User Manual

Model No.
evo5000

Maintenance
This mask shall be maintained the storage shelf life as follows:
(1) Respirator: Minimum 10 years under controlled condition after packaging.
(2) Canister: Minimum 10 years controlled condition after packaging.

Warranty
Mask kit has a warranty of one year from the date of final acceptance.

Quality Assurance
We have an established and maintained quality system that, in respect to the type of supplies being procured under the contract, has been certified by an accredited certification body to meet the requirements of ISO standard 9001, 'Quality System' for quality assurance in design, development and production.

Evolution® Military Gas Mask Kit

Protection from Biological and Chemical Weapons

NBC Safety
World Leaders in Defense Technology

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Evolution®
Military Gas Mask Kit

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Protection from Biological and Chemical Weapons

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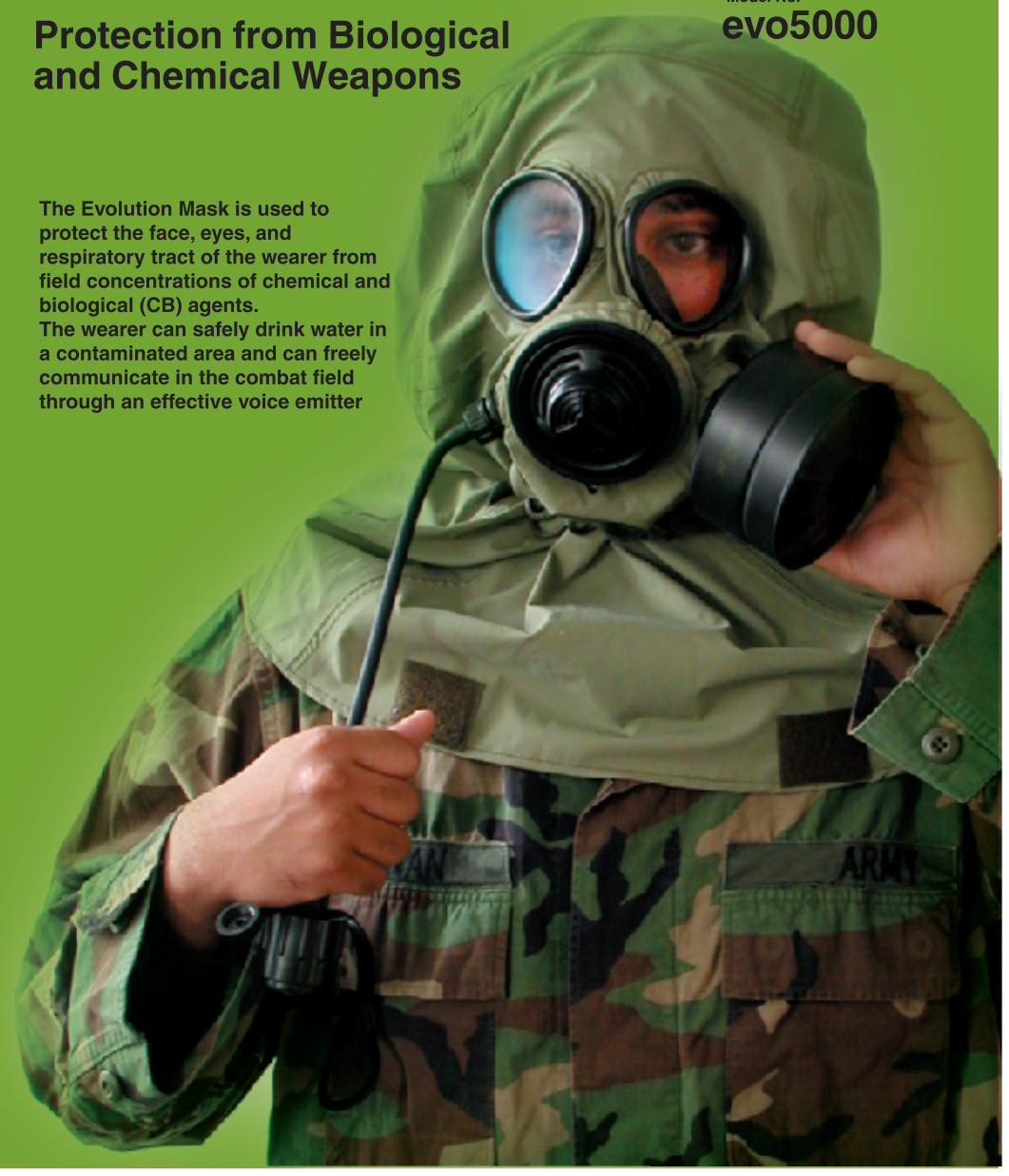
The wearer can safely drink water in a contaminated area and can freely communicate in the combat field through an effective voice emitter



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Protection from Biological and Chemical Weapons

1. General
The Evolution Mask is used to protect the face, eyes, and respiratory tract of the wearer from field concentrations of chemical and biological (CB) agents.
The major characteristics of the mask are that the wearer can safely drink water in a contaminated area and can freely communicate in the combat field.
The Mask is issued in three sizes: small, medium, and large.

