

▶ X-plore® 8000

Powered air purifying respirator



Technical specifications

Certifications

EN 12941 with X-plore® 8000 hoods, helmets and visors
 EN 12942 with X-plore® 4740 half masks and X-plore® 6000 and FPS® 7000 full face masks

Ingress protection

IP65 (*dust-tight and resistant to water jets from all sides*)

Airflow

Three adjustable levels (*automatic setting with hood/helmet or half-mask/mask*)

- Half-mask or full face mask: 115, 130 or 145L/min
- Hoods, helmets and visors: 170, 190 or 210L/min

Battery technology

- Standard battery: Lithium-ion 12.6V / 3.4 Ah
- High capacity battery: Lithium-ion 12.6V / 6.8 Ah

Operating time

- Standard battery: 4 hours (*at 210L/min and P3 filter*)
- High capacity battery: 8 hours (*at 210L/min and P3 filter*)

Charging time: Under 4 hours

(*in 2 hours 80% can be reached*)

Weight: Approx. 1,400 g (*X-plore® 8500 with standard battery*)

Alarm system

- Optical alarm (*operating display*)
- Audible alarm (≥ 80 dB(A) at 1 m)
- Vibrating alarm

Belt length: Adjustable between 750 mm and 1,400 mm (*standard and decontamination version*).

Product description

▶ Robust and especially designed for intensive use

The **X-plore 8000** powered air purifying respirator system features heavy-duty design for intensive use with rubber protectors and high ingress protection (IP 65) against dust and water. Protected air intake openings ensure that sparks or water coming from the front will not be sucked into the filter.

▶ Outstanding comfort

The advanced carrying system ensures optimal weight distribution of the unit. The system provides a tight and stable connection between the belt and the unit through a special adaptor plate. The hose connector features a 360° click adaptor. To avoid eye irritation, the system's new headpieces are designed for optimal airflow and maximum comfort.

▶ Self-explanatory operation to minimize user error

The PAPR unit recognizes the connected headgear and automatically selects the correct minimum flow which avoids leakages due to insufficient flow rates. An optical sensor prevents use without filter and ensures the correct display of the particulates filter saturation at any time. The filter system features plug-and-go exchange. In addition to the visual and audio alarm, the unit is also equipped with a vibrating alarm. The entire system features uniform color codes on all exchangeable elements and an error-proof hose connector.

▶ A wide range of components for every application

The **X-plore 8000** offers a number of user-friendly carrying systems for standard and decontamination applications such as half and full-face masks, hoods, and helmets with visor and protective visor. Standard and enhanced flexibility hoses are optionally available and compatibility is ensured.

▶ Easy to maintain

The **X-plore 8000** was designed to be practically maintenance free, leading to low cost of ownership. The self-check systems feature advanced temperature and pressure sensor technology to ensure the right flow rate. The simple and efficient charging system allows rapid charging (*less than 4 hours for an empty battery*). The unit is designed for fast and easy cleaning disassembly.

▶ Available in standard or ATEX versions

The **X-plore 8000** is available in the standard configuration (*X-plore 8500*) and the ATEX configuration (*X-plore 8700*) especially designed for dust or combustible gas explosive zones (1, 2, 21 and 22).

► Filters for X-plore® 8000



X-plore® 8000 powered air purifying respirators feature a complete range of filters to meet almost any industrial application in compliance with the EN12941 standard.

Operating principle: Gases and vapors are removed from ambient air through active carbon absorption. Particles are filtered via a glass microfiber filter.

Compliance : EN 12941 :2009, EN 12942 :2009-02 (system approval in combination with the X-plore 800 powered air purifying respirator)

Material: filter housing in PC-ABS / ABS

Dimensions: 245 x 138 x 100 mm – **Weight:** < 1.1 kg

Packing: Each filter is individually vacuum packed in an aluminum pocket and stored in a cardboard box. (packing unit: 1 unit)

Strip marking: marking with color code in compliant with the EN 12941/12942 standard, lot number and expiration date

Filter type	Main applications	Reference	
Pre-filter	Pre-filter for X-plore 8000 (heavy dust)	67 39 730	
Particle filter	PSL	Solid and liquid particles, radioactive and highly toxic particles	67 39 535
	PSL odor barrier	PSL version, anti-odor with activated carbon	67 39 735
Gas filter	A2	Organic gases and vapors like solvents with boiling point above 65°C	67 39 580
	K2	Ammonia and ammonia organic derivatives	67 39 585
Combined filter	A2-PSL	Organic gases and vapors with boiling point above 65°C, solid and liquid particles, radioactive and highly toxic particles, bacteria and virus.	67 39 545
	A1B1E1-PSL	Organic, inorganic and acid gases and vapors, solid and liquid particles, radioactive and toxic particles, microorganisms like bacteria and virus	67 39 550
	A1B1E1K1Hg-PSL	Organic, inorganic and acid gases and vapors, ammonia and organic derivatives, mercury vapors and mercury compounds, solid and liquid particles, radioactive and toxic particles, microorganisms like bacteria and virus.	67 39 555

Part numbers and accessories

Category	Designation	Reference
Basic unit	X-plore 8500 powered air purifying respirator standard NON-ATEX version (motor, belt, standard battery, charger)	R 59 545
	X-plore 8700 powered air purifying respirator ATEX version (motor, belt, standard battery, charger)	R 59 990
Batteries	Standard battery for X-plore 8000	R 59 565
	High capacity battery	R 59 585
	Standard charger	R 59 580
Breathing hoses	Standard hose for hood	R 59 620
	Flexible hose for hood	R 59 600
	Standard hose for half-mask and full face mask	R 59 630
	Flexible hose for half-mask and full face mask	R 59 610
	Standard hose for helmet or protective visor	R 59 640
	Flexible hose for helmet or protective visor	R 59 650
	Disposable hose protection (any type)	R 59 670
	Sparks protection for hose (any type)	R 59 660
Accessories	Standard belt	R 59 700
	Welding specific belt	R 59 720
	Comfort pad	R 59 730
	Carrying case for X-Plore 8000	R 59 690

► Facepieces



Standard half-hood: covers the head and face but leaves uncovered ears. Lightweight material (145g) and low-priced. Designed for limited use.

