**General**

**Equipment Name**

**Karcher Portable Lightweight Decontamination System DS 10**

**Decontamination Process**

Physical (removes contaminant) and Thermal (removes contaminant)

**Applications**

<table>
<thead>
<tr>
<th>Personnel</th>
<th>Equipment</th>
<th>Infrastructure</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

**Application Notes**

The DS 10 is a portable lightweight decontamination system designed for the CB decontamination of personal equipment, and exterior equipment (i.e., vehicles, aircraft, protective suits). The system is in service in Austria, Belgium, Germany, Norway, Sweden, and some countries in the Middle East. This high-pressure system is equipped with a mixing device to generate different solutions or emulsions, thus allowing it to decontaminate a wide variety of items. The DS 10 consists of a 10 L pressure tank, a mixing device, and an air pump to pressurize the system. A pressure relief valve opens if the maximum operating pressure (6 bar) is exceeded.

**Availability**

Commercially available

**Current User**

In service in Austria, Belgium, Germany, Norway, and Sweden.

**Manufacturer**

KARCHER
Alfred Karcher Gmbh & Company
Alfred-Karcher-Strasse 28-40
Winnenden, Germany D-71364
+49–7195–142262 (Tel)
+49–7195–142780 (Fax)
email: hans-joachim.toepfer@de.kaercher.com

U.S. Agent: Life Safety Systems
343 Soquel Avenue, Suite 317
Santa Cruz, CA 95062
POC: Bill Conklin
831–728–9090 (Tel)
831–429–2224 (Tel)
info@lifesafetysys.com

**Source**

### Operational Parameters

<table>
<thead>
<tr>
<th>CW Agents Decontaminated</th>
<th>Known theater agents</th>
</tr>
</thead>
<tbody>
<tr>
<td>BW Agents Decontaminated</td>
<td>Known theater agents</td>
</tr>
<tr>
<td>High Hazard TIMs</td>
<td>Not specified</td>
</tr>
<tr>
<td>Decontaminated</td>
<td></td>
</tr>
<tr>
<td>Medium Hazard TIMs</td>
<td>Not specified</td>
</tr>
<tr>
<td>Decontaminated</td>
<td></td>
</tr>
<tr>
<td>Low Hazard TIMs</td>
<td>Not specified</td>
</tr>
<tr>
<td>Decontaminated</td>
<td></td>
</tr>
<tr>
<td>Decontaminant Solutions</td>
<td>User selected</td>
</tr>
<tr>
<td>Capacity/Throughput</td>
<td>Decontaminates an area of $535 \text{ ft}^2$</td>
</tr>
<tr>
<td>Set-up Time</td>
<td>15 min</td>
</tr>
</tbody>
</table>

### Physical Parameters

<table>
<thead>
<tr>
<th>Size</th>
<th>Cylinder, 2.30 H and 0.68 (ft) in diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>20.9 lb</td>
</tr>
<tr>
<td>Power Requirements</td>
<td>None</td>
</tr>
</tbody>
</table>

### Logistical Parameters

<table>
<thead>
<tr>
<th>Consumables Required</th>
<th>Decontaminant, water</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maintenance Repairs Required</td>
<td>Test semi-annually</td>
</tr>
<tr>
<td>Shelf Life</td>
<td>Not specified</td>
</tr>
<tr>
<td>Transportability</td>
<td>Man-Pack Portable Decontamination Unit</td>
</tr>
<tr>
<td>Durability</td>
<td>Built to military specifications</td>
</tr>
<tr>
<td>Environmental Conditions</td>
<td>The system has an operating temperature of 140 °F</td>
</tr>
<tr>
<td>Environmental Considerations</td>
<td>Not specified</td>
</tr>
<tr>
<td>Resources</td>
<td>Not specified</td>
</tr>
<tr>
<td>Unit Cost</td>
<td>$1.9K</td>
</tr>
<tr>
<td>Maintenance Cost</td>
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</tr>
<tr>
<td>Warranty</td>
<td>Not specified</td>
</tr>
</tbody>
</table>

### Special Requirements

<table>
<thead>
<tr>
<th>Operator Skills Required</th>
<th>Minimal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operator Training Required</td>
<td>Minimal</td>
</tr>
<tr>
<td>Training Available</td>
<td>Yes, on site</td>
</tr>
<tr>
<td>Manuals Available</td>
<td>Training manuals</td>
</tr>
<tr>
<td>Support Equipment</td>
<td>Decontaminant, water</td>
</tr>
<tr>
<td>Testing Information</td>
<td>Information not available</td>
</tr>
<tr>
<td>Applicable Regulations</td>
<td>Not specified</td>
</tr>
</tbody>
</table>
**General**

