PRPS TRAINING SUIT

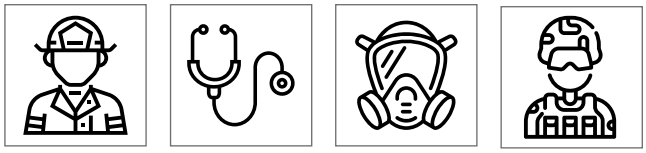
PRPS-T POWERED RESPIRATOR PROTECTIVE SUIT

RESPIREX™

Description

The PRPS-T is a **training suit version of the PRPS** (Powered Respirator Protective Suit) used extensively by CBRN emergency responders. Manufactured from hard-wearing PVC, with a removable (machine washable) neck seal and supplied with rechargeable batteries the PRPS-T replicates the operational characteristics of the PRPS while simplifying re-use.

Applications



Fire Brigades | Health Authorities | Civil Defence | Military

Training & Familiarisation

A key benefit of the PRPS is that it requires minimal training and familiarisation and does not require face fit testing. It is nevertheless important that users are trained sufficiently to be able to:

- Operate safely within this PPE
- Become familiar with working inside the suit
- React to the system status messages
- Communicate with colleagues
- Be ready to make the right decisions in an emergency

Because the 'operational' suit (PRPS) is sealed, ready for emergency use, a separate, distinctive, dark-green PVC training suit designed for multiple use has been developed.

Product Documentation

The CE Certificate, Declaration of Conformity and user instructions can all be downloaded from the product page on the Respirex website, links are in the downloads tab.

There are also additional photos and videos on donning procedure.

Certification

EN 12941:1998+A2:2008
Respiratory protective devices - Powered filtering devices

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Key Features

Respiratory system comprising a **battery powered 3M™ Jupiter™** air filter unit fitted with a **visual display unit** mounted inside the suit at the base of the visor, and audible alarm

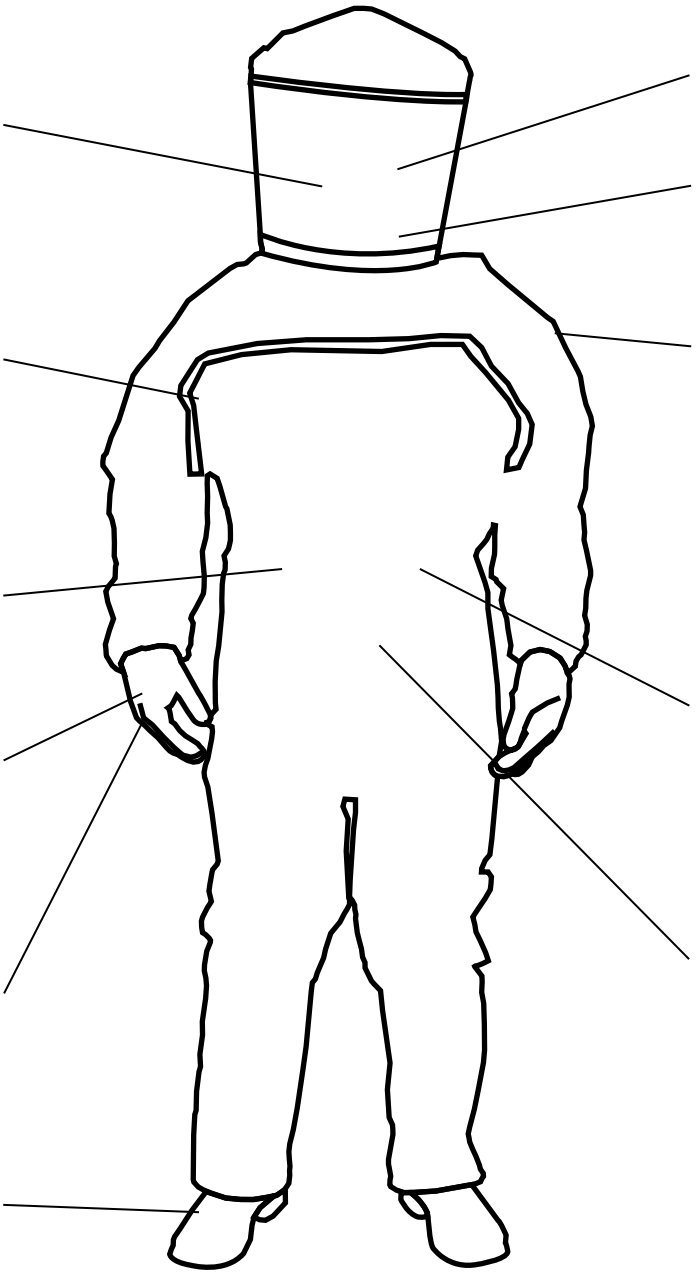
Heavy duty **gas tight zip** fitted across the chest enclosed by double external storm flaps with hook & loop fastener

