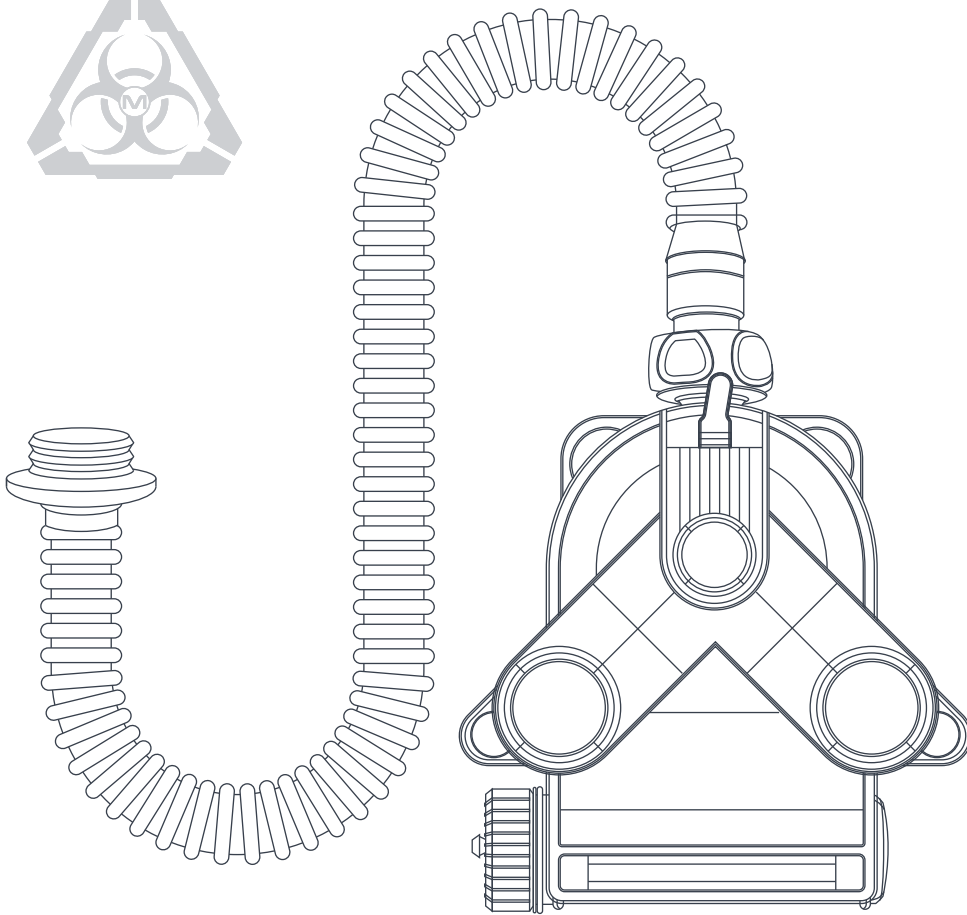




MB-90

**POWERED AIR-PURIFYING
RESPIRATOR (PAPR)**



RD011721

! WARNING

IMPROPER USE OF THIS RESPIRATOR MAY RESULT IN PERSONAL INJURY OR DEATH. IMPROPER USE INCLUDES, BUT IS NOT LIMITED TO, USE IN ATMOSPHERES CONTAINING UNKNOWN CONTAMINANTS AND/OR UNKNOWN CONCENTRATIONS OF CONTAMINANTS, USE WITHOUT ADEQUATE TRAINING, DISREGARD OF THE WARNINGS AND INSTRUCTIONS CONTAINED HEREIN OR FAILURE TO INSPECT AND MAINTAIN THIS RESPIRATOR. THIS RESPIRATOR IS NOT INTENDED FOR USE IN ATMOSPHERES WHICH ARE, OR MAY BECOME, IMMEDIATELY DANGEROUS TO LIFE OR HEALTH, OR IN ATMOSPHERES WHERE THE IDENTITY AND/OR CONCENTRATION OF THE CONTAMINANT IS UNKNOWN.

THIS RESPIRATOR DOES NOT SUPPLY OXYGEN AND MUST NOT BE USED IN OXYGEN-DEFICIENT ATMOSPHERES CONTAINING LESS THAN 19.5% OXYGEN.