**Equipment Name**
Karcher Hot Air Generator FB 60 E

**ID# 49**

---

**Decontamination Process**
Physical (removes contaminant) and/or Chemical (neutralizes contaminant)

**Applications**

<table>
<thead>
<tr>
<th>Personnel</th>
<th>Equipment</th>
<th>Infrastructure</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

**Application Notes**
The FB 60 E is a hot air generator used to decontaminate interior equipment, personal equipment, and exterior equipment. It is currently in service with the Australian, German, and U.S. armed forces. The FB 60 E coupled with an interior decontamination extension set with special filters is used to decontaminate interior equipment. The FB 60 E is comprised of a main fan and fuel pump, which are powered by a central 220 V electric motor. Incoming air, drawn through the radial fan, is heated using a burner and heat exchanger. The system requires diesel, diesel-petrol, or kerosene fuels to operate. The FB 60 E can be used for a variety of applications other than decontamination (i.e., ventilating NBC decontamination stations, heating or cooling cabins, cockpits, tents, or shelters).

**Availability**
Commercially available

**Current User**
In service with Australian, German, and U.S. Armed Forces

**Manufacturer**
KARCHER
Alfred Karcher GmbH & Company
Alfred-Karcher-Strasse 28-40
Winnenden, Germany D-71364
+49–7195–142262 (Tel)
+49–7195–142780 (Fax)
e-mail: hans-joachim.toepfer@de.kaercher.com

U.S. Agent: Life Safety Systems
343 Soquel Avenue, Suite 317
Santa Cruz, CA 95062
POC: Bill Conklin
831–728–9090 (Tel)
831–429–2224 (Tel)
e-mail: info@lifesafetysys.com

**Source**
### Operational Parameters

- **CW Agents Decontaminated**: GB, VX, HD
- **BW Agents Decontaminated**: All
- **High Hazard TIMs Decontaminated**: Not specified
- **Medium Hazard TIMs Decontaminated**: Not specified
- **Low Hazard TIMs Decontaminated**: Not specified
- **Decontaminant Solutions**: Water
- **Capacity/Throughput**: Not specified
- **Set-up Time**: Not specified

### Physical Parameters

- **Size**: 5.64 L x 2.42 W x 1.01 H (ft)
- **Weight**: 441 lb
- **Power Requirements**: Self powered via diesel fuel

### Logistical Parameters

- **Consumables Required**: Filters, fuel
- **Maintenance Repairs Required**: Yes (monthly start-up)
- **Shelf Life**: 10 yr
- **Transportability**: Not specified
- **Durability**: Built to military specifications
- **Environmental Conditions**: The FB 60 E is capable of working at temperatures as low as -22 °F
- **Environmental Considerations**: Not specified
- **Resources**: 1 person to start and monitor
- **Unit Cost**: $17.5K
- **Maintenance Cost**: Not specified
- **Warranty**: Not specified

### Special Requirements

- **Operator Skills Required**: Not specified
- **Operator Training Required**: 2 h of training is required to operate this system
- **Training Available**: Yes, on site
- **Manuals Available**: User manual
- **Support Equipment**: Light transport
- **Testing Information**: Test data available upon request
- **Applicable Regulations**: Not specified
General
Equipment Name: Karcher MPDS MultiPurpose Decontamination System

Decontamination Process
Physical (removes contaminant) and Thermal (removes contaminant)

Applications

Personnel | Equipment | Infrastructure
---|---|---
Yes | Yes | No

Application Notes
The MPDS is used to decontaminate skin and personal equipment, exterior equipment, and interior equipment. The system is currently in service with armed forces in Australia, Austria, Canada, Portugal, Sweden, United Kingdom, U.S., and NATO Headquarters. The MPDS is equipped with a high-pressure (60 bar) spray system and depending on the decontaminant used, the MPDS may employ either chemical or mechanical technologies. The MPDS is also equipped with a diesel engine, a burner, and a high-pressure water pump (maximum suction height of 5 m). Liquid decontaminants can be introduced into the water stream via the high-pressure pump at a rate up to 60 L/h. For easy usability, all MPDS operations can be controlled using an electrical control panel. The MPDS can also be used to provide water for showers in the field, steam explosives from munitions, or de-ice aircraft and missile systems. In addition, a sandblasting set is included to allow the removal of corrosion from equipment.

