

## Dräger PSS® AirBoss Breathing Apparatus

The Dräger PSS® AirBoss offers best in class ergonomics and is one of the lightest weight breathing apparatus for firefighting. Lessons learned from firefighters around the world as well as latest innovations in technology have led us to design an even safer and cleaner SCBA system that enables you to breathe more easily and for longer.

### Dräger PSS® AirBoss



# Dräger PSS® AirBoss

## PSS® AirBossActive/Agile/Connect



Height adjustments



Pivoting and pivoting/sliding waist belt



Multi attachment points for accessory fitment



Buddy lights improve visibility and show firefighters' status:  
1. blue: status normal  
2. amber: pressure warning  
3. red: alert



1. Standard thread connection for single cylinder  
2. Quick Connect for single cylinder  
3. T-piece arrangement for dual cylinders

## Benefits

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### USABILITY

#### Excellent fit

The Dräger PSS AirBoss ergonomics significantly reduce the physical strain associated with carrying SCBAs. Some key features include height-adjustment, a pivoting and sliding waist belt, and an easily adjustable harness to fit every shape and size of firefighter. The durable space frame design offers you a low weight and low profile all the while maintaining the SCBA's centre of gravity in an optimum position for greater weight distribution.

Due to its low weight and class leading ergonomics, you benefit from reduced stress and fatigue which leads to lower air consumption. Moreover, the PSS AirBoss offers different routing options for the LDV, gauge, and rescue hoses over each shoulder and waist belt to provide you with your preferred fit. The easy to connect reducer handwheel simplifies cylinder removal and fitting. A cylinder Quick Connect option further shortens the time for cylinder changeouts. Our universal cylinder strap allows single or twin cylinder configurations. For a fast cylinder exchange, we developed a new universal cylinder strap and buckle which also keeps your SCBA in a secure position. This conveniently offers you the option of single and twin cylinders using a single system for extended duration operations.

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### SAFETY+

#### Enhanced safety

The PSS AirBoss comes with large reflective surfaces, thus increasing firefighters' visibility as well as making it easier to locate team members in distress. When you equip the PSS AirBoss with a Personal Alert Safety System (PASS), it further increases this effect. It positions buddy lights at the front and back of the SCBA. Furthermore, the PASS draws attention to firefighters in distress by generating distinctive visual and acoustic alert signals – when motionless, when reaching low-air, experiencing high thermal stress or activating the manual distress signal.

Next to the wearer's position, the buddy lights can also indicate the remaining pressure of the air cylinder by emitting different colours, giving team members critical information at a glance. The PASS' automatic switch on feature activates upon cylinder opening – so its activation cannot be forgotten.

To improve your safety, we also designed an integrated anti-entanglement system to help prevent wires and cables from getting snagged between the cylinder and backplate. In addition, the PSS AirBoss is equipped with grab handles for firefighter extraction and rescue.

The PSS AirBoss Agile can additionally be equipped with a Head-Up-Display. Always within the field of view – the Head-Up-Display gives firefighters continuous hands-free information of air consumption, therefore enabling them to have an uninterrupted operation.

## Benefits

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### CONNECTIVITY

#### **Automatic Accountability System**

Our state-of-the-art automatic accountability system, Dräger FireGround, supplies the incident commanders (IC) with live information from SCBA wearers – making sure that all SCBA wearers are accounted for at every incident.

The Dräger FireGround gives ICs, an additional, non-verbal means of communication with their team. The PSS AirBoss Connect can be equipped with a built-in radio for data transmission – connecting each wearer to the Dräger FireGround. To find more detailed information about our automatic accountability system, please see our separate Dräger FireGround brochure or the infographic below.

#### **Data logging**

The PSS AirBoss PASS devices are equipped with a data logger that automatically logs alerts, air pressure, battery status and other vital information. Furthermore, this data as well as the entry control officer's notes and other information are logged in the Dräger FireGround. This multi-stage data logging makes it simple for you to record and access post incident reviews in all circumstances.

#### **Bluetooth capability**

Driven by forward-thinking technology, we have engineered the PSS AirBoss Connect with a Bluetooth interface, in order to ensure that the foundations are set for future compatibility to upcoming Dräger innovations.

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### SERVICEABILITY

#### **Easy to clean**

The PSS AirBoss uses low-absorbent and liquid repellent harness materials which take on less contaminants. Its overall streamlined design minimises dirt traps – making the SCBA extremely easy to clean. Furthermore, the complete SCBA is machine washable, and the Dräger cleaning process is backed up by Dräger's warranty. For you it means a significant decrease in equipment downtime.

