



# Dräger X-plore 8500 Powered Air-Purifying Respirator

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Challenging working environments require a robust and reliable protective solution. The X-plore 8500 powered air-purifying respirator delivers uncompromising respiratory protection against particles, gases and/or vapours combined while ensuring high wearing comfort with no breathing resistance. Benefit from versatile combination options with the X-plore 8000 filter portfolio, a wide range of headpieces, carrying systems and other system components.

# Dräger X-plore 8500

## Automatic hose detection

Smart recognition of the headpiece type with automatic adjustment of the minimum required airflow rate.

## Intuitive user interface

Easy adjustment of airflow rate and clear display of battery status and filter saturation.

## Integrated self-test

Automatic functionality check on start-up ensures unrestricted operational readiness.

## Lithium-ion technology

Operating time between 4 and 20 hours, depending on working conditions, system settings and battery option.

## Advanced sensor technology

Automatic detection of the installed filter and display of the saturation level for particle filters.

## Smart alarm system

Multi-alarm design with dedicated audio, visual and vibration alarms at differentiated risk levels.

## IP65 safety rating

Dust-tight design and effective splash water protection in accordance with IP65 certification enables easy cleaning and decontamination.



# Benefits

## Optimal breathing protection

The X-plore 8500 system reliably filters particles and gaseous particles from the breathing air. The extensive portfolio of filter types offers effective protection against a variety of respiratory risks and hazardous substances, including particles, aerosols, vapours and gases, thus enabling safe working in a wide range of application areas. In combination with a full-face mask, the X-plore 8500 achieves the highest corresponding protection class, TM3. For use with loose-fitting headpieces, such as hoods or helmets, many combinations are also certified to the highest applicable protection class, TH3.

## Outstanding comfort

The X-plore 8500 powered air-purifying respirator is specifically optimised for physically demanding working environments and long work assignments and is extremely comfortable to wear. Thanks to the battery-operated blower and continuous flow operation, the X-plore 8500 eliminates breathing resistance commonly associated with other respiratory protection solutions. Fan-assisted airflow prevents heat build-up in the headpiece and visor fogging. The airflow can be adjusted via three different levels to suit the user's individual requirements, making it easier to work in extreme climatic zones with high temperatures while noticeably reducing strain. The ergonomic design of the blower filter unit also supports this by minimising movement restrictions through consistent weight reduction. Various belt variants or a shoulder carrying system ensure high wearing comfort and optimised weight distribution.

## Reliable customised fit

The X-plore 8500 system can be used in combination with tight-fitting headpieces, such as full-face masks, and loose-fitting headpieces, such as helmets or hoods. Depending on the headpiece variant, different hood or mask sizes, as well as individually adjustable face seals for helmets and visors, provide an optimum seal and protection for the wearer. Thanks to the option of combining it with loose-fitting headpieces, the X-plore 8500 system is also suitable for users with beards or those for whom other respiratory protection solutions are unsuitable due to their individual face shape. This eliminates the need for companies to conduct individual fit tests, which are recommended or specified for other respiratory protection solutions. As a customer, you benefit from significant cost and time savings by eliminating the need for such measures.

## Intuitive and secure user interface

With a consistent focus on intuitive user guidance, the X-plore 8500 system features well-designed operating elements and comprehensive safety functions. On start-up, the device performs an automatic self-test and checks the battery status, filter capacity and volume flow. Unlike many competitor products, it does not require additional tools or accessories. A high level of user safety is also ensured by a redundant alarm system with audible, visual and vibration alarms, which indicate functional limitations such as a low battery level or excessive filter saturation. Automatic filter detection prevents the system from being operated unintentionally without a filter or with an incorrectly inserted one. Automatic hose recognition also distinguishes between tight-fitting and loose-fitting headpieces and sets the minimum required volume flow. The X-plore 8500 thus combines intelligent design with simple control and safe operation.

# Benefits

## Robust and powerful design

The device offers effective protection against dust and splash water in accordance with IP65 certification. The rubber protectors on the sides of the housing and a protected air inlet further increase resistance. Powerful and durable components such as the blower ensure reliable operation and easy maintenance - typically performed manually or with standard tools. Depending on the application scenario, you can choose between two battery types with a capacity of eight or twenty hours. The charge status can be viewed at any time on the control panel or directly on the battery. Dedicated accessories for use in the areas of decontamination complete the system.

## Impressive versatility

The X-plore 8000 series stands for impressive modularity and versatility. With a system approach designed for compatibility, the comprehensive portfolio of headpieces, filters, carrying solutions and accessories can be combined in almost any configuration. Depending on the application context and individual requirements, Dräger offers dedicated respiratory protection solutions for a wide range of industries and application fields, from the construction and steel industries to the pharmaceutical and semiconductor sectors. The basis for this is provided above all by the wide range of loose- or tight-fitting headpieces with different protection classes for breathing, head, face and eyes as well as varying chemical resistance.

# Details



Status display for airflow rate, filter saturation and battery level



Replaceable battery with smart display for charging status



X-plore 8500 system with belt carrying solution



Exemplary combination with loose-fitting headpiece, here X-plore 8000 helmet PC visor HLI



Exemplary combination with tight-fitting headpiece, here FPS 7000.