THIS RESPIRATOR IS INTENDED TO BE USED ONLY IN CONJUNCTION WITH AN ORGANIZED RESPIRATORY PROTECTION PROGRAM OR LARGER PERSONAL PROTECTIVE EQUIPMENT (PPE) SYSTEM.

! WARNING

THE FOLLOWING INFORMATION IS MEANT TO SUPPLEMENT, NOT REPLACE, EXISTING TRAINING AND PROTOCOL REGARDING THE USE OF PPE AND GAS MASKS/FULL-FACE RESPIRATORS. PLEASE CONSULT LEADERSHIP OR RELEVANT AUTHORITIES REGARDING THE DEPLOYMENT OF THIS EQUIPMENT. SEE WARNING ON THE COVER OF THIS MANUAL.

! WARNING

DO NOT OPERATE THIS EQUIPMENT WHILE UNDER THE INFLUENCE OF DRUGS, ALCOHOL, OR ANY OTHER MEDICATIONS OR SUBSTANCES WHICH MAY AFFECT VISION, DEXTERITY OR JUDGMENT. USERS OF THIS EQUIPMENT MUST BE IN GOOD PHYSICAL AND MENTAL HEALTH IN ORDER TO OPERATE IT SAFELY. DO NOT USE THIS EQUIPMENT WHEN FATIGUE PREVENTS SAFE OPERATION. STAY ALERT WHEN OPERATING THIS EQUIPMENT. INATTENTION OR CARELESSNESS WHILE OPERATING THIS EQUIPMENT COULD RESULT IN SERIOUS INJURY OR DEATH.

DESCRIPTION

The MIRA Safety MB-90 Powered Air-Purifying Respirator is a blower-assisted device commonly referred to as a PAPR. Training is required before use.

The MIRA Safety MB-90 has an enclosed and sealed design that contains NO user-replaceable parts. Opening the PAPR enclosure could compromise its functionality and immediately voids the warranty. If you experience functionality issues, please contact MIRA Safety Customer Service.

The MIRA Safety MB-90 is designed to be used with a full-face respirator/gas mask and 40 mm NATO standard gas mask filters, fitted head harness, a breathing tube to connect the PAPR to the face mask, and eight (8) AA batteries to ensure functionality. Each of these elements MUST be functioning properly for your PAPR to work as designed.

! WARNING

RESPIRATORS CAN BE USED IN AN EMERGENCY; HOWEVER, TRAINING IS VERY STRONGLY RECOMMENDED BY THE MANUFACTURER. FOLLOW THE INSTRUCTIONS HEREIN CAREFULLY. THIS POWERED AIR-PURIFYING DEVICE IS ONLY FOR USE IN SPECIFIC ATMOSPHERES UNDER CERTAIN CONDITIONS. USE OF THIS RESPIRATOR WITHOUT PROPER KNOWLEDGE AND TRAINING CAN RESULT IN SERIOUS INJURY OR DEATH.

For this equipment to function as intended, the user must be wearing a fit-tested respirator and facepiece that provides a complete seal while maintaining visibility for the intended activities. Follow the manufacturer's procedure for donning and doffing your mask.

MIRA Safety gas mask instruction manuals are included with purchase or are available by contacting Customer Service.

The blower assembly contains an electric motor driving a mechanical air blower. The battery pack compartment is in the lower part of the blower assembly with an attached cap. The battery pack uses standard AA batteries due to their ready availability and low cost.

The ON/OFF power switch is on the top front of the blower assembly. On the front, there are two (2) threaded inlets to attach 40 mm filters. The MIRA Safety MB-90 PAPR can use up to two (2) filters. New filters must be installed prior to use.

The waist belt supports the blower assembly at the waist or on a pack, and it is fully adjustable.



METHOD OF OPERATION

The MIRA Safety MB-90 is a Powered Air-Purifying Respirator (PAPR). The user of this respirator breathes ambient air that has been passed through the attached filter elements. The filter elements may include a mechanical filter to trap airborne particulates or a sorbent bed of impregnated activated carbon to trap and/or neutralize various gases and vapors. Filtration elements must be selected specifically to suit the hazardous atmosphere.

This equipment must be used with a functioning filter, gas mask/full-face respirator, eight (8) AA batteries, and the included breathing tube. Once installed and turned on, the blower will draw ambient air through the filter element and create positive pressure inside the facepiece, affording protection from contaminants in the atmosphere while enhancing breathing ease.

