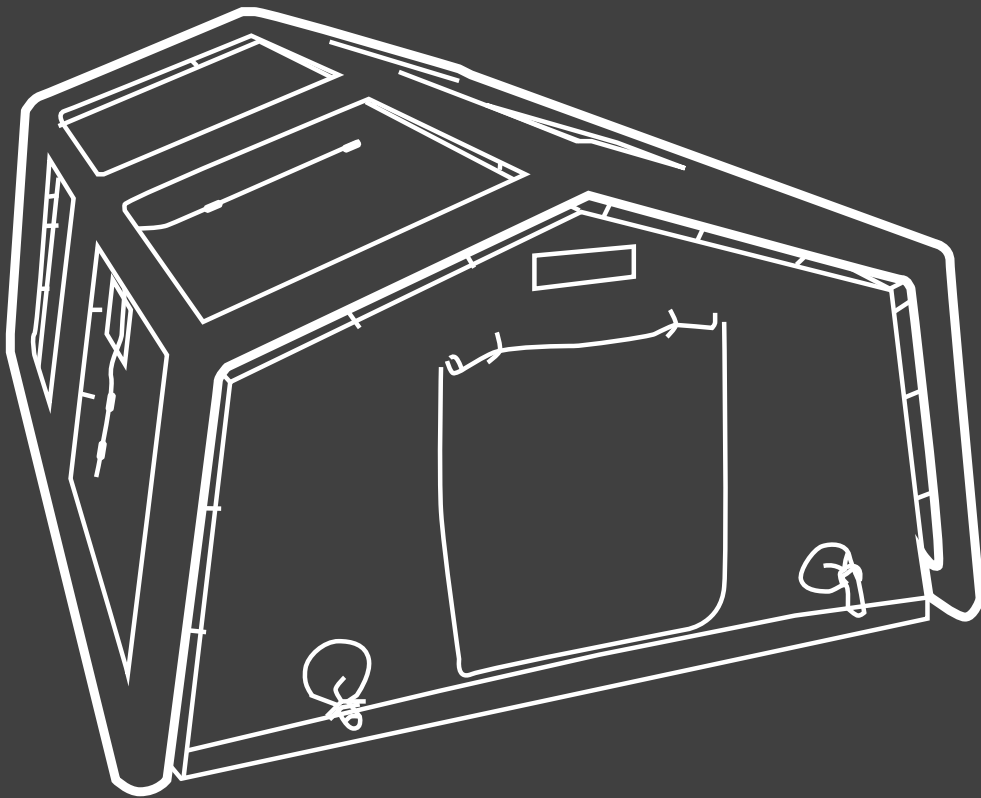


Mass Decontamination System Equipment



MFCInternational
by RESPIREX

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MASS DECONTAMINATION SHOWER



Compact and quick to deploy, the inflatable Mass Decontamination Unit from MFC International allows for rapid response in a decontamination scenario.

Fully inflatable, the Decontamination Unit can be set up in a matter of minutes, and will stay standing without continuous inflation. With no mechanical framework the shelters are relatively lightweight to transport and compact to store.

The mass Decontamination shower is internally partitioned into three lanes (male, female & assisted casualty), with pre and post decon changing areas.

FEATURES

- Compact and easily portable
- Set up within a matter of minutes and will stay standing without continuous inflation
- The Mass decontamination unit is internally partitioned into three lanes with pre and post decon changing rooms
- Raised floor panels prevent contact with contaminated shower wash off which is collected in a chemically resistant sump
- Sleeves for pumped extraction of contaminated water are included as standard
- Can be used on hard or soft standing
- Minimal training, servicing and maintenance costs

Raised floor panels prevent contact with contaminated shower wash-off, which is collected in a chemically resistant sump. Sleeves for pumped extraction of contaminated water are included as standard.

Showers can be used on hard or soft standing, and guy ropes are provided for securing in position during inclement weather.

USED FOR

- Decontamination scenarios

SUPPLIED WITH

- Valise
- Repair kit
- Inflation hose - 1m (for use with 8 bar regulator)

