



training



Sundström 

SR540ex

Intrinsically safe supplied-air shield





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Companion module:

Sundström SR540ex supplied air shield — **HOW**
TO...

Related material:

Sundström SR500ex intrinsically safe Powered
Air Purifying Respirator (PAPR)

About your SR540ex supplied-air shield:

What is it?

A supplied-air hood is a respiratory protection device that covers your face, head, neck and top of the shoulders. A continuous flow of clean breathing air is fed into the loose-fitting head-top.



How does it work?

Clean air from a remote source (such as a compressor or a powered fan unit) is fed into the hood through the breathing hose at a constant flow rate. This keeps the head-top filled with clean breathing air at a higher pressure than outside air, preventing any contaminated air from entering the hood. The main advantage of this device is that it does not rely on a tight face seal and does not have to be fitted perfectly to the user's face. This means that even bearded people can use the SR540.



Advantages

There are many benefits associated with wearing a loose-fitting head-top as opposed to a tight-fitting respirator. Advantages include:

- Connects directly to the SR500ex fan unit
- Often a good solution for bearded users or users with skin complaints, dentures, unusual face features or other problems that may hinder the use of tight-fitting masks
- Durable material
- Impact and chemical resistant visor



Where can the SR540ex be used?

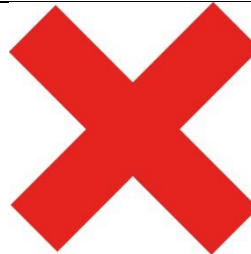
The SR540ex supplied-air face shield can be used in more situations than negative-pressure filter respirators:

- Wherever negative-pressure filter respirators can be used
- Where the user has a beard, stubble, moustache, goatee, whiskers, sideburns or other facial hair that can interfere with the facial seal of a respirator
- Skin conditions, severe acne, dentures, unusual face shape/size, inability to wear a tight-fitting respirator for psychological or other reasons
- Where the contaminant has poor warning properties (smell or taste)
- Where the contaminant is particularly toxic (such as two-pack paint; toluene diethylamide and others)
- Where the concentration of the contaminant is so high that filter respirators are not permitted
- In flammable atmospheres (the SR540ex is made from materials that cannot cause frictional sparks)



When should the SR540ex NOT be used?

- If there is not enough oxygen for human breathing in the ambient atmosphere
- If the contaminant is unknown
- If the contaminant is Immediately Dangerous to Life and Health (IDLH)
- If the ambient atmosphere is oxygen-enriched or pure oxygen
- If breathing becomes difficult
- If you can smell or taste any contaminant
- If you feel dizzy or nauseous, or suffer any discomfort
- If the air-pressure warning sounds



Before fitting the head-top:

- Make sure the head-top is clean and intact
- Make sure it is securely connected to the air supply
- Make sure the quality of the breathing air is adequate
- Make sure you are familiar with the equipment and know how to use it