Twin **particulate training filters** (at the rear) simulate operational CBRN filters and remove particulates and nuisance odours

Gas-tight locking cuff system for changing gloves

Dual glove system consisting of a **Kemblok™** chemical barrier inner glove bonded to an outer neoprene or stanzoil surgical glove for mechanical protection.

Choice of fixed or detachable **chemical safety boots or sock feet** (see below)



Semi-rigid **laminated visor** for clear undistorted vision

Detachable, machine washable **neck seal**

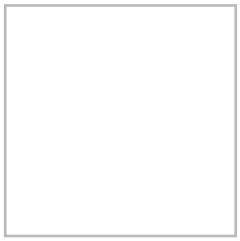
Two exhalation valves maintain a comfortable working pressure inside the suit

Clearly visible **'TRAINING' label** on the rear of the suit

Rechargeable battery pack (NiMh) provides **1 hour operational use**, plus 15 minutes for decontamination

Adjustable internal **support belt**

Suit Options



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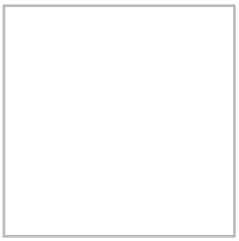

Lightweight Gloves

Inner Kemblok™ glove with lightweight nitrile overglove for greater manual dexterity

Heavy-Duty Gloves

Inner Kemblok™ glove with heavy-duty neoprene overglove for improved mechanical protection

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Benefits

Can be used by wearers with **facial hair and/or glasses**

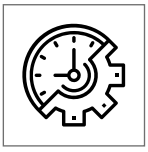
No requirement for **face-fit testing**

Training needs are reduced

Powered respirator provides **cooling air over the head** and through the suit, making the wearer more comfortable and better able to focus on tasks

A **Large visor** provides reassurance to casualties and victims by maintaining non-verbal communication through facial expression and aids speech recognition through visible lip movements.

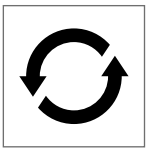
Improved operational duration over gas-tight suits with SCBA



Up to six times the resource efficiency compared with gas-tight SCBA suits thanks to the lower physiological loading and increased duration

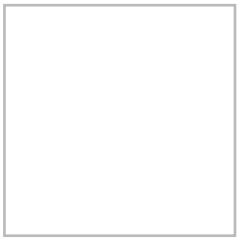
Significantly **lighter and more comfortable**, with easier breathing and less equipment in body contact than with a gas-tight suit with SCBA

The lower weight and increased user comfort results in a **lower physiological load** than a conventional gas-tight suit



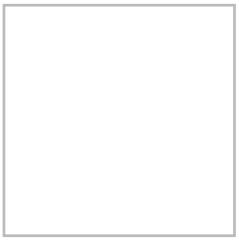
Uncontaminated or ‘decontamination-guaranteed’ **suits can be re-used** following gas-tight re-test and re-certification

