

Sundström Safety AB SR 500 EX series

Powered Air Purifying Respiratory Protection



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

SR 500 EX series

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. For more information, contact: support@srsafety.se

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.

Accessories - SR 500 EX

SR 505 EX Practical grip bag with two separate major compartments. Space for the SR 500 EX, accessories and chosen face-piece.

Leather belt SR 503 EX

Rubber belt SR 504 EX

SR 501 EX, NiMH-battery. 13.5 V, 2.1 Ah. Charging time approx. 2 hours.



Hood SR 562 A lightweight hood which covers the face and head. Replaceable hood of Tyvec 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: II 2 G EEx ib IIB T3. EX-class: II 2 D Ex ibD 21 T195°C.



Hood SR 561 A lightweight hood which protects head and shoulders. Replaceable hood of Tyvec 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: II 2 G EEx ib IIB T3. EX-class: II 2 D Ex ibD 21 T195°C.

The face shield and the hoods are delivered with hose for direct assembly in SR 500 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 is TH3 approved in accordance with EN 12941:1998.

EX-class: II 2 G EEx ib IIA T3.

EX-class: II 2 D Ex ibD 21 T195°C.



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: II 2 G EEx ib IIB T3.

EX-class: II 2 D Ex ibD 21 T195°C.

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: II 2 G EEx ib IIB T3.

EX-class: II 2 D Ex ibD 21 T195°C.



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.

1) SR 200 with. PC visor:

EX-class: II 2 G EEx ib IIA T3.


EX-class: II 2 D Ex ibD 21 T195°C.

2) SR 200 with glass visor:

EX-class: II 2 G EEx ib IIB T3.

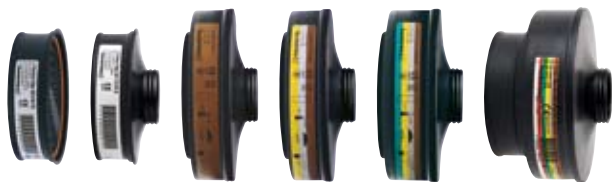
EX-class: II 2 D Ex ibD 21 T195°C.

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).
EEx/Ex	E = Certified to CENELEC standards. Ex = Explosion protected.
ib/ibD	Type of ignition protection (Intrinsic safety).
IIA	Explosion group Propane.
IIB	Explosion group Ethylene.
21	Zone with combustible dust.
T3	Temperature class gas. (Maximum surface temperature +200 °C).
T195 °C	Temperature class dust. (Maximum surface temperature +195 °C).

SR 500 EX series

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



SR 510 and **SR 710** class P3 R, mechanical particle filter with a very high efficiency > 99.997% and an active area of 13 dm². The filter protects against all types of particles, solid and liquid. SR 510 can be used separately or combined with a gas filter. SR 710 can not be combined with a gas filter.

SR 510 fits all Sundström filter respirator products.

SR 518 A2 filter for use against organic gas, including most solvents. A2 classification gives better capacity and longer lifetime compared to class 1.

SR 515 ABE1 filter, designed to protect against organic, inorganic and acid gases.

SR 597 gas filter A1B2E2K1 gives same protection as SR 515, but also including ammonia and certain amines.

SR 599 combined filter A1BE2K1-Hg-P3 R protects against organic compounds with a boiling point above +65° C, inorganic and acid gases/vapours, ammonia, mercury vapour and all types of particles.

Note that each gas filter shall always be combined with particle filter SR 510 P3 R to prolong the lifetime of the fan unit. Always use pre filter SR 221, which will protect the particle filter from too early clogging.

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 2.1Ah	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

EX approved face pieces and accessories

SR 500 EX	Designation	Art. no	SR 200	Designation	Art. no
Fan unit	SR 500 EX	H06-2012	Full face mask w. glass visor	SR 200	H02-1212
Belt, cotton	SR 508 EX	R06-2148	Full face mask w. PC visor	SR 200	H02-1312
Belt, leather	SR 503 EX	T06-2149	Breathing hose PU	SR 550	T01-1216
Belt, rubber	SR 504 EX	T06-2150	Breathing hose, rubber	SR 551	T01-1218
Steel net disc	SR 336	T01-2001	Spectacle frames	SR 341	T01-1201
Pre filter	SR 221	H02-0312	Head harness, rubber	SR 340	T01-1215
Particle filter	SR 510 P3 R	H02-1312	Name tag	SR 368	R09-0101
Particle filter	SR 710 P3 R	H02-1512	Short duration hood	SR 64	H09-0301
Gas filter	SR 518 A2	H02-7012	Protective hood	SR 345	H09-1012
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 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 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			

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