2. Descriptions
a. Face piece
(1) Rubber mask without glass
The following are molded into the rubber mask: the nose cup, openings for eye lenses, voicemitter outlet valve assembly, drinking system assembly and inlet valve (canister connector,)
(2) Eye lenses
Clear-plastic eye lenses are sealed in the rubber mask openings by metal eye rings.
(3) Voicemitter-outlet valve assembly
Consists of canister of a voicemitter and an outlet valve with an outlet valve disk.
(4) Drinking system assembly
Consists of a drinking mouthpiece, a drinking plug, and a connector hose.
(5) Nose cup
The soft-rubber nose cup fits over the wearer's nose and mouth. The nose cup diverts most of the exhaled air toward the outlet valve to help prevent the lenses from fogging. A nose cup assembly consists of a canister of a metal nose cup and a valve disk.
b. Canister
The canister contains a folded paper particulate filter and an activated impregnated charcoal bed through which the canister absorbs toxic gases and removes particles of a size that constitute a toxicological threat.
c. Carrier
The carrier is made of mildew-resistant, water-repellant, neoprene, rubber-coated nylon cloth. It has two adjustable strap assemblies (shoulder strap and waist strap) and a shape strap.

3. Accessories
a. Canteen Cap
The canteen cap fits on the standard plastic water canteen.
The cap has a gasket, cover, and a coupling with a self-sealing valve.
b. Optical inserts
Prescription optical inserts for personnel who must wear glasses are available by prescription from a doctor or optometrist. Inserts with wire frames will fit the Evolution mask.
c. Waterproofing bag
The plastic waterproofing bag is used to keep the mask dry.
The folded bag and a small envelope containing three rubber bands are packed in a small pouch.
Instructions for use are printed on the bag.
d. Mask hood
(1) The hood covers the wearer's head and neck.
The hood protects areas of the skin not covered by the mask against vapors, aerosols, and droplets of chemical or biological agents.
(2) The HK-K1 hood is a lightweight hood made of butyl, rubber-coated nylon cloth.
Opening in the front, it fits around the eye rings, the inlet valve, the drinking system assembly, and the voicemitter-outlet valve.

5. WEARING PROCEDURE
1. Take off any headwear.
2. Assemble the new canister on the mask.
3. Stop breathing temporarily until you finish the whole procedure.
4. Put the gas mask on your head, starting from your chin.
5. Tighten the head harness to fit your head.
6. Adjust the face piece to fit your face, and blow out the polluted air taking the following steps:

- Grip the outside top part of the diaphragm with the thumb and index finger of one hand with your palm facing out.
- Make a circle around the diaphragm with the middle finger of your other hand by inserting it between two fingers of the first hand.
- Then push the diaphragm up to your face to fit, blow out strongly so that the polluted air, if any, in the face piece is blown out through the exhalation valve.

6. CARE INSTRUCTION
For the desired performance of this gas mask, pay attention to the following:
1. Do not clean the lens and rubber with organic solvent or solution, but with soap only.
2. Dry the gas mask only in the shade.
3. Keep the mask in a cool, dry area in a room, avoiding any heated and air-polluted areas.
4. Do not use the mask as a pillow or cushion.
5. Do not allow the mask to sustain heavy loads.
6. When not using the mask, do not remove the supplied plastic frame supporter inside the face piece which is there to preserve its shape.
7. The white powder on the surface of the rubber face piece and hood is a protective material. It is not harmful to the human body but protects the mask against sunlight and can be washed with soap.
8. Keep the mask in the supplied waterproof vinyl bag when it is exposed to wetness.
9. Anti-fogging cloth is supplied only for maintaining clear vision through the lenses.
10. Do not open the cap of the canister during exercises or training.
11. Do not use canisters that are damaged in the following ways:
- Submerged canisters
- Dented canisters
- Broken or torn canisters
- Canisters that make a noise when shaken
- Canisters that cause you sudden difficulty in breathing during use

7. Specifications for Canister
The canister is containing a folded paper particulate filter and an activated impregnated charcoal bed the canister absorbs toxic gases and removes particles of a size that constitute a toxicological threat.
(1) Material: Aluminum (To prevent rust)
(2) Weight: 9.6 Oz
(3) DOP Smoke Penetration: Less than 0.025 %
(4) Gas Life: 30 3 min
(5) Effective gas protection
- Organic vapors gas: 275 min
- Hydrogen Chloride: 125 min
- Hydrogen Cyanide: 100min
- Sulfur dioxide: 63 min
- Chlorine Gas: 63 min
- Ammonia Gas: 8 min

(6) Standard: EN 148 / STANAG - 4155 (Rd 40 x 1/7")

8. Weight

ITEM	WEIGHT (Oz)	ITEM	WEIGHT (Oz)
Gas Mask	17.3	Hood	7.5
Canister	9.6		
Carrier Bag Including Accessory			
Carrier Bag	20.6	Fog protect kit	0.7
Waterproofing Bag	2.6	Canteen Cap	2.3
TOTAL Weight	**62.5 Oz (3.9 Lb.)**		