

PRODUCT CODE: PAF-0060

PRODUCT NAME: CleanSpace™ EX Power Unit



#### Description

The CleanSpace EX Power Unit is a powered air purifying respirator (PAPR) when worn together with the following compatible items:

- A CleanSpace Full Face Mask (PAF-1106, PAF-1014), OR
- A CleanSpace EX Half Mask (PAF-0064, PAF-1062, PAF-0063) & Head Harness (PAF-0073), and
- A range of CleanSpace particulate and gas/vapour filters.

It is intrinsically safe and suitable for use in certain ignitable or potentially explosive atmospheres where there is a risk of explosion.

Suitable for environments which require respiratory protection against airborne biohazards, particulates, dust, gas and vapours.

**IMPORTANT:** The CleanSpace Full Face Mask is intrinsically safe approved for IECEx Ex ib IIIB T150 Db only. Check the site requirements for Intrinsically Safe approvals.

Approvals	Standard	Classification*
AS/NZS Respirator Standard	AS/NZS1716: 2012	PAPR-P2 (Half Face), PAPR-P3 (when used with a Full Face Mask)
EN / CE Respirator Standard	EN12942: 1998+A2:2008	TM3
IECEx Standards	IEC 60079-0:2017 IEC 60079-11:2011	Ex ia I Ma Ex ib IIB T4 Gb Ex ib IIIB T150 Db
ATEX / EN Ex Standards	EN 60079-0:2012 EN 60079-11:2012	I M1 Ex ia I Ma II 2 G Ex ib IIB T4 Gb
IECEx Quality Assurance	IEC 80079-34:2011	
ATEX Quality Assurance	Annex IV of Directive 94/9/EC (ATEX)	
EMC Standard	CISPR 11: 2010	Group 1 Class B
	EN 61000-6-2	Industrial Limit
ISO Quality Standard	ISO9001	

\* Specific Classification is dependent on filter used.

#### IEC Ex 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; IIIA for combustible flyings, IIIB for non-conductive 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.
- Temperature class for dusts, T150 - Maximum surface temperature 150°C.
- Equipment protection level for other gases, Ga – very high protection, Gb – high protection.
- Equipment protection level for dusts, Da - very high protection, Db - 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.

#### Features

- Intrinsically safe
- Lightweight, compact and comfortable
- High visibility yellow casing for easy recognition
- AirSensit™ Technology for mask pressure control and breath responsive airflow
- One-button system with standby and auto-start/stop mode for quick don/doffing
- IP66 Rating: Resistant to dust and liquid ingress
- Suitable for decontamination showers and high water use environments
- Easy to use support harness
- Altitude compensated filter blocked detection
- Easy and accurate flow capability check

#### Alarms

- Low Battery
- Filter Blocked

#### Specifications

- Product Weight: 540g
- Peak Airflow: Up to 220 l/min
- Battery: Lithium-ion polymer
- Operating Time: up to 8 hours
- Battery recharging: less than 2 hours
- AC Adaptor Charger: Input 100 – 240V, 50 to 60Hz, output 14.7Vdc ±5%, 24W

#### Use, Charging and Storage Conditions

- Use temperature range: -10°C to +45°C (14°F to +113°F)
- Charging temperature range: 0°C to 35°C (32°F to 95°F)
- Storage conditions: -10°C to +35°C (+14°F to +95°F) at 30% to 50% relative humidity

#### Applications

Suitable for environments which require respiratory protection against airborne biohazards, particulates, dust, gas, and vapours.

Examples: Welding, Woodworking, Manufacturing, Smelting, Construction, Transportation, Recycling Plants, Emergency Services, Mining, Agriculture, Processing Plants, Grinding, Laboratories.

Suitable intrinsically safe certified operations include:

- 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).
- Combustible Flyings and non-conductive dust environment requiring “High” equipment protection Level (Db) and level “ib” ignition protection, where the presence of such dusts is likely to occur (Zone 1).

CleanSpace EX respirators are IP 66 rated and are suitable for asbestos removal and chemical applications where decontamination showers are used.

Refer to [Filter Selection Table](#) for expanded information on applications.

#### Limitations

CleanSpace respirators are air filtering, fan assisted, positive pressure systems and designed to be worn in environments where there is sufficient oxygen to breathe safely. Do not use CleanSpace respirators in immediately dangerous to life or health (IDLH) atmospheres, to protect against gases/vapours that cannot be filtered or in oxygen enriched or deficient atmospheres.



# CleanSpace<sup>®</sup>

R E S P I R A T O R S

CLEANSACE™ EX POWER UNIT | PAF-0060

DATA SHEET

**Education**

Contact [sales@cleanspacetechnology.com](mailto:sales@cleanspacetechnology.com) or visit the [CleanSpace website](#) for details.

**Warranty**

Visit <https://cleanspacetechnology.com/warranty/> to read important Warranty information and complete the Warranty Registration Online Form for CleanSpace Products. Consumable parts are warranted up to the point of use, provided they have been stored correctly and are within their expiry date.

CleanSpace recommends filters are replaced regularly

