

# Sundström



## SR 63

### Compressed Air Hood

ИНСТРУКЦИИ ЗА ПОТРЕБИТЕЛЯ • NÁVOD K POUŽITÍ •

BRUGGERVEJLEDNING • GEBRAUCHSANWEISUNG • ΟΔΗΓΙΕΣ ΧΡΗΣΗΣ •  
USER INSTRUCTIONS • INSTRUCCIONES DE USO • KASUTUSJUHEND  
• KÄYTTÖOHJEET • MODE D'EMPLOI • HASZNÁLATI UTASÍTÁS •  
ISTRUZIONI PER L'USO • NAUDOTOJO INSTRUKCIJOS • LIETOŠANAS  
INSTRUKCIJAS • GEBRUIKSAANWIJZING • BRUKSANVISNING •  
BRUKSANVISNING • INSTRUÇÕES DE UTILIZAÇÃO • INSTRUȚIUNI DE  
UTILIZARE • РУКОВОДСТВО ПОЛЬЗОВАТЕЛЯ • NÁVOD NA POUŽÍVANIE •  
NAVODILA ZA UPORABO • BRUKSANVISNING • KULLANMA TALIMATLARI

# SR 63 Compressed air hood

EN

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## 1. General information

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.

If you feel uncertain about the selection and care of the equipment, consult your work supervisor or get in touch with the sales outlet. You are also welcome to get in touch with the Technical Service Department at Sundström Safety AB.

### 1.1 System description

The Sundström SR 63 compressed air hood is a respiratory protective device which is supplied with a continuous flow of air and is designed for connection to a compressed air supply in accordance with European Standard EN 14594:2005 and AS/NZS 1716:2012. The pressure in the hood prevents polluted ambient air from entering the hood.

A compressed air supply tube intended for breathable air is connected to a control valve which is secured to a belt. The control valve is used for adjusting the air flow rate to the hood. A warning whistle on the valve comes into operation if the air flow rate should drop below the recommended value. From the control valve, the air flows through a breathing hose to a connection at the rear of the hood. From the connection, the air flows through a passage to the front of the hood, where it is distributed over the surface of the visor. The hood, which covers the head, neck and parts of the shoulders, is secured to an adjustable head harness. The replaceable visor is scratch-resistant. If protection against spatter and splash is required, the visor can be protected by means of a thin protective film available in sets of three. Excess air in the hood is discharged through an exhalation valve at the front of the hood. An adjustable elastic strap runs around the neck region of the hood.

### 1.2 Applications

The SR 63 can be used as an alternative to filtering devices in all situations in which the latter are recommended. This applies especially if the user is doing hard or sustained work, and if the pollutants have poor warning properties or are particularly toxic. In addition, the SR 63 is used in environments in which the concentration or type of pollutants is such that the use of a filtering device is not permissible. The SR 63 can also be used in flammable atmospheres, since all parts are made from materials which cannot give rise to frictional sparks.

### 1.3 Warnings/limitations

Note that there can be national differences in the regulations for use of respiratory protective equipment.

As a general rule, the user must ensure that he will always be able to retreat to a safe area without risk if the air supply should cease or if he must remove the equipment for some other reason.

#### Warnings

The equipment must not be used:

- If the air flow test or fit test does not produce satisfactory results. See 3.2.
- If the ambient air does not have normal oxygen content.
- If the pollutants are unknown.

- In environments that are Immediately Dangerous to Life and Health (IDLH).
- With oxygen or oxygen-enriched air.
- If you find that breathing is difficult.
- If you can smell or taste the pollutants.
- If you feel dizzy or nauseous, or if you suffer any other type of discomfort.
- If the warning whistle comes into operation, which indicates that the air supply is lower than recommended.

