

Sundström Safety AB the SR 500 series

Powered Air Purifying Respiratory Protection

- High air flow rates
- Low weight
- Simple management system
- Self calibrating
- Unique alarm system
- EMC approved
- Simple filter programme
- Choose between four human interfaces



SR 500 series

The **SR 500** is a battery-powered fan unit that, together with filters and an approved human interface, is included in the Sundström fan-assisted respiratory protective device systems. The SR 500 can be used as an alternative to filter respirators in all situations for which these are recommended. This applies particularly to work that is hard, warm or of long-duration. The filtered air is supplied through a breathing hose to the human interface. The above-atmospheric 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).

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.
- Initiates an alarm by vibrating and light signals in the event of an obstruction in the air flow.
- Equipped with automatic air flow control.

Accessories - SR 500

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

Leather belt SR 503 for casting, flame cutting and other similar operations.

Rubber belt SR 504 for decontamination, casting, flame cutting and other hot working situations.

Spark Arrester SR 336 protects the filters against sparks and spatter that occurs during welding, flame cutting and grinding.

Pre filter holder for Decontamination SR 509, enables vacuum cleaning of the pre-filter when rapidly clogged.

Battery:

STD 14,8 V 2,2 Ah, Lithium-ion. Charging time
80 % - 30 min, 100 % - 1,5 h.

Heavy Duty 14,8 V 3,6 Ah Lithium-ion. Charging time
80 % - 45 min, 100 % - 2 h.

Battery charger, with three stages charging:

Boosted charging charges the battery to about 80 % of its capacity and an orange LED is alight.

Balanced charging charges the battery to 100 % of its capacity and a yellow LED is alight.

Trickle charging, fully charged battery and a green LED is alight.

The **SR 507 compressed air attachment** is designed for connection to Sundström hoods **SR 520/SR 530** and visor **SR 540**. This combination forms a breathing apparatus designed for continuous air flow, for connection to a compressed air supply. The **SR 507** is an accessory that enables a given face piece to be used as either a protective device supplied with compressed air or a fan-assisted respirator.

The compressed air attachment are especially intended for applications involving heavy and sustained work in environments in which the pollutants have poor warning properties or are particularly toxic. The SR 507 is made of materials which are not liable to give rise to friction sparking, which enables the attachment to be used in an explosive or flammable environment. The flow meter and warning whistle for temporary and continuous monitoring of the air flow rate are included. Control valve mounted on the user's belt is included.

The control valve can be used for adjusting the airflow rate to the head top, between 175 up to 260 l/min. Working pressure 5-7 bar (500-700 kPa) Working temperature: -10°C to +50°C

Compressed air attachment SR 507 in combination with hoods SR 520/SR 530 and face shield SR 540 together with spiral hose SR 360 is type approved in accordance with EN 14594:2005, class 3A.

Compressed air attachment SR 507 in combination with hoods SR 520/SR 520 and face shield SR 540 together with compressed air hose SR 358/SR 359 is type approved in accordance with EN 14594:2005, class 3A and 3B.





Shield SR 540

An unique shield with excellent field of vision, classified at the highest level of protection NPF 500. The visor 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.

Accessories: Visor set, PETG. Head cover for protection of head and neck. Peel-off set SR 542.



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.

Accessories: Peel-off set SR 522.



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.

Accessories: Peel-off set, SR 522.



The visor and the hoods are delivered with hose for direct assembly in SR 500.



Hose SR 550

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.

SR 500 Filters

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



SR 510 class P3 particle filter with very high efficiency, 99.997%, and an active area of 13 dm². The filter can be used together with an adapter for particle pollutants, or in combination with the gas filters below.

All filtering devices in Sundström's programme use the SR 510.

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.

Note that each gas filter shall be combined with a particle filter to prolong the lifetime of the fan unit.

Always use pre filter SR 221, which will protect the main filters 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.

STD Battery 2,2Ah	HD Battery 3,6Ah	Filter	Air flow rate	Expected operating life
X		P3	175 l/min	8 hours
X		P3	225 l/min	5 hours
	X	P3	175 l/min	13 hours
	X	P3	225 l/min	8 hours
X		A2P3, ABE1P3	175 l/min	6 hours
X		A2P3, ABE1P3	225 l/min	3,5 hours
	X	A2P3, ABE1P3	175 l/min	10 hours
	X	A2P3, ABE1P3	225 l/min	6 hours
X		A1B2E2K1P3	175 l/min	5 hours
X		A1B2E2K1P3	225 l/min	3 hours
	X	A1B2E2K1P3	175 l/min	8,5 hours
	X	A1B2E2K1P3	225 l/min	5 hours

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