Dräger X-plore 8700 Powered Air-Purifying Respirator

Potentially explosive work areas place special demands on personal protective equipment, such as respiratory protection. Thanks to its ATEX and IECEx certification and dedicated safety functions, the X-plore 8700 blower filter system is the ideal companion for working in potentially explosive atmospheres. The system thus offers reliable protection against particles, vapours and gases combined with a high level of wearing comfort, even in Ex zones 1, 2, 21 and 22.

Dräger

Technology for Life

Dräger X-plore 8700

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

Redundant safety circuits
Increased reliability to ensure safe operations even in the unlikely event of failure of one circuit.

Rapid overcurrent shutdown
Prevents spark formation at the battery contacts. Operating time between 4 and 20 hours, depending on working conditions, system set-up and battery option.

Encapsulation of high-voltage components
Insulation of electronic components from the external atmosphere for safe operation in potentially explosive atmospheres.

D-9952-2024

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.

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

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

Benefits

Consistent explosion protection

The X-plore 8700 is specifically designed for work areas that require explosion protection and offers dedicated ATEX and IECEx safety functions accordingly. These include a fast, automated overcurrent shutdown that prevents sparking at the battery contacts and the encapsulation of high-voltage components to consistently isolate electronic components from the outside atmosphere. Redundant safety circuits ensure safe operation and continued protection of the user even in the unlikely event of a circuit failure. Thanks to the explosion-proof design, the X-plore 8700 blower unit can be used in Ex zones 1, 2, 21 and 22. The IP65 certification also guarantees effective protection against dust and splash water.

Optimal breathing protection

The X-plore 8700 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.

Outstanding comfort

The X-plore 8700 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 8700 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 8700 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 8700 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.

Benefits

Intuitive and secure user interface

With a consistent focus on intuitive user guidance, the X-plore 8700 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 8700 thus combines intelligent design with simple control and safe operation.

Impressive versatility and cleanroom suitability

The X-plore 8000 series stands for impressive modularity and versatility. With an extensive portfolio of headpieces, filters, carrying solutions and accessories and numerous combination options, the X-plore 8700 can be configured for a wide range of application scenarios. In combination with the long X-plore 8000 premium hood version and a decontaminable carrying system, the PAPR system is also suitable for use in cleanrooms, and is approved for ISO class 4 cleanrooms and analogue A/B areas in accordance with Annex 1 of the European Medicines Agency (EMA).

Details

D-3477-2023

Status display for airflow rate, filter saturation and battery level

D-15966-2024

Replaceable battery with smart display for charging status

D-3423-2023

X-plore 8700 system with belt carrying solution

D-15967-2024

Exemplary combination with loose-fitting headpiece, here X-plore 8000 helmet PC visor HL1

D-15965-2024

Exemplary combination with tight-fitting headpiece, here FPS 7000

System Components

D-3421-2023

Dräger X-plore 8000 Batteries (Ex)

ATEX-certified lithium-ion battery for Dräger X-plore 8700 - 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 particle filter).

D-10035-2025

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 program 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 Carrying Systems

Three hip carrying options are available for the Dräger X-plore 8000 system: a standard textile belt, a decontaminable belt (each with an optional belt extension) and a heat-resistant leather version. We also offer a backpack carrying system as an alternative carrying option.

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 are 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

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-119-2025

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.

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-10069-2025

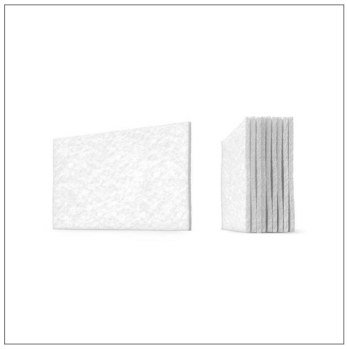
Dräger X-plore 8000 Shoulder Carrying System

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

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.

