



ARCO ONE

2019

SR PAPR Series

AirPlus® PAPR Series

RESPIRATORY CATALOG

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REV. 1 2019

AirPlus® Powered Air System

Welding creates fumes. Depending on the ventilation in the work setting, a powered air system is the prudent approach to worker safety. The AirPlus® Powered Air System is the third generation development from the ArcOne® 20-year PAPR program.

ArcOne's AirPlus® Powered Air-Purifying Respirator (PAPR) System is a motorized, battery operated system that blows a constant supply of fresh, filtered air over the face. It creates a positive pressure inside the respirator head top, keeping out harmful welding fumes and particulates.



Features

- 8-Setting airflow control, minimum flow at 170 LPM
- Constant airflow correction technology
- Visual and audible alarms for low battery voltage
- 14-hour Lithium-Ion battery (at minimum fan speed) charges in 6 hours
- Audible and vibration alarms for low flow (clogged filter) and missing filter
- Ergonomic comfortable belt
- Flexible breathing tube with quick disconnect with fire retardant air-hose cover
- NIOSH 42 CFR Part 84 Approval Number: TC-21C-0947

System Specifications

BLOWER UNIT

Type	Flow Control
Motor Speed	6,000-10,000 RPM
Motor	Brush-less
Air Supply	Minimum of 6 Cubic Feet (170 liters/minute)
Case	Impact-proof ABS
Filter Cartridge	Single plug-in type
Hose Length	34.5 in / 876 mm
Hose Diameter (Internal)	1.1 in / 28 mm
Hose Connection	Quick Disconnect
Weight	1.4 lbs / 0.63 kg
Dimensions	7.1 x 3.7 x 7.4 in, 180 x 94 x 187 mm
Color	Black and Blue

BATTERY

Type	Lithium-Ion
Voltage	7.4 V
Operating Time	14 hours at minimum fan speed
Charging Time	6 hours
Charging Cycles	350 (under ideal conditions)
Housing	Impact-proof ABS
Weight	0.78 lb / 0.35 kg
Dimensions	5.9 x 2.9 x 1.65 in, 150 x 74 x 42 mm
Color	Black

CHARGER

Type	DC Rectifier
Primary Voltage	120 V / 60 Hz
Secondary Voltage	7.4 V
Output Current	DC 8.4 V, 1500 mA
Weight	0.24 lb / 0.110 kg
Dimensions	3.3 x 2.6 x 1.7 in, 84 x 66 x 43 mm
Color	Black
Approvals	CE and FCC



AirPlus® Parts and Accessories

PART #	DESCRIPTION
AP-1	AirPlus® Powered Air Purifying System includes Battery, Battery Charger, Waist Belt, Flame Retardant Tube & Hose Cover, Air Flow Indicator, Powered Respirator with P3 filter & duffle bag.
AP-1L	AirPlus® Powered Air Purifying System includes Battery, Battery Charger, Waist Belt, Long Flame Retardant Tube & Hose Cover, Air Flow Indicator, Powered Respirator with P3 filter & duffle bag. AP-1L is Required for Eagle® AirPlus® headtops.

PART #	DESCRIPTION
AP-BAT-02	AirPlus® Battery
AP-BLW-02	AirPlus® Blower Unit (includes one P3 Filter)
AP-CHG-01	AirPlus® Battery Charger
AP-BT-01	AirPlus® Breathing Tube without FR Cover
AP-BT-02	AirPlus® Long Breathing Tube without FR Cover
AP-BTC-01	AirPlus® Breathing Tube with FR Cover
AP-BTC-02	AirPlus® Long Breathing Tube with FR Cover
AP-BT-FR	AirPlus® Flame Retardant Hose Cover
AP-BT2-FR	AirPlus® Flame Retardant Hose Cover with extra length
AP-FIL-03-4	AirPlus® P3 Filter (4-Pack)
AP-FIL-03-12	AirPlus® P3 Filter (12-Pack)
AP-HFS-01	AirPlus® Face Seal
AP-WBT-01	AirPlus® Waist Belt (34.5")
AP-WBT-EXT	AirPlus® Waist Belt Extension (10")
AP-AFI-01	AirPlus® Air Flow Indicator
CA-CAC-02	Duffle bag



AIRPLUS® HEAD TOP SELECTION

AirPlus® with Vision® welding helmet

The AirPlus® PAPR System's most popular headtop is the modern designed Vision® 5x4" welding helmet. The Vision® helmet series comes in black and other decal designs, and is a lightweight, full-coverage helmet. It has a sleek look and is great for tight spaces where wider helmets can't fit. The Vision® is Z87+ rated.



