



Sundström Safety AB's fan-assisted filter protection range now extended by the SR 700 particle filter fan

- Designed to provide protection against harmful and hazardous particles
- High air flow of 175 or 225 l/min
- Automatic air flow control
- Detachable lithium-ion battery with short charging time of 2 hours
- Operating time up to 8 hours
- Fully protected electronics and fan housing assure a long and reliable operating life
- Equipped with two SR 510 P3 or SR 710 P3 particle filters with screw threads
- Approved for all Sundström class TH3 and TM3 face pieces according to EN 12941/12942:1998

SR 500/SR 700

Fan-assisted filter protective device

Sundström Safety's fan-assisted respiratory protective devices have been developed to give the user the highest level of protection, comfort, simplicity and cost-effectiveness. A fan solution is often selected for lengthy or heavy-duty work. To avoid harmful infiltration, it is important for the air supply to be sufficiently high to maintain an overpressure in the face piece even when inhaling more deeply. The SR 700 and SR 500 fan units provide an air flow of 175 and 225 l/min respectively, constantly monitored by an automatic air flow controller that ensures this level irrespective of the filter clogging level or the battery voltage.

An audible and optical alarm, and for the SR 500 also a vibration alarm, provide warning of a clogged particle filter or low battery voltage. Thanks to these high air flows, the highest protection level in their respective class is ensured for all face pieces. Infiltration by the face pieces is tested together with the fan unit according to standard. A distinction is made between loosely fitting parts such as the hood, visor and helmet (TH), and sealed parts such as half and full masks (TM).

Class	Infiltration	Nominal protection factor	Class	Infiltration	Nominal protection factor
TH1	10 %	10	TM1	5 %	20
TH2	2 %	50	TM2	0,5 %	200
TH3	0,2 %	500	TM3	0,05 %	2000

When selecting a fan solution, it is important to obtain as high a protection factor as possible, as this describes the cleanliness factor of the air entering the protective gear.

Sundström's solution leaves no room for doubt – all face pieces are approved to the highest protection class, TH3 or TM3.

Technical specifications for SR 500 and SR 700

Specification	SR 500	SR 700
Approvals	EN 12941:1998/EN 12942:1998	EN 12941:1998/EN 12942:1998
Air flow, min/max	175/225 l/min	175/225 l/min
Automatic air flow control	Yes	Yes
Battery	Li-ion SR 501 Std / SR 502 HD	Li-ion SR 701 std
Charging times	2 hours	2 hours
Operating times	8 hours/13 hours	Up to 8 hours
Weight + belt + P3 filter	1490 g	1100 g
Approved filters	SR 510, SR 710, SR518, SR 515, SR 597, SR 599 + pre-filter SR 221	SR 510 P3 alt SR 710 P3 + pre-filter SR 221
Charger	SR 513	SR 713
Charging station	SR 506/SR 516	-
Alarm	Audible/vibration	Audible/optical
Face piece	TH3/TM3	TH3/TM3

Choosing a fan unit

Choose the SR 700 for protection only against particles.

The SR 700 is a compact and lightweight particle-filter fan unit specially developed for work with harmful and hazardous particles in applications requiring very good protection capability. The fan unit is equipped with two screw-threaded P3 SR 710 or SR 510 P3 filters of extremely high efficiency (degree of separation > 99.997%).

- An easily accessible button controls the start, stop and selection of air flows (175 or 225 l/min).
- The automatic air flow control guarantees the selected air flow irrespective of the filter clogging level and battery voltage.
- Display with clear symbols for key data, e.g. selected air flow and type of alarm.
- Audible and optical alarms.
- SR 701 lithium-ion battery as standard (14.8 V, 2.2 Ah) with a charging time of about 2 hours.
- The operating time is about 8 hours at an air flow of 175 l/min and about 5 hours at 225 l/min.

Cleaning and decontamination of the equipment is important, especially in the event of exposure to toxic contaminants such as when demolishing asbestos buildings, exposure to lead or within the nuclear power and pharmaceutical industries. The electronics and fan housing are consequently extremely well encapsulated (IP67) to prevent penetration of water and particles.