Availability
Commercially available

Current User
In service with Austria, Belgium, Germany, Norway, Sweden

Manufacturer
KARCHER
Alfred Karcher GmbH & Company
Alfred-Karcher-Strasse 28-40
Winnenden, Germany D-71364
+49–7195–142262 (Tel)
+49–7195–142780 (Fax)
email: hans-joachim.toepfer@de.kaercher.com

U.S. Agent: Life Safety Systems
343 Soquel Avenue, Suite 317
Santa Cruz, CA 95062
POC: Bill Conklin
831–728–9090 (Tel)
831–429–2224 (Tel)
info@lifesafetysys.com
**Source**

**Operational Parameters**
- **CW Agents Decontaminated**: Known theater agents
- **BW Agents Decontaminated**: Known theater agents
- **High Hazard TIMs Decontaminated**: Not specified
- **Medium Hazard TIMs Decontaminated**: Not specified
- **Low Hazard TIMs Decontaminated**: Not specified
- **Decontaminant Solutions**: Not specified
- **Capacity/Throughput**: Not specified
- **Set-up Time**: Not specified

**Physical Parameters**
- **Size**: 4.10 L x 1.88 W x 2.78 H (ft)
- **Weight**: 484 lb
- **Power Requirements**: 4-stroke diesel engine that develops 5.6 hp at 3000 rpm

**Logistical Parameters**
- **Consumables Required**: Decontaminant, Fuel
- **Maintenance Repairs Required**: Monthly start-up and testing
- **Shelf Life**: Not specified
- **Transportability**: Light truck transport
- **Durability**: Built to military specifications
- **Environmental Conditions**: -22 °F to 140 °F (operating temperature)
- **Environmental Considerations**: Not specified
- **Resources**: Not specified
- **Unit Cost**: Not specified
- **Maintenance Cost**: Not specified
- **Warranty**: Not specified

**Special Requirements**
- **Operator Skills Required**: Not specified
- **Operator Training Required**: Not specified
- **Training Available**: Not specified
- **Manuals Available**: Not specified
- **Support Equipment**: Not specified
- **Testing Information**: Information not available
- **Applicable Regulations**: Not specified
**General**

**Equipment Name**  
Karcher Hot Air Generator FB 20

**ID#** 51

**Decontamination Process**  
Physical (removes contaminant)

**Applications**

<table>
<thead>
<tr>
<th>Personnel</th>
<th>Equipment</th>
<th>Infrastructure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

**Application Notes**  
The FB 20 is a hot air generator designed for the decontamination of clothing and other equipment placed inside a chamber or tent.

**Availability**  
Commercially available

**Current User**  
In service with Canada, Denmark, Germany, Norway, Sweden, USA, and other NATO Forces

**Manufacturer**  
KARCHER  
Alfred Karcher GmbH & Company  
Alfred-Karcher-Strasse 28-40  
Winnenden, Germany D-71364  
+49–7195–142262 (Tel)  
+49–7195–142780 (Fax)  
email: hans-joachim.toepfer@de.kaercher.com

**U.S. Agent:** Life Safety Systems  
343 Soquel Avenue, Suite 317  
Santa Cruz, CA 95062  
POC: Bill Conklin  
831–728–9090 (Tel)  
831–429–2224 (Tel)  
info@lifesafety.sys.com

**Source**  

---

**Operational Parameters**

**CW Agents Decontaminated**  
Not specified

**BW Agents Decontaminated**  
Not specified

**High Hazard TIMs Decontaminated**  
Not specified

**Medium Hazard TIMs Decontaminated**  
Not specified
Low Hazard TIMs
Decontaminated
Decontaminant Solutions
Capacity/Throughput
Set-up Time
Not specified

Physical Parameters
Size
4.44 L x 1.50 W x 1.98 H (ft)
Weight
171.6 lb
Power Requirements
230 V @ 50 Hz electrical power

Logistical Parameters
Consumables Required
Fuel
Maintenance Repairs Required
Not specified
Shelf Life
Not specified
Transportability
Not specified
Durability
Built to military specifications
Environmental Conditions
All environments
Environmental Considerations
All conditions
Resources
Not specified
Unit Cost
Not specified
Maintenance Cost
Not specified
Warranty
Not specified