To maintain this level of protection:

1

The user must be wearing a properly fitted and sealed gas mask with valve covers and breathing tube properly tested and installed.

2

The blower must ALWAYS be turned on when the user is in a contaminated atmosphere.



WARNING

RESPIRATORS SHALL NOT BE WORN WHEN CONDITIONS PREVENT A GOOD SEAL. SUCH CONDITIONS INCLUDE, BUT ARE NOT LIMITED TO, THE PRESENCE OF BEARDS, SIDEBURNS, OR FACIAL HAIR, OR CORRECTIVE LENSES WITH ARMS THAT EXTEND OVER THE EARS.



WARNING

THE BLOWER ASSEMBLY IS A BATTERY-OPERATED ELECTRICAL DEVICE THAT HAS NOT BEEN EVALUATED AS AN IGNITION SOURCE. THIS DEVICE IS NOT TO BE USED IN A POTENTIALLY EXPLOSIVE ATMOSPHERE. USE IN A FLAMMABLE OR EXPLOSIVE ATMOSPHERE COULD RESULT IN IGNITION AND CAUSE SERIOUS INJURY OR DEATH.



USE SPECIFICATIONS AND LIMITATIONS

1

The MIRA Safety MB-90 PAPR is intended for use as respiratory protection from airborne contaminants when used in conjunction with a filter and gas mask/full-face respirator.

2

The personnel using this respirator must have read this manual completely, and, ideally, received training from their employer or team leader prior to use. Each user must also have received training in the use of their existing respirator equipment including, but not limited to, pre-use check, donning, seal check, use, doffing and after-use care of the respirator.

3

To use this equipment, you must follow the instructions regarding the use of the filter and gas mask/full-face respirator you attach to it. Most (but not all) gas masks/full-face respirators are incompatible with facial hair. Beards, sideburns, and other facial hair must be shaved clean so the mask can securely seal around its edges. Likewise, most gas masks are not compatible with corrective lenses that could interfere with the seal. Consult your gas mask/full-face respirator instruction manual for details.

4

The individual using the respirator must ensure it is properly inspected before use, properly decontaminated after use (if necessary), properly cleaned and maintained after use, and properly stored between uses.

5

The MIRA Safety MB-90 PAPR (when used with compatible gas mask/full-face respirator and filter) protects only the face and respiratory tract from airborne contaminants. Additional protective clothing, equipment, and headwear will often be required, though it must not interfere with the operation of the respirator.

6

Use in explosive atmospheres is **NOT PERMITTED**. The MIRA Safety MB-90 PAPR contains a battery and must not be taken into or used in atmospheres containing flammable or explosive gases, vapors, or dusts when the concentration of such contaminants constitutes a fire or explosion hazard.

7

The MIRA Safety MB-90 PAPR is **NOT A TOY** and should only be used according to the instructions herein. Do **NOT** use the MB-90 PAPR for firefighting, in oxygen-deficient atmospheres, or for protection against contaminants that the filter elements do not protect against.

8

The MIRA Safety MB-90 PAPR must **NOT** be used with expired or incompatible filter elements and/or gas masks.



USING YOUR MB90- PAPR

The MIRA Safety MB-90 PAPR is designed to be used with a wide variety of CBRN gas masks/full-face respirators and compatible NATO standard 40 mm filter cartridges. The essential operation of this PAPR remains the same, provided you adhere to all guidelines and instructions for your mask and filter cartridge.

To use your MIRA Safety MB-90 PAPR

- 1** Ensure the power switch is in the OFF position and that the batteries are fully charged. Turn the power switch ON briefly to ensure the unit is functioning. Turn the power switch OFF again.
- 2** Inspect the PAPR and breathing tube as outlined in the PAPR MAINTENANCE AND INSPECTION section of this manual.
- 3** Attach two (2) filter elements to the PAPR housing by threading them onto the inlet ports until hand tight. DO NOT OVER TIGHTEN FILTER ELEMENTS.
- 4** Insert eight (8) fully charged AA batteries into the battery holder, ensuring correct polarity. Then insert the battery holder into the battery compartment, inspecting the battery compartment for any signs of corrosion before installing.
- 5** Don the waist belt with blower assembly so the breathing tube outlet is at the top of the unit. Fasten the buckle and adjust the waist belt.
- 6** Position the blower assembly at the back of either the right or left hip. When properly donned, the power switch should be accessible.
- 7** The blower assembly and breathing tube must be arranged so that

A

There is enough slack in the breathing tube for the user to turn their head through the full range of motion without the breathing tube pulling on the facepiece, the breathing tube being pinched closed, or the breathing tube interfering with other protective clothing or equipment.

