

Technical data (blower US)

Part No	581200	
Type	Powered Air Purifying Respirator (PAPR), battery powered Protection level: NIOSH	
Blower unit	Flow rate:	min. 170 l/min controlled
	Material:	polyamid (PA-GF)
	Fan:	high quality ball beared fan motor
	Fuse:	electronic fuse
	Noise:	max. 70dB
	Alarm:	optical and audible alarm for low power and low air flow
	Dimensions (L x W x H):	249 x 213 x 87 mm
	Weight:	1205g / 42.505 oz (incl. filter & fabric-belt)
	Colour:	blue / orange
Filter (Part No: P169220)	Quantity:	1
	Type	HE-filter
Hose (Part No: P582001)	Length:	1160 mm
	Diameter:	31 mm (inside)
	Weight:	185g / 6.526 oz (without protective sleeve)
	Colour:	black
Battery (Part No: P583000)	Type:	Li-Ion rechargeable
	Voltage / capacity:	11.1 V / 7.2 Ah
	Charging cycles:	> 1000
	Operating time:	typ. 8 hours
	Charging time:	approx. 5 hours
	Weight:	565g / 19.929 oz
	Colour:	orange
Charger (Part No: P584003)	Type:	Microprocessor controlled, fully automatic
	Plug:	Euro-plug and UK-plug
	Primary voltage:	100 - 240 Volt @ 50 Hz/60Hz
Operating temperature	-5°C/23°F to +55°C/131°F (without condensation)	
Battery charging temp.	+5°C/41°F to +25°C/77°F (without condensation)	
Standards	NIOSH 42CFR Part 84	
Scope of delivery	Blower unit with hose, protective sleeve, HE filter, battery, fabric belt, leather back support, charger, flow meter, user instructions.	
Warranty (blower)	1 year from date of sales for manufacturing and material defects, no warranty for battery	
Note!	The OS100 respiratory system must NOT be used in environments where there is an immediate danger to health or life (IDLH), or in atmospheres containing less than 19.5% oxygen. It is NOT evaluated as an ignition source in flammable or explosive atmospheres. The OS 100 must NOT be worn as protection against gases or vapours.	



Technical data (helmet)

Part No	P581000			
Type description	Welding helmet with automatic shade cartridge with shade selection from DIN5 – 9 / DIN9 – 13 infinite adjustable by an adjustment knob; adjustable to sensitivity; grinding mode; off-delay switch: dark to light "fast" or "slow"			
Cartridge dimensions	90 x 110 x 7 mm / 3,54 x 4,33 x 0,28" 98 x 38 mm / 3,86 x 1,50" (Viewing area)			
Power supply	solar cells, no battery changes			
Sensors	two above the eyes variable detection angle with movable sensor slide			
Light transmittance	ultraviolet/infrared protection (maximum at any shade setting) visible range activated shade level DIN5 – 9 / DIN9 - 13 visible range not activated shade level 4			
Switching time	light to dark	0,0002 s (0,2 ms) 0,0001 s (0,1 ms)		at room temperature at 55°C / 131°F
	dark to light	position "fast" position "slow"		0,1 - 0,35 s 0,35 – 0,6 s
Classification	Optical class = 1 Scattered light = 1 Homogeneity = 1			
Shape stability	welding mask up to 220°C / 428°F front cover lens up to 137°C / 279°F			
Protection for ADF	reflection free front cover lens and inside cover lens			
Mask material	PA66			
Mask colour	blue			
Air duct material	PA66			
Air duct colour	black			
Operating temperature	-10°C to + 70°C / 14°F to 158°F			
Storage temperature	-20°C to + 80°C / -4°F to 176°F			
Weight	835g / 29.454 oz			
Application ranges	all electric arc welding processes Electrode Welding (Stick Welding, SMAW) / MIG / MAG (GMAW) / GMAW High melting rate process / Flux Cored Wire Welding / TIG welding (GTAW) / Plasma Arc Welding / Micro Plasma Arc Welding / Plasmacutting & Oxy-gas Welding / Grinding prohibited for laser welding!			
Scope of delivery	Welding helmet, instruction manual and two front cover lenses			
Standards	NIOSH			
Warranty (helmet)	2 years from date of sales for manufacturing and material defects			