#### **Simplified processes**

All key components are equipped with RFID tags to help the workshop technician maintain asset management and support quick turnarounds. The key components of the PSS AirBoss are quickly and easily disassembled for service without the need to use tools thanks to its Plug & Play design. To save you time prior to operations, we included a new electronic high-pressure leak test that ensures operational readiness and reduces air consumption during daily checks.

#### **Flexible battery logistics**

Depending on the type of PASS device you choose to add, the PSS AirBoss is powered by primary power cells or rechargeable batteries. In stand-alone operation, the primary power cells have a one-year lifetime and should be exchanged with every annual SCBA test. If the automatic accountability system FireGround is used, the battery life is to approx. 6 months. The rechargeable batteries can be charged while the SCBA is mounted inside the fire engine or separately in a desk-top charger.

## Benefits

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### CONFIGURATIONS

The PSS AirBoss is available in three standard configurations.

- PSS AirBoss Active, with a mechanical gauge, gives you the lowest weight and simplicity.
- PSS AirBoss Agile, with an integrated PASS device, offers you increased safety features.
- PSS AirBoss Connect, with advanced sensors and compatibility with Dräger FireGround, offers you maximum situational awareness.



## Details



D-36210-2021

Dräger PSS®AirBoss Active

- mechanical gauge
- lowest weight



D-7281-2021

Dräger PSS®AirBoss Agile

- mechanical gauge with transmitting function
- auto-activated PASS device



D-5665-2021

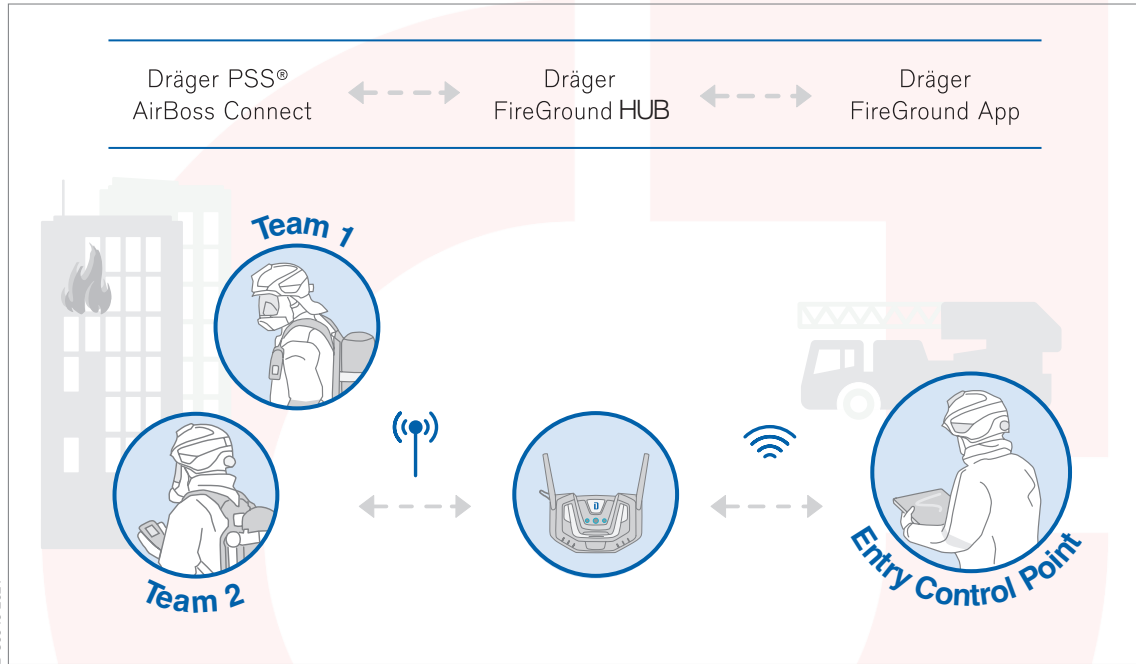
Dräger PSS®AirBoss Connect

- digital gauge
- auto-activated PASS device
- Telemetry with Dräger FireGround

## Monitoring System

Features	PSS®AirBoss Active	PSS®AirBoss Agile	PSS®AirBoss Connect
Mechanical gauge	✓	✓ (transmitting function)	-
Digital gauge	-	-	✓
High visibility surfaces	✓	✓	✓
Anti-entanglement (option)	✓	✓	✓
Pivoting & Sliding waist belt	✓	✓	✓
Non-absorbent, anti-slide harness	✓	✓	✓
Quick-Connect (option)	✓	✓	✓
Machine washable	✓	✓	✓
RFID tracking	✓	✓	✓
Low pressure warning whistle	✓	✓	✓
Auto-activated PASS	-	✓	✓
Thermal alert	-	✓	✓
Electronic sounders	-	✓	✓
Buddy lights and alert LEDs in the front	-	✓	✓
Data Logger	-	✓	✓
Heads-Up-Display (option)	-	✓	-
Re-chargeable battery (option)	-	-	✓
Time to retreat calculation	-	-	✓
Buddy lights and alert LEDs in the back	-	-	✓
Buddy lights indicating remaining cylinder pressure	-	-	✓
Electronic high pressure leak test	-	-	✓
Compatible to automatic accountability system FireGround	-	-	✓
Bluetooth connectivity for future innovations	-	-	✓

