

# SR 500 EX

Powered Air Purifying  
Respiratory Protection



**Sundström** 

# SR 500 EX

APPROVED FOR USE IN EXPLOSIVE  
GAS AND DUST ATMOSPHERE



ATEX approved  
High air flow rates  
Low weight  
Simple management system  
Automatic air flow control  
Alarm system  
Simple filter programme  
Choose between seven  
human interfaces

The intrinsically safe SR 500 EX is a battery-powered fan unit that is specially designed to be used in a potential explosive atmosphere. The SR 500 EX together with filters and an approved respiratory interface is included in the Sundström fan-assisted respiratory protective device system.

## Risk assessment:

It is essential that a risk assessment is done before an EX classified product is chosen. The risk assessment shall be carried out and be documented by a person that has knowledge and suitable training to carry out this type of assessment.

The filtered air is supplied through a breathing hose to the human interface. The positive pressure then generated prevents pollutants from the surroundings from penetrating into the human interface. The same control is used for starting, stopping and selection of operating status (air flow 175 or 225 l/min). Equipped with automatic air flow control, initiates an alarm by sound and light signals in the event of an obstruction in the air flow.

## Information on all important data is given via symbols, on the panel:

- Small fan symbol that lights up with a green light during normal operation.
- Bigger fan symbol that lights up with a green light during boosted operation.
- Triangle that lights up with a red light if the air flow should cease or if the particle filters are clogged.
- Battery symbol that lights up with a yellow light when the battery capacity is low.

## EXPLANATION FOR ATEX CLASSIFICATION

	Explosive area symbol.
II	Equipment group (explosive atmospheres other than mines).
2 GD	Equipment category. (2 = High level of protection, zones 1/21. G = Gas. D = Dust).
Ex	Explosion protected.
ib	Type of ignition protection (Intrinsic safety).
IIA	Explosion group Propane.
IIB	Explosion group Ethylene.
IIIC	Dust material group (zone with conductive dust)
T3	Temperature class gas. (Maximum surface temperature +200 °C).
T195°C	Temperature class dust (maximum surface temperature +195 °C)
Gb	Equipment Protection Level, gas (high protection)
Db	Equipment Protection Level, dust (high protection)

# FACE PIECES FOR SR 500 EX



Face shield SR 570

## Face shield SR 570

An unique shield with excellent field of vision, high level of respiratory protection. The face shield can be easily flipped up to a good balanced "over the head" position. Easily replaceable visor of polycarbonate.

SR 570 is TH3 approved in accordance with EN 12941:1998.

**EX-class, gas: II 2 G Ex ib IIA T3 Gb**  
**EX-class dust: II 2 D Ex ib IIIC T195°C Db**

**SR 570 Part no. 195-06160**



Hood SR 561

## Hood SR 601

A lightweight hood that protects the respiratory organs, head and shoulders.

Replaceable hood of Microchem® 2800 material with adjustable drawstring. One size fits all face shapes. Visor of PETG.

SR 601 is TH3 approved in accordance with EN 12941:1998.

**EX-class, gas: II 2 G Ex ib IIB T3 Gb**  
**EX-class dust: II 2 D Ex ib IIIC T195°C Db**  
**SR 601 Part no. 195-06377**



Hood SR 562

## Protective helmet with visor SR 580

The SR 580 provides complete protection when respiratory, face and head protection is required and can be easily combined with the majority of ear defenders. Polycarbonate visor, easy to rise with a large field of view. The visor is simple to change.

SR 580 is TH3 approved in accordance with EN 12941:1998.

**EX-class, gas: II 2 G Ex ib IIA T3 Gb**  
**EX-class dust: II 2 D Ex ib IIIC T195°C Db**

**SR 580 Part no. 195-05520**



Protective helmet with visor SR 580

## Hood SR 520

A lightweight hood which covers the face and head. Available in two sizes, S/M and M/L. Visor of chemical resistant CA.

SR 520 is TH3 approved in accordance with EN 12941:1998.

**EX-class, gas: II 2 G Ex ib IIB T3 Gb**  
**EX-class dust: II 2 D Ex ib IIIC T195°C Db**

**SR 520 S/M Part no.195-04999**  
**SR 520 M/L Part no. 195-04998**



Hood SR 520

## Hood SR 530

Similar to SR 520 but also protects the neck and shoulders. Easily adjustable neck seal, providing high protection even for people with beard. One size fits all face shapes. Visor of chemical resistant CA.

SR 530 is TH3 approved in accordance with EN 12941:1998.

**EX-class, gas: II 2 G Ex ib IIB T3 Gb**  
**EX-class dust: II 2 D Ex ib IIIC T195°C Db**

**SR 530 Part no. 195-0500**



Hood SR 530

## SR 200 with hose SR 550 PU/SR 551 rubber

For connection to Sundström full face mask SR 200. This combination gives the highest level of protection attainable using filter protection.

SR 550 + SR 200 full face mask is TM3 approved in accordance with EN 12942:1998.