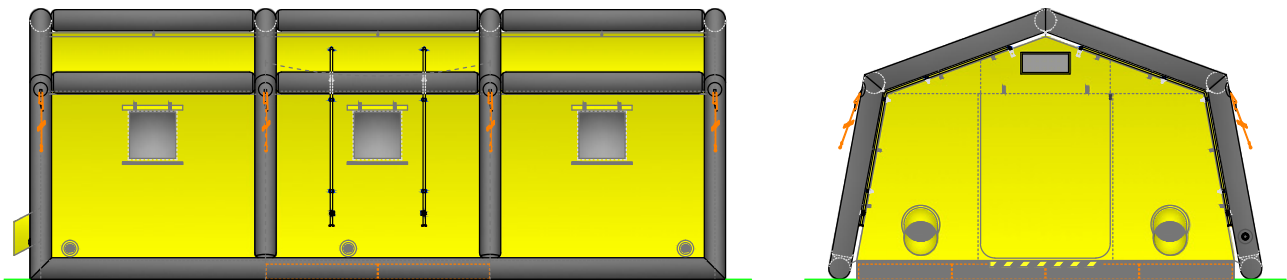
OPTIONS & ACCESSORIES

- Customer branding
- Electric inflator
- 8 bar regulator

MASS DECONTAMINATION SHOWER

TECHNICAL DATA		Mass Decon Unit		Mass Decon Unit	
Product Code	DSW026	Max. Water Inlet Pressure (bar)	3		
Length (cm)	750	Recommended Pump Flow-Capacity (ltrs)	5 ltr/min per nozzle		
Int. Length (cm)	730	Number of Shower Nozzles	12		
Width (cm)	470	Number of Shower Hose/Brush Connectors	4		
Int. Width (cm)	410	Number of Heater Sleeves	2		
Height (cm)	290	Number of Cable sleeves	6		
Int. Height (cm)	260	Pack Size (cm)	160 x 80 x 60		
Int. Floor Area (sq.m)	30	Weight (kg)	110		
Air Requirements (ltr)	3800				