Features

- Available with a range of Auto-Darkening filters, with viewing areas up to 12.6 square inches
- Lightweight nylon helmet 1.23 lbs / .56 kg
- Super comfortable 100% cotton FR treated face shield
- Black and decal welding helmet designs
- Order with AP-1
- Meets / Exceeds ANSI Z87+, CAN/CSA Z94.3
- NIOSH approved

PART #	DESCRIPTION
AP-AIRDUCT-01	AirPlus® Airduct - includes headgear
AP-SWB-01	AirPlus® Sweatband (2-Pack)
AP-HG-K	AirPlus® Headgear Kit (Knobs, Screws, Pivot Stop)
AP-BT-01	AirPlus® Breathing Tube without FR Cover
AP-BTC-01	AirPlus® Breathing Tube with FR Cover
AP-BT-FR	AirPlus® Flame Retardant Hose Cover
O2-OP	Outside Cover Plate



⚠ X=FILTER • VISIT OUR WEBSITE TO FIND THE BEST FILTER FOR YOUR WELDING NEEDS

AirShield® with AirPlus®

ArcOne's new full-coverage grinding visor exceeds expectations with its durable construction, large viewing area, sturdy headgear, quick and easy visor installation and removal, all at an economical price-point.



Features

- Large shield-like viewing area
Visor dimension: 7" x 5.4" x 0.040"
Viewing area: 41.2 sq. in.
(176.9 mm x 137.7 mm x 1.0 mm,
Viewing area: 26560 mm²)
The visor is 0.067" thick
- Complete with comfortable sweatband
- Shell is 0.28 lbs (130 grams);
Visor is 0.12 lbs (55 grams);
Complete 0.58 lbs (265 grams)
- Direct flow into the helmet with new air-manifold system
- User control of airflow direction
 - » Fully open air setting to mitigate fogging
 - » Fully closed air setting to channel airflow to breathing zone
 - » Partially closed air setting for taking the sweat out of welding
- Lightweight, super comfortable 100% cotton, FR treated face seal
- Easy change face seal, no more nuts and bolts to fiddle around with
- Order with AP-1
- Meets/Exceeds: ANSI Z87+,
CAN/CSA Z94.3, CE EN 166
- NIOSH and CE approved

PART #	DESCRIPTION
AP-AR-SH ⚠	Respiratory AirShield®
AP-HFS-02 ⚠	Face Seal for Eagle® and AirShield®
AP-BT-01	AirPlus® Breathing Tube without FR Cover
AP-BTC-01	AirPlus® Breathing Tube with FR Cover
AP-BT-FR	AirPlus® Flame Retardant Hose Cover
AIR-WHA-10	Adapter to attach AirShield® to an ArcOne® welding helmet
AIR-CL ⚠	AirShield® Clear Replacement Visors (2-Pack)



AP-AR-SH

Eagle® with AirPlus®

ArcOne® has redesigned the Eagle® helmet into one that now meets the highest demands from welding. The new Eagle® is our first helmet designed to make respiratory protection a top priority.



Features

- Perfectly balanced headtop
- Direct flow into the helmet with new air-manifold system
- User control of airflow direction
 - » Fully open air setting to mitigate fogging
 - » Fully closed air setting to channel airflow to breathing zone
 - » Partially closed air setting for taking the sweat out of welding
- Comfortable 100% cotton FR face seal
- Quick release filter holder for easy front and rear cover plate change
- Large viewing, quick-change grinding shield
- UV exceeds Shade 5, IR5+ side panels for peripheral vision to help prevent blind side accidents from other nearby work
- Works with both externally controlled or internally controlled auto-darkening welding filters
- Excellent full neck and ear coverage
- Uses ComfaGear® II headgear
- Works with ArcOne's mag lenses
- Order with AP-1L, a long breathing tube to accommodate more welders
- Meets/exceeds CE EN 166 -B and ANSI Z87+ high impact
- NIOSH and CE approved

PART #	DESCRIPTION
AP-7500VX-0200 ⚠	Respiratory Black Eagle® Helmet with 7500VX Digital Filter Inside Regulation
AP-5500V-0200 ⚠	Respiratory Black Eagle® Helmet with 5500V Digital Filter Inside Regulation
AP-HFS-02	Face Seal for Eagle® and AirShield®
AP-BT-02	Long Breathing Tube without FR Cover
AP-BTC-02	Long Breathing Tube with FR Cover
AP-BT2-FR	Flame Retardant Hose Cover with extra length
EA-CL-2 ⚠	Eagle® Polycarbonate Clear Visors (2-Pack)
EAGLE-SP1 ⚠	Eagle® Shade 6 / IR 14 side panels (2-Pack, left and right side)
EAGLE-SP2 ⚠	Eagle® Black side panels (2-Pack, left and right side)
09-OP-5	Outside Cover Plate for Eagle® helmets (5-Pack)



AP-7500V-0200

SR Powered Air-Purifying Respirator

Customer driven product development and incorporation of the latest technologies has generated the unique design and superior features of the SR 500 PAPR series.