Select a suitable face piece based on your protection needs. Together with a filter and one of Sundström's face pieces, the SR 700 may be used in all situations where protection against harmful particles is recommended, especially for heavy, hot or lengthy work.

Choose the SR 500 for protection against both particles and gas.

The SR 500 is a fan unit that was developed to give protection against harmful and hazardous particles, as well as against vapours and gases. It is equipped with two SR 510 P3 particle filters and a 221 pre-filter for protection against particles. In the event of exposure to gases, it contains two gas filters of type SR 518 A2, SR 515 A1B1E1 or SR 597 A1B2E2K1 and SR 510 P3. **Please note** that gas filters must always be used in combination with an SR 510 P3 particle filter.

- An easily accessible button controls the start, stop and selection of air flows (175 or 225 l/min).
- Automatic air flow control guarantees the selected air flow irrespective of the filter clogging level and battery voltage.
- Display with clear symbols for key data, e.g. selected air flow and type of alarm.
- Audible, optical and vibration alarms.
- SR 501 STD lithium-ion battery (14.8 V 2.2 Ah) with a charging time of 80% in 30 min and 100% in 1½ hours.
- SR 502 heavy duty lithium-ion battery (14.8 V 3.6 Ah) with a charging time of 80% in 45 min and 100% in 2 hours.
- An operating time of up to 13 hours depending on filter selection and battery type.

Select a suitable face piece based on your protection needs. Together with a filter and one of Sundström's face pieces, the SR 500 may be used in all situations where filter protection is recommended, especially for heavy, hot or lengthy work.

New!



Choose a suitable face piece based on your protection needs

Shield SR 540 A unique shield with excellent field of vision, classified at the highest level of protection NPF 500. The visor can be easily flipped up into a good balanced “over the head” position. Easily replaceable Polycarbonate visor or alternatively PETG. SR 540 is TH3 approved.

Accessories: **SR 545** visor set, PETG.

SR 543 Head cover for protection of head and neck.

SR 542 Peel-off set.

SR 544 Sweatband/Comfort band for protecting the top of the user’s head.

The SR 540 can also be connected to Compressed Air Attachment **SR 507**.



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 Cellulose acetate. SR 520 is TH3 approved.

Accessories: **SR 522** peel-off set.

SR 544 Towelling band for protecting the top of the user’s head.

Hood SR 530 Similar to the SR 520 but also protects the neck and shoulders. Easily adjustable neck seal, providing high protection even for bearded users. One size fits all face shapes. Visor of chemical-resistant Cellulose acetate.

SR 530 is TH3 approved.

Accessories: **SR 522** peel-off set.

SR 544 towelling band for protecting the top of the user’s head.

The hoods can also be connected to Compressed Air Attachment **SR 507**.



Hood SR 561 A lightweight hood which protects the 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.

Hood SR 562 A lightweight hood which covers the face and head. Replaceable hood of Tyvek® with an easily adjustable head harness. Easily adjustable and comfortable face seal in polyamide/lycra.

Visor of PETG. Available in one size. SR 562 is TH3 approved.

The hoods can also be connected to Compressed Air Attachment **SR 507**.





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 raise with a large field of view. The visor is easy to replace. The unit can also be connected to Compressed Air Attachment **SR 507** in situations where filter protection is not appropriate. SR 580 is TH3 approved.



The SR 584 welding cartridge is mounted on the SR 580 helmet and gives the user not only head and respiratory protection but also protects the eyes and face when welding. With the cartridge in the raised position, the helmet's large and clear visor acts as face protection for grinding work and similar jobs while preserving respiratory protection at all times. Supplied with a passive welding lens with shade number 10 and 90 x 110 mm in size. Three different automatic lenses are available. The **SR 507** Compressed Air Attachment can be connected. SR 584 is approved to EN 175, EN 166, EN 12941 TH3, EN 14594 class 3A/3B.

To be launched
in 2012



The SR 590 welding visor protects against inhalation of harmful and irritating air contaminants as well as against radiation and splashes, for instance, when arc welding, MIG, MAG, and TIG welding, and plasma cutting. With the welding lens cover raised, the visor can also be used as protection when clearing clinkers and grinding. The SR 590 is supplied with welding lens with shade number 10. Three different types of automatic welding lenses are available. Corrective lenses with magnifications from 1.0 to 2.5 dioptries may be fitted. The comfortable head position can be simply adjusted and is equipped with holders for ear defenders. The **SR 507** Compressed Air Attachment can be connected.