B

The PAPR blower assembly and breathing tube must be positioned so that excessive slack in the breathing tube is not likely to catch on objects.

C

If additional protective clothing is used, it must be arranged so that it does not interfere with the fit of the gas mask or restrict airflow to the filter elements.



WARNING

IF THE POSITIVE AIR PRESSURE FROM THE BLOWER CEASES FOR ANY REASON, LEAVE THE CONTAMINATED AREA AS SOON AS IT IS SAFE TO DO SO. A LACK OF POSITIVE AIR PRESSURE FROM THE BLOWER MAY REDUCE THE PROTECTION PROVIDED BY THE RESPIRATOR, WHICH COULD RESULT IN SERIOUS INJURY OR DEATH.



WARNING

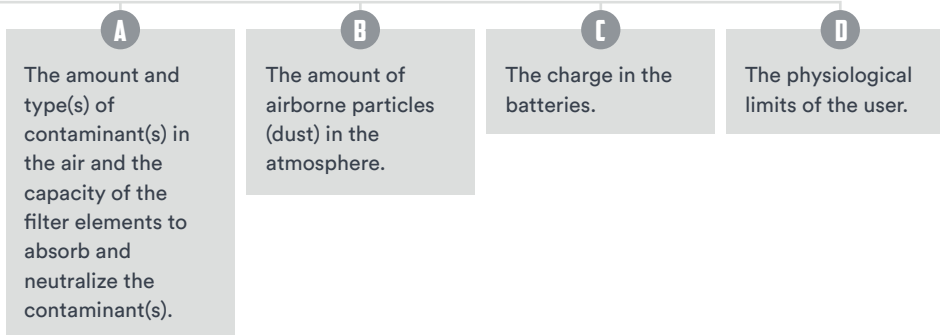
IF YOU DETECT ANY CONTAMINANT ODOR OR TASTE, OR EXPERIENCE IRRITATION OF THE EYES, NOSE OR THROAT, THERE MAY BE EXPOSURE TO THE CONTAMINANT. RETURN TO FRESH AIR IMMEDIATELY. DETERMINE THE REASON FOR THE EXPOSURE AND TAKE APPROPRIATE CORRECTIVE ACTION BEFORE CONTINUING USE OF THE RESPIRATOR. FAILURE TO TAKE THE PROPER CORRECTIVE ACTION MAY RESULT IN EXPOSURE TO THE CONTAMINANT, WHICH COULD CAUSE SERIOUS INJURY OR DEATH.



WARNING

IF THE BATTERY COMPARTMENT BECOMES HOT, IMMEDIATELY LEAVE THE AREA REQUIRING RESPIRATORY PROTECTION. TURN OFF THE EQUIPMENT AND ALLOW IT TO COOL AT LEAST 60 MINUTES BEFORE REMOVING THE BATTERY PACK. DO NOT HANDLE BATTERIES DIRECTLY IF YOU SMELL AN ACRID ODOR.

- 8** Attach breathing tube and valve covers to the gas mask, ensuring the mask is effectively sealed and functioning before attaching the breathing tube to the PAPR unit.
- 9** Turn the power switch to the ON position. You should immediately notice improved airflow within your gas mask.
- 10** Manually inspect the seals and junctions of your gas mask, breathing tube, and PAPR filter connectors to ensure none are drawing air. This could indicate a faulty seal somewhere in the system.
- 11** Perform a **NEGATIVE LEAK PRESSURE TEST** before using in the field.
- 12** Use of the PAPR must be in strict accordance with the guidelines and warnings contained herein. The maximum safe duration of use primarily depends on



NOTE

Do not permit the batteries to completely discharge during use. Always monitor battery performance and change the batteries immediately after use or if they expire.