Accessories



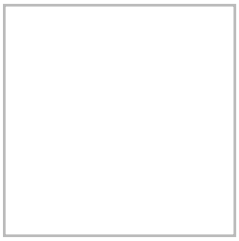
Batteries

Rechargeable battery (and separate charger) for use in training applications



Hard Hat

Peakless hard hat that can be worn comfortably inside the PRPS suit



Hydration system

Camelback hydration system worn inside the suit

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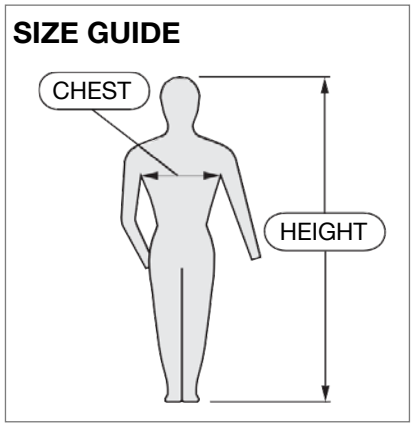
Sizing Chart

Size	Chest (cm)	Height (cm)
Small	88-96	163-175
Medium	96-104	169-182
Large	104-112	176-188
X-Large	112-124	182-194
XX-Large	124-136	188-200



Specifications

PRPS Suit

Pack Size (max)	26 x 58 x 36 cm
Pack Weight (max)	8 kg
Carton Qty	3
Outer Carton Size	84 x 62 x 40 cm
Outer Carton Weight (max)	26 kg
Commodity Code	62104000

Specifications are based on an XL sized suit with boots, but without optional accessories and are for guidance only

Approvals

Used for training and simulation purposes only, the PRPS(T) is type-approved only as a Respiratory Protective Device to a 3M specification TS0085, based on the relevant requirements of EN12941:1998 class TH3. However, as PRPS, the maximum mass and battery duration requirements have been excluded. The PRPS(T) is not approved as Chemical Protective Clothing.

PRPS(T) provides respiratory protection against either liquid or gaseous chemicals to the level of EN12941:1998 TH3, nominal protection factor = 500.

Technical Data

Respiratory Protection: 3M™ specification TS0084 (based upon EN12941:1998 TH3, nominal protection factor = 500). Following clauses excluded or modified: battery duration; maximum mass; strength of hoses and couplings; strength of couplings to hood; marking.

Battery: (007-00-63) NiMH rechargeable, duration: 4 hours.

Filters: (453-09-25) – PSL & Nuisance odour; simulates weight and breathing resistance of ‘operational’ filters. MMDF (Manufacturer’s Minimum Design Flow): 135 l/min; maximum fl ow: 230 l/min.

Maintenance

The PRPS(T) (‘training’) is intended to be used many times for training and simulation purposes. It is not gas-tight-tested, and therefore more user-servicing can be carried out.

Laundering is not recommended for the PRPS(T). After use, the suit should be wiped with a sponge using warm water and Citrikleen*, rinsed and allowed to dry naturally. The inner surfaces of the suit should be sanitized using Synodor*. However, the neck seal may be removed and laundered separately; it may also be replaced when necessary for hygiene reasons. Do not use solvents or strong cleaning and disinfecting agents on the suit.

Gloves are replaceable by trained personnel, but boots are not.

The Jupiter™ air filter unit, battery, filters and adaptors may be reused provided they are in good condition. After many fittings and removals, the training filter retention mechanism may wear and the filters should be replaced. Use a clean cloth dampened with a mild solution of water and liquid household soap to clean the Jupiter™ Air Filter Unit (AFU).

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Differences with Operational PRPS Suits

It is recommended that 'Training' suits are used for training, to avoid any confusion in an emergency 'Operational' situation. The PRPS(T) training suit is designed for multiple use and is different from the operational suit in the following ways:

- Dark-green PVC material - distinctive from the lime green of the PRPS 'operational' suit. The operational suit material has been designed to maximise chemical resistance and mechanical strength, but also with light weight and flexibility. It is not designed for many multiple-uses. The PVC training suits have been designed to be re-used many times;
- PRPS(T) training suits are not gas-tight-tested
- The knitted neck-seal is removable for laundering
- Training Battery (007-00-63) is NiMH / rechargeable for multiple training sessions
- Training Filters (453-09-25) are blue, distinctive from the orange operational filters (JFR-85-CE); with particulate and nuisance odour protection only, but simulate the weight of 'operational' filters.

RESPIREX™

Living + Breathing Personal Protection

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