**Description**

The CleanSpace EX Power Unit is an intrinsically safe battery-powered, positive pressure air-purifying respirator (PAPR). The CleanSpace EX is suitable for use in certain ignitable or potentially explosive atmospheres where there is a risk of explosion.

It is suitable for particulate and gas applications. The CleanSpace EX respirator can be used with CleanSpace Half Masks (PAF-0033, PAF-1010, PAF-0027) and CleanSpace Full Face Masks (PAF-1014). The Power Unit is compatible with the full range of standard CleanSpace Particulate (P3) and Combined Gas filters and pre-filters.

**Approvals Standards**

- AS/NZS1716: 2012
- IEC 60079-0:2011
- IEC 60079-11:2011
- EN 60079-0:2012
- EN 60079-11:2012

**Classification**

- PAPR-P3 (provides P2 with Half Mask)
- Ex ia I Ma
- Ex ib IIB T4 Gb
- I M1 Ex ia I Ma
- II 2 G Ex ib IIB T4 Gb

**Features**

- Intrinsically safe
- Light weight and comfortable
- High visibility yellow casing for easy recognition
- AirSensit System™ for mask pressure control and breath responsive airflow
- One-button system and standby and auto-start/stop mode for quick don/doffing
- Easy to use support harness
- Altitude compensated filter blocked detection
- Long operating time: up to 8 hours and quick battery recharging: < 2hours
- Easy and accurate flow capability check

**Specifications and materials**

- Filter blocked status
- Battery charge level
- Low battery
- Manufacturers minimum design flow: 120L/min

**Specifications**

- Peak airflow: Up to 220 l/min
- Weight: 540g
- Lithium-ion polymer battery
- Operating time: up to 8 hours
- Battery recharging: less than 2 hours
- Operation temperature range: -10°C to +45°C
- Charging temperature range: 0°C to 35°C
- Storage condition: -10°C to +35°C, 30% to 50% RH
- AC Adaptor charger: Input 100 – 240V, 50 to 60Hz, output 14.7Vdc ±5%, 24W
Suitable Applications for Intrinsically Safe approved sites
- Underground mining requiring “Very High” equipment protection level (Ma) and level “ia” ignition protection to Methane, where constant risk of presence exists.
- Propane and Ethylene gas environment requiring “High” equipment protection Level (Gb) and level “ib” ignition protection, where the presence of such gases is likely to occur (Zone 1).

Suitable Applications (other)

Limitations
- CleanSpace is an air filtering, fan assisted positive pressure mask and is designed to be worn in environments where there is sufficient oxygen to breathe safely. Do not use the CleanSpace in IDLH atmospheres, to protect against gases/vapours that cannot be filtered, or in Oxygen enriched or deficient atmospheres.

CLEANSPACE™ EX POWER UNIT PAF-0060 DATA SHEET

The CleanSpace EX Powered Respirator has the following approvals listed. Below is an outline of the explanations and recommended applications for the Intrinsically Safe approvals.

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Suitable Ex Applications:
- Underground mining requiring “Very High” equipment protection level (Ma) and level “ia” ignition protection to Methane, where constant risk of presence exists.
- Propane and Ethylene gas environment requiring “High” equipment protection Level (Gb) and level “ib” ignition protection, where the presence of such gases is likely to occur but not constantly present (Zone 1).

IECEx Definitions:
- Ignition protection level, ia – for very high protection, ib – for high protection.
- Gas Group, I for methane; II for other gases, where IIA for propane, IIB for Ethylene, IIC for hydrogen; III for dust.
- Equipment protection level for underground mining, Ma for very high protection, Mb for high protection.
- Temperature class, T4 for 135°C, T3 for 200°C.
- Equipment protection level for other gases, Ga – very high protection, Gb – high protection.

ATEX definitions:
- Equipment Group, I for Underground, II for above ground.
- Equipment Category (Protection level), M for underground, M1: Very high protection, M2 for high protection; 1, 2 & 3 for above ground, 1 for very high protection, 2 for high protection, 3 for normal protection. Gas or dust: G for gas, D for dust.