- 13** After four (4) hours of continuous use, the user must leave the contaminated area, decontaminate if required, and inspect for damage.
- 14** If, during use, the airflow from the blower assembly should noticeably decrease or stop completely, or if inhalation should become difficult, immediately leave the contaminated area. Decontaminate and, if necessary, check the PAPR.
- 15** If the airborne contaminant is detected by odor, taste, eye irritation, or if any discomfort is felt during use, immediately leave the contaminated area. Decontaminate and, if necessary, check the PAPR.
- 16** If the battery compartment should become hot to touch, immediately turn the Power Switch to OFF. Do not remove the facepiece, but continue to breathe through the respirator and immediately leave the contaminated area. Decontaminate and, if necessary, check the PAPR.



PERFORMING A NEGATIVE LEAK PRESSURE TEST

Temporarily positioning the PAPR blower assembly at the front of the waist will facilitate performing a negative leak pressure test.

- 1** With the unit donned and turned off, close the inlet side of both filter elements by covering them with your palms or other airtight objects, and press firmly to seal the inlets.
- 2** Inhale slowly and hold your breath momentarily. The mask should be drawn slightly in toward your face and stay there, indicating there are no obvious leaks in the system.
- 3** If air leakage is detected during this procedure, remove and replace the facepiece following the gas mask/full-face respirator donning procedure before repeating the test. If leakage persists, **DO NOT USE THE EQUIPMENT.**

NOTE

In addition to poor facepiece fit, leakage can result from loose breathing tube connections, improperly tightened filter elements, damaged or missing gaskets at the breathing tube and/or filter element connections, a damaged or missing exhalation valve, or other damaged respirator components. **DO NOT USE A DAMAGED OR LEAKING RESPIRATOR.** Make repairs and recheck respirator or remove from service and tag it for repairs by authorized personnel.



EMERGENCY USE

If, for any reason, the blower assembly stops operating, becomes very noisy, or the battery compartment becomes hot to the touch, immediately leave the area requiring respiratory protection, turn the power switch to the OFF position and determine the cause of the problem.

If, for any reason, it becomes impossible to inhale through the respirator during use, the user may have to disconnect the facepiece from the breathing tube or remove the facepiece. **THIS WILL TERMINATE RESPIRATORY PROTECTION AND THE USER WILL BE BREATHING THE ATMOSPHERE THE RESPIRATOR WAS INTENDED TO PROTECT AGAINST.**

To remove the breathing tube from the facepiece (if and when it is safe to do so), unthread the breathing tube from the facepiece.

Do not submerge the blower assembly in water during use as water will be drawn into the filter elements. If accidental immersion occurs during use, leave the area requiring respiratory protection, turn the unit off, remove the respirator from service, and tag it for inspection and repair. If it becomes impossible to inhale through the filter elements after accidental immersion, proceed as directed above.



WARNING

IF THE POSITIVE AIR PRESSURE FROM THE BLOWER CEASES FOR ANY REASON, LEAVE THE CONTAMINATED AREA AS SOON AS IT IS SAFE TO DO SO. LACK OF POSITIVE AIR PRESSURE FROM THE BLOWER MAY REDUCE THE RESPIRATOR PROTECTION WHICH COULD RESULT IN SERIOUS INJURY OR DEATH.



WARNING

IF YOU DETECT ANY CONTAMINANT ODOR OR TASTE, OR IRRITATION OF EYES, NOSE OR THROAT THAT SUGGESTS EXPOSURE TO THE CONTAMINANT, RETURN TO FRESH AIR IMMEDIATELY. DETERMINE THE REASON FOR THE EXPOSURE AND TAKE APPROPRIATE CORRECTIVE ACTION BEFORE CONTINUING USE OF THE RESPIRATOR. FAILURE TO TAKE THE PROPER CORRECTIVE ACTION MAY RESULT IN EXPOSURE TO THE CONTAMINANT WHICH COULD CAUSE SERIOUS INJURY OR DEATH.



WARNING

IF BATTERY COMPARTMENT BECOMES HOT, IMMEDIATELY LEAVE THE AREA REQUIRING RESPIRATORY PROTECTION, TURN OFF THE EQUIPMENT, AND ALLOW THE BATTERIES TO COOL AT LEAST 60 MINUTES BEFORE REMOVING IT. DO NOT HANDLE BATTERY DIRECTLY IF YOU SMELL AN ACRID ODOR.