The SR 500 system is a Powered Air-Purifying Respirator (PAPR) that protects against particulates, gases and vapors, or a combination of both. It is designed to be used in oxygen sufficient and non-immediately dangerous to life and health environments. The filtered air is supplied through a breathing hose to the tight fitting face piece and loose fitting head gear. The above-atmospheric pressure generated prevents surrounding pollutants from penetrating into the breathing zone.

Features

- High flow rates, normal operation mode 175 LPM and boosted operation mode 225 LPM
- On board lithium-ion battery designed for easy replacement
- Charging time 80%-70 min, 100%-3 hrs. Boosted charging charges the battery to about 80% of its capacity. Balanced charging charges the battery to 100% of its capacity. Trickle charging, fully charged battery.
- Unique design of the belt keeps the fan unit comfortable and stable
- Easily removable parts allow simple cleaning, maintenance and replacement
- Equipped with automatic flow control securing the delivery of the preset flow rate
- The fan unit can be used with particulate filters or a combination of particulate filters and chemical cartridges



TYPICAL APPLICATIONS
include agriculture, asbestos, mold & lead paint abatement, construction & building renovation, demolition, chemical industry, food & beverage processing, lead battery plants, medical & health care, metal work, welding shops, pharmaceutical manufacturing, power plants, pulp & paper processing, recycling plants, smelting & foundries, surface preparation, painting, coating, and more.



- Lightweight, balanced and ergonomic design
- Dual flow rates
- Easy to adjust and maintain
- Automatic setting of flow rate and flow control
- Triple warning system; audible, visual and sensory (vibration)
- Superior long lasting lithium-ion battery technology
- Simple filter/cartridge system
- Loose Fitting Headgear, Hoods, Face Shield, Hard Hat, Hard Hat with Welding Face Shield

SR Head Tops

Choose a suitable face piece to go with your SR System. All face pieces are supplied with a breathing hose for connection to fan SR 500.



SR 530
H06-0421
Loose Fitting Hood

A lightweight hood which covers the face, head, neck and shoulders. Great for sanding and painting and easy to clean. Easily adjustable headband suspension and neck seal providing high protection including for people with beards. One size fits all face shapes and sizes. Provides respiratory protection with an APF of 1,000 (Assigned Protection Factor) according to OSHA 3352-02 2009.



SR 540
H06-0521
Grinding Visor Face Shield

A unique face shield with an excellent field of vision, great for painting and grinding. The visor can easily be flipped up to a good balanced "over the head" position. Visor is made of scratch resistant PC that can easily be replaced. Provides respiratory protection with an APF of 25 (Assigned Protection Factor) according to OSHA 3352-02 2009. Limited eye protection (ANSI Z87.1-2010).



SR 580
H06-8021
Hard Hat with Visor

Provides complete respiratory, face and head protection and can be combined with most earmuffs. The scratch resistant PC visor is easy to replace and offers a wide field of vision. The visor can be flipped up to a good balanced "over the head" position. Provides respiratory protection with an APF of 1,000 (Assigned Protection Factor) according to OSHA 3352-02 2009. Provides limited eye protection (ANSI Z87.1-2010). Provides limited head protection (ANSI Z89.1-2009 Type 1 Class G).



SR 580 & SR 584
H06-8321 ⚠️
Hard Hat with Visor and Welding Face Shield

Provides complete respiratory, face and head protection and can be combined with most earmuffs. The welding face shield can be flipped up and offers not only a wide field of vision but face protection during grinding and other types of work. Provides respiratory protection with an APF of 1,000 (Assigned Protection Factor), according to OSHA 3352-02 2009. Provides limited eye protection (ANSI Z87.1-2010). Provides limited head protection (ANSI Z89.1-2009 Type 1 Class G). Comes with passive shade 10 plate - other ADF filters available (5500V or 7500VX).

SR 500 Filters and Cartridges

Filters and cartridges are designed to handle the high air-flow rates provided by the PAPR.



H02-1321

This particulate filter is mechanical and protects against all types of particles (dust, fume, fog, spray, asbestos), as well as bacteria, viruses and radioactive dust. The filter efficiency is >99.997% meaning that the air is 33,000 times cleaner after the air has passed the filter. The active filter area is 201 square inches, which generates an extended usage time. This is almost 3 times bigger than competitors active filter area.