Subject to change without prior notice
 Status 2008-07-09
 SPERIAN Welding Protection AG, Switzerland



Technical data (blower US)

Part No 581200

Type **Powered Air Purifying Respirator**
(PAPR), battery powered
Protection level: NIOSH



Blower unit

Flow rate: min. 170 l/min controlled

Material: polyamid (PA-GF)

Fan: high quality ball beared fan motor

Fuse: electronic fuse

Noise: max. 70dB

Alarm: optical and audible alarm for low power and low air flow

Dimensions (L x W x H): 249 x 213 x 87 mm

Weight: 1205g / 42.505 oz (incl. filter & fabric-belt)

Colour: blue / orange

Filter
(Part No: P169220)

Quantity: 1

Type: HE-filter

Hose
(Part No: P582001)

Length: 1160 mm

Diameter: 31 mm (inside)

Weight: 185g / 6.526 oz (without protective sleeve)

Colour: black

Battery
(Part No: P583000)

Type:	Li-Ion rechargeable
Voltage / capacity:	11.1 V / 7.2 Ah
Charging cycles:	> 1000
Operating time:	typ. 8 hours
Charging time:	approx. 5 hours
Weight:	565g / 19.929 oz
Colour:	orange

Charger
(Part No: P584003)

Type: Microprocessor controlled, fully automatic

Plug: Euro-plug and UK-plug

Primary voltage: 100 - 240 Volt @ 50 Hz/60Hz

Operating temperature -5°C/23°F to +55°C/131°F (without condensation)

Battery charging temp. +5°C/41°F to +25°C/77°F (without condensation)

Standards NIOSH 42CFR Part 84


Scope of delivery Blower unit with hose, protective sleeve, HE filter, battery, fabric belt, leather back support, charger, flow meter, user instructions.

Warranty (blower) 1 year from date of sales for manufacturing and material defects, no warranty for battery

Note! The OS100 respiratory system must NOT be used in environments where there is an immediate danger to health or life (IDLH), or in atmospheres containing less than 19.5% oxygen. It is NOT evaluated as an ignition source in flammable or explosive atmospheres. The OS 100 must NOT be worn as protection against gases or vapours.



Technical data (helmet)

Part No	P571000			
Type description	Welding helmet with automatic darkening shade cartridge DIN 9-13 with 2 different modes, adjustable with a sliding switch: 1.: Automatic mode with manual finetuning ± 1 shade level. 2.: Manual selection of shade level 9-13 with potentiometer knob; sensitivity control knob; off-delay switch: dark to lighth "fast" or "slow"			
Cartridge dimensions	90 x 110 x 7 mm / 3,54 x 4,33 x 0,28" 98 x 38 mm / 3,86 x 1,50" (Viewing area)			
Power supply	solar cells, no battery changes			
Sensors	two above the eyes			
Light transmittance	ultraviolet/infrared protection	maximum at any shade setting		
	visible range activated	shade level DIN9 - 13		
	visible range not activated	shade level 4		
Switching time	light to dark	0,0002 s (0,2 ms) 0,0001 s (0,1 ms)		at room temperature at 55°C / 131°F 0,1 - 0,35 s 0,35 - 0,6 s
	dark to light	position "fast" position "slow"		
Classification	Optical class = 1 Scattered light = 2 Homogeneity = 1			
Shape stability	welding mask up to 220°C / 428°F front cover lens up to 137°C / 279°F			
Protection for ADF	reflection free front cover lens and inside cover lens			
Mask material	PA66			
Mask colour	uncoated (black)			
Air duct material	PA66			
Air duct colour	black			
Operating temperature	-10°C to + 70°C / 14°F to 158°F			
Storage temperature	-20°C to + 80°C / -4°F to 176°F			
Weight	835g / 29.454 oz			
Application ranges	all electric arc welding processes Electrode Welding (Stick Welding, SMAW) / MIG / MAG (GMAW) / GMAW High melting rate process / Flux Cored Wire Welding / TIG welding (GTAW) / Plasma Arc Welding / Micro Plasma Arc Welding / Plasmacutting prohibited for laser welding!			
Scope of delivery	Welding helmet, instruction manual and two front cover lenses			
Standards	NIOSH			
Warranty (helmet)	2 years from date of sales for manufacturing and material defects			


