

# 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 • Li-Ion battery • Operating time of up to 12 hours • Charging time about 4 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>Li-Ion battery</b>	18 V, 3.0 Ah	-	-
<b>Operating times at 175/225 l/min:</b>			
<b>With particle filter P3</b>	12 h/7 h	≥ 4 h	≥ 4 h
<b>Weight with battery and P3 filter</b>	≈ 1 780 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

- Ex** ATEX Explosion protection mark.
- II** ATEX Equipment group (explosive atmospheres other than mines with fire damp).
- 2 G** ATEX Equipment category (2 = High level of protection for Zone 1, G = Gas).
- 2 D** ATEX 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).



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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
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 502 EX, 3,0 Ah
21.	Battery charger
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
R06-2070
R06-2081
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

