

SIMPLAIR A.2. HOOD

REUSABLE AIR-FED CHEMICAL PROTECTION HOOD



RESPIREX™

Description

A reusable air-fed chemically protective hood designed for use with breathable air supplied from an external positive pressure compressed air source.

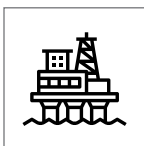
The revised Simplair A.2. design features an air distribution system that brings air into the hood above the wearers head, which allows the use of larger radio headsets and, improves wearer vision and comfort over previous versions.

Available in a range of chemical resistant fabrics and with a choice of visor styles, the hood provides partial body (PB) protection and is designed to be worn with a suitable protective suit or jacket and trousers.

Applications



Pharmaceutical



Petro-Chemical



Performance



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



Type PB [4] | EN14605:2005+A1:2009
 Spray-Tight Chemical Protective Clothing

**The Simplair A2 Hood 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 A2 Hood provides **Type 3**, liquid-tight chemical protection, when worn with a matching Respirex reusable one-piece suit or jacket and trousers.

Fabrics

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

Air Supply

Required Airflow: **220 l/m** (min) to **280 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 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



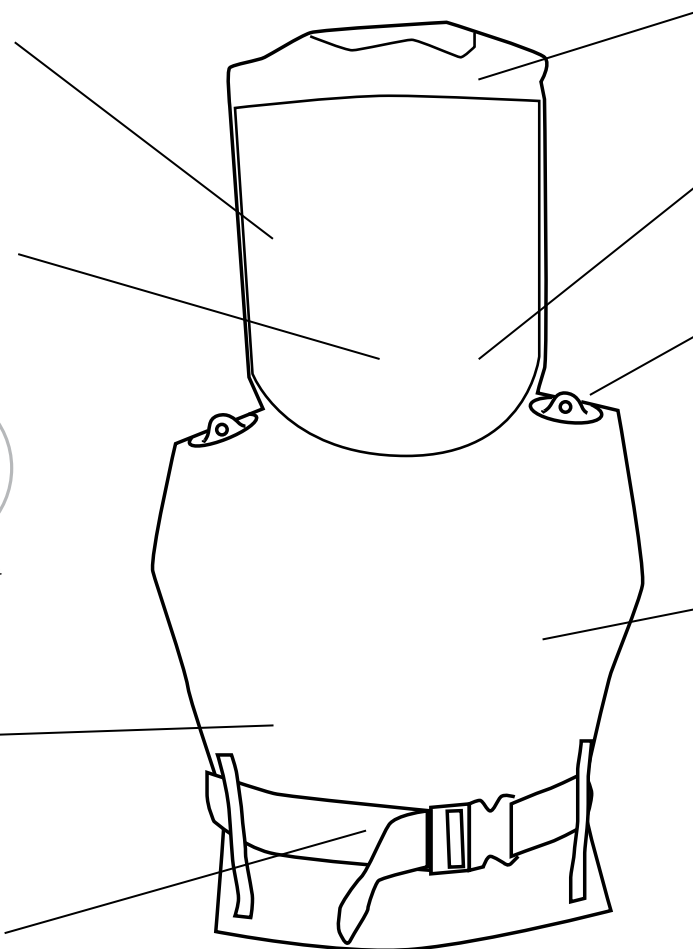
Rigid Visor



Transparent Hood

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

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



Twin **Exhalation valves** maintain a comfortable working pressure in the suit

Draw-string neck seal fitted as standard, rubber neck seal available as an option

Three-point hanging system helps prevent distortion during storage

Front & rear **cape panels** provide protection to the wearer's chest area

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

Accessories



Reusable Suit or Jacket & Trousers

Chemically-protective reusable one-piece suit, or separate jacket and trousers



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

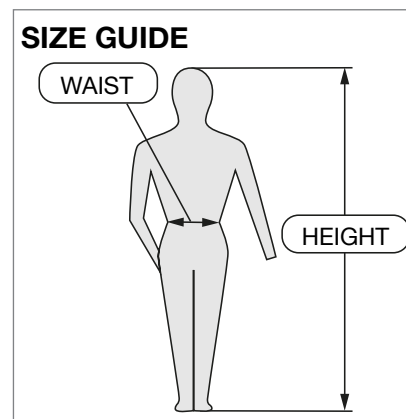


5 Micron Filter

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

Sizing

Size	Waist (cm)	Height (cm)
One Size	60-112	158-194



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

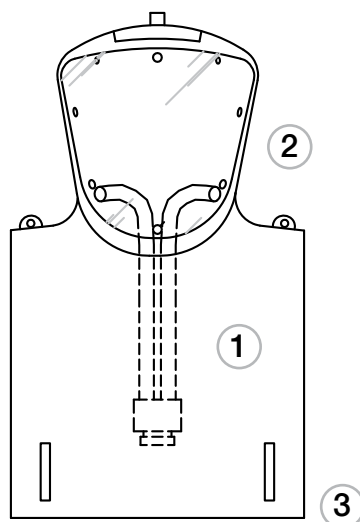
Chemical Permeation

	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 Respirex permeation guide - visit www.respirex.com or scan the QR code.

Specifying a Simplair A2 Hood



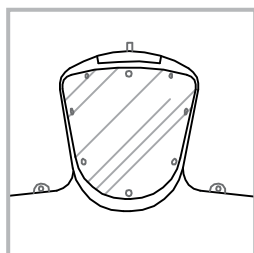
1 Choose the material

Select the material for the hood based in its permeation resistance to your challenge chemical(s) and its physical properties. Options available are Viton®/Butyl/Viton® (VBV), Viton®/Butyl/Polyester (VBP), Butyl, Neoprene (yellow or orange) and PVC

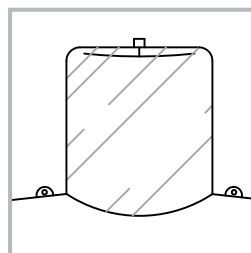
2 Choose the visor type

Choose the style of visor to suit the application; rigid visors are more durable, soft visors provide a greater field of view

Rigid visor with optional cover



Soft PVC visor with all-round vision



3 Customisation

Finally, specify any customisation options - this includes lettering/ID numbers, a rubber neck seal and reinforcing patches.

Specifications

Simplair A2 Hood	
Carton Qty	4 (Max)
Outer Carton Size	40 x 62 x 84 cm
Outer Carton Weight (max)	TBA
Commodity Code	39262000 (PVC), 40159000 (VBV, VBP, Butyl & Neoprene)

Specifications are based on an XL sized suit without optional accessories and are for guidance only, exact weight will vary depending on size, material and options chosen



RESPIREX™

Living + Breathing Personal Protection

Specifications, configurations and colours are subject to change without notice. Viton® is a trademark or registered trademarks of E.I. du Pont de Nemours and Company

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