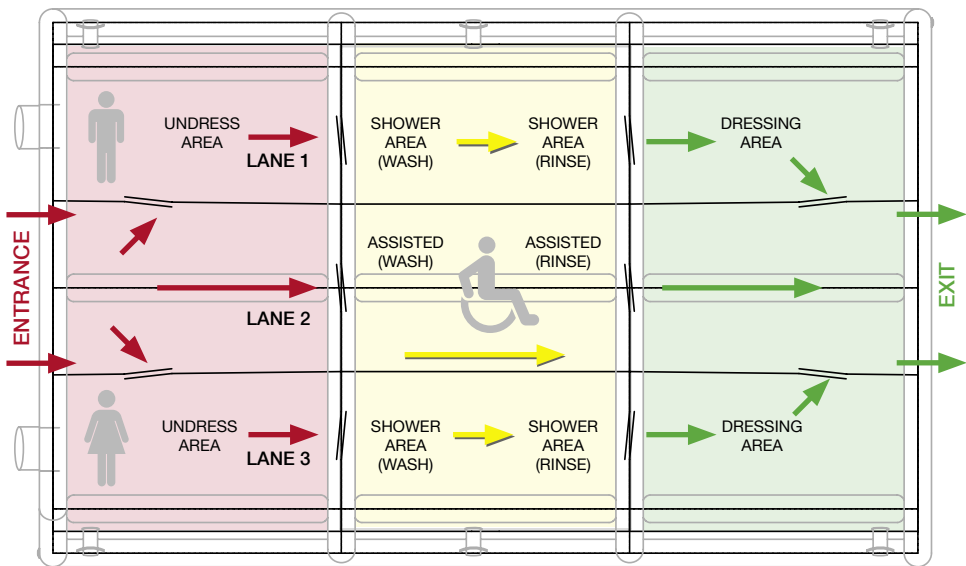
DETAIL DRAWING



INTERNAL LAYOUT

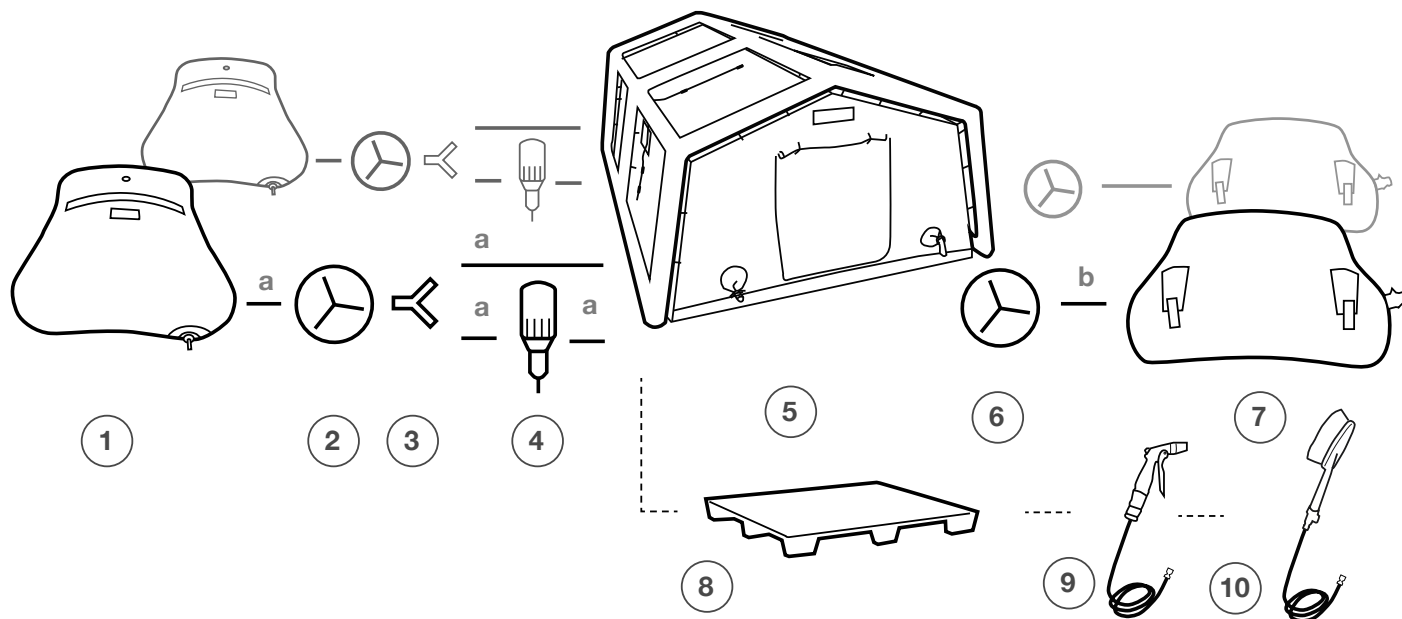
The diagram on the right shows the different compartments of the Mass Decontamination shower. It also shows how the user enters the decontamination shower and shows the direction of travel. The areas are colour coded:

- **Red** - designates the contaminated area where the user will enter the unit
- **Yellow** - designates the area where the user will wash off any contamination
- **Green** - designates the clean, post decontamination area



MASS DECONTAMINATION SHOWER

SHOWER SYSTEM SCHEMATIC & COMPONENTS



Components

- | | | | |
|--|---|--|--|
| <p>①</p> <p>Clean Water Pillow Tank (1000ltr)
(2x WS0028)
- see website for other sizes</p> | <p>②</p> <p>Inlet Water Pump
(2x DSA002)</p> | <p>③</p> <p>Y-Peice
(2x DSA009)</p> | <p>④</p> <p>Dosatron with Trolley
(2x DSA005)</p> |
| <p>⑤</p> <p>Mass Decon Shower
(Yellow shower DSW026)</p> | <p>⑥</p> <p>Submersible Pump
in Single Decon
(2x DSA004 - 240V,
DSA003 - 110V)</p> | <p>⑦</p> <p>Waste Water Pillow Tank (1000ltr)
(2x WS0017)
- see website for other sizes</p> | |

Accessories

- | | | |
|---|--|---|
| <p>⑧</p> <p>Pallets for Mass Decon Floor
(x6 140027)
Pallet with submersible pump cut-out
(x2 DSA007)</p> | <p>⑨</p> <p>Spray Gun & Hose
(DSA008)</p> | <p>⑩</p> <p>Hand Brush & Hose
(180035)</p> |
|---|--|---|

Hoses (with Camlock Couplings)