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Technical data (blower US)

Part No	581200	
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Blower unit	Flow rate:	min. 170 l/min controlled
	Material:	polyamid (PA-GF)
	Fan:	high quality ball beared fan motor
	Fuse:	electronic fuse
	Noise:	max. 70dB
	Alarm:	optical and audible alarm for low power and low air flow
	Dimensions (L x W x H):	249 x 213 x 87 mm
	Weight:	1205g / 42.505 oz (incl. filter & fabric-belt)
	Colour:	blue / orange
Filter (Part No: P169220)	Quantity:	1
	Type	HE-filter
Hose (Part No: P582001)	Length:	1160 mm
	Diameter:	31 mm (inside)
	Weight:	185g / 6.526 oz (without protective sleeve)
	Colour:	black
Battery (Part No: P583000)	Type:	Li-Ion rechargeable
	Voltage / capacity:	11.1 V / 7.2 Ah
	Charging cycles:	> 1000
	Operating time:	typ. 8 hours
	Charging time:	approx. 5 hours
	Weight:	565g / 19.929 oz
	Colour:	orange
Charger (Part No: P584003)	Type:	Microprocessor controlled, fully automatic
	Plug:	Euro-plug and UK-plug
	Primary voltage:	100 - 240 Volt @ 50 Hz/60Hz
Operating temperature	-5°C/23°F to +55°C/131°F (without condensation)	
Battery charging temp.	+5°C/41°F to +25°C/77°F (without condensation)	
Standards	NIOSH 42CFR Part 84	
Scope of delivery	Blower unit with hose, protective sleeve, HE filter, battery, fabric belt, leather back support, charger, flow meter, user instructions.	
Warranty (blower)	1 year from date of sales for manufacturing and material defects, no warranty for battery	
Note!	The OS100 respiratory system must NOT be used in environments where there is an immediate danger to health or life (IDLH), or in atmospheres containing less than 19.5% oxygen. It is NOT evaluated as an ignition source in flammable or explosive atmospheres. The OS 100 must NOT be worn as protection against gases or vapours.	



Technical data (helmet)

Part No	P561000			
Type description	Welding helmet with automatic shade cartridge; manually adjustable 4/10 or 4/11 by a switch			
Cartridge dimensions	90 x 110 x 7 mm / 3,54 x 4,33 x 0,28" 98 x 38 mm / 3,86 x 1,50" (Viewing area)			
Power supply	solar cells, no battery changes			
Sensors	two above the eyes variable detection angle with movable sensor bar			
Light transmittance	ultraviolet/infrared	protection maximum at any shade setting		
	visible range activated	shade level DIN10 and DIN11		
	visible range not activated	shade level 4		
Switching time	light to dark	0,0004 s (0,4 ms)		at room temperature at 55°C / 131°F
	dark to light	0,0001 s (0,1 ms) 0,2 - 0,3 s		
Classification	Optical class = 1			
	Scattered light = 1			
	Homogeneity = 1			
Water-resistant	waterproof according to IP 67 (testing time 30 minutes, test depth 1 m / 3,28')			
Shape stability	welding mask up to 220°C / 428°F front cover lens up to 137°C / 279°F			
Protection for ADF	reflection free front cover lens and inside cover lens			
Mask material	PA66			
Mask colour	uncoatet (black)			
Air duct material	PA66			
Air duct colour	black			
Operating temperature	-10°C to + 70°C / 14°F to 158°F			
Storage temperature	-20°C to + 80°C / -4°F to 176°F			
Weight	805 g / 38.396 oz			
Application ranges	all electric arc welding processes Electrode Welding (Stick Welding, SMAW) / MIG / MAG (GMAW) / GMAW High melting rate process / Flux Cored Wire Welding / TIG welding (GTAW) / Plasma Arc Welding / Micro Plasma Arc Welding / Plasmacutting prohibited for laser welding!			
Scope of delivery	Welding helmet, instruction manual and two front cover lenses			
Standards	NIOSH			
Warranty (helmet)	2 years from date of sales for manufacturing and material defects			

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