TERMINATION OF USE

Termination of use occurs when the user leaves the contaminated area and does not intend to reenter. Removal must be done in a fresh air environment after thorough decontamination. To doff the facepiece

1

Exit the area requiring respiratory protection and, if necessary, proceed to decontamination as directed by your respiratory protection program.

2

When it is safe to remove the respirator and handle it:

A

Turn the power switch to the OFF position.

B

Remove the respirator facepiece as directed by its instruction manual. Do not remove the facepiece by pulling on the breathing tube assembly.

3

Remove the blower assembly by disengaging the belt and removing the blower assembly from the belt.

4

Unthread and remove the filter elements. Replace the cap and plug on each filter element. Do not dispose of filter elements as ordinary waste. See DISPOSAL OF USED FILTER ELEMENTS in this manual.

5

Open the battery compartment by unthreading (counterclockwise) its cover and remove the batteries.



WARNING

DO NOT REMOVE THE FACEPIECE, BREATHING TUBE, OR ADAPTER FROM THE FACEPIECE WHILE IN A HAZARDOUS ATMOSPHERE EXCEPT IN AN EMERGENCY. REMOVING ANY OF THESE ITEMS WILL TERMINATE RESPIRATORY PROTECTION AND EXPOSE THE USER TO THE HAZARDOUS ATMOSPHERE, WHICH MAY RESULT IN SERIOUS INJURY OR DEATH.

The MIRA Safety MB-90 PAPR must be cleaned, inspected, and prepared for its next use. Refer to the CLEANING AND STORAGE section of this manual.



PAPR MAINTENANCE AND INSPECTION

The MIRA Safety MB-90 PAPR is designed to work as a single enclosed unit. There are NO user-replaceable parts. Opening the housing or replacing any parts (other than the breathing tube and external filter cartridges) voids the warranty. For a replacement breathing tube or filter cartridges, please contact MIRA Safety Customer Service

BREATHING TUBE INSPECTION

Your MIRA Safety MB-90 PAPR comes with an enclosed breathing tube. If the tube is damaged or dysfunctional in any way, contact MIRA Safety for a replacement. Inspect the breathing tube as follows:

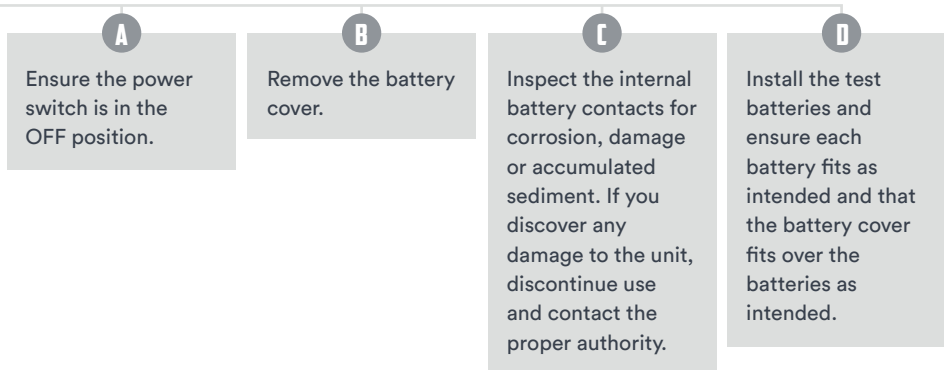
- 1** Examine the outer surface for cracks, tears, or leaks.
- 2** Inspect the gasket inside the threaded connector to ensure it is in place and intact.
- 3** If anything is malfunctioning or out of place, replace prior to use

BLOWER ASSEMBLY INSPECTION

Do NOT attempt to open the PAPR housing or filter elements. Handle all batteries with care. Inspect the blower unit as follows:

- 1** Examine the outer surface of the housing for damage, cracks, or missing components. If any damage is found, do not use the PAPR.

- 2** Install a set of AA test batteries as follows:



- 3** Inspect the gaskets, breathing tube, and filter elements to ensure they are all operational.



WARNING

ALL VALVES, COVERS, AND FILTER ELEMENTS MUST BE CLEAN AND MUST SEAL PROPERLY BEFORE USE. FAILURE TO VERIFY THAT EACH ELEMENT SEALS PROPERLY COULD RESULT IN THE UNIT FAILING TO FUNCTION OR EXPOSE THE USER TO THE CONTAMINATED ATMOSPHERE, WHICH MAY CAUSE SERIOUS INJURY OR DEATH.



