

ADVANCED WELDING FUME PROTECTION SYSTEM



The ARCMaster series gets a serious update with the XC90F AIR and the CYCLONE PAPR! Experience the highest level of respiratory protection against carcinogenic welding fumes at a reasonable price. Can be used for welding, cutting, grinding & sanding applications.

CYCLONE PAPR

- 3-Stage filtration system offers highest level of protection from harmful welding fumes.
- Comfortable waist belt and 4-point shoulder straps paired with the lightweight design offers all-day comfort to the welder.
- CYCLONE PAPR system is equipped with an automatic alarm system that alerts the welder when filters are clogged for peace of mind.
- The powerful turbo unit offers up to 10hrs of run time on a Standard Battery at a steady 170L/min or push it to full power for 6hrs at 230L/min. Upgrade to a HD Battery for a 20-hour run time at 170L/min!
- Very affordable wear spares and consumables that makes this unit one of the lowest to run and maintain PAPR kits on the market.



UNMATCHED PRECISION WITH OptiShade TECHNOLOGY

Powered by a smart 5th sensor, OptiShade automatically adjusts shade level with razor sharp accuracy. No guesswork, just pure welding precision.

ARCMaster XC90F AIR

- Easiest to remove ADF in a flip welding helmet that makes changing cover lenses & batteries fast and easy.
- Features a **flip-lid** with **easy nod-down** design with a massive clear grinding visor to effortlessly switch between welding and grinding
- Experience a panoramic view of the weldment with one of the largest viewing areas (118 x 83mm = 99mm²) in a flip welding helmet and shade 5 passive side-windows.
- Comes with a Bluelight outer cover lens for improve visibility and reduced eye strain.
- 9 memory profiles can be manually set for various welding processes.
- Supplied standard with a super comfortable 5-Point Head Harness for all-day use.



ENHANCED USER EXPERIENCE WITH GRADUAL MODE

Smoothly transition from dark to light state to minimise eye fatigue and enhance your comfort.

3 Stage Filtering

Offers highest level of protection against carcinogenic welding fumes



P3 PARTICLE FILTER

Removes fine carcinogenic particles for clean, breathable air.

PREFILTER

Captures larger debris to prolong the P3 filter life.

SPARK ARRESTOR

Protects against fire hazards by blocking sparks.

COMPLETE KIT INCLUSIONS P/N: 45XC90F1AIR

ARCMaster XC90F AIR

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Front Cover Lens (Spare x 2)

Rear Cover Lens (Spare x 2)

Grinding Lens

Helmet Carry Bag

Operating Manual



CYCLONE PAPR

Cyclone PAPR Blower Unit

Spark Arrestor

Prefilter

P3 Particle Filter

Waist belt with Shoulder Straps

Extendable Breathing Hose

Rechargeable 2.6Ah Li-ion Standard Battery

Standard Battery Charger

Flowmeter for Testing correct airflow

TECHNICAL SPECIFICATIONS

ARCMaster XC90F AIR

Viewing Area	118mm x 83mm = 99mm ²
Arc Sensors	5
Approved to AS/NZS	AS/NZS 1337.1 & 1338.1
ISO 16321 Rating	VI (Previously EN349: 1/1/1/1)
Shade Range	4-8 / 9-14
Grinding Shade (ADF)	3
OptiShade Technology	User Adjustable +/- 2 Shades
Gradual Mode	Yes (Dark to Clear)
Ultra View	Yes
Switching Speed	0.1ms
Memory Mode	9 Memory Profiles
Harness Points	5
Digital Controls	Yes
Impact Rating	High Impact
Battery	Solar Assist 2 x CR2032 (Replaceable Battery)
Weight	900g
Warranty	3 Years + 6 Months



CYCLONE PAPR

Particle Filter Type	P3 P RSL
Filter Class	TH3 (<0.2% inward leakage)
Airflow Rate	Variable speed: 170, 200, 230L/min
Standard Battery Specifications	Li-ion 14.8V x 2.6Ah = 38.48Wh
Standard Battery Run Time	>10hrs @170L/min, >6hrs @230L/min
Standard Battery Charging time	2hrs
Battery Life	>500 Charging Cycles
Heavy-Duty Battery Specifications	Li-ion 14.8V x 5.2Ah = 76.96Wh
Heavy-Duty Battery Run Time	>20hrs 170L/min, >12hrs @230L/min
Heavy-Duty Battery Charging time	4hrs – Standard charger 2hrs – Rapid Charger ¹
Battery Life	<500 Charging Cycles
Warranty	Blower Unit – 1 Year Battery – 1 Year

¹Rapid Charger is an additional accessory and is not recommended to use with Standard Battery. Not included in this kit.

SPARE PARTS	UNIT OF MEASUREMENT	PART NUMBER
Cyclone PAPR Blower Unit with Waist Belt and Shoulder Straps	EA	455400
Waist Belt and Shoulder Straps	EA	455401
Expandable Breathing Hose 1.2m	EA	455402
Cyclone Backpack	EA	455403
Spark Arrestor	2Pc/Pk	455404
Prefilter	5Pc/Pk	455405
P3 Particle Filter	EA	455406
2.6Ah Standard Rechargeable Battery	EA	455408
5.2Ah Heavy Duty Rechargeable Battery	EA	455409
Standard Battery Charger	EA	455416
Rapid Charger to suit Heavy Duty Battery	EA	455417
FR Head Guard Protection for XC10 AIR & XC90F AIR	EA	455410
Leather Neck Guard Protection for XC10 AIR & XC90F AIR	EA	455411
Spare Blower Unit Connection Clips	2Pc/Pk	455414
Cyclone PAPR Spare Filter Cover – Grey	EA	455415
Front Cover Lens - Clear To Suit Arcmaster XC90F & XC90F AIR	5Pc/Pk	WHCL124F
Front Cover Lens - Blue To Suit Arcmaster XC90F & XC90F AIR	5Pc/Pk	WHCL124FB
Rear Cover Lens To Suit Arcmaster XC90F & XC90F AIR	3Pc/Pk	WHCL101R
Sweatband To Suit Arcmaster XC90F & XC90F AIR	2Pc/Pk	WHSB05
5-Point Head Harness Kit To Suit Arcmaster XC90F AIR	EA	WHHK05A

OPTIONAL ACCESSORIES



5.2Ah Li-ion Heavy-Duty Battery P/N - 455409

Upgrade your battery life with the Heavy-Duty Battery and get up to 20hrs of run time. Effortlessly weld long hours with no down time!



Heavy Duty Rapid Charger P/N - 455417

Cut your charge time in half with our **2Hr** Rapid Charger !



Cyclone Backpack P/N - 455403

Make long hours at the workshop comfortable with the Cyclone Backpack. With foam lined back panel and shoulder straps, the Cyclone Backpack offers superior weight distribution for ultimate all-day comfort



**Arcmaster XC90F AIR with
Cyclone PAPR Trade Kit
P/N: 45XC90F1AIR**

CIGWELD
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CIGWELD Data Sheet **Arcmaster XC90F AIR with Cyclone PAPR Trade Kit V1-2025**

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