



February 2012

What's New



Use Supplied Air System Respirator for Better Safety

When supplied air system respirator is being used, usually we do not use filters with it. Fresh air is supplied by the compressor. However, users should concern on the quality of the air if it meets grade D.

Supplied Air System Respirator

What is grade D Air?

Under OSHA Requirements [29 CFR 1910.134],
"Breathing air shall meet at least the requirements of the specifications for grade D breathing air as described in the Compressed Gas Association Specification ANSI/CGAG-7.1-1989."

Grade D Breathing Air [ANSI/CGA G-7.1-1989]

Oxygen	19.5-23.5%
Hydrocarbon (Oil-Condensed)	≤ 5 mg/m ³
Carbon Monoxide	≤ 10 PPM
Odor	No noticeable odor
Carbon Dioxide	≤ 1000 PPM
Water (Dew Point °F – airline)	> 10°F below ambient
Water (Dew Point °F – cylinder)	- 50°F

Using Cartridges With Supplied Air Respirator

Nevertheless, there are some cases where we would recommend customers to use cartridges with supplied air respirator. In such scenarios, 3M™ Dual Airline Tight-Fitting half and full facepiece airline respirators system will need to use combination kits as the adapter kits instead of using standard kits. For instance, SA-2100 combination kit will replace SA-2000 standard kit.

Users sometimes have to travel very far deep inside a confined space (maximum length for air line is 300 feet only), using airline to work for a long period.



Above picture shows 3M™ standard kit while the below picture illustrates 3M™ combination kit.



3M™ standard kits and combination kits have options of:

- Front or back mount
- High or low pressure

These types of works demand high physical strength, and with contaminant in it. To ease the breathing demand, supplied air is always the preferred choice. However, due to the long distance from exit, there are risks of:

- Compressor failure, but the distance to get fresh air is too far
- Airline being tampered in between due to other work activity or accident
- Users have to have immediate evacuation for life threatening danger inside the confined space

In this situation, we would recommend supplied air respirator with combination kits to fit the filters and cartridges to handle the contaminant. With this combination, user would be able to unplug the airline and evacuate immediate with the already-attached filters and cartridges to the exit safely.

The combination kit works as standard kit when the supplied air is smooth. It has a non return valve built in at the cartridges/ filters attachment. When pressure is low (due to supplied air is disturbed or user unplug the hose), the valve automatically open to let the user breath in through the attached cartridges/ filters.

The drawback of this recommendation is both the cartridges and the filters are exposed to contaminant when they are on standby mode. We would not want to risk user to push their lucks during emergency. Thus, the only safe way to make sure the cartridges and filters perform its best when needed is to change anew for every entry.

The recommendation only viable when the risk is very critical for user due to its high maintenance cost.



3M™ Supplied Air Hose W-9435



3M™ Supplied Air Hose W-2929



3M™ Supplied Air Hose W-3020

3M™ supplied air hose is available in 3 lengths: 25, 50, or 100 feet.

Click [HERE](#) to like our newsletter and send it to your friends online!

Find out more about our offering on respiratory protection products by making enquiry at info@amsales.com.my or call 603-6157 8822 **NOW!**

Reference:

1. 3M Powered and Supplied Air Respirators & Welding Products, Vol 2.



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