WARNING

FOLLOW THE REGULAR INSPECTION PROCEDURE EXACTLY. IF ANY DAMAGE OR OPERATIONAL MALFUNCTION IS NOTED, DO NOT USE THE RESPIRATOR. REMOVE THE RESPIRATOR FROM SERVICE, AND TAG IT FOR REPAIR BY AUTHORIZED PERSONNEL. FAILURE TO PROPERLY IDENTIFY DAMAGE OR MALFUNCTIONS MAY RESULT IN SERIOUS INJURY OR DEATH.



WARNING

DO NOT STORE THE BLOWER ASSEMBLY WITH A BATTERY INSTALLED. IF THE BATTERY SHORTS OR OVERHEATS IN STORAGE, IT MAY CAUSE A FIRE, VENTING GAS OR FUMES, OR THE LEAKAGE OF CORROSIVE ELECTROLYTES FROM THE BATTERY, WHICH MAY CAUSE SERIOUS INJURY OR DEATH.

If you experience any functionality issues or have questions that are not answered by this manual, please contact MIRA Safety Customer Service (contact information on the back page of this manual).

If needed, the equipment may be wiped down with a clean, dry cloth to remove exterior dust.



CLEANING AND STORAGE

After any required decontamination, respirators must be cleaned, disinfected, and inspected after each use. After cleaning and inspection, the respirator must be stored in a clean, dry area and reinspected before the next use. Refer to the manufacturer's Safety Data Sheet (SDS) for any cleaning or disinfecting/sanitizing preparations used.

Used filter elements must be removed and disposed of as directed in the DISPOSAL OF USED FILTER ELEMENTS section of this manual.

NOTE

DO NOT USE AN AUTOCLAVE TO DISINFECT/SANITIZE ANY OF THE COMPONENTS IN THIS RESPIRATOR

NOTE

IF THE RESPIRATOR IS (OR IS SUSPECTED OF BEING) CONTAMINATED BY A HAZARDOUS SUBSTANCE, THE CONTAMINANT MUST BE IDENTIFIED AND PROPERLY REMOVED, OR THE CONTAMINATED COMPONENT(S) MUST BE REPLACED BEFORE NEXT USE. DISPOSE OF ANY CONTAMINATED COMPONENT(S) IN ACCORDANCE WITH APPLICABLE REGULATIONS.

IF THE RESPIRATOR IS (OR IS SUSPECTED OF BEING) EXPOSED TO CBRN CLASS HAZARDOUS SUBSTANCES, HANDLE AND/OR DISPOSE OF THE UNIT IN ACCORDANCE WITH THE REQUIREMENTS OF YOUR CBRN RESPIRATORY PROTECTION PROGRAM.

Clean your facepiece according to the manufacturer's directions. Decontaminate and clean the exterior of the blower assembly as follows:

NOTE

PRIOR TO HANDLING OR USING ANY CLEANING AGENTS MENTIONED, CONSULT THE MANUFACTURER'S MATERIAL SAFETY DATA SHEET (SDS) FOR PRECAUTIONS AND IMPORTANT INSTRUCTIONS.

1 Inspect the equipment for worn or aging rubber parts, worn or frayed harness webbing, or damaged components.

2 Disconnect the breathing tube from the facepiece and the blower assembly.



WARNING

THOROUGHLY CLEAN AND DECONTAMINATE THE FACEPIECE, BREATHING TUBE, WAIST BELT, AND BLOWER ASSEMBLY AFTER EACH USE. FAILURE TO CLEAN AND DECONTAMINATE THE EQUIPMENT MAY EXPOSE THE USER TO SUBSTANCES THAT CAN CAUSE SERIOUS INJURY OR DEATH.



CAUTION

CERTAIN CLEANING AND DISINFECTING AGENTS SUCH AS QUATERNARY AMMONIUM COMPOUNDS (AMMONIUM CHLORIDES) MAY CAUSE DAMAGE, DETERIORATION, OR ACCELERATED AGING OF THE RESPIRATOR. USE ONLY THE RECOMMENDED CLEANING AND DISINFECTING AGENTS.



