

# SR 500

Powered air-assisted respiratory device

**ATEX**  
et  
**NON ATEX**

**Ergonomics –  
autonomy  
battery**

**5-year warranty\***



\* 5-year warranty subject to an annual inspection carried out by Gazdetect.

## Technical specifications

Airflow rate:

SR 500 standard: 175 – 240 L/min

SR 500 EX (ATEX): 175 / 225 L/min

Battery and runtime:

SR 500 standard: Li-Ion 14.4 V – 2.25 Ah

SR 500 EX (ATEX): Li-Ion 18 V – 3.0 Ah

Operating time SR 500 EX with P3 filter:

12 h at 175 L/min / 7 h at 225 L/min

Maximum runtime: up to 12 hours (SR 500 EX)

Weight with battery and P3 filter (ATEX): ≈ 1,780 g

Weight SR 500 non-ATEX: 1,650 g

Operating temperature:

SR 500 standard: -10 to +55 °C, < 90% RH

SR 500 EX (ATEX): -10 to +40 °C, < 90% RH

Storage temperature: -20 to +40 °C, < 90% RH

Alarms and safety:

SR 500 EX (ATEX): audible and visual alarm if airflow is obstructed or insufficient (≤ 175 L/min)

SR 500: audible, visual, and vibration alarm if airflow is obstructed or insufficient

Origin: Manufactured in Sweden

Approvals / Standards:

SR 500 standard: EN 12941:1998 + A2:2008, EN 12942:1998 + A2:2008

Directive 1 Standard: (EU) 2016/425 PPE

SR 500 EX (ATEX): EN 12941:1998 + A2:2008, EN 12942:1998 + A2:2008, EN 60079-0:2018, EN 60079-11:2012, IEC 60079-11:2011, IEC 60079-0:2017

ATEX Directive 1: PPE Regulation (EU) 2016/425

ATEX Directive 2: ATEX 2014/34/EU

Colours:

SR 500 standard: black/blue

SR 500 EX: black/orange

## Product description

### ► A versatile respiratory protection solution

The **SR 500** and **SR 500 EX** are battery-powered powered air-purifying respirators designed to provide reliable protection in demanding industrial environments. Integrated into the Sundström respiratory protection systems, they offer a high-performance alternative to half masks and full face masks, particularly recommended for prolonged work, operations in hot environments, and challenging working conditions.

The **SR 500 EX** version is specifically certified for use in explosive atmospheres (ATEX), enabling safe operation in hazardous areas. The **SR 500** standard version is intended for industrial environments where there is no explosion risk.

### ► Versatility and extended compatibility

Both models operate with two particle filters or combined filters. The filtered air is delivered to the facepiece through a dedicated breathing hose. Thanks to the positive pressure generated, surrounding contaminants cannot enter the mask, ensuring continuous respiratory protection.

They are compatible with a wide range of headtops: hoods, face shields, welding shields, half masks, and full face masks, ensuring optimal adaptation to the specific needs of each application.

### ► Runtime and ease of use

Equipped with a lithium-ion battery, the **SR 500** and **SR 500 EX** offer two options: a standard battery (STD) or a high-performance battery (HD).

**Charging time:**

approx. 2 hours (STD)

approx. 3 hours (HD)

**ATEX charging time:**

2 hours for 80% charge

4 hours for a full charge

Start-up, shutdown, and operating mode selection are controlled via a single button. Automatic airflow regulation compensates for pressure and temperature variations to ensure optimal breathing comfort throughout use.

### ► Reliability and robustness

The blowers feature **IP67-rated** electronic encapsulation according to IEC / EN 60529, ensuring excellent resistance to dust and moisture.

The **SR 500 EX**, thanks to its explosion-proof design, provides additional safety for environments subject to ATEX requirements, while the **SR 500** standard perfectly meets the needs of conventional industrial applications.

## ► Facepieces



Product reference : H06-0312  
 Product reference : H06-0212

**SR 520 Hood S/M and M/L:** Continuous airflow hood covering the entire head and face, providing protection against particles and airborne contaminants. Compatible with a powered air purifier or compressed air system, it is suitable for prolonged tasks and work in hot environments.

- Approvals: EN 14594:2005, EN 12941:1998 + A2:2008 (when combined with SR 500 / SR 500 EX / SR 700)
- Hood material: PVC, Polyester, CA – Colour: Blue – Shelf life: 5 years
- Operating temperature: -10 to +55 °C, < 90% RH – Storage: -20 to +40 °C, < 90% RH
- Assigned protection factor: 100 (3A, 3B), 40 (TH3) – Nominal protection factor: 200 (3A, 3B), 500 (TH3)
- Directive 1: (EU) 2016/425 PPE - Directive 2: ATEX 2014/34/EU

Reusable

ATEX/NON ATEX



Product reference : H06-0412

**SR 530 Hood:** Comfortable continuous airflow hood designed to prevent the ingress of particles and airborne contaminants. Suitable for prolonged use with powered air-purifying respirators or compressed air systems.

