

## Dräger PAS® AirPack 1 Compressed Air Breathing Apparatus

Designed using leading technology and materials, Dräger's range of heavy-duty airline apparatus is ideal for use where an extended duration of breathing air is called for. Chemical tank cleaning, toxic spillages or certain tasks when working on offshore installations are all made easier and more comfortable when using the Dräger PAS® AirPack 1.



Hore Drum with Brake Mechanism

Extendable Hose

Twin Cylinder Support Straps

Trolley Frame with Two-wheeled  
Fixed Angle



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## Benefits

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### Increased freedom of movement

Uninterrupted air supply is provided by the trolley-mounted cylinder(s) to the wearer via a hose reel. As the PAS AirPack can be easily re-located and therefore positioned in a safe zone which is in close proximity to working area, the user need only wear a lightweight harness, such as Dräger's PAS Colt, during operation. This allows the wearer a greater freedom of movement, and less stress and fatigue than they would be subjected to if wearing a conventional self-contained breathing apparatus unit.

### A well thought trough system

The Dräger PAS AirPack 1 is able to accommodate up to four compressed air cylinders of up to 12 litres in capacity and is constructed from an anti-static powder coated steel material.

A 50 metre length of hose is supplied with the PAS AirPack 1 as standard, this can be extended to a length of 100 metres with a range of extension hoses. The trolley hose reel connector is protected with a cover to minimise inadvertent damage being caused.

The hose reel is equipped with a winding handle to allow the hose to be easily re-wound onto the reel after use. Outgoing hose distribution is also controlled with a braking system in order to prevent unnecessary unwinding and potential entanglement.

The Dräger PAS AirPack 1 benefits from the world renowned, tried and tested, pneumatics system used on Dräger's successful PSSrange of compressed air breathing apparatus. The system incorporates a safety pressure relief valve and the pressure reducer is shrouded in a protective plate for additional safety.

The PAS AirPack has been ergonomically designed to facilitate ease of operation, general handling and mobility.

The Module comprises of:

- Robust welded durable steel frame coated, for corrosion protection, with a tough black anti-static polymeric powder coating.
- Stainless steel fittings.

### Pneumatics

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The Dräger PAS AirPack 1 Trolley module incorporates the following pneumatic elements;

- Pressure reducer suitable for connecting breathable quality air at an input pressure of either 200 or 300 bar.
- Pressure reducer suitable for supplying breathable quality air at an outlet medium pressure of 8 bar nominal. (6 to 10 bar)
- Vent valves, to allow for the independent charging of an individual cylinder.
- High Pressure (HP) gauge, indicating cylinder pressure.

## Benefits

- Medium Pressure (MP) gauge, indicating cascade system or ring main pressure.

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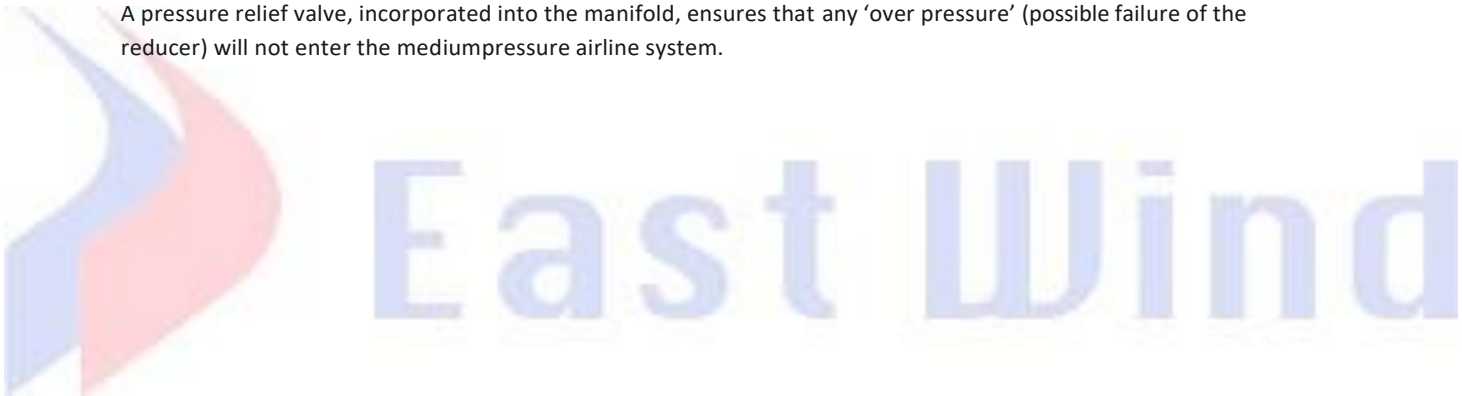
### Safety features

- Pressure relief valve, to relieve medium pressure from air hoses.
- Whistle Warning Unit – High pressure (HPWWU), indicating cylinder pressure to a volume of approximately 55 bar
- Whistle Warning Unit – Medium pressure (MPWWU) for use with independent air line source. Indicating cascade system or ring main pressure at approximately 4.5 bar.
- Suitable for use in explosive atmospheres (ATEX zone 1)

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### Performance

The high performance pressure reducer assembly of the Dräger PAS AirPack 1 is incorporated in the main pneumatic manifold assembly located behind the control panel. Functioning at inlet pressures of 200 or 300 bar the reducer provides a controlled outlet operating medium bar-pressure supply of 8 bar nominal. (6 to 10 bar). A pressure relief valve, incorporated into the manifold, ensures that any 'over pressure' (possible failure of the reducer) will not enter the medium pressure airline system.