H02-7121 - OV/SD/CL/HC/HF Chemical Cartridge

The OV/SD/CL/HC/HF chemical cartridge protects against organic gases and vapors, e.g. solvents, with a boiling point of more than +65 °C. It protects against acidic gases and vapors, such as sulfur dioxide, chlorine, hydrogen chloride and hydrogen fluoride.

H02-7221 - CL/HC/SD/FM/AM/MA Chemical Cartridge

This chemical cartridge protects against acidic gases and vapors, such as chlorine, hydrogen chloride, sulfur dioxide and formaldehyde. It also protects against ammonia, methylamine and certain amines.

*Note that each cartridge must be combined with a particulate filter to prolong the lifetime of the fan unit.



SR Parts and Accessories

The SR Series has many accessories that can be used in many different working situations.

ITEM	DESCRIPTION	ITEM	DESCRIPTION
KITS		SR 540	
H06-0921-K 	SR 500/530 Kit, Hooded Top with SR 500 & duffle bag	H06-0521	Grinding Visor Face Shield only
H06-0721K 	SR 500/540 Kit, Grinding Visor with SR 500 & duffle bag	R06-0501	Breathing Hose for SR 540
H06-8121-K 	SR 500/580 Kit, HH/Grinding Visor with SR 500 & duffle bag	R06-0507USA	Spare PC Visor for SR 540
PS10-H06-8421 	HH/Welding Helmet Kit w/ SR 500 PAPR, Shade 10 Passive Filter & duffle bag	T06-0501-12	Protective Film for SR 540 (12-Pack)
5500V-H06-8421 	HH/Welding Helmet Kit w/ SR 500 PAPR, 5500V Filter & duffle bag	T06-0501-144	Protective Film for SR 540 (144-Pack)
7500VX-H06-8421 	HH/Welding Helmet Kit w/ SR 500 PAPR, 7500VX Filter & duffle bag	R06-0504	Sweatband for SR 540
SR 500		T06-0504	Face Seal for SR 540
H06-0121	SR 500 PAPR Blower with Battery, Battery Charger, Waist belt and Air Hose	T06-0505	Head Cover
T06-0101	SR 500 HD Battery	SR 580	
R06-0122	SR 500 Battery Charger	H06-8021	Hard Hat with Visor
R06-0127	Battery Clip	R06-0810	Breathing Hose for SR 580
H02-1321-5	P3 Hepa Particulate (5-Pack)	R06-0808	Spare PC Visor for SR 580
H02-1321-20	P3 Hepa Particulate (20-Pack)	T06-0801-10	Protective Film for SR 580 (10-Pack)
H02-7121-5	OV/SD/CL/HC/HF Chemical Cartridge (5-Pack)	T06-0801-100	Protective Film for SR 580 (100-Pack)
H02-7121-20	OV/SD/CL/HC/HF Chemical Cartridge (20-Pack)	T06-0803	Neck Comfort Band
H02-7221-5	CL/HC/SD/FM/AM/MA Chemical Cartridge (5-Pack)	R06-0805	Face Seal for SR 580
H02-7221-20	CL/HC/SD/FM/AM/MA Chemical Cartridge (20-Pack)	T06-4016	Welders Protective hose cover (Proban)
T06-0104	Standard Belt (Rubber)	T06-8011	Welding Protection for neck & chest (Proban)
T06-0103	Standard Belt (Leather)	R06-0809	Hard Hat Sweatband for SR 580
T06-0107	Large Belt (Leather)	SR 584	
R06-0101	Standard Belt (Polyester)	H06-8321	Hard Hat with Visor and Welding Face Shield
T06-0116	Harness for SR 500	T06-0808	Welding Protection for neck & chest (Leather)
SR 530		T06-0809	Face Seal Welding Protection (Leather)
H06-0421	Loose fitting hood	T06-8012	Face Seal Welding Protection (FR Proban)
R06-0203	Sweatband for SR 530	5500V	Filter Option to use with SR 584
T06-0121-20	Hose Protection (Plastic) (20-Pack)	7500VX	Filter Option to use with SR 584
T06-0201-144	Protective Film for SR 530 (144-Pack)	03-OP	Inside Cover Plate for 5500V Filter when using with SR 584
T06-0806	Protective Hood for SR 530/540/580 (Tyvek)	10-IP-5	Inside Cover Plate for 7500VX Filter when using with SR 584 (5-Pack)
		04-OP	Outside Cover Plate for 5500V & 7500VX Filters when using with SR 584

Accessories for SR Series



T06-0116
Harness for SR 500



T06-0103
Standard Leather Belt



T06-0806
Protective Hood



T06-0808
Welding Protection for Neck & Chest



T06-4016
Protective Hose Cover



SPARE PARTS AND PRACTICAL ACCESSORIES. FOR MORE INFORMATION, GO TO WWW.ARCIWELDSAFE.COM



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