

# Product leaflet

Product	Model designation	Ordering No.
Powered air purifying respirator	SR 500 EX	H06-2012

## Product description

The SR 500 EX fan is explosion-proof and specially adapted for use in an explosive atmosphere. The SR 500 EX is included together with filters and head-tops in Sundström fan-assisted respiratory protective devices. The SR 500 EX can be used as an alternative to filter protections in all situations in which the latter are recommended. This applies particularly to situations in which the work is intensive, hot or of long-duration. The fan is equipped with filters and the filtered air is supplied through a breathing hose to the head-top. The latter is then pressurized, which prevents the surrounding pollutants from being admitted.

### The SR 500 EX has the following characteristics:

- Explosion proof
- Automatic control of the air flow
- Same control button is used for starting, stopping and selection of operating conditions
- Display with symbols for different operating conditions
- Alarm with audible/visual signals if the air flow is obstructed
- NiMh battery
- Operating time of up to six hours
- Charging time about 2 hours
- Equipped with two filters/filter combinations
- Can be used together with hoods SR 520, SR 530, SR 561, SR 562, SR 601, SR 602 face shield SR 540 EX, SR 570, helmet with visor SR 580 or full face mask SR 200.

## Technical specification

	SR 500 EX	EN 12941:1998	EN 12942:1998
Air flow rate	175/225 l/min	≥ 120 l/min	
NiMh battery	13.5 V, 2.1 Ah	-	-
Operating times at 175/225 l/min:			
With particle filter P3	6.5 h/4 h	≥ 4 h	≥ 4 h
Weight with battery and P3 filter	≈ 1840 g	≤ 3500 g	≤ 3500 g
Service temperature	-10 to +40 °C, < 90 % RH	-	-
Storage temperature	-20 to +40 °C, < 90 % RH	-	-
Low flow warning level	< 175 l/min	≤ 175 l/min	≤ 175 l/min
Assigned Protection Factor <sup>1</sup> w hoods, SR 540 EX, SR 570, SR 580	40 (TH3)	-	-
Assigned Protection Factor <sup>1</sup> w SR 200	40 (TM3)	-	-
Nominal Protection Factor <sup>2</sup> w hoods, SR 540 EX, SR 570, SR 580	500 (TH3)	-	-
Nominal Protection Factor <sup>2</sup> w SR 200	2000 (TM3)	-	-
Approvals	Directive	Standards	Classification/marking
	PPE Regulation (EU) 2016/425 ATEX 2014/34/EU	EN 12941:1998, EN 12942:1998 EN IEC 60079-0:2018, EN 60079-11:2012	TH3/TM3 II 2 G Ex ib IIA T3 Gb <sup>3</sup> II 2 G Ex ib IIB T3 Gb <sup>4</sup> II 2 D Ex ib IIIC T195°C Db <sup>5</sup> Ex ib IIA T3 Gb <sup>3</sup> , Ex ib IIB T3 Gb <sup>4</sup> Ex ib IIIC T195°C Db <sup>5</sup>
	IECEx Scheme	IEC 60079-0:2017, IEC 60079-11:2011	

1) Specified in BS 4275 and applies generally to all approved fan-assisted respiratory protective devices, regardless of the test results.

2) According to EN 529:2005.

3) SR 500 EX together with shield SR 540 EX, helmet with visor SR 580 or full face mask SR 200 with PC visor.

4) SR 500 EX together with hoods SR 520, SR 530, SR 561, SR 562, SR 601, SR 602, shield SR 570 or full face mask SR 200 with glass visor.

5) SR 500 EX together with all Sundström head tops.

### Key to ATEX marking

	Explosion protection mark.
II	Equipment group (explosive atmospheres other than mines with fire damp).
2 G	Equipment category (2 = High level of protection for Zone 1, G = Gas).
2 D	Equipment category (2 = High level of protection for Zone 21, D = Dust).
Ex	Explosion protected.
ib	Type of protection (Intrinsic safety).
IIA	Gas group (Propane).
IIB	Gas group (Ethylene).
IIIC	Dust material group (zone with conductive dust).
T3	Temperature class, gas (maximum surface temperature +200°C).
T195°C	Temperature class, dust (maximum surface temperature +195°C).
Gb	Equipment Protection Level, gas (high protection).
Db	Equipment Protection Level, dust (high protection).

