Dräger X-plore 8300 Powered Air-Purifying Respirator

Reliable respiratory protection against harmful particles with no noticeable breathing resistance or restriction to movement: The Dräger X-plore 8300 is the smallest and lightest PAPR device in its class, offering maximum protection and comfort. The powered air-purifying respirator integrates seamlessly with the X-plore 8000 product range and can be combined with various X-plore 8000 headpieces, hoses and a wide range of carrying options and accessories.

Dräger

Technology for Life

Dräger X-plore 8300

Intuitive user interface
Clear display for battery status, filter saturation and airflow rate. One-button operation for turning the device on and off, controlling airflow rate and checking battery status.

IP67 safety rating
Reliable protection against dust and water with optimised cleaning capability. IP67-rated when used with washing plugs.

Secure bayonet-type mount
Precise filter positioning and secure locking for fast and easy filter mounting.

D-16452-2024

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

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

Smart alarm system
Multi-alarm design with dedicated audio and visual warnings in case of functional limitations or faults.

Powerful battery
High-performance battery with up to 10 hours of runtime and quick-charging capability.

Benefits

Outstanding comfort

The lightest and most compact powered air-purifying respirator in its class, the X-plore 8300, combines reliable protection against particle exposure with the highest level of comfort. In demanding work environments and during long shifts, users benefit from the reduced weight and unrestricted freedom of movement. The powered air-purifying respirator is a system solution that can be paired with various waist belts and backpack options that ensure ergonomics and optimised weight distribution.

Thanks to the battery-operated blower and continuous flow operation, the X-plore 8300 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 in two levels to suit individual requirements and environmental conditions. The user can breathe easily, even during physically demanding tasks or extended application times.

Optimal protection

The X-plore 8300 powered air-purifying respirator is compatible with a wide range of headpieces. Depending on the type of headpiece, the system achieves the highest respiratory protection class TH3 for helmets, visors and hoods, or the equivalent TM3 for full-face masks. Due to its continuous flow operation, the X-plore 8300 system is suitable for users with facial hair or face shapes that may compromise the seal of other respiratory solutions, eliminating the need for time-consuming, costly individual fit tests.

Enhanced operational safety

The X-plore 8300 is designed with high operational safety in mind. Its design minimises the risk of user errors, and a range of automated safety features eases the user's workload and allows them to focus fully on the task at hand. The device conducts an automatic self-test on start-up to ensure full functionality, allowing users to begin work without a manual pre-test.

A redundant alarm system with audible and visual alerts notifies users of limitations, such as low battery or increased filter saturation. An RFID sensor automatically recognises the connected hose type and adjusts the minimum required airflow based on the headpiece type. The system distinguishes between loose-fitting headpieces like helmets, hoods, visors and tight-fitting types like full-face and half masks. If the breathing hose is incorrectly connected or not securely attached, the device reliably warns the user. As an added safety measure, the attached hose also locks the filter's bayonet connection, preventing accidental disconnection during confined space work.

Intuitive operation

As the newest addition to the X-plore 8000 range, the X-plore 8300 system has been designed from the ground up with a focus on simplicity and ease of use. Its intuitive user interface provides a clear overview of all relevant performance parameters, with airflow rate, filter saturation and battery status continuously displayed. As filter saturation increases, the device automatically adjusts fan speed to maintain the desired airflow to the headpiece. The particle filter is easily and securely installed with Dräger's bayonet mount design.

The one-button operation enables quick and easy device start-up, with the raised button design ensuring safe operation even with safety gloves. The battery status can be displayed before starting the device by pressing the power button briefly. Turning the unit on and off requires a longer press to prevent accidental shut-off during use. During operation, a quick press of the button switches between the two flow rates.

Benefits

Robust and powerful design

Like all Dräger protective equipment, the X-plore 8300 system is built for safe use in challenging work environments. With its IP67 rating, it is optimally suited for manual and machine cleaning. An optional spark arrestor protects the particle filter from sparks and provides added impact protection, expanding the system's application range to include welding, cutting and grinding tasks.

The X-plore 8300 powered air-purifying respirator is equipped with a high-performance battery with up to 10 hours of runtime, depending on system configuration and flow rate. A quick-charge feature allows the battery to charge up to 80% in two hours, with short charges during breaks significantly extending device runtime. High-performance, durable components, like the blower, ensure reliable operation with minimal maintenance requirements. All essential maintenance tasks, such as battery and blower replacement, can be performed independently and on-site by trained personnel.

Thorough cleanability

Working in highly contaminated environments or ultra-clean labs demands maximum cleanability of protective equipment. The X-plore 8300 meets this requirement with smooth surfaces, generous radii and minimal gaps. This significantly simplifies the cleaning and decontamination process. For especially sensitive applications, the device can be machine-washed with two washing plugs for the blower inlet and hose connection, achieving the required IP67 rating. Thanks to its sophisticated design and with its IP67 rating, the X-plore 8300 system can also be cleaned in a decon shower during operation.

