

## Operating Instruction

# SR 900

Half mask APR



## General information

Instructions for use for SR 900 APR should be read before use.

Together with filters from the Sundström filter range in accordance with the NIOSH approval label.  
Three sizes S, M and L.

Together with powered air-purifying respirator SR 500 PAPR in accordance with NIOSH approval label.

Together with Remote filter holder SR 905 according to NIOSH approval label.

When selecting equipment for SR 900 some of the factors that should be taken into account are as follows:

- Type of pollutant
- Concentrations
- Work intensity
- Protection requirements in addition to respiratory protective advice.

Risk analysis should be carried by a person who has suitable training and experience in the area.

## Unpacking SR 900



Check that the equipment is complete in accordance with the packing list, and that no transport damages have occurred.

### Packing list:

- Half mask
- Pre-filter
- Pre-filter holder
- Cleaning tissue
- ID-tag
- User instructions
- Storage bag

## 1. Filter



**1.1** Check that you have selected the correct filter.



**1.2** During work in atmospheres containing both particles and gases/vapors (such as spray painting) the particulate filter and chemical cartridge should be combined.



**1.3** Place the P100 filter on top of the cartridge. Grasp both protective elements. Squeeze hard until you hear the P100 snap onto the cartridge a snap. Attempt to pull the filter and cartridge apart to check that they are properly connected.



**1.4** Place a coin in the space between the lower lip of the particulates filter and the small tab molded into the side of the cartridge. Push firmly and twist the coin until the filter pops off.

## 1. Filter



**1.5** Fit the filter/combined filter in the mask so that the arrows on the filter point towards the user's face. Carefully check that the edge of the filter is in the internal groove of the filter mounting all around



**1.6** Fit pre-filter SR 221 in the pre-filter holder.

Pre-filter prevents premature clogging of the main filter. The pre-filter holder prevents damage to the main filter.

N.B. The pre-filter is a pre-filter only and cannot be used as a substitute for particulate filter P100.



**1.7** Press it into place on the filter.

## 2. Donning



**2.1** Remove any hood, glasses or ear protection from head.

Holding the strap buckle, pull the strap over your head and put it around your neck.

Grab the pad or cradle with one hand and the filter or cartridge with the other.



**2.2** Hold the mask against your face.

Pull the pad or cradle over your head and place it on the crown of the head.



**2.3** Wiggle the respirator until it fits comfortably.

Perform a fit check.

## 3. Adjusting the harness



**3.1** Reach behind your neck and grab the free end of the harness strap.



**3.2** Pull the free end away from the neck until buckle pops open.



**3.3** Pull on the free end of the strap until the respirator seats comfortably on your face.

Use your thumb and forefinger to squeeze the buckle shut.



**3.4** Wiggle the respirator until it seats comfortably.

## 4. Negative Fit check



**4.1** Install a protective element.

Snap the pre-filter holder onto the protective element.

Put the mask on.



**4.2** Place the palm of your hand lightly over the hole on the pre-filter holder to make it tight. Take a deep breath and hold your breath for about 10s. If the mask is tight, it will be pressed against your face.

If any leakage is detected:

- check the exhalation membranes, exhalation valves and the gasket,
- adjust the straps of head harness,
- switch to alternative size of the respirator.

Do not use the equipment if you cannot make the mask a tight fit during the fitting test.

Note! Beard growth, scars, or other physical characteristics may interfere with a proper fit of the respirator.



## 5. Change the exhalation membrane



**5.1** Snap the valve covers off the membrane seats.



**5.2** Prise off the membranes.



**5.3** Press the new membrane onto the pin. Carefully check that the membrane is in contact with the membrane seat all round.



**5.4** Press the valve covers into place. A clicking sound indicates that the cover has snapped into place..

## 6. Change the inhalation membrane 7. Change the head harness



**6.1** Reach inside the respirator and gently pull out the inhalation membrane.



**6.2** Check the edge of the inhalation valve. Gently stretch the flap until it slips over the stud.



**7.1** Detach the head harness from the mask.



**7.2** Attach the head harness to the mask.

## 8. Change filter holder



**8.1** Detach the filter holder from the mask by turning it a  $\frac{1}{4}$  of a lap.

**8.2** Attach the new filter holder. Make sure the gasket is mounted correctly on the filter holder.

## 9. Change of gasket



**9.1** Detach the filter holder from the mask by turning it a  $\frac{1}{4}$  of a lap.



**9.2** Release the gasket from the attachment on the filter holder. Mount the new gasket. Attach the filter holder.

## 10. Cleaning



**10.1** Remove the filter, the covers for the exhalation valves, the membranes, the inhalation membrane and the head harness. The harness can be washed but takes extra time to dry.



**10.2** Inspect all parts and replace with new parts as necessary. Critical areas are the exhalation membranes and the membrane seats which must have clean and undamaged contact surfaces.

Sundström cleaning tissues SR 5226 are recommended for daily care. If the mask is heavily soiled, use a warm, Do not exceed 104 °F (up to 40°C) mild soap solution and a soft brush, followed by rinsing with clean water and drying in air at room temperature. If necessary, spray the mask with 70 % ethanol or isopropanol solution for disinfection.

***NOTE! Never use solvents for cleaning.***

## Maintenance schedule

	Before use	After use	Annually
Visual check	•		
Fit check	•		
Cleaning		•	
Change membrane			•
Change harness			•
Change gasket			•
Change filter	See User instructions for filters		

### Change parts

Always use genuine Sundström parts. Do not modify the equipment. The use of non-genuine parts or modification of the equipment may reduce the protective function and put at risk the approvals received by the product.