage.

DO NOT immerse the equipment in water or other cleaning fluid as this may cause contamination in the breathing tube and blower interior that will be difficult to remove.

Failure to observe the instructions and warnings in this manual invalidates all performance statements and approvals for this equipment and could result in death or serious injury.

Once cartridges have reached the end of their useful life, discard in accordance with federal, state, and local guidelines, and in conformance with facility safety regulations.

Use a lint-free cloth moistened in a mild solution of soap and warm water to clean the outer surface of the equipment.

Consult the PA30 Series Tychem Hood User Manual for cleaning instructions for the hood components.

Storage

When the apparatus is completely dry, store in a clean, dry area, away from direct sunlight and sources of direct heat.

The storage temperature should be between 32° F to 90° F (0° C to 32° C) with humidity less than 90% RH.

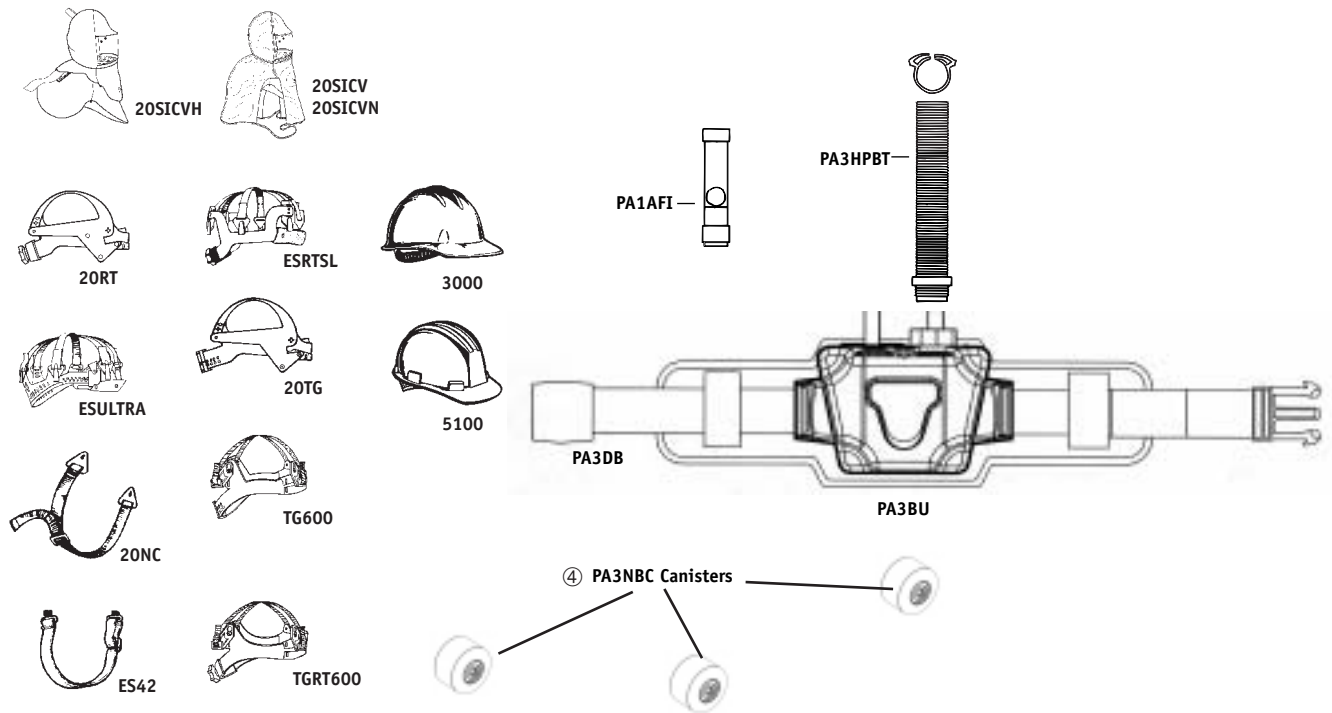
Screw PA3PG port plugs into each of the three canister inlet ports and into the breathing tube outlet port

Consult the CC20/PA30 Series Tychem Hood User Manual for storage instructions on hood components.

PA30 Series Powered Air-Purifying Respirator for Hospital Preparedness Applications

PA3H Blower Assembly User Manual

CATALOG NUMBER	DESCRIPTION	CATALOG NUMBER	DESCRIPTION
Blower Assembly		20SICVN	Tychem SL, with taped and sealed seams, no headband suspension, pressed polished vinyl lens
PA3H	Blower unit with low voltage alarm and vinyl belt. Breathing tube, battery and charger sold separately.		
Battery Chargers		Headband Suspensions and Hard Hats	
PA3SMC	Quick charger for PA3BP (2 ports)	20TG	Standard headband suspension
PA3GC	Table top gang charger for PA3BP (5 ports)	20RT	Sure-Lock® ratchet headband suspension
Replacement Cartridges		3000	Hard hat with standard suspension, white
PA3NBC	Hospital Preparedness Cartridge (6 per box)	3000R	Hard hat with ratchet suspension, white
PA3OVAGHE	Hospital Preparedness Cartridge (6 per box)	5100	Hard hat with standard suspension, white
PA3HE	High Efficiency Particulate Filters (6 per box)	5100R	Hard hat with ratchet suspension, white
Respirator System		Accessories for Headbands Suspension and Hard Hats	
PA30PREP	Hospital Preparedness PAPR System includes PA3H Blower Assembly, PA3HPBT Breathing Tube, 20SICVN Tychem SL Hood, 20RT Ratchet Suspension, PA3SMC Charger and set of 3 PA3NBC Cartridges.	ESULTRA	Standard replacement suspension for 3000 hard hat
Respirator Hoods		ESRTSL	Replacement ratchet suspension for 3000R hard hat
Hood with inner bib, for use with Bullard hard hat		TG600	Standard replacement suspension for 5100 hard hat
20SICVH	Tychem SL, with taped and sealed seams, hard hat not included, press polished vinyl lens	TGRT600	Replacement ratchet suspension for 5100R hard hat
Hood with inner bib and long outer bib, for use with headband suspension		20NC	Chin strap for 20TG and 20RT headband suspension
20SICV	Tychem SL, with taped and sealed seams, and 20TG headband suspension, press polished vinyl lens	ES42	Chin strap for 3000 and 5100 hard hats
		Replacement Parts and Accessories	
		PA1DB	Decon belt
		PA1DEB	Extension decon belt kit
		PA1AFI	Air flow indicator
		PA3BU	Blower housing unit, motor and impeller
		PA3HPBT	Breathing tube assembly; includes tube and clamp
		PA1BTS	Breathing tube/cartridge seal
		PA3BP	4 hour battery pack
		S18051	Breathing tube clamp
		PA3BPC	Battery port cover
		20SLBTC	Tychem SL Breathing tube cover
		PA3PG	Port plug for storage



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