- Approvals: EN 12941:1998 + A2:2008, EN 14594:2005 (when combined with SR 500 / SR 500 EX / SR 700)
- Hood material: PVC, Polyester, CA – Colour: Blue
- Shelf life: 5 years
- Operating temperature: -10 to +55 °C, < 90% RH – Storage: -20 to +40 °C, < 90% RH
- Assigned protection factor: 100 (3A, 3B), 40 (TH3) – Nominal protection factor: 200 (3A, 3B), 500 (TH3)
- Directive 1: (EU) 2016/425 PPE - Directive 2: ATEX 2014/34/EU

Reusable

ATEX/NON ATEX



Product reference : H06-5412

**SR 601 Hood :** Head-top system based on a multi-adjustable head harness, providing excellent protection against chemicals and safeguarding the respiratory system, head, and shoulders.

- Approvals: EN 12941:1998 + A2:2008 (when combined with SR 500 / SR 500 EX / SR 700)
- Hood material: PUR, PC/ABS, PA, PETG, PP – Colour: White – Shelf life: 5 years
- Operating temperature: -10 to +55 °C, < 90% RH – Storage: -20 to +40 °C, < 90% RH
- Assigned protection factor: 40 (TH3) – Nominal protection factor: 500 (TH3)
- Directive 1: (EU) 2016/425 PPE - Directive 2: ATEX 2014/34/EU

Reusable

ATEX/NON ATEX



Product reference: H06-5812

**SR 603 Hood :** Lightweight, soft material hood with welded seams, providing effective protection for the respiratory system and head. Compatible with SR 500 / SR 700 systems and designed to fit the SR 600 multi-adjustable head harness for optimal fit and comfort.

- Approvals: EN 12941:1998 + A2:2008
- Hood material: PC/ABS, PA, PETG, PP, PU – Colour: White
- Assigned protection factor: 40 (TH3) – Nominal protection factor: 500 (TH3)
- Operating temperature: -10 to +55 °C, < 90% RH – Storage: -20 to +40 °C, < 90% RH
- Directive 1: (EU) 2016/425 PPE - Directive 2: ATEX 2014/34/EU

Reusable

ATEX/NON ATEX



Product reference: H06-5512

**SR 602 Hood :** Durable laminated fabric hood providing an excellent barrier against chemicals and protecting the respiratory system, head, and shoulders. Compatible with SR 500 / SR 500 EX / SR 700 systems.

- Approvals: EN 12941:1998 + A2:2008
- Hood material: PUR, PC/ABS, PA, PETG, PP – Colour: Orange – Shelf life: 5 years
- Assigned protection factor: 40 (TH3) – Nominal protection factor: 500 (TH3)
- Directive 1: (EU) 2016/425 PPE - Directive 2: ATEX 2014/34/EU

Reusable

ATEX/NON ATEX



Product reference: H06-5912

**SR 604 Headtop :** Lightweight, soft material headtop with welded seams, providing effective protection for the respiratory system, head, and shoulders. Compatible with SR 500 / SR 700 systems and designed to fit the SR 600 multi-adjustable head harness for optimal fit and comfort.

- Approvals: EN 12941:1998 + A2:2008
- Headtop material: PC/ABS, PA, PETG, PP, PU – Colour: Blue
- Assigned protection factor: 40 (TH3) – Nominal protection factor: 500 (TH3)
- Operating temperature: -10 to +55 °C, < 90% RH – Storage: -20 to +40 °C, < 90% RH
- Directive 1: (EU) 2016/425 PPE

Reusable

NON ATEX



Product reference : H06-8012

**SR 575 Ventilated Safety Helmet** : Lightweight, ergonomic powered air respirator helmet with visor. The SR 575 provides effective protection against particles and airborne contaminants. Ideal for demanding or prolonged work, it is compatible with SR 500, SR 500 EX, or SR 700 fans and approved filters.

