ESM+ PF33

Intrinsically Safe Powered Air Purifying Respirator

PureFlo™

Data Sheet



The ESM+ PF33 is a self-contained, modular powered air purifying respirator designed for use in medium and heavy-duty industries including smelting, construction, metal recycling and welding.

The PureFlo ESM+ Intrinsically Safe respirator is approved for use in certain types of gas and dust environments where there are potentially explosive atmospheres.

The modular design enables it to be configured to exactly match the required application.

TECHNICAL SPECIFICATION

Weight	1.5kg (nominal)
Head Size Range	54 - 61cm
Protection Factor	Assigned Protection Factor (APF) - 40 Nominal Protection Factor (NPF) - 500
Humidity	0-90% (store out of direct sunlight)
Regulated Airflow	P3 Filter - 220 l/m initial, 170 l/m minimum ABEP3 Filter – 205 l/m initial, 170 l/m minimum
Temperature Range	Charging: +5°C to +40°C Use: -5°C to +40°C Storage: +5°C to +40°C
Power Supply	Battery: 4-cell, nominal 4.8V, capacity 2.2AH per pack Battery Life: 8-hrs (normal air flow, two fully charged battery packs fitted). Charging Method/Rate: Mains charger, 2.5 hrs from fully discharged.

APPROVALS

Respiratory Protection	EN 12941:1998 + A2:2008 TH3P AS/NZS 1716:2012
Head Protection	EN 397:2012+A1:2012
Environmental Protection	IP Rating/Class: IP54Cat2;IP44 ATEX Certificate: CML 18ATEX2404X IECEx Certificate: IECEx CML 18.0213X ATEX Classification: II 3 G D Gas Code: Ex ic IIC T4 Gc Dust Code: Ex ic IIIC T135° Dc Ambient Temperature Range: -5°C ≤ Ta ≤ +40°C
Eye/Face Protection	EN 166:2002 1B39

PRODUCT CONFIGURATION

The PureFlo ESM+ PF33 is configurable for use in a variety of applications. Choose from the hard hat shells and accessories below to configure to your specific needs.

FILTER OPTIONS



P3 High Efficiency
(PR01020SP)



P3 Nuisance Odour
(PR01500SP)



ABEP3
(PR01025SP)

BATTERY OPTIONS



ESM+ Battery
(PR05618SP)



ESM+ Battery Charger
(PR01040SP)

HARD HAT SHELLS



Standard
Yellow
(PR01447SC)



Carbon Print,
Black
(PR01440SC)



White

(PR01448SC)



Hi Viz

(PR01449SC)



Aluminised High
Radiant Heat
(PR01446SC)

VISORS/SHIELDS



Gold Visor
Shade 4/5

(PR01101SP)



Mesh
Visor

(PR01090SP)



Green Visor
Shade 3 – Half
(Polycarbonate)
(PR01092SP)



Green Visor
Shade 3 – Full
(Polycarbonate)
(PR01093SP)



Green Visor
Shade 5 – Full (Acetate)

(PR01094SP)



Welding
Shield

(PR01100SP)

ACCESSORIES



Black
Neck Cape
(PR01475SP)



Spark Shield
Neck Cape
(PR01105SP)



Aluminised
Neck Cape
(PR01097SP)



Molten Metal
Neck Cape
(PR01109SP)



Fire Retardant
Face Seal
(PR01720SP)



Face Shield
Attachment Bar
(PR01153SP)

ELECTRONIC SYSTEMS MANAGEMENT (ESM)

SYSTEM INDICATOR

Power On: Constant red visual indicator for approximately 30 seconds changing to constant green when the operating point is reached.

Low air flow warning: Fast audible alarm, visual indicator flashing red.

Normal operation: Constant green visual indicator.

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Issue 1.1 10/19