



100 CAL ARC SUIT



OEKO-TEX®



DH-ARC100-SHV

DW-ARC100-J

DG-ARC100

DW-ARC100-BP

Description

The Dromex® Arc product range is designed to protect the user from the hazards of heat and to reduce total burn injury when working in environments exposed to electric Arc hazards.

Dromex® Arc garments are manufactured with our exclusive Dromex® A.P.T™ (Arc Protective Technologies) fabric blend which has been carefully developed by our team along with industry experts and professionals to ensure specialised Arc safety and global standards are met. Our Dromex® A.P.T™ fabric and garments have been tested to NFPA, ASTM, EN, SABS and IEC standards.

The Dromex A.P.T™ 100 cal attire, is an innovative lightweight 3 layer fabric construction (14 oz outer, 7.5oz (250gsm) Inherent FR Meta Aramid interlining and 14 oz inner) designed for user comfort and is suitable for use in category 4 ARC related hazards.

This 100 cal Arc Switching Suit consists of the following:

Jacket features:

- Collared jacket with internal hanger loop.
- YKK Concealed Vizlon zip with 25mm flame retardant Hook and Loop closure.
- Sleeves feature a flame retardant knitted cuff providing an effective seal when used with gloves and prevents sleeves from rolling upwards.

- Right sleeve with Dromex® Arc heat transfer print.
- Dromex® Arc heat transfer print and ATPV 100 cal/cm² Embroidery below print on the left chest of jacket for garment ATPV classification.

Bib and Brace features:

- Adjustable brace with black flame retardant nylon clips.
- Adjustable tabs with flame retardant Hook and Loop closure at waist (25mm x 150mm).
- All stress area seams are triple needle topstitched for added durability.
- ATPV 100 cal/cm² embroidery on back left centre panel for garment ATPV classification.
- Right back panel with Dromex® Arc heat transfer print.
- Double needle topstitched on the footwear allowance region for added durability.
- Flame retardant Hook and Loop adjustable tabs (25mm x 150mm) above leg hem providing an ideal fit around the leg, easily accommodating ankle boots etc.

Switching Hood features:

- Integrated Category 4, 100 cal/cm² clear view visor attached to electrical arc hard hat.
- Centre back with opening and flap with flame retardant Hook and Loop closure to allow for air ventilation system.
- ATPV 100 cal/cm² embroidery on bottom left of hood for garment ATPV classification.
- Side flaps with flame retardant Hook and Loop closure.

Arc Visor

- The Category 4, 100 cal/cm² clear view Arc visor consists of three polycarbonate layers offering true vision technology.

These garments are suitably used in the following industries:

- Substations and switchrooms
- Utilities and power generators
- Industrial electrical maintenance and installations
- Mining, chemical and refineries

Dromex® A.P.T™ fabrics are Arc flash protective, self-extinguishing, heat resistant and all garments are sewn with inherent flame retardant thread.

Special Instructions

Note: For electric Arc exposures, wear the correct number of flame resistant clothing layers as dictated by an electric Arc hazard analyst.

In potentially explosive environments, proper grounding procedures must be used for protection against electrostatic spark ignition.

Do not put on or remove garments when in a potentially explosive environment. None of the materials or processes used in the manufacture of these products are known to be harmful to the wearer.

The manufacturer has examined under the system for ensuring quality of production by means of monitoring and inspection.

These Arc flash jackets, bib pants and hoods are designed to accommodate the basic safety requirements and standards for Personal Protective Equipment.

The information contained herein is intended to assist the wearer in the selection of Personal Protective Equipment.

Actual conditions of use cannot be directly simulated in a test environment therefore it is the responsibility of the end user and not the manufacturer or supplier to determine the Arc flash suitability for the intended use.

Arc flash protective jackets, bib pants and hoods should be thoroughly inspected before use to ensure no damage is present (such as holes or burn holes).

If exposed to an Arc Flash incident, the garment must be replaced immediately.

Specifications

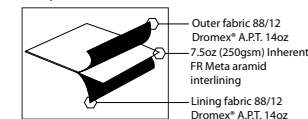
Style:

Sky blue pocketless jacket, bib, brace, jacket and hood with integrated Arc visor, Arc protective hard hat & fresh air ventilation system (standard).
88% Cotton 12% Nylon.
14oz Outer, 7.5oz (250gsm) Meta Aramid FR mat interlining and 14oz Inner (lining)

Fabric composition:

Mass:

3 Layer Arc Suit



DW-ARC100-J

DW-ARC100-SHV

DG-ARC100

DW-ARC100-BP

Accessories:

- Fan system:

Materials:

Battery type (not included):

Battery run time duration:

Fan weight:

Battery operated, switching hood air ventilation system compatible with the Dromex® Arc flash 100 cal hood assembly
Fan housing - ABS
Hose - Polypropylene
Suspension - Polyester
Zip - Nylon
Alkaline Manganese Battery 6LR61 9V.
850 minutes
226g ± 2g when fitted with batteries



- Arc bag:

Dromex® part number, DW-ARCBAG
600D Oxford fabric Arc shoulder bag with carry straps, accommodates the storage of your jacket, bib pants, hood and gloves.