Special Requirements
Operator Skills Required
Basic technical skills
Operator Training Required
8 h
Training Available
Yes
Manuals Available
Training manuals
Support Equipment
Light transport vehicle
Testing Information
Information not available
Applicable Regulations
Not specified
General

Equipment Name

Karcher AEDA1 Decontamination Equipment

Decontamination Process

Physical and Thermal (removes contaminant)

Applications

Personnel Equipment Infrastructure

No Yes No

Application Notes

The AEDA1, in service with German forces, is designed to decontaminate sensitive and interior equipment. The system employs a combination of low-temperature thermal technology and mechanical technology. The AEDA1 is comprised of four components: an aerosol spray dispenser, a hot air generator, a remote-control unit, and a surface cleaning system. Interior decontamination is conducted by spraying the contaminated surfaces with any decontaminant solution. The fine mist remains long enough in the air to decontaminate any contamination in the air. The decontaminant droplets also decontaminate material surfaces on contact. After the aerosol spray, the hot air generator is used to heat up the interior air and the interior equipment to neutralize any remaining agents. A remote-control unit can be used to operate the hot air generator as well as to control the temperature of the air. The surface cleaning system resembles a vacuum cleaner and is used to remove any decontamination solution residue. The cleaner dispenses a liquid disinfecting solution and then vacuums the residue into a waste tank. The surface cleaning system has an output rate of 1 L/min with a pressure of 1 bar.

Availability

Commercially available

Current User

In service with German Armed Forces and Crisis Reaction Forces

Manufacturer

KARCHER
Alfred Karcher GmbH & Company
Alfred-Karcher-Strasse 28-40
Winnenden, Germany D-71364
+49–7195–142262 (Tel)
+49–7195–142780 (Fax)
email: hans-joachim.toepfer@de.kaercher.com

U.S. Agent: Life Safety Systems
343 Soquel Avenue, Suite 317
Santa Cruz, CA 95062
POC: Bill Conklin
831–728–9090 (Tel)
831–429–2224 (Tel)
info@lifesafetysys.com
Source

**Operational Parameters**

- **CW Agents Decontaminated**
  - Known theater agents
- **BW Agents Decontaminated**
  - Known theater agents
- **High Hazard TIMs Decontaminated**
  - Not specified
- **Medium Hazard TIMs Decontaminated**
  - Not specified
- **Low Hazard TIMs Decontaminated**
  - Not specified
- **Decontaminant Solutions**
  - User selected
- **Capacity/Throughput**
  - Dispenses 1 L of decontaminant per minute
- **Set-up Time**
  - 15 min to 30 min

**Physical Parameters**

- **Size**
  - 27 x 19 x 25 (in)
- **Weight**
  - 69 lb

**Logistical Parameters**

- **Consumables Required**
  - Decontaminant
- **Maintenance Repairs Required**
  - Quarterly test
- **Shelf Life**
  - Not specified
- **Transportability**
  - Portable decontamination unit
- **Durability**
  - Heavy duty construction
- **Environmental Conditions**
  - Works in all climates
- **Environmental Considerations**
  - Not specified
- **Resources**
  - Not specified
- **Unit Cost**
  - Not specified
- **Maintenance Cost**
  - Not specified
- **Warranty**
  - Not specified

**Special Requirements**

- **Operator Skills Required**
  - Basic skills
- **Operator Training Required**
  - 8 h
- **Training Available**
  - Yes, on site
- **Manuals Available**
  - Training manual
- **Support Equipment**
  - Not specified
- **Testing Information**
  - Information not available
- **Applicable Regulations**
  - Not specified
**General**

**Equipment Name**  
Karcher M600 Decontaminant Mixer

**ID# 53**

**Decontamination Process**  
Mixes Decontaminant Agents

**Applications**

<table>
<thead>
<tr>
<th>Personnel</th>
<th>Equipment</th>
<th>Infrastructure</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

**Application Notes**  
The M600 Decontaminant Mixer, in service with NATO forces, is designed to add and mix decontaminants using water jets for use with high-pressure cleaning systems. Depending on the decontaminant used, the M600 may employ either chemical or mechanical technologies. The M600 is equipped with a mixer, a 25 m hose, and a spray lance. The system is linked to a high-pressure system with a pressure hose and an electrical cable.