Accessories

D-8746-2025

Dräger X-plore 8000 Odor Filters

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

Technical Data

Dräger X-plore 8700	
Approvals	NIOSH - 42 CFR 84 with Dräger X-plore 8000® hoods, helmets, face shield, X-plore® 6000 and FPS 7000 full-face masks ATEX* II 2G Ex ib IIB T4 Gb (gas) II 2D Ex ib IIIB T135 °C Db (dust) I M2 Ex ib I Mb (underground mining) TA: -10 °C < Ta < +50 °C IECEx* Ex ib IIB T4 Gb (gas) Ex ib IIIB T135 °C Db (dust) Ex ib I Mb (underground mining) TAMB: -10 °C < Ta < +50 °C
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: Full-face mask: 115, 130 or 145 l/min Hoods, Helmets and Visors: 170, 190 or 210 l/min
Battery technology	ATEX approved lithium-ion technology Standard battery: Nominal voltage: 10.8 V Nominal capacity: 3.20 Ah High-capacity battery: Nominal voltage: 10.8 V Nominal capacity: 6.40 Ah
Operating time**	Standard battery: 4 - 8 High-capacity battery: 8 - 20 hours
Charging time	approx. 4 hours (up to 80 % can be charged in two hours)
Weight	approx. 1.530 g (3.3 lbs) (Dräger X-plore 8700 incl. standard battery and splash guard lid)
Alarm system	Visual alarm (display on control panel) Audible alarm (≥ 80 dB(A) at 1 m) Vibration alarm
Belt length	Adjustable between 700 mm (27.5 in) and 1,400 mm (55 in) (standard belt and decontaminable belt)
Belt extension	350 mm (13.8 in) (standard belt and decontaminable belt)
	• The welding visors, the welding belt, the disposable hose cover and the heavy duty hose must not be used in potentially explosive atmospheres. • The standard long hood may only be used in potentially explosive dust atmospheres IIIB.

* 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 8700 (EX)	R59550
Batteries		Dräger X-plore 8000 Standard battery (Ex)	R59575
		Dräger X-plore 8000 High-capacity battery (Ex)	R59595
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/ USA cable	R59980
Carrying systems		Dräger X-plore 8000 Standard belt	R59700
		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 (13.8 in)	R59760
		Dräger X-plore 8000 Welding belt	R59720
		Dräger X-plore 8000 Shoulder carrying system	R59740
Breathing hoses	Standard hoses	Dräger X-plore 8000 Standard hose (for 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 full-face masks)	R59610
		Dräger X-plore 8000 Flexible hose (for helmets, visors and hoods)	R59600
Filter	Prefilter	Dräger X-plore 8000 Prefilter	6739730
		Dräger X-plore 8000 Odor filter	6739605
		Dräger X-plore 8000 Odor filter, set	6739735
	Particle filter	X-plore 8000 Filter HE	6739540
	Gas filter	X-plore 8000 Filter OV	6739575
		X-Plore 8000 Filter Multigas (CL/HF/AM/MA/FM/HS/SD/HC)	6739590
	Combination filter	X-plore 8000 Filter OV/HE	6739560

Ordering Information

		D X-plore 8000 Filter OV/AG/HE	6739565
		X-Plore 8000 Filter MultiGas/HE (CL/HF/AM/MA/FM/HS/SD/HC/HE)	6739570
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	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.			

Notes

Not all products, features, or services are for sale in all countries. Trademarks mentioned herein are the property of its respective owner. Trademarks may be owned by Drägerwerk AG & Co. KGaA (Dräger) or its affiliates in certain countries and not necessarily in the country in which this material is released. Visit www.draeger.com/trademarks for the current status of Dräger's trademarks.

Corporate Headquarters
Drägerwerk AG & Co. KGaA
Moislinger Allee 53–55
23558 Lübeck, Germany
www.draeger.com

USA
Draeger, Inc.
7256 S. Sam Houston Parkway.,
Suite 100
Houston , TX 77085
1 800 4DRAGER
(1 800 437 2437)

Canada
Draeger Safety Canada Ltd.
2425 Skymark, Ave Unit
Mississauga, Ontario L4W 4Y6
1 877 DRAGER1
(1 877 372 4371)

Locate your Regional Sales Representative at:
www.draeger.com/contact

DMC-113340 | 25.09-I | AP | Subject to modifications | © 2025 Drägerwerk AG & Co. KGaA