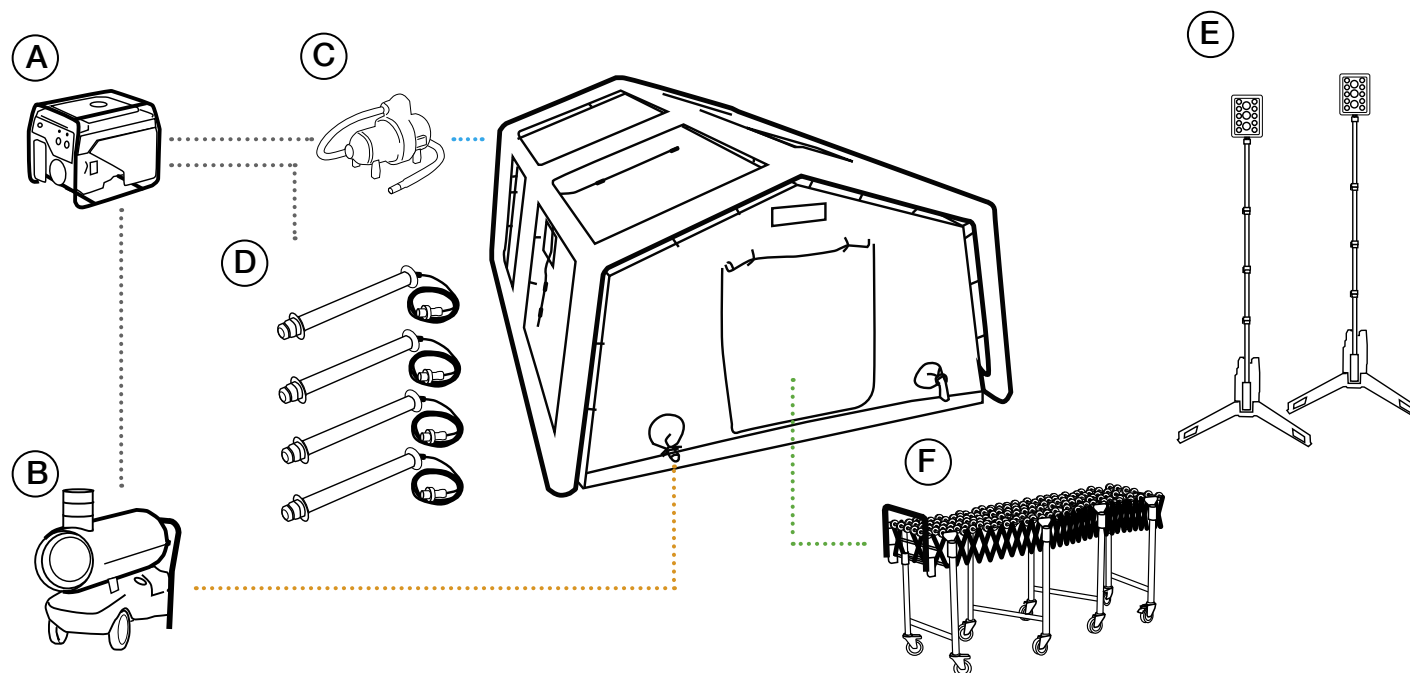
a **Green Hose - Clean Water (2m)**
Female to Female Camlock Hose
(8x 630004)

b **Clear Hose - Waste Water (3.5m)**
Female to Female Camlock Hose
(2x 630006)

N.B. CAMLOCK couplings used on components and hoses as standard, other couplings are available on request.

MASS DECONTAMINATION SHOWER

ACCESSORY SCHEMATIC



(A)



Generator
Honda 5.5kW 4-stroke petrol
(1x EG5500CL)

(D)



Waterproof LED Interior Lights
23W, 2300 Lumens
(4x SLZ2323/5/01DWD - IP67 Lamp)
(4x SLZ005 - Hanging kit)

(B)



Heater & Ducting
Small heater - for a single shower
32kw heat output
(1x 1101503 - Heylo KS30T Heater)
(1x 91250069 - High temp air hose)

Larger Heater - up to three showers/
shelters - 83kW heat output
(1x 1101600 - Heylo K80)
(1x 1200011 - Outlet plate)
(3x 1250081 - Air hose - 7.5m)
(3x 1250091 - Hose clamps)

(E)



Waterproof LED Exterior Rechargeable Flood Lights - Max 16,000 Lumens
(2x NSSOLARISPRO)

(C)



Electric Inflator
Bravo 2000 - 2kW, 230VAC
(1x 180026)

Equipment for inflation from compressed air cylinder also available

(F)



Patient roller conveyor - 9m
(1x CON9000)

INLET WATER PUMP



Our inlet water pumps are close-coupled self-priming centrifugal pumps with built-in ejector systems, designed to remain primed even in the presence of water-dissolved gases.

The extensive use of pressed stainless steel ensures a high-performance, durable and lightweight pump. Suitable for use with drinking water.

APPLICATIONS

- Water distribution
- Pressure boosting
- Irrigation
- Washing
- Rain water collection
- Swimming pools
- Fountains

PUMP MATERIALS

- Pump body: **Stainless steel**
- Impeller: **Stainless steel**
- Diffuser: **Technopolymer**
- Ejector: **Technopolymer**
- Seal housing: **Stainless steel**
- Mechanical seal: **Ceramic / Carbon / EPDM**
- Fill and drain plugs: **Nickel-plated brass**
- Elastomers: **EPDM**

TECHNICAL DATA

INLET WATER PUMP

Product Code	DSA002
Delivery	Up to 4.2m³/h
Head	Up to 53m
Power Supply	Single-phase and three-phase 50 and 60Hz
Power	0.37kW to 1.1kW
Max. Operating Pressure	8 bar
Max. Total Lift	8m

INLET WATER PUMP

Max. Ambient Temperature	40°C
Temperature of Pumped Liquid	-10°C to +40°C
Insulation Class	F
Protection	IP55

SUBMERSIBLE WATER PUMP



Our submersible drainage pump has a compact footprint and features an integral float switch. Ideal for use in narrow spaces where automatic operation is required, the submersible pump is suitable for transferring water containing small particles (up to 5mm).

