

AIMWELL™ AYO™ WX HFM-SP SPEECH-ENHANCED HALF-FACE MASK PAPR SYSTEM

DESCRIPTION

Aimwell™ AYO™ WX HFM-SP P-Boost is an around-neck speech-enhanced half-face mask powered respirator dedicated to particle filtration.

The respirator is designed for compactness and is ideal for protection from asbestos, silica dust, metalliferous dust, powder coating, coal dust, and sawdust in industrial settings for high exertion and mobile work, such as:

- Formwork and concrete patching.
- Building demolition and restoration.
- Tunnelling.
- Mining.

In comparison with AYO™ WX HFM P-Boost:

- The Main Unit is identical to HFM P-Boost.
- The mask assembly is essentially the same as in HFM P-Boost, except the Standard Exhalation Valve assembly is replaced by the Speech-enhanced Exhalation Valve Assembly, similar to that used in the WX FFM.

FEATURES

- Patented Around-neck innovation: no hose, no belt, easy to don and doff.
- Revolutionary Dual-Fitting: complied with EN 12941:2023 TH3, EN 12942:2023 TM3, AS/NZS 1716 PAPR P3.
- Advanced breath-responsive flow control.
- Strong flow up to 220L/Min.
- Compact and lightweight with well-balanced support.
- Industry-leading speech-enhanced half-face mask.
- Long battery life up to 16 hours, and the battery is replaceable.
- Low flow alarm, low battery alarm, and flow capacity test.
- Face seal add-on: designed for workers with longer beards.
- Wireless Speaker add-on for communication in noisy environments.
- Shower Kit add-on: for decontamination showers.
- Easier to clean and maintain than traditional PAPRs.
- Compatible with most related PPEs, such as hard hats, goggles, and earmuffs.



Compliance	Respiratory Protection	EN 12941: 2023 TH3P EN 12942: 2023 TM3P EN 12942: 2023 TM3A1P MS EN 12942: 2023 TM3A1B1E1K1P MS (coming soon) AS/NZS 1716:2012 PAPR-P3
	EMC	CISPR 11: 2017+A1:2020
		EN IEC 61326-1:2021
		EN IEC 61326-2-2:2021
		EN IEC 61000-3-2:2019/A1:2021
		EN 61000-3-3:2013/A2:2021
		47 CFR FCC part 15, Subpart B
		ANSI C63.4:2014
Filter Options	Safety	AS/NZS 61558, EN 61558, UL 62368
	Product Certification	CMI PC10112
	Main Filter - Long Life	P3/TM3/TH3, Pack of 3, Use up to 6 months
	Pre-filter	Pack of 10, replaced when blocked or dirty
	Pre-filter – Anti-odour	Pack of 10, replaced when blocked or odour present

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Filter Options	Gas cartridge A1B1E1K1 (coming soon)	Pack of 1, use up to 6 months
	Gas cartridge A1	
	HEPA filter for the Gas cartridge	Pack of 3, Use up to 6 months
Operation Conditions	Altitude	Up to 5000m
	Temperature	-10°C to 50°C
	Humidity	Up to 95% (non-condensing)
Storage Conditions	Temperature and Humidity	Short period < 1 month: -5°C to 45°, 65±20%RH Within 3 months: -5°C to 35°C, 65±20%RH Long period > 3 months: 0°C to 35°C, 65±20%RH
Battery Run Time	Particulate	Typically, 8 - 16 hours depending on the actual workload and dust concentration.
Battery Charging		3.5 hours to 95% (fast flashing LED) 4 hours full charge (constant LED)
Battery Life		Typical 3 years, replaceable
Peak Flow	Particulate	Up to 220 l/min
	Gas	Up to 130 l/min
Manufacturer Minimum Flow Condition	Particulate	115 l/min
	Gas	95 l/min
Alarms	Filter-Blocked Alarm	2 beeps per second, flashing Red LED
	Low Battery Alarm	3 beeps per second
	Peak flow check	3 levels
Noise Level	Leq (high exertion)	Up to 71dB
	Leq (typical)	< 65dB
Weight	Power Unit – Particulate	437g
	Power Unit – Gas	429g
	HFM-SP Speech-Enhanced Half-Face Mask (Medium)	201g
	Filter Unit - Particulate	126g
	Filter Unit - Gas	315g
Service life	Motor/blower	Over 10 years
AC Charge Adaptor	Input	100 ~ 240VAC, 47~60 Hz
	Output	13.8VDC, 1A
	DC Jack plug	1.1mm ID, 3.0mm OD


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