

SIMPLAIR A.E. BLOUSE

REUSABLE AIR-FED CHEMICAL PROTECTION HALF SUIT

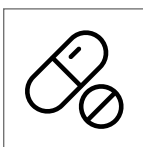


RESPIREX™

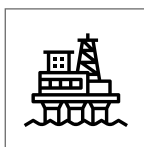
Description

An air supplied half-suit available in a range of chemically resistant fabrics providing liquid and spray tight protection to the wearers upper body (**Type PB[3] and PB[4]**). The blouse is designed to be worn with matching protective trousers and chemical safety boots.

Applications



Pharmaceutical



Petro-Chemical



Performance



Class 4A (Headtop)
Class 4B (Belt assembly)
 EN 14594:2005
 Respiratory protective devices



Type PB [3] | EN 14605:2005+A1:2009
 Liquid-Tight Chemical Protective Clothing



Type PB [4] | EN 14605:2005+A1:2009
 Spray-Tight Chemical Protective Clothing

**The Simplair AE Blouse has been assessed by a notified body as satisfying Annex II of the PPE regulation (EU) 2016/425 using technical standards EN 14594 'Respiratory Protective Devices. Continuous flow air line breathing apparatus' and EN 14605 Protective clothing against liquid chemicals - Performance requirements for clothing with liquid tight (Type 3) or spray-tight (Type 4) connections, including items providing protection to parts of the body only (Types PB[3] and PB [4]).*

Note: The Simplair AE Blouse provides **Type 3**, liquid-tight chemical protection, when worn with matching Respirex reusable trousers.

Fabrics

- Viton®/Butyl/Viton® (VBV) - Orange
- Viton®/Butyl/Polyester (VBP) - Yellow
- Butyl - Olive
- Neoprene - Yellow or fluorescent orange (yellow pictured)
- PVC - Yellow or Green

Air Supply

Required Airflow: **270 l/m** (min) to **340 l/m** (max)

The air flowing into the garment must conform to EN 12021:2014 Annex A. In the event that partial contamination may exist in the factory ring main from which the suit draws its air supply, a Respirex in-line filter unit should be fitted to the air system; this will prevent the ingress of contamination down to 5 microns in size from entering the garment.

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.

Features

Internal air system providing **breathing and cooling air** to the user

Choice of **durable rigid PVC visor** (with optional outer cover) which minimises visual distortion, **or flexible transparent PVC hood** providing 360° vision

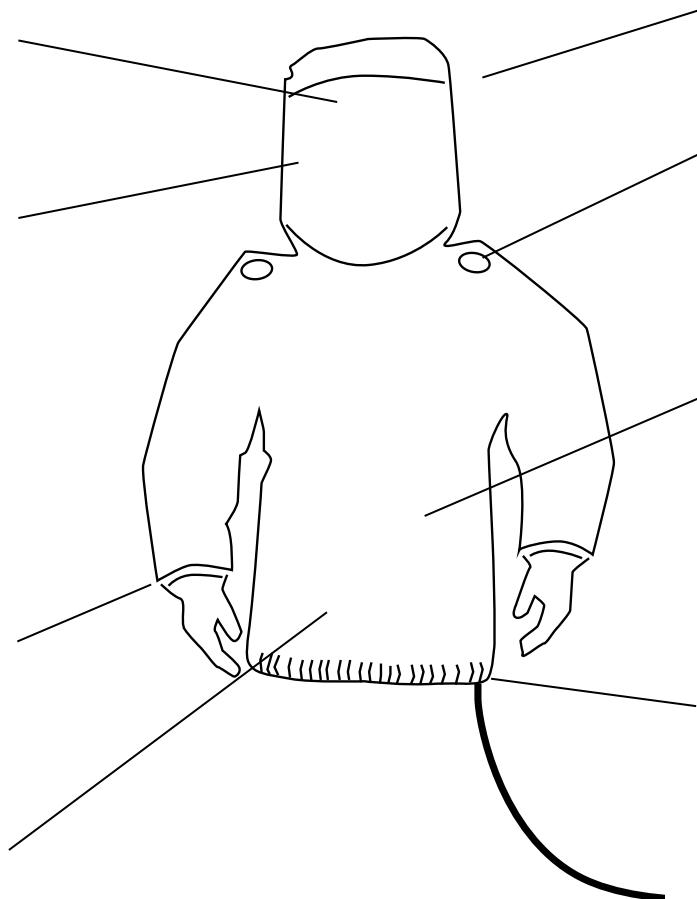


Rigid Visor

Transparent Hood

Liquid-tight **locking cuff system** for easy glove changes (other systems available on request)

Adjustable internal waist belt with a foam back pad comfortably supports the air system



Exhalation valves maintain a comfortable working pressure in the suit

Three-point hanging system helps prevent distortion during storage

Internal **low-flow warning whistle** indicates if airflow into the suit drops below the required level

Elasticated waist

A wide range of **approved airline couplings** can be fitted to the suit, but large bore couplings are recommended

Accessories



Reusable Trousers

Chemically-protective reusable high waisted trousers available in a range of materials.