#### Limitations

- A person working in an explosive or flammable environment must follow any local regulations that may be in force for such conditions.
- At very high work intensity, negative pressure may occur in the equipment during the inhalation phase, which may cause ambient air to be drawn in.
- Use of the equipment together with spiral tube SR 360 is restricted to situations in which there is little risk of damage to the tube and if the freedom of movement of the user can be restricted.
- The air supply system should be equipped with an appropriately rated and adjusted pressure relief safety valve.
- A risk assessment has to be done to avoid possible perilous connections possible at the workplace, e.g. Nitrox.
- The equipment is approved only together with Sundström compressed air supply tube that must be used if CE approval and product responsibility are to apply.
- The SR 63 is not approved for use with a mobile compressed air system.

### 1.4 Breathable air

Breathable air shall meet at least the following purity requirements according to EN 12021:2014:

- 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/m<sup>3</sup>.
- 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. Fig. 12. The SR 99-1 compressed air filter consists of a pre-collector and a main filter. The main filter consists of a gas filter section - class A3 as per EN 14387:2004 and AS/NZS 1716:2012 - with about 500 g of activated carbon, surrounded by two particle filters - class P3 as per EN 143:2000 and AS/NZS 1716:2012. The collecting capacity is 100 - 150 g of oil. For further particulars of breathable air, see European Standard EN 132:1998, Australian Standard AS/NZS 1715:2009 and any other national regulations that may be in force.

## 2. Parts

### 2.1 Delivery check

Check that the equipment is complete in accordance with the packing list, and undamaged.

#### Packing list

- Hood with breathing hose
- Control valve
- Belt
- Flow meter
- Protective film
- User instructions

## 2.2 Accessories / Spare parts

Fig. 1.

### Item

No.	Part	Order No.
1.	Breathing hose	R03-0311
2.	Belt	R03-1510
2.	Belt PVC	T01-3008
3.	Hood excl. control valve	R03-0314
4.	Hood, bare	R03-0305
5.	Head harness	R03-0322
6.	Control valve SR 348	R03-0317
	<b>Repair kit</b>	<b>R03-0308</b>
7.	Visor	-
8.	Frame	-
9.	Rubber stud (8 pcs)	-
10.	Screw (2 pcs)	-
11.	Protective cap	-
12.	Exhalation membrane	-
	Flow meter. Fig 2	R03-0346
	Protective film (3 pcs)	R03-0105
	Compressed air filter SR 99-1. Fig. 12	H03-0210
	Compressed air supply tube. See section 5.	-

## 3. Use

### 3.1 Installation

- Unroll the compressed air supply tube and make sure that it is not twisted.
- Connect the breathing hose of the hood to the outlet of the control valve. Fig. 3.
- Connect the compressed air supply tube to the control valve inlet. Fig. 4.
- The hood is now being supplied with air, and you can put it on. If necessary, the width and height of the head harness can now be adjusted. See 4.4.2.

### 3.2 Functional check

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 hood is at least 150 l/min.

Proceed as follows:

- Connect the breathing hose of the facepiece to the control valve. Fig. 3
- Connect the compressed air supply tube to the control valve. Fig. 4
- Turn the control valve knob anti-clockwise as far as it will go, in order to throttle the air flow rate to a minimum. Fig. 3
- Place the hood in the bag and grip the opening of the bag so that it seals around the breathing hose. Fig. 2.
- Grip the flow meter with the other hand and hold it so that it points vertically up from the bag.

Read the position of the ball in the tube. It should float level with or just above the marking on the tube.

If the flow rate is below the minimum value, check that

- The flow meter is vertical.
- The float can move freely.
- The air supply is not restricted by kinks or other restrictions in the hoses.

### 3.3 Donning

- Put the belt on and adjust the length.
- 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.
- Adjust the neck width of the hood by means of the elastic neck strap.

- Use the control valve knob to set the air flow rate to suit the work intensity. Fig. 3. In the fully closed position (turn anti-clockwise), the flow is around 150 l/min, while in the fully open position (turn clockwise), it is around 240 l/min.

