



Technical Datasheet

Dräger X-plore 8300

Powered Air Purifying Respirator

1. General Data

1.1	Manufacturer	Dräger Safety AG & Co. KGaA Revalstraße 1, D – 23560 Lübeck, Germany
1.2	Designation	X-plore 8300 Powered air-purifying respirator
1.3	Dräger part no.	3732600 - X-plore 8300 PAPR unit (universal) 3732605 - X-plore 8300 PAPR unit (masks 160 l/min)
1.4	GTIN / EAN	3732600: 04048675782964 3732605: 04048675782971
1.5	Intended use	The powered air-purifying respirator protects the user from particles in the ambient air.
	Restriction of the intended use	The Powered Air-Purifying Respirator Dräger X-plore 8300 is not suitable: • for protection against harmful vapours and gases • for use in unventilated containers, pits, ducts, etc. • in the case of pollutant concentrations that pose an immediate risk to life or health (so-called IDLH concentrations) • for use in potentially explosive atmospheres.
1.6	Functional description	The powered air purifying respirator is a respiratory protective device depending on circulating air. It filters the ambient air and makes it available as breathable air. The device continuously takes in ambient air through the filter. The filter absorbs harmful substances depending on the filter type. In this way, the ambient air is recycled and finally reaches the facepiece. There it is available as breathable air. A continuous overpressure in the facepiece prevents ambient air from penetrating.
1.7.	Approvals	Note: For the exact respiratory protection class with the corresponding headpieces, please refer to the document 9300998 X-plore 8300 Notes on Approval
1.7.1	Respiratory protection	EN 12941:2023 TH3 or TH2 System approval in combination with Dräger X-plore 8000 helmets, hoods, protective visors, welding visors
		EN 12942:2023 TM3 System approval in combination with Dräger X-plore 6300, 6530 and 6570 full-face masks and Dräger FPS 7000 full-face masks
		EN 12942:2023 TM2 system approval in combination with Dräger X-plore 4740 half masks (Only in combination with R59610 - X-plore 8000 flexible hose masks)
		AS/NZS 1716:2012 System approval in combination X-plore 8000 helmets, hoods, visors, welding visors, 4740 half masks, 6300, 6530, 6570 full-face masks and FPS 7000 full-face masks
		NIOSH: Approval in progress
1.7.2	Protection class	IP 67 (6 dustproof, 7-protected against temporary immersion) (Only in combination with wash plug hose connection 3732631 & wash plug blower inlet 3732632) IP65 (6-dustproof, 5-resistant to water jets from all side) (with mounted filter and connected hose)

2. Design / Components & technical data

2.1	Design	A complete system includes the following components:
		Blower unit inclusive installed long-term battery
		Particle filter
		Carrying system (Standard belt, decon belt, welding belt or backpack carrying system)
		Hoses (Standard- or Flexible hose masks Standard- or Flexible hose Helmet/Visor/Hoods or Heavy duty hose Helmet/Visor/Hoods)
		Headpiece (Helmet, Visor, Hood, Welding visors, Half or Full-face mask)
2.2	Blower unit	
	Dimensions (LxWxH)	180 x 110 x 52 mm (without Filter & with hose connection)
	Dimensions (LxWxH)	180 x 153 x 52 mm (with Filter & with hose connection)
	Weight	635 g (incl. battery, without Filter)
2.3	Battery	
	Technology	Lithium-Ion-Battery
	Storage temperature	-20 °C to 60 °C
	Charging temperature	0 °C to 35 °C
	Charging time	>80 % after 2 h charging (at a room temperature of approx. 35 °C)
	Rated period of service	8 h
	Minimum operating time in accordance with EN 1294x at max. volume flow rate	X-plore 8300 PAPR (Universal) [3732600]: - Hoods/Helmets/Protective visors: 7 hours - Half/Full face masks: 6 hours X-plore 8300 PAPR (Spezial) [3732605]: - Half/Full face masks: 5 hours
	Rated voltage	14,4 V
	Rated capacity	3,5 Ah
	Output power	50,4 Wh
	Weight	approx. 200g
	Construction	Permanently installed in the blower unit
	Service	Battery can be replaced in case of service

2.3.1	Standard charger	
	Part number	3732635
	Input voltage	100 V AC to 240 V AC +10 %/-10 % 50 Hz to 60 Hz
	Input current	0,6 A to 0,3 A at maximum load
	Output voltage	18 V DC +5 % / -5 %
	Output current	1670 mA
	Operating temperature	0 °C to 35 °C, ≤ 95 % relative humidity, non-condensing
	Storage temperature	-40 °C to 70 °C, 10 % to 90 % relative humidity
	IP protection class	IP 40 (4- Protection against solid foreign objects ≥ 1 mm, 0- No protection against water)
2.4	Carrying system	
2.4.1	Standard belt	(Only one length)
	Part number	3732640
	Description	The standard belt has a textile webbing strap which have to be passed through the tabs on the unit
	Material	Polyester (woven)
	Length range	approx. 700 to 1400 mm
	Weight	120 g
2.4.2	Decon belt	(Only one length)
	Part number	3732641
	Description	The decorative belt has a smooth plastic webbing and is designed for easy cleaning and disinfection. The belt must be passed through the tabs of the blower unit. The buckle is also designed and optimized for appropriate cleaning processes.
	Material	Polyester with PVC (polyvinyl chloride) coating
	Length range	approx. 700 to 1400 mm
	Weight	approx. 260 g
2.4.3	Belt Extension	An optional belt extension (350 mm) is available for the X-plore 8300 standard belt. Part number R59750
		An optional belt extension (350 mm) is available for the X-plore 8300 decon belt. Part number 3732644