- Approvals: EN 12941:1998 + A2:2008, EN 166 (B, 120 m/s), EN 397
- Classification 1: II G Ex ib IIA T3 Gb, II 2 D Ex ib IIIC T195° Db - Colour: Blue – Material: PA, PP, PC
- Assigned protection factor: 40 (TH3) – Nominal protection factor: 500 (TH3)
- Operating temperature: -10 to +55 °C, < 90% RH – Storage: -20 to +40 °C, < 90% RH
- Directive 1: (EU) 2016/425 PPE - Directive 2: ATEX 2014/34/EU

**ATEX/NON ATEX**



Product reference : H06-6512

**SR 570 Face Shield** : Lightweight, ergonomic face shield with a flip-up visor, providing comfortable and secure respiratory and eye protection. Equipped with an adjustable head harness for optimal fit and compatible with a wide range of accessories, it is suitable for various professional applications and work situations.

- Approvals: EN 12941:1998 + A2:2008, EN 14594:2005, EN 166 (B, 120 m/s)
- Colour: Blue - Shelf life: 5 years
- Operating temperature: -10 to +55 °C, < 90% RH – Storage: -20 to +40 °C, < 90% RH
- Assigned protection factor: 100 (3A, 3B), 40 (TH3) – Nominal protection factor: 200 (3A, 3B), 500 (TH3)
- Directive 1: (EU) 2016/425 PPE - Directive 2: ATEX 2014/34/EU

**ATEX/NON ATEX**



Product reference : H06-6712

**SR 570 Ventilated Hard Hat** : Lightweight, ergonomic respiratory protection helmet with flip-up visor, providing respiratory, eye, and impact protection. Adjustable and compatible with a wide range of accessories, it is suitable for demanding environments, including protection against molten metal splashes.

- Approvals: EN 14594:2005, EN 12941:1998 + A2:2008 (when combined with SR 500 / SR 500 EX / SR 700)
- Headtop material: PVC, Polyester, CA – Colour: Blue - Shelf life: 5 years
- Operating temperature: -10 to +55 °C, < 90% RH – Storage: -20 to +40 °C, < 90% RH
- Assigned protection factor: 100 (3A, 3B), 40 (TH3) – Nominal protection factor: 200 (3A, 3B), 500 (TH3)
- Directive 1: (EU) 2016/425 PPE - Directive 2: ATEX 2014/34/EU

**ATEX/NON ATEX**



Product reference : H01-1212

**SR 200 PC Full Face Mask** : Premium full face mask providing a secure fit, optimal respiratory and eye protection, and high comfort. Ideal for the most demanding environments, it combines light weight and ergonomic design for prolonged use. The full face mask can be used in free filtration, powered air, or supplied air modes. It is available with a glass visor and a rubber head harness. An optical insert can also be fitted internally.

- Approvals: EN 136:1998, EN 166 (B, 120 m/s), EN 148-1, EN 12942:1998
- Classification 2: II G Ex ib IIA T3 Gb, II 2 D Ex ib IIIC T195° Db
- Colour: Blue – Material: Silicone, PC, EPDM
- Assigned protection factor: 250 (4A, 4B), 100 (TH3) – Nominal protection factor: 2000 (4A, 4B), 2000 (TH3)
- Operating temperature: -10 to +55 °C, < 90% RH – Storage: -20 to +40 °C, < 90% RH
- Directive 1: (EU) 2016/425 PPE - Directive 2: ATEX 2014/34/EU

**ATEX/NON ATEX**



Product reference: H01-3012  
 Product reference: H01-3112  
 Product reference: H01-3212

**SR 900 Half Mask (S/M/L)** : Designed for a secure fit and optimal respiratory comfort, the SR 900 provides high protection in most work environments. Lightweight and made from soft, non-allergenic material, it features a wide chin cup, large head harness, and dual exhalation valves to reduce fatigue while ensuring safety and comfort. Available in three optimized sizes.

- Approvals: EN 140:1998, EN 12942:1998 (when combined with SR 500 / SR 700)
- Mask material: EPDM – Colour: Grey
- Operating temperature: -10 to +55 °C, < 90% RH – Storage: -20 to +40 °C, < 90% RH
- Assigned protection factor: 100 (3A, 3B), 40 (TH3) – Nominal protection factor: 200 (3A, 3B), 500 (TH3)
- Directive 1: (EU) 2016/425 PPE

**NON ATEX**

### ► SR 552 and SR 552 EX Harnesses for SR 500 EX



Product reference : T06-0116  
 Product reference ATEX :  
 T06-2002

HLightweight and durable harness, adjustable for optimal comfort and freedom of movement. The rear plate with three size settings adapts to different worker and blower positions.

- Materials: Cotton, TPE (Thermoplastic Elastomer)
- Colours: Black and Orange
- Operating temperature: -10 °C to +40 °C (< 90% RH)
- Storage temperature: -20 °C to +40 °C (< 90% RH)
- Shelf life: 5 years