## Dräger FireGround Accountability System



D-39946-2021

Remote Monitoring: In addition, an optional Dräger FireGround Web enables workshop, management and command staff to utilise the data created on scene wherever they are.

## System Components



### Dräger FPS®7000

The Dräger FPS®7000 full-face mask series ensures high safety and wearing comfort. The modern design offers a large, optimised field of vision, while the availability of different sizes ensures the mask fits comfortably and securely. The full-face mask is available with different connections and wearing systems.



### Dräger FPS®-COM5000

Because there is no time for misunderstandings in an emergency: The Dräger FPS®-COM5000 communication unit has been specifically developed for the full-face mask Dräger FPS®7000 and ensures clear communication through a voice amplifier unit or radio device – even under extreme conditions.



### Dräger FPS®-COM7000

The Dräger FPS®-COM7000 provides hands-free communication for all wearers of respiratory protection devices during a mission. Excellent voice quality is achieved by removing interfering noises.



### Dräger FireGround

The incident commander needs live information from all SCBA wearers at all entry points and to know they are accounted for in any scenario. The Dräger FireGround Accountability System accomplishes this in a rapidly deployable mode, minimises the need for voice communication via radio and allows remote monitoring with incident reporting.



## Accessories



### Dräger PSS® Lung Demand Valve (LDV)

Suitable for the most extreme applications whenever breathing apparatus has to be worn: with its compact and robust design, and excellent pneumatic performance, the Dräger PSS® Lung Demand Valve (LDV) will always deliver the air that you need.



### Dräger Compressed Air Breathing Cylinders

Designed using leading technology and advanced materials, you can use our Dräger cylinders in any application where breathing protection is needed. We offer you a broad range, from carbon composite to steel cylinders. You especially benefit from their lightweight and Non-Limited Life (NLL) performance.



### Dräger PARAT®5550

The Dräger PARAT®5550 is a fire escape hood packaged in a flame-retardant holster. It was specifically developed for fire rescue teams for use in victim rescue.



### Dräger PSS® Rescue Hood

Fire fighters face some of the harshest conditions this world has to offer, and are expected to save others from these environments; the Dräger PSS® Rescue Hood is designed to help the professional save lives.

## Accessories



ST-9907-2006

### Dräger FPS®7000 Head-up Display (HUD)

One of the many benefits of the FPS®7000 Facemask is the option of fitting a head up display. Always within the field of view the head up display allows easy monitoring of the cylinder contents without any manual action by the wearer.



ST-6183-2007

### Secondary Supply Hose

The Dräger PSS®AirBoss can be equipped with a range of secondary supply hoses for shoulder or waist mounting. This conveniently allows firefighters to connect to airlines, supply breathing air to each other and victims.



D-31788-2015

### Dräger PSS®Safety Belt

The Dräger PSS®Safety Belt increases wearer safety in potentially hazardous situations by securing the fire fighter whilst working at height: providing work positioning, fall prevention and emergency self-rescue. The multifunctional belt is designed to be easily integrated into the Dräger PSS®AirBoss, Dräger PSS®5000 and PSS®7000 SCBA to safely anchor the wearer, without the need for an additional belt.

