

Technical Datasheet

Venus AIR10 PAPR

A time-tested powered respiratory system
 An easily replaceable filter.



Venus AIR10 PAPR with X9 Helmet:

Set includes Battery, Charger, PVC Breathing Hose, Basic filters, Hood.
 Item #110374401



Venus AIR10 PAPR with FS9 Helmet:

Set includes Battery, Charger, PVC Breathing Hose, Basic filters, Hood.
 Item #110374501



Venus AIR10 PAPR with Long Hood:

Set includes Battery, Charger, PVC Breathing Hose, Basic filters, Hood.
 Item # 110381201

Detailed Spares & Accessories for Venus AIR10 PAPR:

- Comfort belt & shoulder strap (#170377001)
- Breathing tube (#170376901)
- Filter (#170376301)
- Spark guard (#17036501)
- Welding shields (X9 – #170377101 / FS9 – #170377201)
- Long hood with head gear (#110379701)
- Pre-filters (#170376401)
- Battery charger (#170376701)
- Battery standard (#R170376601)



Technical Specifications:

- **Certifications:** CE EN12941
- **Filter Type:** Particle Filter
- **Air Flow Rate:** 170 L/min, 200 L/min, 230 L/min (old version) / 170, 190, 210 L/min (new version)
- **Alarm Types:** Flashing indicator, beeping sound, vibrating blower
- **Noise Level:** Max. 75 Db
- **Operating Time:**
 - SD Battery: 10 h (at 170 L/min);
 - HD Battery: 20 h (at 170 L/min)
- **Battery Type:** Li-Ion, 14.8V – 2.6Ah (SD) / 5.2Ah (HD)
- **Charging Time:** 2 h (SD), 4 h (HD)
- **Battery Life:** >500 cycles
- **Unit Weight:** 1555 g (SD), 1765 g (HD)
- **Dimensions:** 201 x 183 x 80 mm
- **Operating Temp.:** -5°C to +55°C, RH ≤90% (non-condensing)

Features of Venus AIR10 PAPR:

1. **Advanced Respiratory & Eye Protection:** High-quality welding/grinding hood integrated with powered air-purifying respirator.
2. **Multi-Level Adjustable Airflow:** Three selectable airflow levels (170, 190, 210 L/min in new version).
3. **Intelligent Air Supply System:** Automatic adjustment of airflow according to filter blockage.
4. **Comprehensive Alarm System:** Audio, visual, and vibrating alarms for low airflow or filter saturation.
5. **Real-Time Monitoring & Display:** Digital indicator showing airflow rate, filter saturation, and battery capacity.
6. **Long-Lasting Battery Performance:** Li-Ion rechargeable battery with >500 cycles, available in SD (10 h) & HD (20 h) versions.
7. **Ergonomic & Comfortable Design:** Lightweight blower unit with comfort belt and shoulder strap options.

Benefits of Venus AIR10 PAPR:

1. **Advanced Respiratory & Eye Protection:** Provides comprehensive protection against welding radiation, sparks, fumes, dust, and harmful airborne particles.
2. **Multi-Level Adjustable Airflow:** Ensures user comfort and adaptability across different work conditions.
3. **Intelligent Air Supply System:** Maintains stable and safe breathing resistance without manual intervention.
4. **Comprehensive Alarm System:** Enhances safety by alerting the user instantly to potential hazards.
5. **Real-Time Monitoring & Display:** Enables continuous monitoring, ensuring uninterrupted protection during work.
6. **Long-Lasting Battery Performance:** Provides extended usage for long shifts with quick recharging capability.
7. **Ergonomic & Comfortable Design:** Reduces fatigue, allowing prolonged usage in industrial and welding environments.

Cautions & Limitations:

1. Ensure proper seal and system check before use.
2. Regularly inspect and charge the battery and replace filters.
3. Use only in suitable environments; not for oxygen-deficient or IDLH conditions.
4. Follow maintenance and safety guidelines strictly.

User Instructions for Venus AIR10 PAPR:

1. **Before Use:** Check battery, filter, and helmet settings.
2. **During Use:** Adjust airflow as needed, monitor alarms, and ensure helmet fit.
3. **After Use:** Power off the unit, clean components, and store appropriately.
4. **Maintenance:** Replace filters and batteries as required. Clean and inspect regularly.

Applications of Venus AIR10 PAPR:

1. **Industrial Environments:**
 - Protection against dust, pollutants, and airborne particles in factories and processing units.
2. **Dusty Environments:**
 - Ideal for construction, cement plants, and mining areas.
3. **Automotive & Shipbuilding:**
 - Used for grinding, welding, spray painting, and material handling.
4. **Food Industry:**
 - Ensures safety in processing, bagging, and material handling.
5. **Grinding & Surface Finishing:**
 - Shields against sparks, fine dust, and hazardous particles.
6. **Foundry & Welding:**
 - Protects from fumes, metal dust, and heat in smelting and welding tasks.
7. **Bagging & Processing:**
 - Suitable for packaging powdered or granulated materials like flour or cement.