2.4.4	Leather belt	
	Part number	3732642
	Description	The leather belt has a strap made of 100% leather and is suitable for welding applications, for example. The belt must be passed through the tabs of the blower unit.
	Material	100 % Leather
	Length range	approx. 700 to 1400 mm
	Weight	approx. 230 g
2.4.5	Standard Backpack carrying system / textile	
	Part number	3732645
	Description	The backpack carrying system serves as a carrying option for better weight distribution for use with the Dräger X-plore 8300 powered air purifying respirator. The retaining strap must be passed through the straps of the blower unit.
	Straps 20/ 25/ 50mm	Polyester
	Elastic webbing	Polyester with Latex
	Mesh inside/ outside	Polyester
	Foam	EPE (expanded polyethylene)
	Closures	POM (Polyoxymethylene)
	Edge binding	PP (Polypropylene)
	Weight	270 g
2.5.	Breathing hoses	
2.5.1	Standard hose Helmet/Visor/Hood	
	Part number	R59620
	Dimensions (Length / Outer-Ø)	688 mm / Ø 32 mm
	Weight	164 g
2.5.2	Flexible hose Helmet/Visor/Hood	(Length specifications for flexible hoses: block length/hanging)
	Part number	R59600
	Dimensions (Length / Outer-Ø)	442/791 mm / Ø 32 mm
	Weight	225 g

2.5.3	Heavy duty hose Helmet/Visor/Hood	
	Part number	3717390
	Dimensions (Length / Outer-Ø)	814 mm + - 25 mm Ø 32 mm
	Weight	371 g
2.5.4	Standard hose Half- and Full face mask	
	Part number	R59630
	Dimensions (Length / Outer-Ø)	952 mm / Ø 32 mm
	Weight	185 g
2.5.5	Flexible hose Half- and Full face mask	(Length specifications for flexible hoses: block length/hanging)
	Part number	R59610
	Dimensions (Length / Outer-Ø)	615/1.147 mm / Ø 32 mm
	Weight	232 g
2.6	Filter	
	Part number	3732610
	Description	The X-plore 8300 system is used exclusively with particulate filters P: Particles R: Reusable S: Solid L: Liquid
	Weight	unloaded approx. 180g
	Construction	Compact and integrated filter design
	Assembly	Bayonet connection (30 degrees rotatable)

3. Technical data blower Unit

3.1	Flow rate	Automatic identification of the attached facepiece and corresponding adjustment of the minimum flow rate.
	Volume flow range	X-plore 8300 PAPR (Universal) [3732600]
	Hoods / Helmets / Visors	175/ 210 L/min
	Half / Full face masks	120/ 145 L/min
	Volume flow range	X-plore 8300 PAPR (Mask 160 l/min) [3732605]
	Half / Full face masks	160/ 185 L/min
3.2	Alarm system	Malfunctions during operation are indicated by warning devices
	Optical alarm	Display on control panel
	Acoustic alarm	>75 dB
3.3	Operating temperature	-10 °C to 60 °C
3.4	Storage temperature	-20 °C to 60 °C (incl. battery)
3.5	Operating / storage area humidity	≤ 95 % relative humidity
3.6	Noise level	≤ 60 dB(A)
3.7	Operating altitude	-150 m below to 2500 m above sea level

4. Cleaning

4.1	Authorised and Released Agents	• Suma Jade Pur-Eco L8 (Reinigungsmittel) • Neodisher MediClean forte (Reinigungsmittel) • Neodisher Dekonta AF (Reinigungs- und Desinfektionsmittel) • Suma Med neutral (Neutralisierungsmittel) • Neodisher Polyklar (Neutralisierungsmittel)
4.2	Concentrations of the agents used	• Suma Jade Pur-Eco L8: 0,4 % • Neutralizing agents for Suma Jade Pur-Eco L8: Suma Med neutral 0,05 % bis 0,1 % • Neodisher MediClean Forte: 0,5 % bis 1,0 % • Neodisher Dekonta AF: 1 % • Neutralizing agents for neodisher MediClean Forte and Neodisher Dekonta AF: neodisher Polyklar 0,05 % bis 0,1 %
4.3	Temperatures	Cleaning and disinfection phase: +55 °C (Suma Jade); +50 °C to +55 °C (neodisher) Flushing phase: +50 °C to +55 °C

5. Documentation

4.1 Labelling

The label contains the following information:

- Product name
- Part number
- CE-Markings
- Symbol "Follow the instructions for use", "Storage conditions "
- Recycling Symbol
- Approval markings
- Country of production
- Manufacturer
- Importer für UK

4.2 Instructions for use

Each packaging unit contains an instructions for use and a notes on approval in the following language:

English

The instructions for use for the following languages are available online:

English, German, French, Spanish, Italian, Dutch, Danish, Polish, Bulgarian, Chinese, Estonian, Finnish, Greek, Japanese, Korean, Croatian, Hungarian, Latvian, Lithuanian, Norwegian, Portuguese, Romanian, Russian, Swedish, Slovakian, Slovenian, Serbian, Thai, Czech, Turkish

Notes on approval is available online in the following language:

English

Link to the other languages:

www.draeger.com/ifu



6. Other

5.1. User instructions and restrictions	The devices conform to the minimum requirements of the standard indicated by the class and type of the filter it is marked with. It must be noted that laboratory values can differ from those measured in practice. This may result in longer or shorter breakthrough times. The user must read and understand the instructions for use. Additionally, the knowledge of all relevant application rules is mandatory (see in particular, the restrictions on the use of filtering devices). Further information upon request.
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