Applications include draining basements, wells and narrow sumps, emptying pools, fountains and excavations and lifting water from tanks. The submersible pump consumes 0.4kW, making it extremely efficient when used in automatic mode.

FEATURES

- Made from anti-corrosive and dust-proof materials
- Integrated float switch makes pump suitable for use in narrow spaces
- Low suction capability down to 2mm
- Suitable for use with water containing particles up to 5mm
- Very low priming and starting level of the pump: 10-15mm (manual operation), 165mm (automatic operation)
- Selector for manual or automatic operation
- Easy access, through sliding cover, to float switch for cleaning
- Motor with thermal overload protection
- Excellent cooling of the motor that enables the pump to operate even when it is partially submerged
- 10 metre mains cable and moulded UK plug
- 1¼ inch top discharge, four-step hose tail supplied

SUBMERSIBLE WATER PUMP

TECHNICAL DATA	110V	240V
Product Code	DSA003	DSA004
Operation	Automatic (integral float)	Automatic (integral float)
Dimensions (mm)	400 x 158 x 225	400 x 158 x 225
Weight (kg)	5.1	5.1
Construction	Polypropylene	Polypropylene
Float Start Height (mm)	165	165
Float Stop Height (mm)	65	65
Flow Rate Max. (ltr/min)	180	180
Head Max. (mtr)	9	9
Impeller Type	Vortex	Vortex
Horse Power (HP)	0.55	0.55
Power (kW)	0.4	0.4
Voltage	110	230
Water Level Min. (mm)	2	2
Water Temp Max. (°C)	35	35
Motor Speed (rpm)	2800	2800
Discharge Size	1¼ inch	1¼ inch
Free Passage (mm)	5	5
Pumped Medium	Water and small particles up to 5mm	Water and small particles up to 5mm
Cable Length (mtr)	10	10

DOSATRON & TROLLEY



Installed directly into the water supply line, the Dosatron operates by using the flow of water as the power source. The water activates the Dosatron, which takes up the required percentage of concentrate directly from the container and injects it into the water.

Inside the Dosatron, the concentrate is mixed with the water, and the water pressure forces the solution downstream. The dose of concentrate will directly proportional to the volume of water entering the Dosatron, regardless of variations in flow or pressure, which may occur in the main line.

The injection rate can be set by lining up the eyelet with the desired ratio on the scale. The amount of injected concentrate is proportional to the amount of water coming into the Dosatron: i.e. adjustment at 1% = 1: 100 = 1 volume of concentrate + 100 volumes of water.

The Dosatron comes with a compact portable trolley (complete with 25 liter barrel, bracket and suction tube) which makes mobile dosing easy and efficient.

TECHNICAL DATA

DOSATRON UNIT

Product Code	DSA005
Dimensions W x D x H (cm)	17 x 14 x 55
Weight (kg)	2
Injection Range	0.03 - 25%
Water Flow Range	10 l/h - 3 m³/h
Operating Pressure (bar/psi)	0.3 - 6 / 4.3 - 85
Max. Operating Water Temperature (°C)	40
Min. Operating Water Temperature (°C)	5
Injection Check Valve	Spring loaded with seal

DOSATRON UNIT

Dosing Rate	1:100 = 1 volume concentrate + 100 volumes of water
Average Dosing Accuracy	+10%
Motor Capacity	0.53L
Maximum Vertical or Horizontal Suction of the Concentrate	4m (13ft)
Materials	Polypropylene, Polyethylene, Polyamide and PVDF

TROLLEY

Dimensions W x D x H (cm) - excluding Dosatron	43 x 45 x 98
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PILLOW TANKS



Pillow Tanks provide a robust and quickly deployable solution for the storage and transportation of water. There are two ranges of pillow tanks- Potable and non-potable.

Manufactured with integrated handles and lifting points on larger sizes, MFC International Pillow Tanks are designed to be as easy as possible to transport when full. They come complete with restraining straps to limit movement during transportation and are suitable for use on various different vehicles, including on the back of a 4x4. When empty the Pillow Tank collapse down for compact storage and can be carried by 1-2 people.

Constructed from exceptionally strong and durable PVC material, Pillow Tanks provide a reliable solution for temporary or long term water storage.

They are very quick and straightforward to deploy and can be manufactured for potable drinking water, making them ideal for use in disaster relief situations.

MFC International Pillow Tanks are available in a range of sizes and colours, and we can offer a wide variety of fittings for filling and emptying the tanks. If you have specific requirements we are confident we can meet your needs.

