

AIRPLUS® PAPR SYSTEM

Breathe easy. Better welding
protection is here.



ARCONE®



WALTER
Surface Technologies

WELDING FUME HAZARDS

When it comes to exposure to hazardous fumes, gases, and vapours associated with welding, safety on the shop floor should be every welder's priority.

Throughout a work shift, welders are exposed harmful metal fumes, including Hexavalent Chromium, a known carcinogen, as well as dust, metal, and other particles, which can cause throat and respiratory tract irritation, and many other long terms health issues when inhaled.

A powered air-purifying respiration, or PAPR system can protect metalworkers by filtering out dangerous fumes. These units provide higher levels of respiratory protection compared to half-face respirators or disposable masks.

DID YOU KNOW?

Without respiratory protection, repeated or prolonged workplace exposure to hexavalent chromium can cause lung cancer.*

PAPR OPTIONS OFFER SUPERIOR PROTECTION TO DISPOSABLE MASKS

WELDING RESPIRATORY PROTECTION OPTIONS	N95	AIRPLUS®	
		AIRPLUS® & VISION® 	AIRPLUS® & AIRSHIELD® 
APF LEVEL	10	25	25
General Dust	•	•	•
Steel	•	•	•
Manganese	•	•	•
Stainless Steel	•	•	•
Chromium	•	•	•
Galvanized Steel	•	•	•
Cadmium		•	•
Lead		•	•
Ozone	•		

* U.S. Department of Labor. (2006). Hexavalent Chromium - Occupational Safety and health ... Occupational Safety and Health Administration. Retrieved October 15, 2021, from https://www.osha.gov/sites/default/files/publications/hexavalent_chromium.pdf.

WORK BETTER WITH EVERY BREATH

ARCONE® AIRPLUS® PAPR SYSTEM

The Airplus Advantage

Designed for Productivity

- ▶ High-capacity battery allows up to two full work shifts; reduces downtime
- ▶ Full charge in 6 hours
- ▶ 3 phase alarm system for increased user awareness
- ▶ Flexible breathing tube reduces torque on neck and increases mobility

See no limits

- ▶ 4 head top options for different applications
- ▶ Largest viewing area in its category with the BFFVX lens
- ▶ Unparalleled optical clarity and sensitivity
- ▶ HD Technology on BFFVX and X81VX lens options
- ▶ True color technology on 4500V lens option



Classification and approvals

Filter Type:

High-Efficiency Particulate Air Filter (HEPA) will protect against:

- ▶ hazardous solid dust particles, metal fumes and mists
- ▶ Stainless steel (hexavalent chromium), galvanized steel (Zinc oxide), steel/manganese alloys, aluminum, cadmium and lead fumes.

OSHA Classification

Loose-fitting PAPR head top: no fit test required

Assigned protection factor: 25

Certifications:

- ▶ NIOSH 42 CFR Part 84: Approval numbers TC-21C-0947 and TC-21C-1095
- ▶ Meets ANSI Z87.1 (Head tops)
- ▶ Meets CSA Z94.3 (Head tops)

ARCONE® AIRPLUS® BLOWER SYSTEM

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.

AIRPLUS® 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 and fire retardant air-hose cover



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 Connection.....	Quick Disconnect
Weight.....	1.4 lbs / 0.63 kg
Pre-filter.....	Yes
Spark Arrestor	Yes

BATTERY

Type	Lithium-Ion
Voltage	7.4 V
Operating Time.....	14 hours at minimum fan speed
Charging Time.....	6 hours
Charging Cycles	500
Housing.....	Impact-proof ABS
Weight.....	0.78 lb / 0.35 kg



WELD TO THE FULLEST

Every welder is different. That's why the ArcOne® AirPlus® is available with different head top options to choose from.

PAIR YOUR ARCONE® AIRPLUS® BLOWER SYSTEM WITH ONE OF ARCONE'S HEAD TOP OPTIONS

	AIRSHIELD®	AIRSHIELD® FLIP FRONT	VISION® with X81VX	VISION® with BFFVX
	For grinding applications	For welding and grinding	For mostly welding applications	For mostly welding applications
				
Part Number	AP-AR-SH	AP-4500V-AIR	AP-X81VX-1500	AP-BFFVX-1500
Viewing Area (square inches)	41.2	7.1	12.6	17.05
HD Technology	N/A		✓	✓
Light Shade	N/A	4	3	3
Dark Shade	N/A	9-13	5-14	5-13
Variable Sensitivity	N/A	✓	✓	✓
Variable Delay	N/A	✓	✓	
X-Tig Mode	N/A		✓	✓
Cut & Grind Mode	N/A	✓	✓	✓
TIG Rating	N/A	25	<5	5
Arc Sensors	N/A	4	5	3
Digital	N/A		✓	
Solar power	N/A	✓	✓	✓ (also comes with USB charger)
PAPR Kit Part Number	AP1K-AIRSH	AP1K-A-4500V	AP1K-V-X81VX	AP1K-V-BFFVX

ALL AIRPLUS PAPR KITS INCLUDE:

- ▶ Selected head top
- ▶ Airplus Battery
- ▶ Battery Charger
- ▶ Ergonomic flame retardant waist belt
- ▶ Spark arrestor
- ▶ Pre-filter
- ▶ Flexible Breathing Tube with FR Cover
- ▶ Airflow indicator
- ▶ Airplus Blower with HEPA filter
- ▶ Duffle bag



SEE NO LIMITS WITH HD TECHNOLOGY!