WARNING

INSPECT THE FACEPIECE, BREATHING TUBE, WAIST BELT, AND BLOWER ASSEMBLY AFTER EACH USE. FAILURE TO INSPECT THE EQUIPMENT TO ENSURE PROPER FUNCTIONING MAY RESULT IN A MALFUNCTION AND POTENTIALLY EXPOSE THE USER TO SUBSTANCES THAT CAN CAUSE SERIOUS INJURY OR DEATH.

- Carefully wash the blower assembly with a warm water solution containing a mild detergent. **DO NOT IMMERSE THE BLOWER ASSEMBLY.** A soft cloth may be used for scrubbing extremely dirty areas. Clean the breathing tube connection and filter element mounts to remove any dirt that could prevent an airtight seal. Rinse thoroughly with clean water.

NOTE

IF ACCIDENTAL IMMERSION OCCURS, ALLOW THE BLOWER ASSEMBLY TO AIR DRY AND THEN TEST TO CHECK WHETHER THE MOTOR WAS DAMAGED.

- Carefully wash the inside and outside of the breathing tube assembly in a warm water solution containing a mild detergent. Clean the breathing tube connections to remove any dirt that could prevent an airtight seal. Rinse thoroughly with clean water.

- Perform regular operational inspections as detailed in this manual.

After cleaning, the MIRA Safety MB-90 PAPR must be stored in a manner that

- ✔ Protects the components from dirt or debris entering the breathing path
- ✔ Protects the components from impact damage
- ✔ Protects the components from distortion.

NOTE

DO NOT STORE THE MIRA SAFETY MB-90 PAPR WITH FILTER ELEMENTS OR BATTERIES INSTALLED

- DO NOT STORE BATTERIES IN THE BLOWER UNIT.** Store AA batteries separately according to the manufacturer's guidance.
- Store the MIRA Safety MB-90 PAPR blower, belt, and accessories with this instruction booklet in a suitable protective container, such as its original packaging, that will protect the components from impacts, dirt, and distortion. The breathing tube may be stored with the blower.



DISPOSAL OF USED FILTER ELEMENTS

Filter elements must be removed and disposed of properly to avoid exposure to contaminants.

- Handle the filter elements as potentially contaminated objects.
- Dispose of the filter elements in accordance with federal, state, and local environmental regulations for hazardous waste.

WARNING

AFTER DECONTAMINATION, DISPOSE OF FILTER ELEMENTS IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL ENVIRONMENTAL REGULATIONS. DO NOT THROW AWAY DAMAGED OR UNUSABLE FILTER ELEMENTS AS ORDINARY WASTE. IMPROPER DISPOSAL OF CONTAMINATED FILTER ELEMENTS MAY RESULT IN EXPOSURE TO CONTAMINANTS WHICH MAY CAUSE SERIOUS INJURY OR DEATH.

Do not throw away used filter elements as ordinary waste.



DISPOSAL OF USED BATTERIES

Dispose of AA batteries according to your state and local environmental regulations.



SERVICE AND REPLACEMENT PARTS

The MIRA Safety MB-90 PAPR has no user-serviceable parts. For filters or a replacement breathing tube, contact MIRA Safety Customer Support by calling **1462-316-888** or e-mailing **support@mirasafety.com**.



ONE-YEAR LIMITED WARRANTY

The manufacturer warrants this product against defects in materials and workmanship for a period of ONE (1) YEAR from the date of retail purchase by the original end-user purchaser (“Warranty Period”).

If there is a defect and a valid claim is received within the Warranty Period, the defective product can be replaced or repaired in the following ways: (1) Return the product to the manufacturer for repair or replacement at the manufacturer’s option. Proof of purchase may be required. (2) Return the product to the retailer where the product was purchased for an exchange (provided that the store is a participating retailer). Returns to a retailer should be made within the period of the retailer’s return policy for exchanges only (usually 30 to 90 days after sale). Proof of purchase may be required. Please check with the retailer for their return policy regarding returns beyond the time set for exchanges.

This warranty does not apply to accessories, attachments, or optional upgrades; defects resulting from normal wear and tear; accidents; damage during shipping; alterations; unauthorized use or repair; neglect, misuse, or abuse; or the failure to follow the instructions for proper care and maintenance of the product.

This warranty gives the original retail purchaser specific legal rights, and you may have other rights that vary from state to state or province to province. This product is not intended for commercial use.

Please direct all warranty claims to MIRA Safety Customer Service at:



888-316-1462



support@mirasafety.com



MIRA[®]
SAFETY



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