# System Components

D-3421-2023



## Dräger X-plore 8500 Batteries

Lithium-ion battery for Dräger X-plore 8500 – available as a standard battery with a rated battery life of at least 4 hours\* or as a long-life battery with a rated battery life of at least 8 hours\*.  
(\*at 210 L/min and with particle filter)

D-118938-2013



## Dräger X-plore 8000 Charger

The Dräger X-plore 8000 charging system can charge a flat battery in less than four hours. The battery will be at least 80% charged after two hours. In addition to the Standard Charger, a Multi-Unit Charger is offered. You can connect up to five modules in order to load batteries in parallel.

D-9950-2024



## Dräger X-plore 8000 Filters

The Dräger X-plore 8000 filter series offers an extensive programme of various filter types for all essential application fields and protects against a number of particles, gases and vapours.

D-3426-2023



## Dräger X-plore 8000 Belts

Three belt versions are available for the Dräger X-plore 8000 series: a standard belt, a decon belt (each with an optional belt extension) and a welding belt.

# System Components



D-3443-2023

## Dräger X-plore 8000 Breathing hoses

Dräger X-plore 8000 breathing hoses securely connect X-plore 8000 powered air systems and the X-plore 9300 airline system to compatible headpieces. Dräger offers hoses for both tight-fitting headpieces like half or full-face masks and loose-fitting options like helmets or hoods, for which flexible and robust versions also available.



D-9105-2023

## Dräger X-plore 8000 Helmets

Helmet options in the Dräger X-plore 8000 series provide combined head and respiratory protection with high comfort. Different lengths and materials for the neck seal allow quick and easy adaptation to specific applications. These helmets are compatible with all powered air-purifying respirators in the Dräger X-plore 8000 series and the Dräger X-plore 9300 airline device.



D-9134-2023\_D-9119-2023

## Dräger X-plore 8000 Welding Visors

Dräger X-plore 8000 Welding Visors offer reliable protection for the eyes and face. Regardless of whether you are dependent on ambient air or working independently, the welding visors are an integral part of our X-plore 8000 powered air-purifying respirator system and X-plore 9300 compressed air line device.



D-3434-2023

## Dräger X-plore 8000 Face Shield

The Dräger X-plore 8000 face shield provides effective protection for the eyes and entire face. As an integral part of the X-plore 8000 series, it is compatible with X-plore 8000 powered air purifying respirators and the X-plore 9300 airline device.

# System Components

D-15897-2024



## Dräger X-plore 8000 Head Pieces with Hood

The Dräger X-plore 8000 helmet/bump cap and hood combination provides reliable protection in heavily polluted or contaminated environments. The combination of head protection and hood is an integral part of our Dräger X-plore 8000 powered air-purifying respirator systems and our Dräger X-plore 9300 compressed air line device.

D-12004-2024



## Dräger X-plore 8000 Hoods

The Dräger X-plore 8000 hoods are essential components for the X-plore 8000 powered air-purifying respirators for ambient air applications and are also compatible with the Dräger X-plore 9300 airline device for independent air supply applications. The hoods are available in various lengths and offer light and comfortable protection with the highest safety level for open headpieces.

D-12807-2024



## Dräger X-plore 4700

The Dräger X-plore 4700 is the robust half mask which offers excellent comfort and outstanding leak tightness for demanding applications. Thanks to the wide range of filters available for protection against gases, vapours and particles, it is ideally suited for use in a variety of industries.

D-2241-2024



## Dräger X-plore 6300

The Dräger X-plore 6300 is the efficient yet low-cost full face mask intended for price-conscious users not wishing to compromise on comfort or quality. This full face mask is the successor to the Panorama Nova Standard, a mask which has proven itself over decades of use worldwide – redesigned and improved with fresh colours and an integrated barcode.

## System Components

D-4985-2024



### Dräger FPS 7000

The Dräger FPS 7000 full face mask series is characterised by a high degree of safety and optimum wearing comfort. Thanks to its proven design and the different sizes, it offers a tight and comfortable fit. The combination of the mask shape with the geometry of the visor offers you a large field of vision.

## Accessories

D-119051-2013



### Dräger X-plore 8000 Comfort Pad

The Dräger X-plore 8000 standard belt can be enhanced with a comfort pad, thus offering additional wearing comfort.

D-43805-2015



### Dräger X-plore 8000 Shoulder Carrying System

The shoulder carrying system can be combined with all Dräger X-plore 8000 belt versions and offers better distribution of weight.

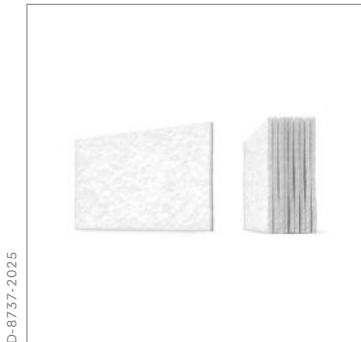
# Accessories



D-0972-2020

## Dräger X-plore 8000 Unit Cover

The unit cover protects the Dräger X-plore 8500 and 8700 (EX) against dirt and dust thereby making cleaning easier. It is pulled over the device incl. the filter like a protective cover.



