

PAPR SYSTEMS

Breathe easy. Better welding protection is here.



ALLEGRO[®]
INDUSTRIES

ARCONE[®]

WALTER

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 and particles. 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® BLOWER UNIT 	ALLEGRO EZAIR BLOWER 
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

When to use a PAPR system?

PAPR systems should be used in environments with an Assigned Protection factor of 25 in environments that are not immediately dangerous to life and health (IDLH). Deciding what type of respiratory unit is right for you will depend on:

- 1 The hazards or contaminants you might be exposed to
- 2 The concentration of hazards/contaminants in the environment
- 3 The occupational exposure limit to these contaminants
- 4 The length of time of exposure
- 5 The type of work or application
- 6 The physical characteristics of the wearer
- 7 The limitations of PAPR systems

ARCONE® AIRPLUS® AND ALLEGRO EZ-AIR PAPR SYSTEM

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



AirPlus® blower model also includes a spark arrestor and pre-filter

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)

POWERED AIR-PURIFYING BLOWER UNITS

When it comes to exposure to hazardous fumes and particles, respiratory safety should be every worker's priority. A Powered Air-Purifying Respirator (PAPR) system can protect metalworkers, welders, and MRO professionals by filtering out dangerous particles. These units provide higher levels of respiratory protection compared to half-face respirators or disposable masks. Discover the AirPlus® and EZ-AIR systems by ArcOne® and Allegro.

FEATURES

- ▶ 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
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BASIC SYSTEM SPECIFICATIONS

Blower Unit	
Type	Flow Control
Motor speed	6,000-10,000 RPM
Air supply (min/max)	170 LPM/260 LPM (6/9.5 CFM)*
Case	Impact-Proof ABS
Filter cartridge	Single plug-in
Filter	HEPA
Expandable breathing tube	31.5 in to 63 in
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

Charger	
Type	DC rectifier
Voltage	120 V / 60 Hz
Output current	8.4 V, 1500 mA
Approvals	CE and UL



POWERED AIR-PURIFYING RESPIRATOR SYSTEMS



Every work environment is different. That's why Walter offers the most comprehensive line of PAPR systems in the market. There are several head tops to choose from and build the perfect PAPR system to meet your job site needs.

MRO OR HEALTHCARE



SARAN™-COATED TYVEK® HOOD

POLY-COATED TYVEK® HOOD

GRINDING & WELDING



EZ AIR GRINDING/WELDING

EZ AIR MAX

EZ AIR ECONOMY

EZ AIR DELUXE



AIRPLUS® AIRSHIELD®

AIRSHIELD® FLIP FRONT

VISION® X81VX

VISION® BFFVX

APF 25

MATERIAL RESISTANCE

WELDING PERFORMANCE

WELDING PERFORMANCE



COMPATIBLE WITH ALLEGRO EZ AIR BLOWER



COMPATIBLE WITH ARCONE® AIRPLUS®

MRO AND HEALTHCARE PAPR SYSTEMS



POLY-COATED DUPONT TYVEK® HOOD

EZ AIR PAPR POLY-COATED DUPONT TYVEK® HOOD

Description	Order No.
EZ Air Tyvek® PAPR Hood	9933
Replacement Tyvek® Hood Assembly with Suspension	9933-21

EZ AIR PAPR SARAN™-COATED TYVEK® HOOD

Description	Order No.
EZ Air Saran™ PAPR Hood	9933-S
Replacement Saran™ Hood Assembly with Suspension	9933-21S



Video available on the ALLEGRO INDUSTRIES Channel
www.youtube.com/AllegroIndustries

Complete PAPR assembly:

- Fully disposable hood with bonded/taped seams
- Air channel design delivers air inside hood across the breathing zone with minimal lens fogging
- Lightweight, disposable one-piece suspension with absorbent head band
- Flexible breathing tube inside the downtube sleeve of the hood reduces decontamination time
- Breathing tube directs the air up and over the user's head to allow the air to disperse across the lens to prevent fogging and reduce CO2 build up inside the hood
- Single filter design is easy to install and remove; NIOSH Approved HEPA Filter (42 CFR, Part 84); Filters 99.97% of particulates larger than 0.3 microns
- Rugged, lightweight, and low-profile ABS blower is quiet at 65 dB
- 7.4 V rechargeable lithium-ion battery operates up to 17 hours (minimum speed), 9 hours (maximum speed) on a full charge
- 110-240 Vac, 50-60 Hz smart charger (International kit available with removable plug)
- Waist belt features large heavy-duty belt clips, easy to attach while wearing gloves

Our extensive line of high-quality grinding and welding products provide workers with better comfort, less fatigue, and improve productivity. Allegro EZ Air PAPRs are intended for industrial applications where respiratory, eye, and face protection are required.