### Key to IECEx marking

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ib	Type of protection (Intrinsic safety).
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Gb	Equipment Protection Level, gas (high protection).
Db	Equipment Protection Level, dust (high protection).



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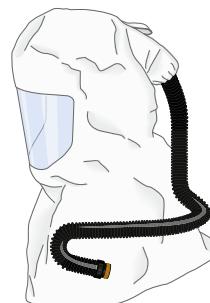
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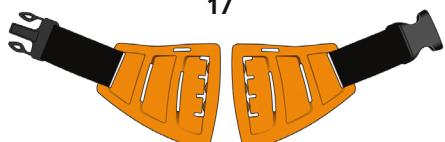
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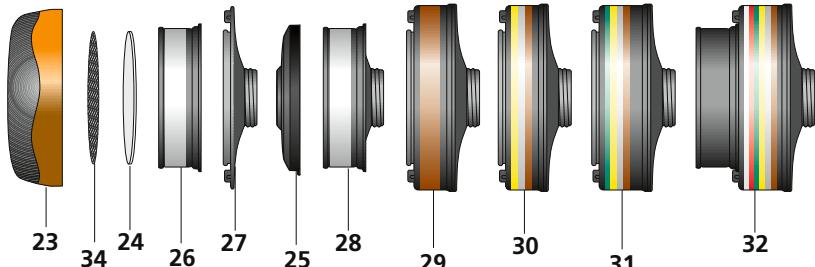
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#### Head-tops, spare parts and accessories

##### Item No.

##### Part

1. Hood SR 561
2. Hood SR 562
3. Hood SR 520 M/L
3. Hood SR 520 S/M
4. Hood SR 530
5. Hood SR 601
6. Hood SR 602
7. Face shield SR 540 EX
8. Face shield SR 570
9. Full face mask SR 200, PC visor
9. Full face mask SR 200, glass visor
10. PU hose SR 550 for SR 200
10. Rubber hose SR 551 for SR 200
11. Helmet with visor SR 580
12. Hose SR 541 for SR 540
13. O-ring for breathing hose
14. Flat gasket for hose SR 541
15. Flow meter SR 356
16. Belt SR 508 EX
16. Belt PVC EX
16. Rubber belt SR 504 EX
17. Leather belt SR 503 EX
18. Harness SR 552 EX
19. Battery SR 501 EX, 2,1 Ah
20. Battery charger SR 513 EX
21. Fan SR 500 EX, bare
22. Gasket for fan
23. Pre-filter holder SR 512 EX
24. Pre-filter SR 221
25. Pre-filter holder
26. Particle filter P3 R, SR 510
27. Filter adapter SR 511
28. Particle filter P3 R, SR 710
29. Gas filter A2, SR 518
30. Gas filter ABE1, SR 515
31. Gas filter A1BE2K1, SR 597
32. Combined filter A1BE2K1-Hg-P3 R, SR 599
33. Storage bag SR 505
34. Steel net disc SR 336
35. Vaseline tube
36. Plug kit

##### Ordering No.

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| H06-5012 | H06-5112 | H06-0212 | H06-0312 | H06-0412 | H06-5412 | H06-5512 | H06-6012 | H06-6512 | H01-1212 | H01-1312 | T01-1216 | T01-1218 | H06-8012 | R06-0501 | R06-0202 | R06-0506 | R03-0346 | R06-2148 | T06-2151 | T06-2150 | T06-2149 | T06-2002 | R06-2002 | R06-2003 | R06-2001 | R06-0107 | R06-2023 | H02-0312 | R01-0605 | H02-1312 | R06-0105 | H02-1512 | H02-7012 | H02-7112 | H02-7212 | H02-7312 | T06-0102 | T01-2001 | R06-2016 | R06-0703 |
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