



training



Sundström 

SR700

Powered Air Purifying
PARTICLE
Respirator (PAPR)





Companion module:

Sundström SR700 Particle PAPR — **HOW TO...**

Related material:

Sundström SR500 PAPR

Sundström supplied-air hoods

About your SR700 PAPR:

What is it?

The SR700 is a PAPR, which stands for Powered Air-Purifying Respirator.

Powered means battery-driven.

Air-purifying means filtering.

Respirator means that your lungs are separated from the surrounding contaminated atmosphere.



IMPORTANT: The SR700 is a PARTICLE respirator. It accepts ONLY particle filters. You cannot use it with gas filters.

The only filters you can use are Sundström threaded and unthreaded P3 particle filters.



How does it work?

A battery-driven fan draws in the surrounding air through a pair of particle filters that clean the air from harmful particles. The clean air is then delivered to a face piece or air hood around your face or head.

The air pressure inside the mask or hood is higher than the surrounding air, which means that outside air cannot leak into the head piece.



Components

The SR700 Particle PAPR is made up of three main parts:

- The fan unit with filters, motor, fan and a waist belt.
- The breathing hose that delivers the cleaned air to your face.
- The head piece or face piece, which can be one of several hard or soft hoods, face shields, helmets, or a tight-fitting full face mask.



IMPORTANT: when selecting head pieces, certain factors must be taken into consideration. It is best to consult a qualified person with training and experience in risk-assessment.



Crucial factors include:

- Types of particles
- Concentrations
- Work load and breathing rate*
- Explosive or flammable atmosphere
- Other types of safety equipment that may be required

**) The breathing rate is important, because the SR700 delivers air at a maximum flow rate of 175 litres per minute (normal mode) or 225 l/min (boost mode). If you are using a loose-fitting head piece, and your peak inhalation air flow is greater than the supply rate, outside air will leak into the head piece.*

Where can the SR700 be used?

The SR700 Particle PAPR can be used wherever negative-pressure filter respirators are allowed or recommended for protection against particles.

Because the fan unit helps to draw air through the filters, and because it delivers the air at pressure to the face and lungs, the PAPR is particularly suited for situations where work is hard, warm or long-term.



The battery

- Lithium-ion battery
- Can be recharged at least 500 times
- Can be recharged at any time — no need to wait until completely drained
- Charging time: less than 2 hours



The fan unit

- Operating time up to 8 hours
- Single-button operation
- Normal speed (175 litres/minute) and boost speed (225 l/min)
- Visual display panel shows normal/boost operation, disrupted air flow, low battery power
- Additional sound alarms
- Automatic air flow control
- Can be used with a variety of head pieces



Particle filter

- Class P3 high-efficiency particle filter
- Available as threaded filter that screws directly into the fan unit, or as non-threaded through a filter adapter



IMPORTANT: There are two filter ports. A particle must be fitted to each filter port. You must not fit a filter to one port, and leave the other port empty.



When should the SR700 respirator NOT be used?

- When the fan motor is turned off for any reason
- 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



Before using the respirator:

- Make sure the SR700 Particle PAPR and all its parts are clean, intact, and correctly assembled
- Make sure two particle filters are fitted to the fan unit
- A pre-filter must be attached to each particle filter
- Make sure the battery is fully charged
- Do a performance check and test the alarms
- Make sure you are familiar with the equipment and know how to use it



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<http://youtu.be/kRQVrYW2vqI>