

Operating instruction

SR 580

Protective helmet with visor



General information

Instructions for use for SR 580 should be read before use.

SR 580 together with the fan unit SR 500/SR 500 EX/SR 700 and approved filters is included in the Sundström fan-assisted respiratory protective device system conforming to EN 12941/ EN 12942:1998 and AS/NZS 1716:2012.

SR 580 can be used together with fan unit SR 500 EX in explosive atmospheres.

SR 580 can also be used together with compressed air attachment SR 507 (fig. 1). This combination forms a breathing apparatus designed for continuous air flow, for connection to a compressed air supply in accordance with EN 14594:2005 and AS/NZS 1716:2012.

When selecting the head top, some of the factors that must be taken into account are as follows:

- Potentially explosive atmosphere.
- Concentrations.
- Work intensity.
- Protection requirements in addition to respiratory protective device.

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

Unpacking SR 580



Packing list:

- Complete SR 580
- Breathing hose
- User instructions
- Cleaning tissue

1. Control and donning of the hose



1.1 Check that the O-ring of the hose is in place and is undamaged.



1.2 Check that the thread is ok.



1.3 Mount the hose with the nut in the helmet.



1.4 Mount the hose in the fan.

2. Functional check



2.1 Turn the flow meter bag inside out and the flow meter appears



2.2 Place the head-top in the flow meter and start the fan unit. Grip the bag to seal around the breathing hose. Grip the flow meter tube with the other hand, the tube will point upwards from the bag

Read the position of the ball in the tube. This should hover at a level with or slightly above the upper marking on the tube, (175 l/min).

If minimum flow is not achieved, check that

- the flow meter is held upright,
- the ball moves freely,
- the bag seals well around the hose.

3. Putting the helmet on



3.1 Check that the 6-point harness is secured correctly.



3.3 To adjust the height of the helmet interior, move the pins between positions. If the interior is attached to pin a, the helmet will sit lower, and on pin b the helmet will be higher. To achieve the best fit, this adjustment can be made at both the front and back of the helmet.



3.2 Raise the visor and put on the helmet. If necessary, adjust the width of the helmet using the knob located at the rear of the harness.

3. Putting the helmet on



3.4 Lower the visor by pulling the face seal down below your chin. A 'click' indicates that the visor is fully lowered.



3.5 Insert a finger inside the face seal and move it along the length of the contact surface to check the fit.



3.6 Make sure that the breathing hose runs down your back and is not twisted. You can adjust the angle of the helmet connection as required.

4. Replacement of exhalation membrane



4.1 The exhalation membrane is fitted on a pin inside the valve cover. The cover must be replaced at the same time as the membrane. Do the following:

Remove the valve cover from the valve seat



4.2 Pull out the membrane. Check and, if necessary, clean the seal groove in the valve seat.



4.3 Press the new membrane securely on the pin. Carefully check that the membrane is fully in contact with the valve seat.



4.4 Press the valve cover firmly back into position. A 'snap' indicates that it is locked in position.

5. Replacement of visor



5.1 Unhook the face seal from the harness.



5.2 Remove the lower visor frame



5.3 Remove the visor

5. Replacement of visor



5.4 Fit the visor into the lower visor frame. Applying a little water to the seal will make fitting easier.



5.6 Check that the visor has achieved a full seal around the entire visor frame.



5.5 Fit the lower visor frame to the helmet by sliding it into position. A 'click' indicates that is locked in position.



5.7 Attach the hooks in the harness.

6. Replacement of face seal



6.1 Unhook the face seal from the head harness.



6.2 Remove the lower visor frame.



6.3 Unfasten the face seal by pulling its frame until the pins release from the holes in the visor.

Remove the face seal.

6. Replacement of face seal



6.4 Fit the face seal on the inner flange in the lower visor frame. Start at one side, push the pin upwards and control that the lip is fastened in the lower visor frame. Push along the face seal frame so it is securely fastened on the lower visor frame. Control that the pin and lip is fastened on both sides.



6.5 Fit the lower visor frame to the helmet by sliding it into position. A 'click' indicates that it is locked in position



6.6 Attach the hooks in the head harness.

7. Replacement of sweatband



7.1 Unhook the face seal from the head harness.



7.2 Remove the sweatband.



7.3 Fit the Velcro tape with the rough side towards the forehead strap and the groove facing upwards.



7.4 Attach the face seal hooks in the head harness.

8. Replacement of gasket

8.1 Unscrew the hose from the helmet.



8.2 Remove the gasket from the flange.



8.3 Fit the new gasket.

9. Cleaning

Sundström cleaning tissues SR 5226 that clean are recommended for daily care. If the equipment is more heavily fouled, use a soft brush or sponge moistened with a solution of water and washing detergent or the like.

If necessary, spray the product with 70 % ethanol or isopropanol solution for disinfection.

N.B. Never use a solvent for cleaning.



9.1 Clean the exhalation membrane and the valve seat. Check that everything is ok. Clean the valve cover on the outside.

10. Maintenance schedule

	Before use	After use	Annually
Visual inspection	•	•	•
Performance check	•		•
Cleaning/disinfection		•	•
Replacement of hose O-ring			•
Replacement of gasket in helmet			•
Replacement of exhalation membrane			•

The following schedule shows the recommended minimum maintenance procedures required in order to ensure that the equipment is always in functional condition.

At the first signs of wear, impact marks, damage or aging of the material, the helmet shell or harness must be replaced in order to ensure the protective ability of the helmet is maintained. This must be checked on a regular basis. A helmet that shows signs of damage, e.g. cracks or scratches, that may reduce its protective ability must be discarded. The helmet must also be discarded if it has been exposed to stresses during an accident or near accident, even if there is no visible damage. The helmet should be used within 5 years after the date of production or within 3 years of being taken into use, whichever of these dates is the earlier.