

PA500 Technical Specifications

COMPONENT AND ATTRIBUTE	SPECIFICATION
Operating Conditions	
Temperature	+10°F (-12°C) to +118°F (+48°C)
Humidity	20 – 90% R.H. (non-condensing)
Altitude	Sea level to approx. 800m (2624 ft)
Ingress Protection	IP-54 Rating in use with battery, breathing tube, filter cartridge and cartridge
Explosive Environments	The PA500 series is not suitable for potentially explosive environments
Storage Conditions	
Temperature	Daily: -4°F (-20°C) to +95°F (+35°C) Ideal: 40°F (5°C) to 68°F (20°C)
Blower	
Housing Material	PC/ABS
Weight	1.17lbs (530g)
Air-Flow (loose-fit configurations)	7 CFM (197 lpm) Nominal – Default
Alarms	Audible and Visual (See user-instructions for details regarding alarm triggers and sequencing)
Motor Life	>10,000 hours (est.)
Noise Level	<75 dBA (average measured at the ear)
Battery Pack	
Materials	Housing: PC/ABS Latch: PC/ABS Gasket: Open-cell silicone foam
Weight	0.9lbs (410g)
Chemistry	Lithium-Ion
Capacity	10.9V, 5200mAh, 56Wh
Run-time	≥8hr (average)*
Safety	Short circuit/Overload/Over voltage/Over temperature protection
Service Life	Minimum 500 charge/discharge cycles while maintaining at least 70-80% of the original capacity*
Shipping	UN38.3 certified for air-transportation (Always consult a logistics professional for information regarding proper shipment of li-ion battery packs)

Battery Charger	
Time to full charge	<3.5 hours in ideal charging conditions with PA521 Smart Charger system (See user-instructions for further details)
Display	Real-time battery charge and health monitoring (See user-instructions for further details)
Power Input Requirements	Power Supply: AC 100-240V, 1.5A 50-60Hz
Breathing Tubes	
Length	PA031: 86cm (2.8 ft)
	PA031L: 100cm (3.3 ft)
	PA036: 119cm (3.9 ft)
Materials	Connections: ABS Corrugated Hose: Polyurethane O-Ringers: Buna-N, Silicone
Belt and Comfort Pad	
Materials	Straps: Woven Nylon Comfort Pad: Closed Cell Polyamide Foam Hardware: Acetal
Adjustment Range	28 – 60" (71-152cm) circumference
P3 Filter Cartridge	
Shell Material	PC/ABS
Particulate Filter Media	Hydrophobic, high efficiency particulate media ≥99.97% efficient

**Typical expectations based on laboratory testing. Actual battery run time and battery service life is dependent on many factors including working environment, charging conditions, filter cartridge type and headpiece type.*