

PRODUCT CODE: PAF-0060

PRODUCT NAME: CleanSpace™ EX Power Unit



CleanSpace EX powered respirator has the following approvals. Below is an outline of the explanations and recommended applications for the Intrinsically Safe approvals.

Approval	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 60079-0:2011 IEC 60079-11:2011	Ex ia I Ma Ex ib IIB T4 Gb
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	

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