

Operating instruction

SR 540 EX



General information

Instructions for use for SR 540 should be read before use.

When working in potentially explosive environments all parts of the equipment must be EX-approved

SR 540 EX shield can be used with the SR 507 compressed air attachment.

SR 540 EX shield can be used with the SR 500 EX fan unit in potentially explosive environments.

SR 540 EX face shield in combination with fan unit SR 500 EX are approved in accordance with EN 12941:1998, class TH3.

SR 540 EX in combination with SR 507 and air hose SR 358 or SR 359 are approved in accordance with EN 14594:2005, class 3B.

SR 540 EX in combination with SR 507 and air hose SR 360 are approved in accordance with EN 14594:2005, class 3A.

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

Unpacking SR 540 EX



Packing list:

- Face shield
- Breathing hose
- User instruction
- Cleaning tissue

1. Assembly

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



Check that the flat gasket is ok and in place at the other end.



1.2 Connect the end with the flat gasket to the face shield. Turn it clockwise about 1/8 of a turn.



1.3 Connect the hose to the fan unit and turn it clockwise about 1/8 of a turn.



2. Performance check, minimum flow



2.1 Check that the fan unit is complete, correctly mounted, thoroughly cleaned and undamaged.

Connect the hose from the face shield to the fan unit and turn it about 1/8 of a turn clockwise.



2.2 Turn the flow meter bag inside out and the flow meter appears.



2.3 Place the face shield in the flow meter bag and start the fan.

Grip the lower part of the bag in order to seal around the hose.

Grip around the measuring tube and hold the tube vertical.

The ball should now float level with or just over the 175 l/min marking.

If the minimum flow is not achieved, check that:

- The flow meter is vertical
- The ball moves freely
- The bag seals well around the hose

3. Putting the face shield on



3.1 Raise the visor and put the face shield on. If necessary, adjust the circumference of the head harness by means of the knob at the rear of the head harness.



3.2 If necessary, adjust the head harness in height by lengthening or shortening the strap for the top of the head



3.3 Lower the visor unit by pulling the face seal down under your chin.



3.4 A clicking sound indicates that the visor unit has been lowered fully.



3.5 Insert a finger between your chin and the face seal and run the finger along the contact surface of the face seal all the way round to check that it fits well against the face.



3.6 Check that the breathing hose runs along your back and that it is not twisted.

4. Visor

4.1 Remove the closing panels by pushing them forward with your thumb.



4.2 Release the visor by moving the lever of the over-centre lock upwards through about 180 degrees. And remove the visor.



4.3 Remove the protective film from the new visor.
Secure the new visor first to the fixed mounting and then to the over-centre mounting.





4.4 Tension the visor by moving the lever downwards as far as it will go.



4.5 Check that the visor is firmly in contact with the visor opening seal all round.



4.6 Fit the closing panels by pushing them into place with your fingers. A clicking sound indicates that they are in place.

5. Face seal



5.1 Release the hooks from the head harness.



5.2 Release the face seal by pulling it's frame so that its pins are released from the visor unit holes.

Remove the face seal.



5.3 Thread the new face seal over the visor unit flange, with the centre markings in line with one other.



5.4 Press the face seal frame down so that the pins drop into the visor unit holes. A clicking sound indicates that they are in place.

Secure the hooks to the head harness in the place where sweatband is relieved. Like 5.1.

6. Sweatband



6.1 Release the face seal hooks from the head harness.



6.2 Pull the sweatband off.



6.3 Fit the Velcro strip with the ruffled side towards the forehead strap and with the relief upwards.



6.4 Secure the hooks to the head harness where a relief has been made in the sweatband.

7. Exhalation membrane



7.1 Snap off the valve cover from the valve seat.



7.2 Slip off the membrane.



7.3 Check that the valve seat is ok.



7.4 Press the new membrane onto the pin. Carefully check that the membrane is in contact with the valve seat all way round.

Press the valve cover into place. A clicking sound indicates that it is in place.

8. Cleaning/Disinfection



8.1 Sundström cleaning tissues SR 5226 are recommended for daily care. Clean face shield and visor. If necessary, spray the product with 70 % ethanol or isopropanol solution for disinfection.



8.2 If the equipment is more heavily fouled, use a soft brush or sponge moistened with a solution of water and dishwashing detergent or the like. Rinse the equipment and leave it to dry.



8.3 Clean left and right closing panel. Clean the exhalation membrane and the valve seat and check that the seat is ok. Clean the valve cover on the inside and outside.



8.4 Clean the face seal.

8.5 Clean around the mounting points for the visor.



8.6 Clean around the opening seal.



8.7 Clean the seal



After cleaning, store the equipment in a dry and clean place at room temperature. Avoid exposing it to direct sunlight. The flow meter can be turned inside out and can be used as storage bag for the head top.

9. Maintenance schedule

	Before use	After use	Annually
Visual inspection	•	•	•
Performance check	•		•
Cleaning		•	•
Change of O-ring for breathing hose			
Change of gasket for breathing hose			•
Change of exhalation membrane			•

The schedule represents the recommended minimum requirement for maintenance routines in order to ensure that the equipment will always be in functional condition.

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.