

# 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 540 EX

## Face shield SR 540 EX

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. Simply replaceable visor of PC or alternatively PETG.

SR 540 EX 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 540 EX Art. no H06-6012



Protective helmet with visor SR 580

## 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 Art. no H06-8012



Hood SR 520

## 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 Art. no H06-0312  
SR 520 M/L Art. no H06-0212



Hood SR 530

## 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 Art. no H03-0412



Hood SR 561

## Hood SR 561

A lightweight hood which protects head and shoulders. Replaceable hood of Tyvek with an easily adjustable head harness. Easily adjustable and comfortable neck seal of cotton. Visor of PETG.

SR 561 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 561 Art. no H06-5012



Hood SR 562

## Hood SR 562

A lightweight hood which covers the face and head. Replaceable hood of Tyvek with an easily adjustable head harness. Available in one size. Easily adjustable and comfortable face seal in polyamide/lycra. Visor of PETG.

SR 562 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 562 Art. no H06-5112



SR 200 with hose  
SR 550 PU/SR 551 Rubber

## 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 Art. no H01-1312

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 Art. no H01-1212

SR 550 PU Art. no H01-1216  
SR 551 rubber Art. no H01-1218



# 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.

**Art. no H02-1312**



**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.

**Art. no H02-1512**



**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.

**Art. no H02-7112**



**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.

**Art. no H02-7012**



**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.

**Art. no H02-7312**



**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.

**Art. no H02-7212**

## 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.

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

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

## SR 500 EX SYSTEM

ATEX approved face pieces and accessories

SR 500	Designation	Art. no
Fan unit	SR 500 EX	H06-2012
Belt, cotton EX	SR 508 EX	R06-2148
Belt, leather EX	SR 504 EX	T06-2149
Belt, rubber EX	SR 503 EX	T06-2150
Harness	SR 552 EX	T06-2002
Steel net disc	SR 336	T01-2001
Pre filter	SR 221	H02-0312
Particle filter	SR 510 P3 R	H02-1312
Particle filter	SR 710 P3 R	H02-1512
Gas filter	SR 518 A2	H02-7012
Gas filter	SR 515 ABE1	H02-7112
Gas filter	SR 597 A1BE2K1	H02-7212
Combination filter	SR 599 A1BE2K1 Hg P3 R	H02-7312

SR 200	Designation	Art. no
Full face mask w. glass visor	SR 200	H01-1212
Full face mask w. PC visor	SR 200	H01-1312
Breathing hose PU	SR 550	T01-1216
Breathing hose, rubber	SR 551	T01-1218
Spectacle frames	SR 341	T01-1201
Head harness, rubber	SR 340	T01-1215
Name tag	SR 368	R09-0101
Short duration hood	SR 64	H09-0301
Protective hood	SR 345	H09-1012

SR 520/SR 530	Designation	Art. no
Hood	SR 520 S/M	H06-0312
Hood	SR 520 M/L	H06-0212
Hood	SR 530	H06-0412

SR 540 EX	Designation	Art. no
Face shield	SR 540 EX	H06-6012
Visor set PETG	SR 545	T06-0502

SR 561/SR 562	Designation	Art. no
Hood	SR 561	H06-5012
Hood	SR 562	H06-5112

SR 580	Designation	Art. no
Helmet with visor	SR 580	H06-8012



Harness SR 552 EX



Belt SR 504

For further information, visit [www.srsafety.com](http://www.srsafety.com)