HAZMAX™ Boots

A chemically-protective anti-static safety boot with an integral steel toe cap and mid sole, vulcanized rubber sole for superior slip resistance and kick off lug for hands free removal.



Suit Care Accessories

Cleaning agent, deodoriser, anti-fogging spray and zipper lubricant are available for maintaining your re-usable garment



Three-Point Hanger

A three-point hanger designed to prevent damage to your garment from incorrect storage

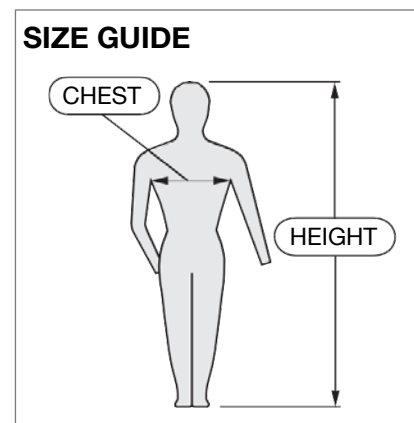


5 Micron Filter

An in-line filter designed to remove dust and particulate contamination down to five microns, with an easy to change filter element.

Sizing

Size	Chest (cm)	Height (cm)
Small	88-96	164-170
Medium	96-104	170-176
Large	104-112	176-182
X-Large	112-124	182-188
XX-Large	124-136	188-194



Material Performance

		VBV	VBP	Butyl	Neoprene	PVC C2
Abrasion Resistance	EN 530 Method 2	> 2,000	> 2,000	> 2,000	> 2,000	> 2,000
Flex Cracking Resistance	EN ISO 7854 Method B	> 100,000	> 40,000	> 15,000	> 5,000	> 100,000
Tear Resistance	EN ISO 9073-4	> 100 N	> 40 N	> 60 N	> 40 N	> 100 N
Tensile Strength	EN ISO 13934-1	> 500 N	> 500 N	> 500 N	> 500 N	> 500 N
Puncture Resistance	EN 863	> 100 N	> 50 N	> 50 N	> 10 N	> 50 N
Resistance to Ignition	EN 13274-4 Method 3	Pass	Pass	Pass	Pass	Pass
Seam Permeation Resistance	EN ISO 6529	> 240 min	> 480 min	> 480 min	> 240 min	> 480 min
Seam Strength	EN ISO 13935-2	> 500 N	> 500 N	> 300 N	> 500 N	> 500 N

Chemical Permeation

	CAS NO.	VBV	VBP	Butyl	Neoprene	PVC C2
Hydrochloric acid, 36%	7647-01-0	> 480 mins	> 480 mins		> 480 mins	> 480 mins
Hydrofluoric acid 48%	7664-39-3	> 480 mins	> 480 mins	> 480 mins	> 480 mins	> 480 mins
Hydrofluoric acid 73%	7664-39-3	> 480 mins			> 240 mins	< 30 mins
Nitric acid, 10%	7697-37-2				> 480 mins	> 480 mins
Nitric acid, 60% - 70%	7697-37-2	> 480 mins	> 480 mins	> 480 mins	> 480 mins	< 30 mins
Phosphoric acid,85%	7664-38-2		> 480 mins	> 480 mins	> 480 mins	> 480 mins
Sodium hydroxide, 40%	1310-73-2	> 480 mins	> 480 mins	> 480 mins	> 480 mins	> 480 mins
Sulphuric acid 10% - 50%	7664-93-9		> 480 mins	> 480 mins	> 480 mins	> 480 mins
Sulphuric acid 96%	7664-93-9	> 480 mins	> 480 mins	> 240 mins	> 240 mins	> 60 mins

A garments resistance to chemical permeation depends on the material selected. A selection of common industrial chemicals is shown in the table above, but for the full list please check the Respirix permeation guide - visit www.respirex.com



RESPIREX™

Living + Breathing Personal Protection

Respirex International Limited, Unit F Kingsfield Business Centre, Philanthropic Road, Redhill, Surrey, RH1 4DP, United Kingdom

🌐: www.respirex.com 📞: +44 (0)1737 778600 ✉: info@respirex.co.uk