See color in its truest form with ArcOne's exclusive HD technology. This innovative feature available with ArcOne Vision hoods increases the range of visible light when looking through the welding lens. This means you'll see more natural colors, providing a clearer, more defined view of your work area.



BFFVX lens shade 5



Other lens shade 5

AIRPLUS® PARTS AND ACCESSORIES®

ITEM	DESCRIPTION
AP-1	AIRPLUS U.S. BLOWER SYSTEM
AP-AFI-01	AIRPLUS AIR FLOW INDICATOR
AP-BAT-03	HEAVY DUTY BATTERY 6 CELLS
AP-BLW-02	BLOWER FOR AP U.S. SYSTEM
AP-BT-FR	AIRPLUS BREATHING TUBE FR COVER
AP-BT2-FR	AP EXTRA LONG BREATHING TUBE FR
AP-CHG-03	BATTERY CHARGER WITH UNIVERSAL PLUGS
AP-FIL-03-12	AIRPLUS® P3/HE FILTER (12-PACK)
AP-FIL-03-4	AIRPLUS P3/HE FILTER (4 PACK)
AP-FIL-04-10	FOAM PRE-FILTER (10 PACK)
AP-WBT-01	AP WAISTBELT FOR AP SYSTEM
AP-WBT-EXT	10" EXTENSION FOR AIR PLUS
AP-BT3-FR	FLEX TUBE FR COVER
AP-BTC-03	FLEX TUBE & FR COVER
AP-WBT-02	HEAVY DUTY WAISTBELT AIRPLUS
AP-SA-01-2	SPARK ARRESTOR (2 PACK)
CA-CAC-02	DUFFEL BAG WITH ARCONE LOGO

AIRSHIELD® PARTS & ACCESSORIES

ITEM	DESCRIPTION
AP-AR-SH	AIRPLUS: AIRSHIELD
AP-HFS-02	AP FACE SEAL FOR AIRSHIELD
AIR-CL	2 PK CLEAR VISOR FOR AIRSHIELD
AP-AIRDUCT-01	AIRPLUS AIRDUCT ASSEMBLY W HEADGEAR
AP-HG-K	AIRPLUS HG KIT: KNOBS, SCREWS
AP-SWB-01	AIRPLUS SWEATBAND 2 PACKS

AIRSHIELD FLIP FRONT PARTS & ACCESSORIES

ITEM	DESCRIPTION
AP-AR-SH	AIRPLUS: AIRSHIELD
AIR-ADFFA	AIRSHIELD ADF FLIP FRONT
4500V	4500V 4/9-13 REPLACEMENT
04-OP	PACKAGED 110X90MM COVER PLATE
04-OP-10	10 PACK 90 X 110 MM BULK
03-OP	PACKAGED 2X4 COVER PLATE
03-OP-10	10 PACK 2X4" COVER PLATE
AIR-CL	2 PK CLEAR VISOR FOR AIRSHIELD
AP-AIRDUCT-01	AIRPLUS AIRDUCT ASSEMBLY W HEADGEAR
AP-HFS-02	AP FACE SEAL FOR AIRSHIELD
AP-HG-K	AIRPLUS HG KIT: KNOBS, SCREWS
AP-SWB-01	AIRPLUS SWEATBAND 2 PACKS

VISION® HEAD TOP PARTS & ACCESSORIES

ITEM	DESCRIPTION
AP-HFS-03	VISION Helmet QUICK FACE SEAL
AP-QCFS-K1	VISION QUICK FACE SEAL KIT
AP-HFS-01	AIRPLUS FACE SEAL FOR VISION
AP-AIRDUCT-01	AIRPLUS AIRDUCT ASSEMBLY W HEADGEAR
X81VX	81MM DIGITAL FILTER WITH X-TIG
BFFVX	BFF FILTER WITH USB CORD
02-OP	PACKAGED 4X5, 5X4 COVER PLATE
02-OP-10	10 PACK OF 4X5, 5X4 COVER PLATE
04-OP	PACKAGED 110X90MM COVER PLATE
04-OP-10	10 PACK 90 X 110 MM BULK
AP-HG-K	AIRPLUS HG KIT: KNOBS, SCREWS
AP-SWB-01	AIRPLUS SWEATBAND 2 PACKS

AIRPLUS COMPONENT	TYPICAL REPLACEMENT CADENCE	NOTES
Prefilter	Once a week	Regular replacement of the prefilter extends the life of the HE particulate filter, saving on consumable costs.
HEPA P3 Filter	At least every month	Do daily checks with air flow indicator and replace when airflow indicator falls below the minimum flow line.
Spark Arrestor	As needed	Replace if deformed and no longer fitting well.

CONTACT US

USA CUSTOMER SERVICE

Toll Free: 1-800-223-4685

Fax: 1-866-274-4435

Email: orderdesk.us@walter.com

CANADA CUSTOMER SERVICE

Toll Free: 1-888-592-5837

Fax: 1-866-581-1121

Email: csr@walter.com

WARRANTY

1-800-223-4685

QUALITY ASSURANCE & TECHNICAL SUPPORT

1-800-223-4685

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