## System components



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### Dräger PAS® Lite

For use in industrial applications where a simple, robust and easy to use breathing apparatus is required, the Dräger PAS® Lite Self-Contained Breathing Apparatus (SCBA) combines reliability with comfort and performance.

## System components



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### Dräger Quaestor 7000

All static and dynamic tests of the Dräger Quaestor 7000 are carried out fully automatically. Controlled by the newly developed software each test is carried out intuitively. For the user this guarantees high efficiency through comfort and speed.



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### Dräger Quaestor 5000

All static and dynamic tests of the Dräger Quaestor 5000 take place semi-automatically as a sophisticated combination of personal handling and automated control during the test sequence. The newly developed software supports the user with intuitive user guidance.



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### Quad Pack

An extension to allow the accommodation of up to 4 cylinders.



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### Carry Frame

2 Cylinder carrying with pneumatics.

## System components



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### Stand Alone Hose Reel

Can be used in conjunction with carry frame. Contains 50 m of airline hose.

## Accessories



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### different accessories

- 'Y' Piece for 2 users
- Pressure reducer for connection to HP source
- Filter Unit to ensure correct air quality from ring main
- PAS Airline Harness

## Technical Data

Dräger PAS AirPack	Dräger PAS AirPack 1 Trolley, Reducer Hose Reel & Hose	Dräger PAS AirPack 1 Carry Frame and Reducer	Dräger PAS AirPack 1 Trolley Excluding Hose Reel	Dräger PAS AirPack 1 Stand Alone Hose Reel
Size excluding cylinder (H x W x D) - Min (mm)	1019 x 465 x 60	888 x 465 x 375	1019 x 465 x 604	520 x 340 x 560
Weight (kg)	40.5	11.5	18	25.5
Input pressure cylinder (bar)	200 or 300	200 or 300	200 or 300	200 or 300
Input pressure Airline (bar)	6 - 10	6 - 10	6 - 10	6 - 10
Nominal 1 <sup>st</sup> stage output pressure (bar)	8	8	8	8
1 <sup>st</sup> stage output flow (l/ min)	>600	>600	>600	>600
High pressure whistle activation pressure (bar)	55 - 60	55 - 60	55 - 60	55 - 60
Airline whistle activation pressure (bar)	4 - 5	4 - 5	4 - 5	4 - 5
Whistle sound level (dBA)	>90	>90	>90	>90
Whistle frequency range (Hz)	2000 - 4000	2000 - 4000	2000 - 4000	2000 - 4000
Operating temperature range (°C)	-32 to +70	-32 to +70	-32 to +70	-32 to +70

## Ordering Information

### Dräger PAS AirPack 1

Airline trolley, reducer hose reel and 50 metres of hose	33 52 228
Stand alone hose reel	33 52 239
Carry frame and reducer	33 52 241
Trolley excluding hose reel	33 53 008
Quad pack unit to allow the accommodation of 4 cylinders	33 53 471

### Dräger PAS Colt Airline Harness Unit Approved to EN14593:2005

Complete with Whistle Warning Unit and push-in Lung Demand Valve	33 52 942
Complete with Whistle Warning Unit and Quick Release Coupling*	33 52 948
Complete with Quick Release Coupling but without Whistle Warning Unit*	33 52 947
Complete with push-in Lung Demand Valve but without Whistle Warning Unit	33 52 941

## Ordering Information

### Dräger PAS Airpack Harness

Complete with Whistle Warning Unit and push-in Lung Demand Valve	33 54 483
Complete with Whistle Warning Unit and Quick Release Coupling*	33 54 481
Complete with Quick Release Coupling but without Whistle Warning Unit*	33 54 480
Complete with push-in Lung Demand Valve but without Whistle Warning Unit	33 54 482

### Accessories Standard

Dräger FPS 7000 P EPDM	R 56 200
Dräger FPS 7000 PE (M45 x 3) EPDM	R 56 426
Dräger FPS 7000 RA (M40) EPDM	R 56 310
Dräger FPS 7000 RA Silicone	R 56 332
3 Metre extension hose complete with CEJN	33 52 463
5 Metre extension hose complete with CEJN	33 52 464
10 Metre extension hose complete with CEJN	33 52 465
20 Metre extension hose complete with CEJN	33 52 466
30 Metre extension hose complete with CEJN	33 52 467
50 Metre extension hose complete with CEJN	33 52 468
Y Piece	R 27 9 45
Pressure reducer	33 57 357
Dräger PAS F3000	33 59 915
Dräger PAS F3000P	33 59 916
Dräger PAS F5000	33 59 923
Dräger PAS F5000P	33 59 924

\*Units equipped with the Quick Release Coupling. Lung Demand Valve to be ordered separately.

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ISO 9001:2015  
 ISO 29001:2010



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