## 3.4 Doffing

**Leave the work area before taking the hood off.**

- Release the neck strap by releasing the buckle. Grip the top part of the hood with both hands and pull the hood upwards/forward. In emergency situations, the neck strap can be released without releasing the buckle: Grip the neck strap with one hand on each side of the buckle and pull firmly.

### Releasing the compressed air tube / breathing hose

Both couplings are of safety type and are released in two stages. Fig 5.

- Push the coupling towards the nipple.
- Pull the locking ring back.

## 4. Maintenance

Personnel who are responsible for maintenance of the equipment must be trained and well acquainted with this type of work.

### 4.1 Cleaning

Sundström cleaning wipe SR 5226 is recommended for daily care. If the equipment 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 equipment with 70 % ethanol or isopropanol solution for disinfection.

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

### 4.2 Storage

After cleaning, store the equipment in a dry and clean place at room temperature. Avoid direct sunlight. The flow meter can be turned inside out and be used as a storing bag.

### 4.3 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		●	
Change of breathing hose			●

### 4.4 Spare 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.

#### 4.4.1 To change the control valve

The control valve is a complete, sealed unit. Never attempt to repair or modify it.

#### 4.4.2 To change the visor/frame

**Proceed as follows to change the visor/frame:**

- Release the head harness which is secured by means of two socket-head screws at the top corners of the frame.
- Pull off the 8 rubber studs, and remove the frame and visor.
- Straighten the frame or fit a new frame, and place it on a flat surface with the short side towards you. Fit 4 studs into the two furthest holes on each side. Fig. 6.
- Place the hood over the frame and insert the 4 studs into the corresponding holes in the hood.
- Remove the protective films from the visor and from the double-sided adhesive tape. Fig. 7, 8.

- Fit the visor, with the tape facing downwards, over the rubber studs. Bear in mind that the holes for the head harness screws must be oriented in the same direction as the hood and frame. Secure with the studs, possibly using a pair of pliers. Fig. 9.
- Bend the frame to the required shape. Align the vacant holes for the studs in the frame, hood and visor. Insert the studs and secure them by pulling the studs from the inside of the hood. The simplest procedure is to fit one stud at a time. Fig. 10.
- Press the visor towards the frame all round, so that the tape will stick to the hood material.
- Fit the head harness. Make sure that the beads in the mounting plate of the head harness are oriented into the guide holes in the visor. Finally, check that the work has been correctly done.

### 4.4.3 To change the breathing hose

To change the breathing hose, proceed as follows:

- Release the hose from the control valve. See 3.4.
- Release the hose from the hood by cutting off the hose clip with a pair of nippers.
- Thread the hose clip supplied onto the new hose, and connect the hose to the hose nipple of the hood.
- Secure the hose clip by means of the pincers.

### 4.4.4 Head harness adjustment

The width and height can be adjusted with the head harness in place in the hood.

#### To adjust the width

Use the knob in the rear part of the head harness to adjust the width. Fig. 1:5

Turn the knob clockwise to reduce the width and anti-clockwise to increase it.

#### To adjust the height

The head strap of the head harness consists of two halves. The upper half runs in a groove in the lower half. The position is determined by means of a pin in the lower half that engages in one of the holes in the upper half. Fig. 11.

### 4.4.5 Protective film

See the user instructions printed on the plastic bag.

### Compressed air supply tube AS/NZS

Approved tubes must be used if Australian Standards approval is to be valid. Tubes from 5 -30 m or coupled to 90 m may be used.

#### Sound level

Less than 80 dB(A).

#### Temperature range







Storage temperature: from -20 °C to +40 °C and a relative humidity below 90 %.

Service temperature: from -10 °C to +55 °C and a relative humidity below 90 %.

#### Shelf life

The equipment has a shelf life of 5 years from the date of manufacture.

## 6. Key to symbol

-  See user instructions
-  Date clocks, year and month
-  CE approved by INSPEC International B.V.
-  Relative humidity
-  Temperature range
-  Material designation

## 7. Approval

- SR 63 with compressed air supply tube SR 358/SR 359: EN 14594:2005, class 3B.
- SR 63 with spiral coil tube SR 360: EN 14594:2005, class 3A.