FEATURES

- Lightweight and easily portable when filled
- Suitable for use on various different vehicles
- Collapses down for compact storage when empty
- Exceptionally tough and durable
- A reliable solution for temporary or long term water storage
- Quick and straightforward to deploy
- Potable (drinking water) and non potable versions
- Minimal training, servicing and maintenance costs

USED FOR

- Disaster Relief
- Temporary drinking water
- Contaminated water during decontamination

PILLOW TANKS

TECHNICAL DATA

	250	400	500	1000	5000	10000
Product Code: Potable	WS0025	WS0026	WS0027	WS0028	WS0029	WS0030
Product Code: Non-Potable	WS0014	WS0015	WS0016	WS0017	WS0018	WS0024
Capacity (litres)	250	400	500	1,000	5,000	10,000
Length (cm)	90	117	117	150	400	510
Width (cm)	80	75	95	150	225	220
Height (when full) (cm)	35	53	53	55	57	100

Note: Other sizes may be produced to order.

SUPPLIED WITH

- 2.5" Coupling complete with ball valve
- Carrying handles (x4)

OPTIONS

- Alternate couplings
- Repair kit

PALLETS FOR SHOWER FLOOR



Our decontamination shower flooring pallets are manufactured from high-quality plastic which gives them greater stability compared to standard pallets.

They are lightweight, nestable, easily portable and suitable for worldwide export. The pallets can also withstand deep freezing and steam cleaning.

FEATURES

- Space saving nestable design to minimise storage
- Extremely tough, resistant to acids, chemicals and solvents
- Conforms to export standards without any treatment
- Submersible pump pallet version includes a cut-out to allow the pump to sit at the bottom of the shower sump

TECHNICAL DATA	STANDARD PALLET	SUBMERSIBLE PUMP PALLET
Product Code	140027	DSA007
Dimensions (mm)	1200 x 1000 x 140	1200 x 1000 x 140
Material	Polypropylene (PP)	Polypropylene (PP)
Weight (kg)	6.2	6.2
Load Capacity - Static (kg)	1800	1800
Load Capacity - Dynamic (kg)	1000	1000
Colours Available	Black	Black
Includes Cut-out for Submersible Pump	No	Yes

PORTABLE GENERATOR



A portable generator with a maximum output of 5.5kW, combining superb durability and value, with the power stability required for modern equipment. For tasks such as powering tools and incandescent lamps simultaneously, the new Digital AVR delivers smoother power with greatly reduced risk of light flicker or damage to sensitive electronics. Simple yet rugged design features also make the EG5500CL easy to use, with centralised controls and outlets, full tubular frame and a large fuel tank to give 8 hours of continuous running time at rated power.

Powered by the ultra reliable Honda GX390T2 4-stroke petrol engine which uses a recoil starter mechanism is light and smooth and starts easily every time. With 45 degree inclined rubber engine mounts, vibration is dampened to an industry leading standard, making this generator far more comfortable to use. The Honda 4-stroke engine is remarkably fuel efficient and reliable, which means fewer fill-ups and reduced maintenance costs. Also the Oil-Alert Technology will automatically switch off the ignition if the oil drops below a safe level.

FEATURES

- Class leading fuel efficiency delivers over 8 hours of run time.
- Quiet operation from semi-enclosed casing.
- Easy to use controls allowing quick and simple starting and running.
- Rubberised feet to minimise vibration and movement, maximising frame and engine life.
- Digital D-AVR ensures a smooth and stable voltage output similar to an inverter generator, ideal for powering sensitive electronics and tools with flicker-free lighting

USED FOR

- Shelters
- Decontaminations Showers

TECHNICAL DATA

Product Code	EG5500CL
Product Name	Honda EG5500CL
Fuel	Petrol
Starter	Recoil
KVA	5,500
Phase	Single Phase
Voltage	230
Rated Frequency (Hz)	50Hz
Fuel Tank Capacity (Liters)	24
Running Time	8 hrs 10 minutes @ rated power
Noise Value	82dB(A) @7M
Dimensions (mm)	L 681 x W 530 x H 571
Weight (kg)	82.5
Kw	5500
Sockets	2 x 16a 115v, 1 x 32a 230v

32KW AIR HEATER



Portable air heater for use with the MFC range of shelters and decontamination showers. The HEYLO KS30T is an easy to use portable oil heater with a rated heat output of 32kW.

The heater is positioned outside the shelter and the heated air is fed into the shelter through the heater sleeve via a heat resistant hose (see accessories) .

FEATURES

- Portable oil heater with rated heat output of 32 kW
- Indirect outlet gas routing
- Compact design
- Easy to operate
- Connection of a room thermostat possible
- Easy to move with wheeled base and sturdy handle

USED FOR

- Shelters
- Decontaminations Showers

ACCESSORIES

- High-temperature air hose rated up to 150°C - length 5m, diameter 305mm. Includes clamp. (91250069)



TECHNICAL DATA

Product Code	1101503
Product Name	HEYLO KS30T
Rated heat output (kW)	32
Air flow rate (cum/h)	1150
Volume (dB(A))	72
Fuel consumption oil max. (kg/h)	2.7
Electric Connection (V/Hz)	230/50
Length (cm)	121.5
Width (cm)	44
Height (cm)	67
Weight (kg)	48
Tank volume (l)	42
Exhaust pipe (diam. cm)	15

83KW AIR HEATER



Mobile air heater for use with the MFC range of shelters and decontamination showers. The HEYLO K80 is an easy to use mobile oil heater with a rated heat output of 83kW.