- EN 12941 approved – TH3 (in combination with the X-plore® 8500)
- Hood material: PP/PE – polycarbonate visor
- Available in S/M size (52 to 59 cm) or L/XL size (57 to 64 cm) – Weight: approx. 145 g
- Strapping: adjustable strip (neck zone and above the head), sweatband, removable
- Hose connector on the back
- Permeable material for air output in the chin area



Premium half-hood: well-suited for long-term use. Optimized design and cut makes it easy to don and steady. Reinforced chemical resistance.

- EN 12941 approved – TH3 (in combination with the X-plore® 8500 & 8700)
- Resistant to water and oil
- Hood material: PA with PU coating – polycarbonate visor
- Available in S/M size (52 to 59 cm) or L/XL size (57 to 64 cm) – Weight: approx. 200 g
- Premium sweatband. Double-stitched end to avoid any fraying. Can be cleaned and then reused for long-term application
- Permeable material for air output in the chin area



Standard full hood: complete protection of the head, face and neck. Lightweight material (205 g) and affordable, designed for limited use.

- EN 12941 approved – TH3 (in combination with the X-plore® 8500 & 8700)
- Hood material: PP/PE – polycarbonate visor
- Available in S/M size (52 to 59 cm) or L/XL size (57 to 64 cm) – Weight: approx. 205 g
- Strap set: adjustable strip (neck zone and above the head), sweatband, removable
- Hose connector on the back
- Permeable material for air output in the chin area



Complete Premium hood: complete protection of head, face and neck. Well-suited for long-term use. Reinforced chemical resistance.

- EN 12941 approved – TH2 (in combination with the X-plore® 8500 & 8700)
- Hood material: PA with PU coating – polycarbonate visor
- Available in S/M size (52 to 59 cm) or L/XL size (57 to 64 cm) – Weight: approx. 390 g
- Premium sweatband. Double-stitched end to avoid any fraying. Can be cleaned and then reused for long-term application
- Permeable material for air output in the chin area



Protective visor integrated to respiratory protective equipment. Resistant and long-lasting PC visor equipped with a hood that efficiently protects the head from dust.

- EN 12941 approved – TH2 (in combination with the X-plore® 8500 & 8700)
- Hood material: PA with PU coating – polycarbonate visor (32 cm x 15.5 cm)
- Unique size – Weight approx. 490 g
- Adjustable strip (neck zone and above the head), sweatband, removable
- Hose connector on the back
- Ventilation duct above the head – Diffusion air output

► Facepieces



Helmet with visor (available in black or white). Combining efficient head and eyes protection with efficient respiratory protection. The polycarbonate visor is resistant and long-lasting. It can be raised at 90°

- EN 12941 approved – TH2 (in combination with the X-plore® 8500 and 8700)
- Helmet material: ABS – polycarbonate visor (32 cm x 16 cm)
- Unique size – Weight approx. 630 g
- Adjustable strap (neck zone and above the head), sweatband, removable
- Hose connector on the back
- Ventilation duct above the head – Diffusion air output



Respiratory protective half-mask: combines flexible mask body with a preformed nose area for perfect fit, excellent tightness and comfort

- EN 12942 approved – TM2 (in combination with the X-plore® 8500 & 8700)
- Material: Silicon (black) rigid blue body made of durable plastic
- Available in S/M size (160 g) or M/L size (175 g)
- Flange set: robust and flexible neoprene strip (CR/NR), optional drop down fast release
- Standard RD40 (RA) hose connector thread in compliance with the EN 148-1 standard
- Air output: exhalation valve



Full face mask: enlarged field of vision related to the ocular shape and user face positioning

- EN 12942 certified – TM2 (in combination with X-plore® 8500 & 8700)
- Material: resistant and hypoallergenic EPDM – PMMA scratch-resistant visor
- Universal size – Weight 500 g
- SI or EPDM 5 point flange set
- Standard RD40 (RA) hose connector thread in compliance with the EN 148-1 standard
- Air output: exhalation valve



Panoramic mask: very ergonomic and available in several sizes, it offers optimal field of view and comfortable and safe adjustment

- EN 12942 certified – TM3 (in combination with the X-plore® 8500 & 8700)
- Material: resistant and hypoallergenic EPDM – PMMA scratch-resistant visor
- Available in 3 sizes: S (small), M (medium) and L (large) – Weight approx. 600 g
- SI or EPDM 5 point strap set
- Standard RD40 (RA) hose connector thread in compliance with the EN 148-1 standard
- Air output: exhalation valve



High comfort helmet mask with sober and elegant design featuring an auto-darkening ADF 5 to 13 welding filter. For long-term welding applications.

- EN 12941 approved – TH2 (in combination with the X-plore® 8500)
- Filter darkening automatic adjustment: shade range from 9 to 13
- Visor structure material: PA – visor 3 (9 cm x 11 cm)
- Unique size – Weight approx. 780 g
- Removable adjustable sweatband
- Hose connector on the back - Ventilation duct above the head – Diffusion air output