EZ AIR PAPR SYSTEM COMPONENTS

1

CHOOSE A GRINDING OR WELDING HEADTOP



	For grinding applications	For grinding and welding applications	For grinding and welding applications	For grinding and welding applications	For grinding and welding applications
Order No.	9937-BHTG	9937-BHTWADF	9936-BH7500	9935-BHTX54V	9935-BHTX81V
Viewing Area (square inches)	41.2	7.1	9.3	7.25	12.6
HD Technology	N/A	✓	✓	✓	✓
Light Shade	N/A	4	3	4	3
Dark Shade	N/A	9-13	5-14	5-14	5-14
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	<5
Arc Sensors	N/A	4	2	4	5
Digital	N/A	✓	✓	✓	✓
Solar power	N/A	✓	✓	✓	✓
PAPR Kit Order No.	9937-G	9937-WADF	9936	9935	9935-DLX

2

ADD BLOWER ASSEMBLY



9935-BLW
(Shown disassembled)
Includes downtube w/ FR cover, battery, charger, belt, flow tester, HEPA filter, and storage bag

3

REPLACEMENT HEPA FILTER



9935-FIL
Replacement (HEPA)

GRINDING AND WELDING PAPR SYSTEMS







Our extensive line of accessible grinding and welding respiratory products provide workers with better comfort, less fatigue, and improve productivity. The ArcOne® AirPlus® PAPR systems are intended for entry-level industrial welding and grinding applications where respiratory, eye, and face protection are required. All ArcOne® models also come with a spark arrestor and pre-filter for added safety.

AIRPLUS® SYSTEM COMPONENTS

1

CHOOSE A GRINDING OR WELDING HEADTOP

	AIRSHIELD® For grinding applications	AIRSHIELD® FLIP FRONT For welding and grinding	VISION® with X81VX For mostly welding applications	VISION® with BFFVX For mostly welding applications
				
Order No.	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 Order No.	AP1K-AIRSH	AP1K-A-4500V	AP1K-V-X81VX	AP1K-V-BFFVX

2

ADD BLOWER ASSEMBLY

AIRPLUS® SYSTEMS

Order No.	Description
AP-1	AirPlus® Powered Air-Purifying System includes Battery, Battery Charger, Waist Belt, Flexible Breathing Tube and Flame-Retardant Cover, Air Flow Indicator, Powered Respirator with HEPA filter, Spark Arrestor (2) and Pre-Filter (2).

3

REPLACEMENT HEPA FILTER



AP-FIL-03-4
AirPlus® HEPA filter (4-Pack)
AP-FIL-03-12
AirPlus® HEPA filter (12-Pack)

AIRPLUS® PARTS AND ACCESSORIES

Order No.	Description
AP-BAT-03	AirPlus® Battery
AP-BLW-02	AirPlus® Blower Unit (includes one P3 Filter)
AP-CHG-03	AirPlus® Battery Charger
AP-FIL-03-4	AirPlus® HEPA Filter (4-Pack)
AP-FIL-03-12	AirPlus® HEPA Filter (12-Pack)
AP-FIL-04-10	AirPlus® Pre-Filter (10 pack)
AP-WBT-01	AirPlus® Waist Belt (34.5")
AP-WBT-02	AirPlus® Heavy-Duty Leather Waist Belt (52.9")
AP-WBT-EXT	AirPlus® Waist Belt Extension (10")
AP-AFI-01	AirPlus® Air Flow Indicator
AP-SA-01-2	AirPlus® Spark Arrestor (2-pack)
CA-CAC-02	Duffel Bag



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