**Availability**  
Commercially available

**Current User**  
In service with NATO countries

**Manufacturer**  
KARCHER  
Alfred Karcher GmbH & Company  
Alfred-Karcher-Strasse 28-40  
Winnenden, Germany D-71364  
+49–7195–42262 (Tel)  
+49–7195–142780 (Fax)  
email: hans-joachim.toepfer@de.kaercher.com

U.S. Agent: Life Safety Systems  
343 Soquel Avenue, Suite 317  
Santa Cruz, CA 95062  
POC: Bill Conklin  
831–728–9090 (Tel)  
831–429–2224 (Tel)  
info@lifesafetysys.com

**Source**  

**Operational Parameters**

**CW Agents Decontaminated**  
Not specified

**BW Agents Decontaminated**  
Not specified
<table>
<thead>
<tr>
<th>Classification</th>
<th>Status</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Hazard TIMs</td>
<td>Decontaminated</td>
<td>Not specified</td>
</tr>
<tr>
<td>Medium Hazard TIMs</td>
<td>Decontaminated</td>
<td>Not specified</td>
</tr>
<tr>
<td>Low Hazard TIMs</td>
<td>Decontaminated</td>
<td>Not specified</td>
</tr>
<tr>
<td>Decontaminant Solutions</td>
<td></td>
<td>Not specified</td>
</tr>
<tr>
<td>Capacity/Throughput</td>
<td></td>
<td>Not specified</td>
</tr>
<tr>
<td>Set-up Time</td>
<td></td>
<td>Not specified</td>
</tr>
</tbody>
</table>

**Physical Parameters**

- **Size**: 1.83 L x 1.96 W x 2.75 H (ft)
- **Weight**: 88 lb
- **Power Requirements**: 12 V or 24 V supply

**Logistical Parameters**

- **Consumables Required**: Decontaminant
- **Maintenance Repairs Required**: Monthly test
- **Shelf Life**: Not specified
- **Transportability**: Light truck transport
- **Durability**: Built to military specifications
- **Environmental Conditions**: Operates in all climates
- **Environmental Considerations**: Not specified
- **Resources**: Not specified
- **Unit Cost**: Not specified
- **Maintenance Cost**: Not specified
- **Warranty**: Not specified

**Special Requirements**

- **Operator Skills Required**: Basic skills
- **Operator Training Required**: 8 h
- **Training Available**: Yes
- **Manuals Available**: Training manuals
- **Support Equipment**: Truck transport
- **Testing Information**: Information not available
- **Applicable Regulations**: Not specified
**General**

Equipment Name  
*Atmospheric Pressure Plasma Jet*

ID# 54

Picture Not Available

---

**Decontamination Process**

Physical (removes contaminant)

**Applications**

<table>
<thead>
<tr>
<th>Personnel</th>
<th>Equipment</th>
<th>Infrastructure</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

**Application Notes**

The Atmospheric Pressure Plasma Jet (APPJ) is a developmental item designed to decontaminate sensitive and interior equipment. The APPJ is under development by the Los Alamos National Laboratory in New Mexico, USA. The system employs oxidation technology.

**Availability**

Commercially available

**Current User**

Not specified

**Manufacturer**

Los Alamos National Laboratory  
P-24 Plasma Physics, M/S E526  
Los Alamos, NM 87545  
505–665–6157 (Tel)  
505–665–3552 (Fax)  
email: herrmann@lanl.gov

**Source**


---

**Operational Parameters**

- CW Agents Decontaminated: None
- BW Agents Decontaminated: None
- High Hazard TIMs: None
- Decontaminated: None
- Medium Hazard TIMs: None
- Decontaminated: None
- Low Hazard TIMs: None
- Decontaminated: None
- Decontaminant Solutions: None
- Capacity/Throughput: Not specified
- Set-up Time: Not specified

