

Operation instruction

SR 507

Compressed air attachment



General information

Instructions for use for SR 507 should be read before use.

The SR 507 is an attachment that enables a given head-top to be converted between a fan-assisted respiratory protective device and a protective device with compressed air supply.

The Sundström SR 507 compressed air attachment can be used together with Sundström human interfaces below named head-tops:

Hood SR 520, SR 530, SR 561, SR 562, Face shield SR 540, SR 540 EX, SR 570, helmet with visor SR 580, half mask SR 900/SR 951.

This combination forms a breathing apparatus with continuous airflow for connection to a compressed air supply according to EN 14594 class 3A/3B.

Use of a respirator must be part of a respiratory protection program.

For advice see EN 529:2005 or AS/NZS 1715:2009. The guidance contained in these standards highlights important aspects of a respiratory protective device program but does not replace national or local regulations.

Breathable air

Breathable air shall meet at least the following purity requirements:

- The pollutants must be maintained at a minimum and must never exceed the hygienic limit value.
- The content of mineral oil shall be so low that the air will have no oil smell (the threshold of smell is around 0.3 mg/m³).
- The air shall have a sufficiently low dew point to ensure that no internal freezing will take place in the equipment.

In the event of uncertainty as to whether the above demands have been met, a filter such as the Sundström type SR 99-1 compressed air filter should be connected.

Unpacking SR 507



Packing list:

- Compressed air attachment
- Control valve
- Belt
- Flow meter
- User instructions

1. Functional check before use

On every occasion before using the equipment:

- Check on the rated capacity of the compressed air system.
- Check the maximum number of users permitted.
- Check the number of users already connected.

Check that the minimum flow of air through the head top is about 175 l/min



1.1 Connect the adapter to the breathing hose of the head top.



1.2 Connect the breathing hose to the control valve.



1.3 Connect the compressed air hose to the control valve.

1. Functional check before use



1.4 Turn the control valve knob anticlockwise as far as it will go in order to throttle the airflow rate to a minimum.



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

Hint: Turn the bag inside out and use it for storing the equipment



1.6 Place the head-top in the flow meter. 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.

2. Putting the equipment on



2.1 Put the belt on and adjust the belt length.



2.2 Arrange the control valve in a way that allows easy adjustment of the flow rate and a strict watch over the breathing hose, i.e. it must not be placed on the back of the waist.



2.3 Then fit the connection adapter to the breathing hose of the head.



2.4 Connect the breathing hose to the control valve outlet.

2. Putting the equipment on



2.5 Connect the hose to the control valve inlet.



2.7 Use the control valve knob to set the air flow rate to suit your current work intensity. In the fully closed position (turn the knob anti-clockwise), the flow is about 175 l/min, and in the fully open position (turn the knob clockwise), it is about 260 l/min.



2.6 The head top is now being supplied with air and you can put it on. Adjust the head harness.

3. Taking the equipment off



3.1 Leave the polluted work area before taking the equipment off.

Both couplings are of safety type and are released in two stages.

1. Push the coupling towards the nipple.



3.2

2. Pull the locking ring back.

4. Cleaning

The silencer of the compressed air accessory, i.e. the part inserted into the hose, is sensitive to water. So clean the equipment before dismantling it.

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

N.B. Never use a solvent for cleaning.



4.1 Sundström cleaning tissue SR 5226 that clean and disinfect are recommended for daily care.



4.2 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

5. Maintenance Schedule

5.1 The schedule below shows the minimum requirements on maintenance routines to assure the user that the equipment will always be in usable condition.

	Before use	After use	Annually
Visual inspection	•	•	•
Functional check	•		•
Cleaning		•	