D-8737-2025

## Dräger X-plore 8000 Prefilter

For use with Dräger X-plore 8000 particle or combination filters in order to extend the usage period.



D-8746-2025

## Dräger X-plore 8000 Odour Filters

For use with Dräger X-plore 8000 particle filters in order to filter out annoying odours.

# Technical Data

## Dräger X-plore 8500

Approvals*	EN 12941 - TH3 with Dräger X-plore 8000 hoods, helmets and visors
	EN 12942 - TM2 with Dräger X-plore 4740 half masks / TM3 with Dräger X-plore 6000 and Dräger FPS 7000 full-face masks
Ingress protection	IP65 (6=Protection against dust ingress, 5=Water jets from all directions)
Airflow	Automatic setting of operating type: loose- or tight-fitting headpiece;  Adjustable in three levels: Half and full-face mask: 115, 130 or 145 l/min Hoods, Helmets and Visors: 170, 190 or 210 l/min
Battery technology	Lithium-ion technology  Standard battery: Nominal voltage: 10.8 V Nominal capacity: 3.55 Ah  High-capacity battery: Nominal voltage: 10.8 V Nominal capacity: 6.70 Ah
Operating time**	Standard battery: 4 - 8 High-capacity : 8 - 20 hours
Charging time	approx. 4 hours (up to 80 % can be charged in two hours)
Weight	approx. 1,400 g (Dräger X-plore 8500 incl. standard battery and splash guard lid)
Alarm system	Visual alarm (display on control panel) Audible alarm ( $\geq 80$ dB(A) at 1 m) Vibration alarm
Belt length	Adjustable between 700 mm and 1,400 mm (standard belt and decontaminable belt)
Belt extension	350 mm (standard belt and decontaminable belt)

\* For exceptions, see technical data sheet

\*\* Dependent on the set air flow and the breathing connection and filter type used.

# Ordering Information

Component	Description	Order number
Blower unit	Dräger X-plore 8500	R59500
Batteries	Dräger X-plore 8000 Standard battery	R59565
	Dräger X-plore 8000 High-capacity battery	R59585
Charger	Dräger X-plore 8000 Standard charger	R59780
	Dräger X-plore 8000 Multi-unit charger, 1 module w/o cable	R59890
	Dräger X-plore 8000 Multi-unit charger, 1 module w/ EU cable	R59950
	Dräger X-plore 8000 Multi-unit charger, 1 module w/ UK cable	R59960
	Dräger X-plore 8000 Multi-unit charger, 1 module w/ AUS cable	R59970
	Dräger X-plore 8000 Multi-unit charger, 1 module w/ USA cable	R59980
	Carrying systems	Dräger X-plore 8000 Standard belt
Belt extension for Dräger X-plore 8000 Standard belt, 35 cm		R59750
Dräger X-plore 8000 Comfort pad		R59730
Dräger X-plore 8000 Decon belt		R59710
Belt extension for Dräger X-plore 8000 Decon belt, 35 cm		R59760
Dräger X-plore 8000 Welding belt		R59720
Dräger X-plore 8000 Shoulder carrying system		R59740
Dräger X-plore 8000 Backpack carrying system		3717360

# Ordering Information

Breathing hoses	Standard hoses	Dräger X-plore 8000 Standard hose (for half- and full-face masks)	R59630
		Dräger X-plore 8000 Standard hose (for helmets, visors and hoods)	R59620
	Flexible hoses	Dräger X-plore 8000 Flexible hose (for half-and full-face masks)	R59610
		Dräger X-plore 8000 Flexible hose (for helmets, visors and hoods)	R59600
		Dräger X-plore 8000 Heavy duty hose (for helmets, visors and hoods)	3717390
	Prefilter	Dräger X-plore 8000 Prefilter	6739730
		Dräger X-plore 8000 Odour filter	6739605
		Dräger X-plore 8000 Odour filter, set	6739735
	Particle filter	Dräger X-plore 8000 Filter P R SL	6739535
	Gas filter	Dräger X-plore 8000 Filter A2	6739580
		Dräger X-plore 8000 Filter K2	6739585
	Combination filter	Dräger X-plore 8000 Filter A2 P R SL	6739545
		Dräger X-plore 8000 Filter A1B1E1 P R SL	6739550
		Dräger X-plore 8000 Filter A1B1E1K1 Hg P R SL	6739555
Accessories	Dräger X-plore 8000 Storage box	R59690	
	Dräger X-plore 8000 Unit cover	R59880	
	Dräger X-plore 8000 Hose cover, disposable	R59670	
	Dräger X-plore 8000 Hose cover, spark proof	R59660	
Headpieces	Half masks, full-face masks, hoods, head protection-hood combination, face shields, helmets, welding visors	Detailed information on our extensive portfolio of X-plore 8000 headpieces can be found in the respective separate product information.	

Please adhere to the instructions for use to ensure the required safety precautions for specific applications are fulfilled.

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