The heater is positioned outside the shelter and the heated air is fed into the shelter through the heater sleeve via a heat resistant hose (see accessories) .

FEATURES

- Mobile oil heater with rated heat output of 83 kW
- Highest combustion efficiency (optimised stainless steel firing chamber / heat exchanger unit)
- Safe and easy to maintain overhead ISK® burner
- Oil pre-heating ensures safe operation at low temperatures
- High air-flow rate and compression by powerful ventilator

ACCESSORIES

- Triple outlet plate, fits 520mm outlet of K80 heater and provides 3x305mm outlets for connection to high temperature hoses (1200011)
- High-temperature air hose rated from -20°C to 110°C - length 7.6m, diameter 305mm. (1250081)
- Toggle lever hose clamp for use with air hoses and outlet plate (1250091)



Triple outlet plate



Air-Hose



Lever Hose Clamp

USED FOR

- Shelters
- Decontaminations Showers

TECHNICAL DATA

Product Code*	1101600
Product Name	HEYLO K80
Rated heat output (kW)	83
Nominal heat output (kW)	76
Air flow rate (cum/h)	6500
Available stat.compression max. (Pa)	100
Volume (dB(A))	59
Fuel consumption oil max. (kg/h)	6.8
Electric Connection (V/Hz)	230/50
Current draw max. (A)	2.45
Length (cm)	167.4
Width (cm)	87.5
Height (cm)	130
Weight (kg)	190
Exhaust pipe (diam. cm)	150
Air outlet (diam. cm)	52
Temperature increase $\Delta t(K)$	45

INTERNAL LIGHTING



Specialist LED lamps for use in inflatable shelters and decontamination showers.

These lamps feature a durable waterproof construction and using the hanging kit (sold separately), they secure easily around the tubes of the shelter frame.

FEATURES

- Waterproof (IP 67) construction can be used in indoor or outdoor areas
- Impact resistant protective polycarbonate tube with two rubber protective cuffs
- Modular structure with plug and/or cable plug system integrated into the endcaps
- Cool running LED light source low heat development eliminates risk of burns or damage to shelter
- Instant illumination, even in low temperatures - no warm up or re-strike time

ACCESSORIES

- Hanging Kit - pack of two metal retaining clamps with bungee cords for hanging LED tubes (SLZ005) - one hanging kit is required per lamp (see below)



USED FOR

- Shelters
- Decontaminations Showers

TECHNICAL DATA

Product Code*	SLZ2323/5/01DWD
Product Name	ELSPRO LED Light
Power (Watts)	23
Voltage (Volts)	230 AC
Output (Lumen)	2,300
Length (cm)	75
Tube Diameter (cm)	7
Weight (kg)	595
Cable Length (m)	5

RECHARGEABLE FLOODLIGHT



Designed for temporary floodlighting of large areas. Easy to transport and assemble. Quick and easy to setup and can illuminate the scene for up to 48 hours.

These robust weatherproof lights are used by the police, fire and rescue teams and utility groups and are ideal for illuminating large areas.

FEATURES

- Max 16,000 lumen output / 500m beam
- Two beams (wide & narrow) & three modes
- Can operate for up to 48 hours
- Mast extends to 1.85 metres height
- Power cord built into mast
- Collapses to compact size
- Supplied with AC Mains Charger
- Weather-proof IP65 rating