**Physical Parameters**
<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
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</tr>
<tr>
<td>Weight</td>
<td>Not specified</td>
</tr>
<tr>
<td>Power Requirements</td>
<td>Not specified</td>
</tr>
<tr>
<td><strong>Logistical Parameters</strong></td>
<td></td>
</tr>
<tr>
<td>Consumables Required</td>
<td>Not specified</td>
</tr>
<tr>
<td>Maintenance Repairs Required</td>
<td>Not specified</td>
</tr>
<tr>
<td>Shelf Life</td>
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</tr>
<tr>
<td>Transportability</td>
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</tr>
<tr>
<td>Durability</td>
<td>Not specified</td>
</tr>
<tr>
<td>Environmental Conditions</td>
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<tr>
<td>Environmental Considerations</td>
<td>Not specified</td>
</tr>
<tr>
<td>Resources</td>
<td>Not specified</td>
</tr>
<tr>
<td>Unit Cost</td>
<td>Not specified</td>
</tr>
<tr>
<td>Maintenance Cost</td>
<td>Not specified</td>
</tr>
<tr>
<td>Warranty</td>
<td>Not specified</td>
</tr>
<tr>
<td><strong>Special Requirements</strong></td>
<td></td>
</tr>
<tr>
<td>Operator Skills Required</td>
<td>Not specified</td>
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<tr>
<td>Operator Training Required</td>
<td>Not specified</td>
</tr>
<tr>
<td>Training Available</td>
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<tr>
<td>Manuals Available</td>
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<tr>
<td>Support Equipment</td>
<td>Not specified</td>
</tr>
<tr>
<td>Testing Information</td>
<td>Information not available</td>
</tr>
<tr>
<td>Applicable Regulations</td>
<td>Not specified</td>
</tr>
</tbody>
</table>
### General

**Equipment Name**
Decon Hoop

**ID# 55**

---

### Decontamination Process

Physical (removes contaminant)

### Applications

<table>
<thead>
<tr>
<th>Personnel</th>
<th>Equipment</th>
<th>Infrastructure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

### Application Notes

The Decon Hoop is a portable spray hoop used to decontaminate skin and personal equipment as well as exterior equipment. The Decon Hoop is commercially available in the U.S. and is manufactured by MITI Manufacturing. The apparatus employs mechanical technology.

### Availability

Commercially available

### Current User

U.S. Army, U.S. Navy, U.S. Air Force, various municipal fire departments, and several industrial companies in the hazardous chemical industry.

### Manufacturer

MITI Manufacturing, Inc.
2996 Teller Court
Grand Junction, CO 81504
970–243–9500 (Tel)
970–243–9200 (Fax)

### Source


---

### Operational Parameters

<table>
<thead>
<tr>
<th>CW Agents Decontaminated</th>
<th>GB, VX, HD</th>
</tr>
</thead>
<tbody>
<tr>
<td>BW Agents Decontaminated</td>
<td>All</td>
</tr>
<tr>
<td>High Hazard TIMs</td>
<td>Not specified</td>
</tr>
<tr>
<td>Decontaminated</td>
<td></td>
</tr>
<tr>
<td>Medium Hazard TIMs</td>
<td>Not specified</td>
</tr>
<tr>
<td>Decontaminated</td>
<td></td>
</tr>
<tr>
<td>Low Hazard TIMs</td>
<td>Not specified</td>
</tr>
<tr>
<td>Decontaminated</td>
<td></td>
</tr>
<tr>
<td>Decontaminant Solutions</td>
<td>Water</td>
</tr>
<tr>
<td>Capacity/Throughput</td>
<td>Dispenses 4.6 gal/min to 5.1 gal/min</td>
</tr>
<tr>
<td>Set-up Time</td>
<td>2 min</td>
</tr>
</tbody>
</table>
**Physical Parameters**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>3.75 o.d. x 3.25 i.d. (ft)</td>
</tr>
<tr>
<td>Weight</td>
<td>10 lb</td>
</tr>
<tr>
<td>Power Requirements</td>
<td>None</td>
</tr>
</tbody>
</table>

**Logistical Parameters**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Consumables Required</td>
<td>Decontaminant</td>
</tr>
<tr>
<td>Maintenance Repairs Required</td>
<td>Not specified</td>
</tr>
<tr>
<td>Shelf Life</td>
<td>Not specified</td>
</tr>
<tr>
<td>Transportability</td>
<td>Portable decontamination unit</td>
</tr>
<tr>
<td>Durability</td>
<td>Constructed from durable heliarc-welded lightweight, corrosion free aluminum pipe and tubes.</td>
</tr>
<tr>
<td>Environmental Conditions</td>
<td>Information not available</td>
</tr>
<tr>
<td>Environmental Considerations</td>
<td>Not specified</td>
</tr>
<tr>
<td>Resources</td>
<td>Not specified</td>
</tr>
<tr>
<td>Unit Cost</td>
<td>$585 to $775 (based upon quantity and configuration)</td>
</tr>
<tr>
<td>Maintenance Cost</td>
<td>Not specified</td>
</tr>
<tr>
<td>Warranty</td>
<td>1 yr</td>
</tr>
</tbody>
</table>