Details

D-16457-2024

X-plore 8300 PAPR unit and X-plore 8300 Filter P R SL

D-16458-2024

Status display for airflow rate, filter saturation and battery level

D-16459-2024

X-plore 8300 with standard charger

D-16857-2024

Example combination X-plore 8300 with X-plore 8300 standard backpack carrying solution

D-16858-2024

Example combination X-plore 8300 with standard belt

D-16454-2024

X-plore 8300 PAPR unit with washing plugs for machine cleaning and IP67 rating

System Components

D-16448-2024

Dräger X-plore 8300 Charger

A standard charger is available for the integrated battery of the X-plore 8300 unit. This charging solution offers quick-charging capability, fully charging the battery in around four hours.

D-16858-2024

Dräger X-plore 8300 Belts

Three waist-carrying options are available for the Dräger X-plore 8300 unit. In addition to a textile standard belt for industrial and craft applications, a decontaminable belt offers easier cleanability, and a leather belt provides enhanced durability for welding and other demanding tasks.

D-16864-2024

Dräger X-plore 8300 Backpack

For users preferring back positioning, a backpack system is available for the Dräger X-plore 8300 unit. The textile standard backpack is ideal for e.g. industrial and crafts applications.

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.

System Components

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.

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.

System Components

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-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.

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.

Accessories

D-16446-2024

Dräger X-plore 8300 Spark Arrestor

The optional X-plore 8300 spark arrestor reliably protects the underlying particle filter from sparks, allowing safe use of the X-plore 8300 system for welding, torch cutting, and grinding tasks. The rubberised material also provides additional impact protection for the X-plore 8300 powered air-purifying respirator.

D-16455-2024

Dräger X-plore 8300 Washing Plugs

For machine cleaning the X-plore 8300 PAPR unit, two washing plugs for the blower inlet and the hose connection are available. With both plugs, the X-plore 8300 unit achieves the IP67 rating needed for machine cleaning, protecting it against temporary water immersion.

Technical Data

Approvals	EN 12941 System approval with X-plore 8000 helmets, hoods, visors, welding visors
	EN 12942 TM2 system approval with X-plore 4740 half masks
	EN 12942 TM3 system approval with X-plore 6300, 6530, 6570 full-face masks and FPS 7000 full-face masks
	AS/NZS 1716 System approval with X-plore 8000 helmets, hoods, visors, welding visors, 4740 half masks, 6300, 6530, 6570 full-face masks and FPS 7000 full-face masks
IP protection rating	IP67 (6=protection against dust ingress, 7=protection against water ingress during temporary immersion). Only when used with official washing plugs for blower inlet and hose connection.
	IP65 (6=protection against dust ingress, 5=resistant to water jets from all side). When used with mounted filter and mounted hose.
Airflow	Automatic recognition of attached breathing connection: loose or tight-fitting headpiece
	Universal edition: Half and full-face masks: 120 and 145 L/min Hoods, helmets and visors: 175 or 210 L/min Special edition: Full-face masks: 160 and 185 L/min
Battery technology	Lithium-ion technology
Operating time	6-10 hours (depending on device settings and configuration)
Battery charging time	approx. 4 hours (up to 80% charge in 2 hours)
Weight	Approx. 635 g (incl. battery, without filter)
Dimensions	180 x 52 x 110 mm (without filter)
Alarm system	Visual alarm (displays on operating panel) and audible alarm
Belt length	Adjustable between 700 mm and 1,400 mm (standard, leather and decontaminable belts)
Belt extension	350 mm (standard and decontaminable belts)

Ordering Information

Component	Description	Part number
Blower units	Dräger X-plore 8300 Universal Edition	3732600
	Dräger X-plore 8300 Special Edition	3732605
Charger	X-plore 8300 Standard charger	3732635
Carrying systems	X-plore 8300 Standard belt	3732640
	Belt extension for X-plore 8000 standard belt	R59750
	X-plore 8300 Decontaminable belt	3732641
	X-plore 8300 Belt extension (decontaminable)	3732644
	X-plore 8300 Leather belt	3732642
	X-plore 8300 Standard backpack	3732645
	Belt holder	R59707
	Snap buckle, set (for standard belt)	R59715
Breathing hoses	X-plore 8000 Heavy duty hose (helmet/visor/hood)	3717390
	X-plore 8000 Flexible hose (helmet/visor/hood)	R59600
	X-plore 8000 Flexible hose (masks)	R59610
	X-plore 8000 Standard hose (helmet/visor/hood)	R59620
	X-plore 8000 Standard hose (masks)	R59630
Filter	X-plore 8300 Filter P R SL	3732610
Accessories	X-plore 8300 Spark arrestor	3732616
	X-plore 8000 Washing plug (hose connection)	3732631
	X-plore 8300 Washing plug (blower inlet)	3732632
	X-plore 8000 Dust plug (hose connection)	R59563
	X-plore 8300 Service cable	3732649
	X-plore 8000 Hose cover, disposable	R59670
	X-plore 8000 Hose cover, spark guard	R59660
	X-plore 8000 Flow-rate measuring tube	R59566
Headpieces	Half masks, full-face masks, hoods, head protection-hood-combination, visors, helmets	Please see separate product information

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