## Technical Data

	Dräger PSS® AirBoss Active	Dräger PSS® AirBoss Agile	Dräger PSS® AirBossConnect
Weight of complete set with Dräger FPS®7000 face mask, lung demand valve and 6.8 litre Dräger NANO cylinder	10.2 kg	10.5 kg 10.7 kg with PASS device	10.5 kg
Input pressure (bar)	0 – 300 bar	0 – 300	0 – 300
Normal 1st stage output pressure	7.5	7.5	7.5
1st stage output flow (l/min)	> 1,000	> 1,000	> 1,000
Pneumatic warning whistle activation pressure	50 – 60	50 – 60	50 – 60
Pneumatic whistle sound level (dBA)	> 90	> 90	> 90
PASS main alarm	N/A	In the range 102 LAeq (30s) dB(A) and 112 LAeq (30s) dB(A) as per requirements of BS10999:2010	102 to 112 dB(A) measured at 250 mm (JCDD 38 revision)
Battery	N/A	2 x CR123 lithium – Bodyguard 1500, 2 x CR123 lithium – TX Gauge	5 x AA Alkaline battery pack NiMh rechargeable battery pack
Telemetry radio frequency	N/A	N/A	EU 869 MHz / UK 469 MHz
Operating temperature °C	-30 °C to +60 °C	-30 °C to +60 °C	-30 °C to +60 °C
<b>Approvals</b>			
Breathing Apparatus	EN137:2006 Type2 BS-8468-1:2006 (CBRN-Standard)	EN137:2006 Type2 BS-8468-1:2006 (CBRN-Standard)	EN137:2006 Type2 BS-8468-1:2006 (CBRN-Standard)
Intrinsic safety of electronic monitoring system	N/A	ATEX94/9/ EC classification is ATEX94/9/ EC classification is I M1/ II 1G IIC T6 I M1/ II 1GD EExia I/ IIC T4 (Ta = -30 °C to +60 °C)*	ATEX94/9/ EC classification is ATEX94/9/ EC classification is I M1/ II 1G IIC T6 I M1/ II 1GD EExia I/ IIC T4 (Ta = -30 °C to +60 °C)*
Electromagnetic Compatibility	N/A		EN 61000-6-2
Radiation Emissions			EN 50081-1

The above ATEX classifications for Dräger PSS® AirBoss are limited to certain breathing apparatus configurations only and there are exceptions to the categories. Please consult Dräger for details.

\* based upon 2 x 30 minute uses per day, 12 months between battery change

## Ordering Information

Dräger PSS®AirBoss Active with mechanical gauge	Belt Type	Cylinder Connection	Cylinder Strap	Backplate	Order Number
	W/ MAP	G5/8	SCS	NHA	37 16 228
				HA	37 09 501
			TCS	NHA	37 16 229
				HA	37 09 502
		QC	TCS	NHA	37 16 234
				HA	37 16 226
Configurator					37 12 921
PASS device (Dräger Bodyguard 1000)					upon request

Dräger PSS®AirBoss Agile with mechanical/transmitting gauge	Belt Type	Cylinder Connection	Cylinder Strap	Backplate	Order Number
	W/ MAP	G5/8	SCS	NHA	37 16 230
				HA	37 09 503
			TCS	FHA	37 16 231
				HA	37 09 504
		QC	TCS	NHA	37 23 408
				HA	37 16 227
Configurator					37 12 922
PASS device (Dräger Bodyguard 1500)					upon request

Dräger PSS®AirBoss Connect with digital gauge	Belt Type	Cylinder Connection	Cylinder Strap	Backplate	Order Number
(EU 869 MHz)	W/ MAP	G5/8	SCS	NHA	37 21 876
				HA	37 21 353
			TCS	NHA	37 23 126
				HA	37 21 354
		QC	TCS	NHA	37 21 877
				HA	37 21 398
(UK 469 MHz)	W/ MAP	G5/8	SCS	NHA	37 23 120
				HA	37 21 350
			TCS	NHA	37 23 122
				HA	37 21 352
		QC	TCS	NHA	37 23 123
				HA	37 21 396
Configurator					37 12 923
other Dräger PSS®AirBoss options available upon request with: webbing waist pad, ChargAir, integrated Dräger PSS®Safety Belt					

## Ordering Information

Carrying System Upgrade Kits	Belt Type	Cylinder Strap	Backplate	Order Number
Dräger PSS®AirBoss Upgrade Kit	WW	TCS	NHA	37 21 936
Dräger PSS®AirBoss Upgrade Kit	W/ MAP	TCS	NHA	37 21 937
Dräger PSS®AirBoss Upgrade Kit	WW	SCS	NHA	37 21 938
Dräger PSS®AirBoss Upgrade Kit	W/ MAP	SCS	NHA	37 21 939
Dräger PSS®AirBoss Upgrade Kit	WW	TCS	HA	37 21 940
Dräger PSS®AirBoss Upgrade Kit	W/ MAP	TCS	HA	37 21 941
Dräger PSS®AirBoss Upgrade Kit	WW	SCS	HA	37 21 942
Dräger PSS®AirBoss Upgrade Kit	W/ MAP	SCS	HA	37 21 943
Dräger PSS®AirBoss Spare Backplate assembly			NHA	37 21 944
Dräger PSS®AirBoss Spare Backplate assembly			HA	37 21 945

G5/8 = DIN cylinder thread connection

QC = cylinder quick connect

WW = webbing waist pad

W/ MAP = multi attachment waist pad, with pivoting and sliding waist belt (standard / default version)

HA = height adjustable backplate

NHA = non height adjustable backplate, with pivoting waist belt

SCS = single cylinder strap

TCS = twin or universal cylinder strap