

## Operation Instruction

# SR 200

Full face mask APR



## General information

The SR 200 full face mask can be used in three configurations:

- Together with filters/cartridges from the Sundström filter (APR) range in accordance with NIOSH approval label.
- Together with Powered Air-Purifying Respirator (SR 500 PAPR) with filters / chemical cartridges from the Sundström filter range in accordance with NIOSH approval label.
- Together with compressed air attachment SR 307 and SR 358 or SR 359 in accordance with NIOSH approval label.

When selecting equipment for SR 200 some of the factors that should be considered are as follows:

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

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

User's Instruction for SR 200 should be read before use.

## Unpacking SR 200



### Packing list

- Full face mask
- Filter adapter
- Pre-filter
- Pre-filter holder
- Cleaning tissue
- ID-tag
- User instructions

## 1. Filter



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



**1.2** In environments in which both gases and particles occur, such as in spray painting, gas and particle filters must be combined.



**1.3** Place the particulate filter on top of the cartridge. Grasp both protective elements. Squeeze hard until you hear the particle filter snap onto the gas filter.



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



## 2. Fit the filter in a mask



**2.1** Fit the filter/combined filter in the filter adapter 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.



**2.2** Fit pre-filter SR 221 in the pre-filter holder and press it into place on the filter.



**2.3** Turn the filters into the mask. Screw until the thread reaches the seal at the bottom of the filter connection, then another 45 degrees.

## 3. Inspection before use



**3.1** Check that the mask is complete, correctly assembled and thoroughly cleaned.



**3.2** Check the mask body, membranes, valve seats and head harness for wear, cuts, cracks, missing parts, and other defects.



**3.3** Check the head harness



**3.4** Check that the appropriate filter is intact.

## 4. Putting the mask on



**4.1** Slacken the four elastic straps by moving the strap holders forward, at the same time pulling the straps.



**4.2** Slacken the upper two inelastic straps by opening the buckles.



**4.3** Move the head harness upwards, place your chin in the facepiece chin support and pull the head harness over your head.



**4.4** Tension the elastic straps in pairs by pulling the free strap ends towards the rear. Adjust the fit of the mask on your face, so that it fits firmly but comfortably. Adjust the lengths of the upper pair of straps and fix by means of the buckles.



## 5. Fit check



**5.1** Place the pre-filter holder to the filter. Put the mask on. Place the palm of your hand lightly over the hole on the pre-filter holder to make it tight. NOTE! Do not push so hard that the respirator's shape is affected. Take a deep breath and hold your breath for about 10 s. If the mask is tight, it will be pressed against your face. If any leakage is detected, check the inhalation and exhalation valves or adjust the straps of head harness. Repeat the fit check until there is no leakage.



## 6. Change the visor



**6.1** The visor is mounted in a groove running around the visor opening of the outer mask and is held in place by one upper and one lower frame half. Use a 2.5 mm Allen key to remove the two screws holding the frame halves together.



**6.2** Carefully remove the upper frame half. Carefully prise the top part of the mask off the visor and remove the visor from the lower groove.



**6.3** Take this opportunity to clean the groove, if necessary.

## 6. Change the visor



**6.4** Markings are made to show the centers of the visor, frame halves and mask. Press the new visor into the groove, making sure that the center markings are in line. To make assembly easier, coat the slot with a soap solution or similar liquid.



**6.5** Carefully prise the top half of the mask over the visor, and make sure that the visor is in the groove in the mask.



**6.6** Prise the upper frame half, making sure that the center markings are in line.



**6.7** Fit the screws and tighten them alternately until the two halves of the frame are firmly in contact.

## 7. Change the inhalation membranes



**7.1** One membrane is in the center of the inner mask on a fixed dowel. Prise off the membrane and fit a new membrane.



**7.2** Two membranes are fitted, i.e. one on each inside of the inner mask. The dowels for these membranes are removable and should be changed whenever the membrane is changed. Prise off the membranes and dowels.



**7.3** Prise the new membranes onto the new dowels. The membrane should rest on the larger flange, i.e. thread the dowel with the membrane from the inside of the mask, through the valve seat, with the smaller flange first.





## 8. Change the exhalation membranes



**8.1** The exhalation membranes are mounted on a fixed dowel on the inside of the valve covers on each side of the outer mask. The covers should be changed whenever the membranes are changed. Snap the valve covers off the valve seats.



**8.2** Prise off the membrane.



**8.3** Press the new membranes onto the dowels. Carefully check that the membranes are in contact with the valve seats all round.



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



## 9. Change the head harness



**9.1** The head harness can be ordered as a spare part only as a complete harness. Snap the strap holders of the head harness off the mask strap mountings.



**9.2** Check that the straps are not twisted and fit the new head harness.

## 10. Cleaning

Sundström cleaning tissues SR 5226 are recommended for daily care. If the mask is heavily soiled, use a warm (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.



10.1 Remove the adapter/filter. Remove the covers for the exhalation valves and remove the membranes (two).



10.2 Remove the inhalation membranes. Critical areas are the exhalation membranes and the valve seats which must have clean and undamaged contact surfaces.

10.3 If necessary, remove the visor.

Clean as described above. Inspect all parts and replace with new parts, as necessary. Leave the mask to dry, and then assemble it.

# 11. Maintenance schedule

Recommended minimum requirements on maintenance routines so you will be certain that the equipment will always be in usable condition.

	Before use	After use	Annually
Visual inspection	•		
Functional check	•		
Cleaning		•	
Membrane change			•
Head harness change			•