The PPE Regulation (EU) 2016/425 type approval has been issued by Notified Body 2849. For the address, see the reverse side of the user instructions.

The EU declaration of conformity is available at [www.srsafety.com](http://www.srsafety.com)

#### UKCA

UKCA Type-examination by UK Approved Body No 0194, INSPEC International Ltd, 56 Leslie Hough Way, Salford, Greater Manchester, M6 6AJ, United Kingdom.

The UKCA declaration of conformity is available at [www.srsafety.com](http://www.srsafety.com)

#### Australian StandardsMark

The Compressed Air Hood SR 63 is tested and certified to comply to AS/NZS 1716:2012.

The StandardsMark is issued under licence by SAI Global Pty Limited Lic No. 766 (ACN 108 716 669) ("SAI Global").

## 5. Technical specification

#### Size

Manufactured in one size. The head harness is adjustable and will fit the vast majority of head sizes.

#### Weight

770 g without control valve assembly and filters.

#### Working pressure

4 - 7 bar (400 - 700 kPa), measured at the connection to the control valve.

#### Air flow

150 l/min to 240 l/min, measured through the facepiece.

Manufacturer's minimum design flow: 150 l/min.

#### Compressed air supply tube

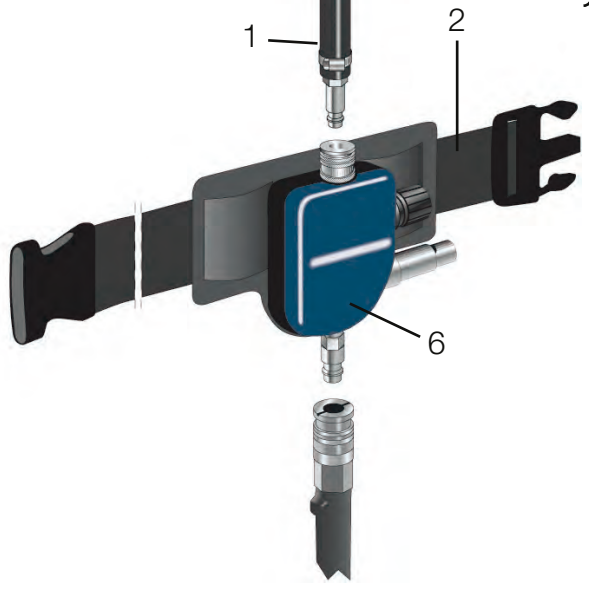
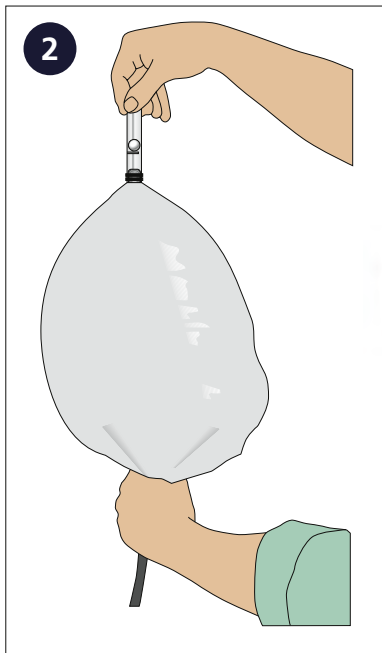
The following compressed air tubes are type approved together with all Sundström compressed air fed equipment.