Additional:

Arc clothing must be worn with additional and correctly selected Arc PPE to ensure complete protection against the hazards of Arc Flash. Refer to table "Arc Flash PPE Categories" for further compatible PPE.

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Sizes Available

Jacket: S-5XL

Size designation	Nominal measurements of finished garment (cm)						
	Half Chest	Long Sleeve	Half Cuff Stretched	Back Length	Back Width	Cuff Circumference Extended	Chest Circumference
S	34	52	48	16	83.5	40	104
M	38	57	49	16	85.5	44	114
L	42	62	50	16	86.5	48	124
XL	46	67	51	16	87.5	52	134
2XL	50	72	52	16	88.5	56	144
3XL	54	77	53	16	89.5	60	154
4XL	58	82	54	16	90.5	64	164
5XL	62	87	54	16	91.5	68	174

*Please note the above size chart is subject to a standard 1-1.5cm tolerance as per manufacturing guidelines.

Bib & Brace: S-5XL

Size designation		Nominal measurements of finished garment (cm)				
		Bib Length	Inleg	Back Rise	Mid Waist Closed	Mid Waist Extended
S	30	112	83	41	42	58
M	34	116	85	43	47	63
L	38	120	88	45	52	68
XL	42	121	88	46	57	73
2XL	46	121	87	47	62	78
3XL	50	121	86	47	67	83
4XL	54	122	87	48	72	88
5XL	58	123	87	49	77	93

*Please note the above size chart is subject to a standard 1-1.5cm tolerance as per manufacturing guidelines.

Compliance & Conformity

- Complies to marking SANS 724, Personal Protective Equipment and protective clothing against the thermal hazards of an electric Arc.
- IEC 61482-1-1 - Live working - Protective clothing against the thermal hazards of an electric Arc - Open Arc Test Method. It determines the Arc Thermal Protection Value (ATPV level) of the garment. The basic principle is that the ATPV of the garment must be higher than the Arc Flash energy.
- IEC 61482-1-2, Live working - Protective clothing against the thermal hazards of an electric Arc - Box Test Method. It determines the Arc Protection Class Rating of the material or garment by using a constrained and directed Arc:
 - EN 61482-1-2:2014 - LIVE WORKING - PROTECTIVE CLOTHING AGAINST THE THERMAL HAZARDS OF AN ELECTRIC ARC - PART 1-2: TEST METHODS - METHOD 2: DETERMINATION OF ARC PROTECTION CLASS OF MATERIAL AND CLOTHING BY USING A CONSTRAINED AND DIRECTED ARC (BOX TEST) (IEC 61482-1-2:2014).
 - NFPA 2112 - Standard on flame resistant clothing for protection of industrial personnel against short duration thermal exposures from fire.
 - NFPA 70E - Standard for electrical safety clothing for employees.
 - ASTM F1959, Standard Test Method for Determining the Arc Rating of Materials for Clothing.
 - ASTM F2621-12, Standard Practice for Determining Response Characteristics and Design Integrity of Arc Rated Finished Products in an Electric Arc Exposure.
 - EN 11611:2015, Protective clothing for use in welding and allied processes.
 - EN 11612:2015 Protective clothing -- Clothing to protect against heat and flame -- Minimum performance requirements.
 - ASTM F2178-12-Standard Test Method for Determining the Arc Rating and Standard Specification for Eye or Face Protective Products.

Packaging

Jacket: DW-ARC100-J - are packed in a resealable polybag.
Bib pants: DW-ARC100-BP - are packed in a resealable polybag.
Switching hood: DH-ARC100-SH - are packed in a resealable polybag.
DH-ARC100-SHV - are packed in a resealable polybag.

Cleaning & Maintenance

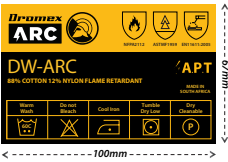
Wash care instructions need to be carefully followed to ensure garment level of protection. Dromex® A.P.T™ Garments can be cleaned by home or commercial laundry or by dry cleaning procedures without loss of their protective features. The following suggestions will help keep your garment safe and neat. Should home procedures not remove contaminants, commercial laundering or dry-cleaning is recommended.



- Launder garments of Dromex® A.P.T™ separate from personal non-flame resistant clothing to help avoid contamination by flammable materials.
- Pre-treat greasy stains and collar/cuff lines.
- Wash garments in warm water with heavy duty detergent.
- Do not use detergents containing chlorine bleach as it may cause fading and reduce fabric strength.
- Tumble dry garments at a low setting.
- Remove and hang garments as soon as tumbler stops.
- Do not hang in direct sunlight as fading can occur.
- When using commercial laundry aids, be sure to carefully follow the manufacturer's instructions.

