

# Product leaflet

<b>Product</b>	<b>Model designation</b>	<b>Ordering No.</b>
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
<b>Air flow rate</b>	175/225 l/min	≥ 120 l/min	
<b>NiMh battery</b>	13.5 V, 2.1 Ah	-	-
<b>Operating times at 175/225 l/min:</b>			
<b>With particle filter P3</b>	6.5 h/4 h	≥ 4 h	≥ 4 h
<b>Weight with battery and P3 filter</b>	≈ 1840 g	≤ 3500 g	≤ 3500 g
<b>Service temperature</b>	-10 to +40 °C, < 90 % RH	-	-
<b>Storage temperature</b>	-20 to +40 °C, < 90 % RH	-	-
<b>Low flow warning level</b>	< 175 l/min	≤ 175 l/min	≤ 175 l/min
<b>Assigned Protection Factor<sup>1</sup> w hoods, SR 540 EX, SR 570, SR 580</b>	40 (TH3)	-	-
<b>Assigned Protection Factor<sup>1</sup> w SR 200</b>	40 (TM3)	-	-
<b>Nominal Protection Factor<sup>2</sup> w hoods, SR 540 EX, SR 570, SR 580</b>	500 (TH3)	-	-
<b>Nominal Protection Factor<sup>2</sup> w SR 200</b>	2000 (TM3)	-	-
<b>Approvals</b>	<b>Directive</b>	<b>Standards</b>	<b>Classification/markings</b>
	PPE Regulation (EU) 2016/425 ATEX 2014/34/EU	EN 12941:1998 + A2:2008, EN 12942:1998 EN IEC 60079-0:2018, EN 60079-11:2012	TH3/TM3 Ex II 2 G Ex ib IIA T3 Gb <sup>3)</sup> Ex II 2 G Ex ib IIB T3 Gb <sup>4)</sup> Ex 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 EN 529 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 EX marking

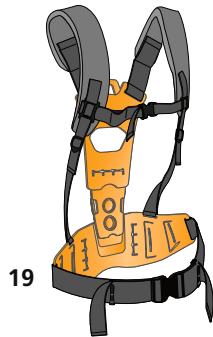
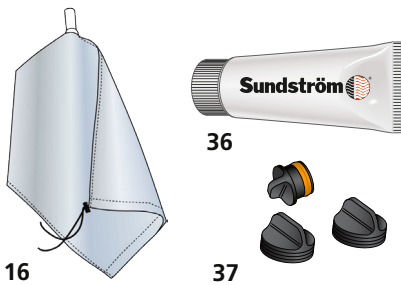
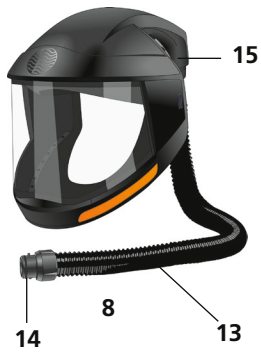
<b>Ex</b>	ATEX Explosion protection mark.
<b>II</b>	ATEX Equipment group (explosive atmospheres other than mines with fire damp).
<b>2 G</b>	ATEX Equipment category (2 = High level of protection for Zone 1, G = Gas).
<b>2 D</b>	ATEX Equipment category (2 = High level of protection for Zone 21, D = Dust).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



Available from



**Sundström**



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

**Ordering No.**

- 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