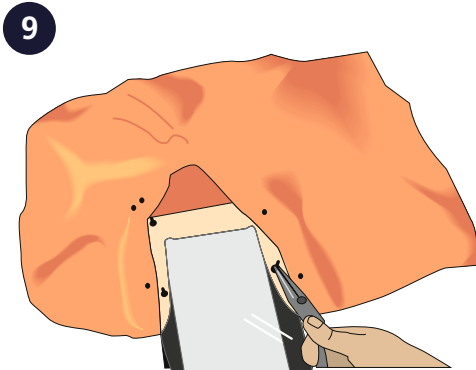
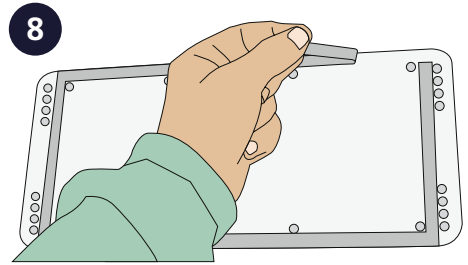
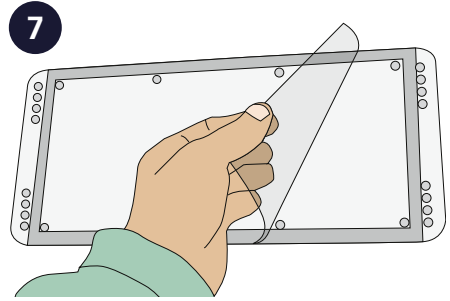
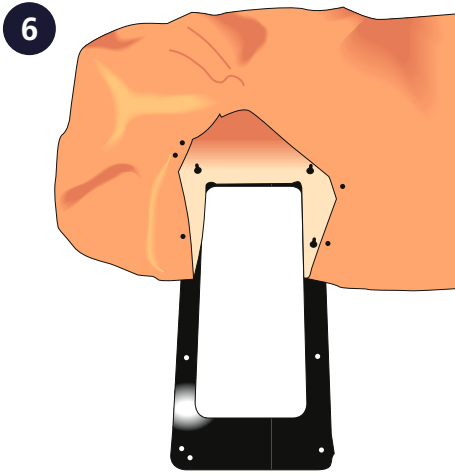
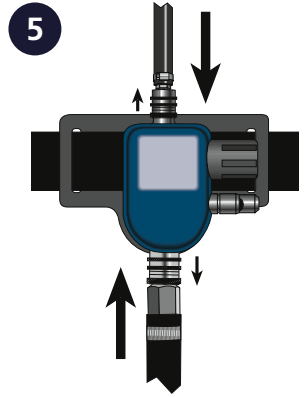
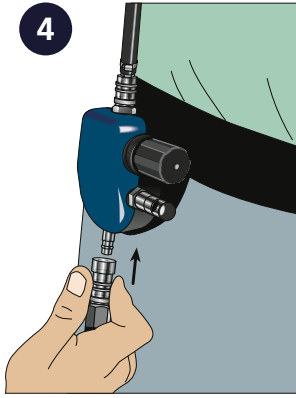
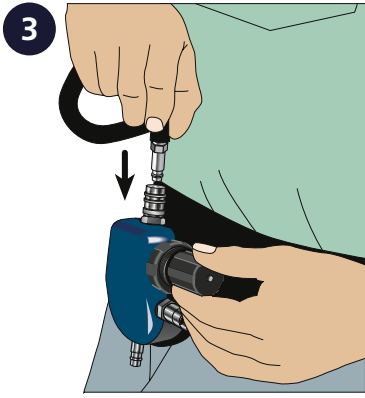
Maximum working pressure 7 bar.

- SR 358. 10/16 mm plastic tube, made of polyester reinforced PVC. Oil and chemicals resistant. 5-30 m.
- SR 359. 9.5/19 mm rubber tube, made of polyester reinforced EPDM. Antistatic, heat resistant. 5-30 m.
- SR 360. 8/12 mm plastic spiral coiled tube made of Polyurethane. 2, 4, 6 and 8 m.

The tubes should be used separately. It is not allowed to join tubes together.

1





11



12



SR 99-1











The SR 63 Compressed Air Hood is manufactured within  
a quality management system accepted by Notified  
Notified Body 2849: INSPEC International B.V.,  
Beechavenue 54-62, 1119 PW,  
Schiphol-Rijk, The Netherlands.



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