

SR 500 POWERED AIR-PURIFYING RESPIRATOR

Features

- Lightweight, balanced and ergonomic design
- Ergonomic comfort belt
- Dual flow rates
- Easy to adjust and maintain
- Automatic setting of flow rate and flow control
- Triple warning system -audible, visual and sensory (vibration)
- Superior long lasting lithium-ion battery technology
- Simple filter/cartridge system
- Loose Fitting Headgear
 - Loose Fitting Hoods
 - Loose Fitting Face Shield
 - Loose Fitting Hard Hat
 - Loose Fitting Hard Hat with Welding Face Shield



SR 500 series

The **SR 500** system is a belt mounted Powered Air-Purifying Respirator (PAPR) with tight fitting face pieces and loose fitting head gear that protects against particulates, gases and vapors, or a combination of both. It is designed to be used in oxygen sufficient and non-immediately dangerous to life and health (IDLH) environments. The SR 500 PAPR system functions as an alternative to Air Purifying Respirators (APR) 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 tight fitting face piece and loose fitting head gear. The above-atmospheric pressure generated prevents surrounding pollutants from penetrating into the breathing zone.

Typical applications include agriculture, asbestos, mold & lead paint abatement, construction & building renovation, demolition, chemical industry, food & beverage processing, lead battery plants, medical & health care, metal work, welding shops, pharmaceutical manufacturing, power plants, pulp & paper processing, recycling plants, smelting & foundries, surface preparation, painting, coating, and more.

Customer driven product development and incorporation of the latest technologies has generated a unique design and superior features of the SR 500 PAPR series.

Features

- The fan unit is lightweight, balanced with a superior ergonomic design.
- Unique design of the belt keeps the fan unit comfortable and stable.
- High flow rates, normal operation mode 6 CFM / 175 lpm and boosted operation mode 8 CFM / 225 lpm.
- The power switch is conveniently located and easy to reach. Strategically placed to prevent accidental deactivation. Easily removable parts allow simple cleaning, maintenance and replacement.
- A fully automatic setting of flow rates without any needs for calibration, regardless of filter/cartridges or head top used. Equipped with automatic flow control securing the delivery of the pre set flow rate.
- The fan unit offers audible, visual and vibration alarm for obstruction of air flow, clogging of filters or low battery for the safety of the worker.
- The fan unit can be operated with particulate filters or with a combination of particulate filters and chemical cartridges.

Battery and charger design

- On board lithium-ion battery- designed for easy replacement.
- Charging time 80 % - 70 min, 100 % - 3 hrs.

Battery charger, 3-stage:

- Boosted charging charges the battery to about 80 % of its capacity.
- Balanced charging charges the battery to 100 % of its capacity.
- Trickle charging, fully charged battery.
- Gang chargers are available for time-efficient multiple battery charging.





Tight Fitting Face Piece SR 200

Breathing hose SR 550 in PUR (Polyurethane) or SR 551 in rubber connects the SR 500 PAPR to the SR 200 full face mask.

Provides respiratory protection with an APF of 1,000 (Assigned Protection Factor) according to OSHA 3352-02 2009.

Limited eye protection (ANSI Z87.1-2010) protection.



Loose Fitting Hood SR 530

A lightweight hood which covers the face, head, neck and shoulders. Easily adjustable headband suspension and neck seal- providing high protection including for people with beards. One size fits all face shapes and sizes. Visor of chemical-resistant CA. Delivered with a PUR (Polyurethane) breathing hose. Provides respiratory protection with an at APF of 1,000 (Assigned Protection Factor) documented in third party studies, according to OSHA 3352-02 2009.



Loose Fitting Hood SR 520

A lightweight hood which covers the face and head. Easily adjustable headband suspension. Available in two sizes S/M and M/L. Visor of chemical-resistant CA. Delivered with a PUR (Polyurethane) breathing hose.

Provides respiratory protection with an APF of 1,000 (Assigned Protection Factor) documented in third party studies, according to OSHA 3352-02 2009.



Loose Fitting Face Shield SR 540

A unique face shield with an excellent field of vision. The visor can easily be flipped up to a good balanced "over the head" position. Visor is made of scratch resistant PC that can easily be replaced. Delivered with a PUR (Polyurethane) breathing hose.

Provides respiratory protection with an APF of 25 (Assigned Protection Factor) according to OSHA 3352-02 2009. Limited eye protection (ANSI Z87.1-2010) protection.



Loose Fitting Hard Hat SR 580

Provides complete respiratory, face and head protection and can be combined with most earmuffs. The scratch resistant PC visor is easy to replace and offers a wide field of vision. The visor can be flipped up to a good balanced "over the head" position. Delivered with a PUR (Polyurethane) breathing hose.

Provides respiratory protection with an APF of 1,000 (Assigned Protection Factor) documented in third party studies, according to OSHA 3352-02 2009.

Provides limited eye protection (ANSI Z87.1-2010).

Provides limited head protection (ANSI Z89.1-2009 Type 1 Class G).