Hose SR 550 PU/SR 551 rubber for connection to the Sundström full face mask SR 200. This combination gives the highest level of protection attainable using filters. SR 550 + SR 200 full face mask is TM3 approved. Accessories: as for SR 200.

Hoods/visors/helmets supplied with hose for direct mounting on SR 500/SR 700.



Choosing a filter

The filters are dimensioned to cope with the high air flows provided by the fan unit



Filter	Protect against
SR 510 SR 710	SR 510 and SR 710 class P3 R, mechanical particle filter with a very high efficiency > 99,997% and an active area of 13 dm ² . 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 cannot 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 A1BE2K1 gives same protection as SR 515, but also including ammonia and certain amines.
SR 599	Combined filter SR 599 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. (Warning! Maximum usage time for protection against mercury fumes is 50 hours). Note that each gas filter must be combined with a particle filter to prolong the lifetime of the fan unit.

Always use SR 221 pre-filter which will protect the main filters from premature clogging.

Work situations

Type of work and contaminants	SR 700 with suitable head top	SR 500 with rec. filter and suitable head top
Construction work – dust from cement and insulation material	X	(X)
Agriculture – dust from hay, straw, grain and fuel chips	X	(X)
Stone and concrete industry – quartz dust	X	(X)
Foundry, oven brickwork/cleaning – quartz dust	X	(X)
Demolition of old buildings - mould, mites etc.	X	(X)
Cleanup of water damage - mould	X	(X)
Powder painting - particles	X	(X)
Asbestos	X	(X)
Asbestos + PCB decontamination	-	X
Work with chemical pesticides/ herbicides	-	X
Spray Painting	-	X
Isocyanates	-	Check national legislation

Accessories for the SR 500/SR 700



Accessories

SR 500

SR 700

The SR 505 , a practical storage bag with two compartments for safe storage of the fan unit with face piece and accessories.	X	X
The SR 503 leather belt for blowtorch cutting and other hot work.	X	X
The SR 504 rubber belt for decontamination work.	X	X
The SR 552 harness for carrying the fan on the lower back or between the shoulder blades. The back-plate can be adjusted in three positions according to the user's height.	X	X
The SR 514 splash guard protects the fan against excessive soiling, such as from spray painting.	X	X
The SR 336 steel-mesh guard is placed on the base of the pre-filter holder and protects the filter against sparks and splashes occurring in welding, blowtorch cutting and grinding.	X	X
The SR 509 pre-filter holder provides dust extraction from the pre-filter to cope with rapid clogging.	X	
Charging station SR 506 (not mounted)	X	X
Charging station SR 516 (mounted with five chargers of type 2541)	X	X
HD battery SR 502 , 14.8 V 3.6 Ah	X	



Compressed air for hood, visor and helmet

Using the **SR 507 Compressed Air Attachment**, all loosely fitting face pieces (hood/visor/helmet) can be connected to a compressed air supply.

- Supplied complete with belt and control valve
- Adjustable air flow 175-260 l/min.
- Operating pressure 5-7 bar
- Warning whistle assures constant monitoring of air flow.

Approved to EN 14594 3A/3B protection factor 200.
3A with SR 360 spiral hose.
3B with SR 358/SR 359 hose.

Helmets/visors/hoods supplied with compressed air are tested together with the SR 507 and the hoses according to the EN 14594:2005 standard, including tensile strength tests (hoses and connections) and infiltration tests for the face pieces. "A" stands for "light duty" and refers to the **SR 360** spiral hose, whereas "B" refers to the heavy duty hoses **SR 358** and **SR 359**.



Class	Max infiltration	Nominal protection factor
1A/1B	10%	10
2A/2B	2%	50
3A/3B	0,5%	200
4A/4B	0,05%	2000

SR 500 EX

Battery-powered filter fan for both gases and particles. Approved for use in explosive environments after careful and competent risk assessment. We are the only manufacturer whose entire range, including all face pieces, is EX-classified.

For more information, see www.srsafety.com



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