


SECTION 1 – RESPIRATOR SAFETY PRECAUTIONS – READ BEFORE USING

Respir 2011-10

-  **Protect yourself and others from injury — read, follow, and save these important safety precautions and operating instructions.**

1-1. Symbol Usage



DANGER! – Indicates a hazardous situation which, if not avoided, will result in death or serious injury. The possible hazards are shown in the adjoining symbols or explained in the text.

 Indicates special instructions.



Indicates a hazardous situation which, if not avoided, could result in death or serious injury. The possible hazards are shown in the adjoining symbols or explained in the text.

This group of symbols means Warning! Watch Out! **ELECTRIC SHOCK, MOVING PARTS, and HOT PARTS** hazards. Consult symbols and related instructions below for necessary actions to avoid the hazards.

NOTICE – Indicates statements not related to personal injury.

1-2. Arc Welding Hazards

-  **Only qualified persons should install, operate, maintain, and repair this unit.**



FUMES AND GASES can be hazardous.

Welding produces fumes and gases. Breathing these fumes and gases can be hazardous to your health.

- Keep your head out of the fumes. Do not breathe the fumes.

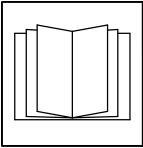
- If inside, ventilate the area and/or use local forced ventilation at the arc to remove welding fumes and gases.
- If ventilation is poor, wear an approved air-supplied respirator.
- Read and understand the Material Safety Data Sheets (MSDSs) and the manufacturer's instructions for metals, consumables, coatings, cleaners, and degreasers.
- Work in a confined space only if it is well ventilated, or while wearing an air-supplied respirator. Always have a trained watchperson nearby. Welding fumes and gases can displace air and lower the oxygen level causing injury or death. Be sure the breathing air is safe.
- Do not weld in locations near degreasing, cleaning, or spraying operations. The heat and rays of the arc can react with vapors to form highly toxic and irritating gases.
- Do not weld on coated metals, such as galvanized, lead, or cadmium plated steel, unless the coating is removed from the weld area, the area is well ventilated, and while wearing an air-supplied respirator. The coatings and any metals containing these elements can give off toxic fumes if welded.
- Do not use for respiratory protection from gases, asbestos fibers, and sandblasting operations, or where particulate concentrations exceed either 10 times the occupational exposure limit or applicable government regulations, whichever is lower.
- Do not use for respiratory protections from gases or vapors, including those present in some welding and paint spraying operations, when concentrations exceed the United States (US) Occupational Safety and Health Administration (OSHA) Permissible Exposure Limit (PEL) or applicable government occupational exposure limits, whichever is lower.
- Before occupational use of this respirator, a written respiratory protection program must be implemented meeting all the requirements of OSHA 29 CFR 1910.134 such as training and fit testing, and applicable OSHA substance-specific standards.



RESPIRATOR MISUSE can be hazardous.

Welding produces fumes and gases. Breathing these fumes and gases can be hazardous to your health.

- Read and follow these instructions and the safety labels carefully. The respirator helps protect the user from specific airborne contaminants but must be used correctly to be fully effective. Have an industrial hygienist test the air in your facility to ensure the respirator provides adequate protection from contaminants in your environment. If you have questions about the respirator, see equipment NIOSH label and consult your Safety Director and a certified Industrial Hygienist.
- Follow all applicable ANSI, OSHA, CSA, and other regulatory guidelines pertaining to the use of respirators. OSHA regulations require that all users of tight-fitting facepiece respirators be fit-tested prior to use either qualitatively or quantitatively.
- Do not use the respirator without a properly installed spark guard unless the unit is designed and intended to be used without one. Without the spark guard (on applicable products), welding sparks may ignite the filter or damage the filters and allow passage of unfiltered air.
- The respirator does not supply oxygen. The respirator does not provide protection from hazardous or poisonous gases and vapors. Use the respirator only in atmospheres for which it is NIOSH approved. Do not use the respirator where oxygen levels are 19.5% or lower, where contaminant levels are unknown or are immediately dangerous to life or health (IDLH), or where the contaminant levels exceed the respirator specifications.
- Remove eyewear before putting on respirator and put eyewear back on after respirator is properly fitted. Do not use respirator with beards or facial hair that prevents direct contact between the user's face and the edge of the respirator. Use a powered air purifying respirator (PAPR) if facial hair prevents a tight seal between mask and face.
- Do not enter a hazardous area until you are sure the respirator equipment is correctly assembled, working properly, and properly worn. Always conduct a pressure face fit test before each use. Do not use the respirator if it fails this test.
- Before each use, inspect the respirator equipment for damage and verify it operates properly. Before using the respirator, test air flow to verify it is providing an adequate volume of air.
- Do not use the respirator without all filter components or hazardous levels of oxygen and carbon dioxide may accumulate in the helmet.
- Always wear the respirator when entering a contaminated area. Do not remove the respirator until outside the contaminated area. Do not use the respirator for emergency escape purposes.
- Dangerous contaminants may not smell or be visible. Leave the area immediately if you notice the following:
 - Breathing becomes difficult.
 - You experience dizziness, impaired vision, or eye, nose, or mouth irritation.
 - The equipment is damaged.
 - Air flow decreases or stops.If you think the equipment is not supplying adequate protection.
Do not remove the equipment until you are in a safe area.
- Do not repair, modify, or disassemble the respirator or use with parts or accessories not supplied by the manufacturer. Do not replace respirator valves. Use only NIOSH approved components.
- Replace damaged or clogged filters. Do not wash or reuse filters. Do not clean filters by tapping or with compressed air or filter elements may be damaged. Dispose of filters stored beyond their shelf life. Dispose of used filter elements according to local, state, and federal requirements.
- The respirator must be used with the mask and filter recommended by the manufacturer to provide a NIOSH-approved respirator system. See the NIOSH label for information on the required equipment.



READ INSTRUCTIONS.

- Read and follow all labels and the Owner's Manual carefully before installing, operating, or servicing unit. Read the safety information at the beginning of the manual and in each section.
- Use only genuine replacement parts from the manufacturer.
- Perform maintenance and service according to the Owner's Manuals, industry standards, and national, state, and local codes.

1-3. Proposition 65 Warnings

- ⚠** Welding or cutting equipment produces fumes or gases which contain chemicals known to the State of California to cause birth defects and, in some cases, cancer. (California Health & Safety Code Section 25249.5 et seq.)
- ⚠** This product contains chemicals, including lead, known to the state of California to cause cancer, birth defects, or other reproductive harm. *Wash hands after use.*

1-4. Principal Safety Standards

Safety in Welding, Cutting, and Allied Processes, ANSI Standard Z49.1, is available as a free download from the American Welding Society at <http://www.aws.org> or purchased from Global Engineering Documents (phone: 1-877-413-5184, website: www.global.ihs.com).

Safe Practice For Occupational And Educational Eye And Face Protection, ANSI Standard Z87.1, from American National Standards Institute, 25 West 43rd Street, New York, NY 10036 (phone: 212-642-4900, website: www.ansi.org).

1-5. NIOSH Approval Information

This System Is Approved Only In The Following Configuration:			
Protection ¹	Respirator Component	Part Number	Cautions And Limitations ²
1. PROTECTION: HE – High Efficiency Particulate Air Filter For _____			
A – See OM–235 936 For Reference B –			
S –			