Marking

MAIN LABEL



- Position:
- Jacket - Neck (Inside)
 - Bib & Brace - Back (Inside)
 - Hood - Back (Inside)

ARC HEAT TRANSFER PRINT



- Position:
- Jacket - Right centre sleeve
 - Hood - Left hand side at front

ARC HEAT TRANSFER PRINT



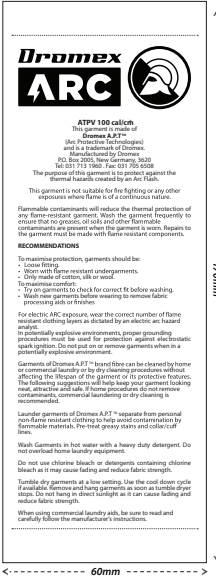
- Position:
- Jacket - Left hand side of chest
 - Bib & Brace - Back (Right bottom)
 - Hood - Centre back

DROMEX ARC BOOKLET



- Position:
- Tag attached inside garment

TYVEK ATPV LOOP FOLD CARE LABEL



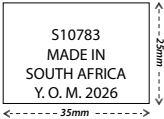
- Position:
- Jacket - Side seam (Above hem)
 - Bib & Brace - Left side seam below adjustable tab
 - Hood - Left seam (Inside)

EMBROIDERY (WHITE THREAD)



- Position:
- Jacket - Left hand side of chest
 - Bib & Brace - Back left side of bottom
 - Hood - Left hand side at front

ORIGIN & YOM LABEL



- Position:
- Jacket - Neck
 - Bib & Brace - Back
 - Hood - Back (Inside)

Disposal

All industrial waste should be disposed of correctly according to local regulations and good disposal practice. Please consider recycling.

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DROMEX FRESH AIR FLASH HOOD VENTILATION SYSTEM **DH-ARC100-SHV**



DW-ARC100-SH

Description

The Dromex® DH-ARC100-SHV, fresh air, arc flash ventilation system integrated within the Dromex ARC 100 cal flash hood, provides cooling comfort, whilst conducting electrical/Arc work tasks.

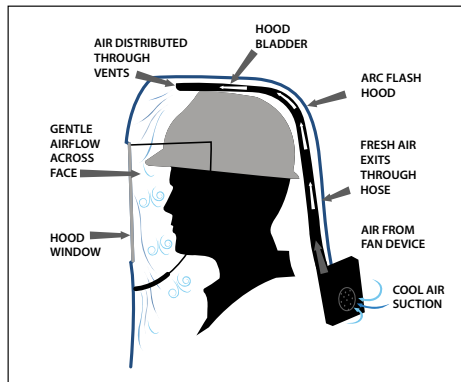
The ® DH-ARC100-SHV, features the following:

- A battery-operated fan motor
- A flexible hose
- Dual ventilated bladders

Specifications

Style:	Battery operated, Arc flash air ventilation system intergrated with the Dromex®
Materials:	Arc flash 100 cal hood assembly
	Fan housing - ABS
	Hose – Poly Propylene
	Suspension - Polyester
	Zip - Nylon
Battery type (not included):	Alkaline Manganese Battery 6LR61 9V.
Battery run time duration:	850 minutes
Weight fan:	226g ± 2g when fitted with batteries

Illustration



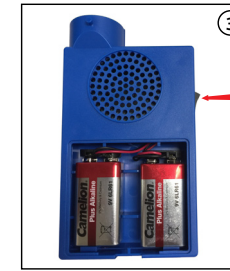
Fan Fitting & Air Flash Hood Ventilation System Instructions



Insert batteries facing upwards



Ensure placement is matching battery (+ positive & - negative)



Insert securely into battery compartment & switch on to test power



Close battery compartment by first pushing up at the top



Press down until you hear a click



Insert hose cover



Insert hose compartment into hood opening & close zip attaching hood & bladder



Insert fan device into hose compartment



Twist fan device securely on hose compartment



Close Hook & Loop closure on hose compartment



Place safely into fan device compartment & close Hook & Loop closure



Close Hook & Loop closure on fan device compartment



Place helmet with visor on head



Securely align Hook & Loop closure from hood to visor & close



Ensure Hook and Loop closure is placed flat & there is no misalignment



Securely close Hook and Loop closure on sides

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Arc Flash PPE Categories

Hazard/Risk Category	Required minimum ATPV (Cal/cm ²)	Workwear	Other PPE
HRC 1 	4	     	        
HRC 2 	8	      	     
HRC 3 	25		             
HRC 4 	40	  	       

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