Loose Fitting Hard Hat SR 580 with Welding Face Shield SR 584

Provides complete respiratory, face and head protection and can be combined with most earmuffs. The welding face shield can be flipped up to a good balanced "over the head" position and offers not only a wide field of vision but face protection during grinding and other types of work. Delivered with a PUR (Polyurethane) breathing hose. Supplied with a passive welding lens - shade 10. Three different Auto Darkening Filters (ADF) are available.

Provides respiratory protection with an APF of 1,000 (Assigned Protection Factor) documented in third party studies, according to OSHA 3352-02 2009.

Provides limited eye protection (ANSI Z87.1-2010).

Provides limited head protection (ANSI Z89.1-2009 Type 1 Class G).



Accessories

	SR 500	SR 200	SR 520	SR 530	SR 540	SR 580	SR 580/ SR 584
SR 552, harness for carrying the fan unit on the lower back horizontally or between the shoulder blades vertically, The back-plate can easily be adjusted in three positions according to the users height	X						
SR 503, leather belt for casting, flame cutting and other similar operations.	X						
SR 503 L, extra long leather belt for casting, flame cutting and other similar operations.	X						
SR 504, rubber belt for decontamination, casting and other hot working situations	X						
SR 505, practical grip bag with two separate major compartments space for the SR fan unit, accessories and chosen face piece or head gear	X	X	X	X	X	X	X
SR 506, battery gang charger, for five chargers but delivered without chargers	X						
SR 516, battery gang charger, including five chargers	X						
SR 514, splash cover protects the fan unit from dust, particulates, splash and liquids	X						
T06-0121 Polyethylene (PE) hose cover protects the breathing hose from dust, particulates, splash and liquids		X	X	X	X	X	X
SR 550, polyurethane (PUR) breathing hose	X	X					
SR 551, rubber breathing hose	X	X					
SR 365, laminated glass visor		X					
SR 343, protective film PC visor		X					
SR 353, protective film laminated glass visor		X					
SR 340, rubber head harness		X					
SR 341, spectacle frame to support prescription lenses		X					
SR 84, Welding shield for SR 200 full face mask		X					
Protective lens for SR 84 welding shield, size 60x110 mm		X					
Welding visor shade 5, 10, 11, 12,13 for SR 84 welding shield		X					
Size 60x110 mm		X					
Auto Darkening Filters (ADF) shade 10 and 11 for SR 84 welding shield, size 60x110 mm		X					
SR 59018 welders protective hood in PROBAN		X					
SR 59021 welders protective hose cover in PROBAN		X	X	X	X	X	X
SR 522, protective film			X	X			
SR 542, protective film					X		
SR 546, face seal					X		
SR 543, head cover					X		
SR 582, protective film						X	X
R06-0805, face seal for SR 580						X	X
SR 544, neck comfort band						X	X
SR 586, protective hood against dust, particulates, splash and liquids			X	X	X	X	
R06-0813 Heat protection helmet						X	
R06-0814 Heat protection light						X	
R06-0815 Heat protection heavy						X	
T06-8011 Welding protection neck and chest						X	X
T06-8012 Face seal with welding protection for SR 584						X	X
Protective lens in PC, size 90x110 mm							X
Welding visor shade 8, 9, 10, 11, 12,13, size 90x110 mm							X
Auto Darkening Filters (ADF) shade 3/10, 3/11 and 4/9-13, size 90x110 mm							X
Inner protective lens in PC for ADF							
Correction lenses, 1.0, 1.5, 2.0 nd 2.5 dioptrres							X

SR 500 Filters/Cartridges

The filters and cartridges are designed to handle the high air-flow rates provided by the PAPR.



The **SR 510 P100 / HE** and **SR 710 HE** particulate filters are both of mechanical type and protects against all types of particles (dust, fume, fog, spray, asbestos), as well as bacteria, viruses and radioactive dust.

The filter efficiency is >99.997% meaning that the air is 33,000 times cleaner after the air has passed the filter. The active filter area is 201 square inches (1,300 cm²) which generates an extended usage time.

The SR 510 can also be used with all Sundström Air Purifying Respirators.

The **SR 532 OV/SD/CL/HC/HF** chemical cartridge protects against organic gases and vapors, e.g. solvents, with a boiling point of more than +65 °C. It protects against acidic gases and vapors, such as sulphur dioxide, chlorine, hydrogen chloride and hydrogen fluoride.

The **SR 533 CL/HC/SD/FM/AM/MA** chemical cartridge protects against acidic gases and vapors, such as chlorine, hydrogen chloride, sulfur dioxide and formaldehyde. It also protects against ammonia, methylamine and certain amines.

Note that each cartridge must be combined with a particulate filter to prolong the lifetime of the fan unit.

Operating times

The operating times may vary based on temperature, condition of filters and the condition of the battery. The table below gives the expected operating times during ideal conditions.

Battery 3,6Ah	Filter / Cartridge	Air flow rate	Expected operating time
X	SR 510 or SR 710	6 CFM / 175 lpm	13 hours
X	SR 510 or SR 710	8 CFM / 225 lpm	8 hours
X	SR 510 + SR 532	6 CFM / 175 lpm	8,5 hours
X	SR 510 + SR 532	8 CFM / 225 lpm	5 hours
X	SR 510 + SR 533	6 CFM / 175 lpm	8,5 hours
X	SR 510 + SR 533	8 CFM / 225 lpm	5 hours