1) SR 200 with PC visor  
**EX-class, gas: II 2 G Ex ib IIA T3 Gb EX-class dust: II 2 D Ex ib IIIC T195°C Db**

**SR 200 with PC visor & cloth head harness Part no. 110-04179**  
**SR200 with PC visor & rubber head harness Part no. 110-04852**

2) SR 200 with glass visor  
**EX-class, gas: II 2 G Ex ib IIB T3 Gb**  
**EX-class dust: II 2 D Ex ib IIIC T195°C Db**

**SR 200 with glass visor & cloth head harness Part no. 110-04213**  
**SR 200 with glass visor & rubber head harness Part no. 110-04851**

**SR 550 PU Part no 196-05014**  
**SR 551 rubber Part no 196-05946**



SR 200 with hose  
SR 550 PU/SR 551 Rubber

## Hood SR 602

A lightweight hood that protects the respiratory organs, head and shoulders.

Replaceable hood of Microchem® 4000 material with adjustable drawstring. One size fits all face shapes. Visor of PETG.

SR 602 is TH3 approved in accordance with EN 12941:1998.

**EX-class, gas: II 2 G Ex ib IIB T3 Gb**  
**EX-class dust: II 2 D Ex ib IIIC T195°C Db**  
**SR 602 Part no. 195-05342**



# FILTERS FOR POWERED DEVICES

The filters are dimensioned to cope with the high air-flow rates provided by the fan unit.



**SR 510 particle filter P3 R** is a mechanical particle filter of class P3 R with an extremely high efficiency >99.997% and an active area of 13 dm<sup>2</sup>. The filter can be used together with an adapter in the case of simple particle contaminants or in combination with a suitable gas filter. SR 510 is used for all filter protection equipment in Sundström Safety's programme.  
**Part. no 130-00026**



**SR 710 particle filter P3 R** is a mechanical particle filter of class P3 R with an extremely high efficiency (> 99.997%) and an active area of 13 dm<sup>2</sup>. The filter offers protection against all types of particles, both solids and liquids. SR 710 cannot be combined with gas filters.  
**Part. no 130-05339**



**SR 515 gas filter ABE1** is designed to assure protection against organic compounds with a boiling point above +65°C, as well as inorganic and acidic gases. Gas filters for fan SR 500 EX must be used in combination with particle filter SR 510 P3 R at all times.  
**Part. no 192-04995**



**SR 518 gas filter A2** is a filter for protection against organic compounds with a boiling point above +65°C, i.e. most solvents. Class 2 means high capacity and thus a long operating time. Gas filters for fan SR 500 EX must be used in combination with particle filter SR 510 P3 R at all times.  
**Part. no 191-04994**



**SR 599 combination filter A1BE2K1HgP3** offers protection against organic compounds with a boiling point above +65°C, inorganic compounds and acidic gases/vapours, ammonia, mercury vapour as well as against all types of particles. It is designed for use in the SR 500 EX fan. Its maximum time of use for protection against mercury vapour is 50 hours.  
**Part. no 194-05282**



**SR 597 gas filter A1BE2K1** offers protection against organic compounds with a boiling point above +65°C, inorganic and acidic gases as well as ammonia and certain amines. Gas filters for the SR 500 EX fan should be used in combination with particle filter SR 510 P3 R at all times.  
**Part. no 193-04996**

## Operating times

The operating times may vary with different temperatures, premature of filters and the condition of the battery. The table below gives the expected operating times under ideal conditions.

**Always use pre filter SR 221, which will protect the particle filter from too early clogging.**

EX Battery 2,1 Ah	Filter	Air flow rate	Expected operating life
X	SR 510	175 l/min	6,5 hours
X	SR 510	225 l/min	4 hours
X	SR 599	175 l/min	4 hours
X	SR 599	225 l/min	2,5 hours

# SR 500 EX SYSTEM

ATEX approved face pieces and accessories

SR 500	Designation	Part no.
Fan unit	SR 500 EX	19S-05384
Belt, cotton EX	SR 508 EX	19P-05391
Belt, leather EX	SR 504 EX	19A-05388
Belt, rubber EX	SR 503 EX	19A-05387
Harness	SR 552 EX	19A-05906
Steel net disc	SR 336	170-05281
Pre filter	SR 221	140-00027
Particle filter	SR 510 P3 R	130-00026
Particle filter	SR 710 P3 R	130-05339
Gas filter	SR 518 A2	191-04994
Gas filter	SR 515 ABE1	192-04995
Gas filter	SR 597 A1BE2K1	193-04996
Combination filter	SR 599 A1BE2K1 Hg P3 R	194-05282

SR 200	Designation	Part no.
Full face mask w. glass visor	SR 200	110-04213 (Cloth) & 110-04851 (NR)
Full face mask w. PC visor	SR 200	110-04179 (Cloth) & 110-04852 (NR)
Breathing hose PU	SR 550	196-05014
Breathing hose, rubber	SR 551	196-05946
Spectacle frames	SR 341	170-06352
Head harness, rubber	SR 340	181-04872
Name tag	SR 368	170-04026
Short duration hood	SR 64	170-000212
Protective hood	SR 345	170-01849

SR 520/SR 530	Designation	Part no.
Hood	SR 520 S/M	195-04999
Hood	SR 520 M/L	195-04998
Hood	SR 530	195-05000

SR 570	Designation	Part no.
Face shield with hose	SR 570	195-06160
Visor set	SR 570	196-06462

SR 601/SR 602	Designation	Part no.
Hood	SR 601	195-056377
Hood	SR 602	195-06380

SR 580	Designation	Part no.
Helmet with visor	SR 580	195-05520



Harness SR 552 EX



Belt SR 504



The **S.E.A.**  
Group  
sea.com.au

1800 655 129  
+61 2 9910 7500

sea.enquiries@sea.com.au

**Sundström**