USED FOR

- Shelters
- Decontaminations Showers

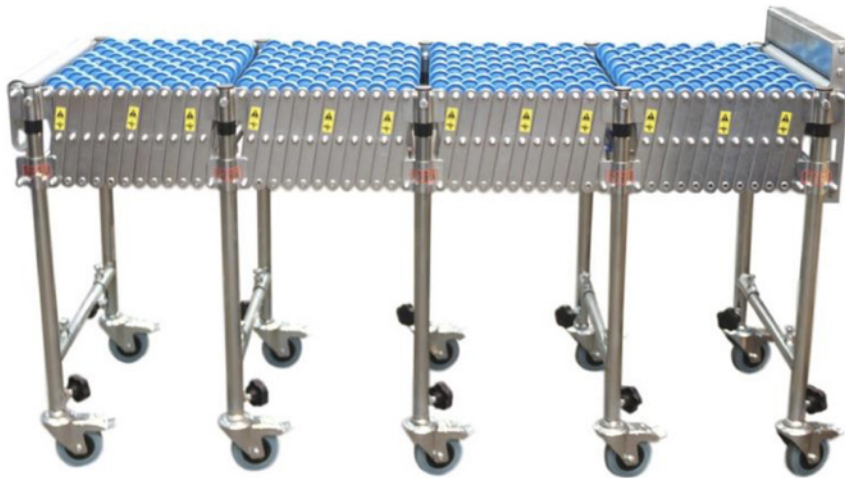


Light when folded

TECHNICAL DATA

	18AH BATTERY	38AH BATTERY
Product Description	SOLARIS PRO	SOLARIS PRO-X
Product Code	NSSOLARISPRO	NSSOLARISPRO-X
Beam (m)	Up to 500m	Up to 500m
Light Output (Lumens)		
- Wide & Narrow Beams	4,000-16,000	4,000-16,000
- Search (Wide Beam)	1,250-5,000	1,250-5,000
- Flood (Narrow Beam)	2,750-11,000	2,750-11,000
Run Time		
- Search & Flood	2h 15m - 9h	24h 30m - 18h
- Search (Wide Beam)	6h - 24h	12h - 48h
- Flood (Narrow Beam)	3h 45m - 15h	7h 30m - 30h
Dimensions (cm)	52 x 16 x 20	52 x 16 x 20
Weight (kg)	7	8.5

CASUALTY CONVEYOR



A non-powered, flexible roller conveyor on castors that is adjustable in both height and length.

This flexible roller conveyor facilitates the handling of non-ambulatory casualties through a decontamination shower. The height-adjustable stand allows you to set a comfortable working height. As the roller conveyor has wheels and can be pushed together, it is easy to move and takes up very little space when stored.

The frame of the conveyor is made of bright zinc plated steel, the concertina latticework allows the conveyor to bend, expand, and compress. The conveyor uses 48mm diameter nylon skate wheel PVC rollers. The conveyor stands on 10 braked castors of 100mm diameter. It can be extended with one or more extension units.

TECHNICAL DATA

Product Code	CON4500	CON9000
Product Name	4.5m Conveyor	9m Conveyor
Length - Fully Open (cm)	450	900
Length - Fully Closed (cm)	129	246
Width (cm)	80	80
Height (cm)	Adjustable	Adjustable
Weight (kg)	TBC	TBC

ELECTRIC INFLATOR



The Bravo 2000 electric inflator consists of a main motor and a supplementary (booster) motor, which increases the capacity and pressure. The two motors can run simultaneously to obtain maximum capacity and pressure.

On the Bravo 2000, you can press the orange button to just run the main motor, or you can press the red button to switch on the booster to help obtain maximum performance. Both motors are protected by thermal fuses.

FEATURES

- Inflates and deflates
- Has a robust outer steel casing for additional protection
- Fitted with main motor and a booster motor to increase capacity and pressure
- 3m integral mains power lead comes with 2 pin plug*
- Comes with an inflation hose, 7 different adapters and a shoulder carry strap

USED FOR

- Inflation/deflation of our inflatable product range

TECHNICAL DATA

Bravo 2000 Electric Inflator

Product Code	180026
Voltage Supply	230V (Main Motor) 230V (Booster)
Max. Power	1000W / 2000W
Max. Pressure	140 mbar (2 psi) / 400 mbar (5.8 psi)
Max. Flow Rate	1200 l/min / 2000 l/min
Dimensions	32 x 17 x 26 cm
Weight	4.1 kg

BALLAST BAGS



Water filled ballast bags for use with the MFC range of inflatable shelters and decontamination showers. Ballast bags provide a quick and simple method of securing shelters on hard surfaces where they cannot be staked to the ground.

Bags use a watertight welded construction and are hold a maximum of 25 liters of water. They are designed to fit on the groundsheet skirt of MFC shelters or are strapped to the tubes of showers.

TECHNICAL DATA

	Ballast Bag
Product Code	WBB001
Length (cm)	70
Width (cm)	35
Max Volume (L)	25
Max Full Weight (kg) (1l of water weighs 1kg)	26.5

BALLAST RECOMMENDATIONS

SHELTER	Bag Quantity	Ballast Weight
SHW/09 (3 x 3m)	4	80kg
SHW/12 (3 x 4m)	4	100kg
SHW/16 (4 x 4m)	6	120kg
SHW/20 (4 x 5m)	6	150kg
SHW/25 (5 x 5m)	8	160kg
SHW/30 (5 x 6m)	8	200kg
SHW/36 (6 x 6m)	10	250kg
SHW/51 (6 x 8.5m)	12	300kg



MFCInternational
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