**Special Requirements**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operator Skills Required</td>
<td>Minimal</td>
</tr>
<tr>
<td>Operator Training Required</td>
<td>None</td>
</tr>
<tr>
<td>Training Available</td>
<td>Not specified</td>
</tr>
<tr>
<td>Manuals Available</td>
<td>Not specified</td>
</tr>
<tr>
<td>Support Equipment</td>
<td>Decon waste collection pool, portable foot pump, soap injector, water distribution manifolds</td>
</tr>
<tr>
<td>Testing Information</td>
<td>Information not available</td>
</tr>
<tr>
<td>Applicable Regulations</td>
<td>Not specified</td>
</tr>
</tbody>
</table>
**General**

**Equipment Name**

ID# 56

---

**SNL Decon Formulation**

**Decontamination Process**

Chemical (neutralizes contaminant)

**Applications**

<table>
<thead>
<tr>
<th>Personnel</th>
<th>Equipment</th>
<th>Infrastructure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Application Notes**

A nontoxic, noncorrosive, aqueous formulation for the rapid mitigation and decontamination of CBW agents. SNL Decon Formulation can be deployed as a foam, liquid spray, or fog. Potentially, the formulation can be used by first responders of an attack and by personnel assigned to restoration of an affected facility after an attack. The formulation works quickly, does not generate toxic by-products. It can be deployed by small handheld devices, similar to fire extinguishers, and in large-scale foam-generating devices. The formulation as liquid spray can be disseminated by means of commercially available paint sprayers. Commercially available cold foggers work well when deploying the formulation as fog.

**Availability**

Available

**Current User**

National guards, over 120 Federal, State, and local agencies

**Manufacturer**

Modec, Inc.

4725 Oakland St.

Denver, CO 80239

800–967–7887 (Tel)

303–373–2699 (Fax)

Developed by Sandia National Laboratories

POC: Brian Kalamanka

www.massdecon.com

**Source**

Modec, Inc.

www.deconsolutions.com

---

**Operational Parameters**

- **CW Agents Decontaminated**: G agents, VX, Mustard
- **BW Agents Decontaminated**: Bacillus globigii (a simulant of anthrax spores), Erwinia herbicola (a simulant for vegetative bacterial cells), MS-2 bacteriophage (a simulant for viruses)
<table>
<thead>
<tr>
<th><strong>High Hazard TIMs</strong></th>
<th>Decontaminated</th>
<th>Not specified</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Medium Hazard TIMs</strong></td>
<td>Decontaminated</td>
<td>Not specified</td>
</tr>
<tr>
<td><strong>Low Hazard TIMs</strong></td>
<td>Decontaminated</td>
<td>Not specified</td>
</tr>
<tr>
<td><strong>Decontaminant Solutions</strong></td>
<td>Nontoxic, noncorrosive, environmental friendly</td>
<td></td>
</tr>
<tr>
<td><strong>Capacity/Throughput</strong></td>
<td>50:1 expansion rate</td>
<td></td>
</tr>
<tr>
<td><strong>Set-up Time</strong></td>
<td>Immediate</td>
<td></td>
</tr>
</tbody>
</table>

**Physical Parameters**

| **Size** | Several sizes available of output hose: 1 in, 1-1/2 in, 2 in, or 3 in line |
| **Weight** | Varies according to model |
| **Power Requirements** | Dependant on equipment, can be delivered manually |

**Logistical Parameters**

| **Consumables Required** | None |
| **Maintenance Repairs Required** | Routine |
| **Shelf Life** | Indefinite |
| **Transportability** | Depends on application |
| **Durability** | Ruggedized commercial equipment |
| **Environmental Conditions** | Can be operated on all terrains and in remote locations |
| **Environmental Considerations** | None |
| **Resources** | One person |
| **Unit Cost** | Depends on size and application |
| **Maintenance Cost** | Minimal |
| **Warranty** | Depends on equipment |

**Special Requirements**

| **Operator Skills Required** | Minimal |
| **Operator Training Required** | Minimal |
| **Training Available** | Yes |
| **Manuals Available** | Yes |
| **Support Equipment** | Typical hose line |
| **Testing Information** | Available, under www.deconsolutions.com\SNL.formulation |
| **Applicable Regulations** | Not specified |
**General**

**Equipment Name**

Reactive Skin Decontaminant Lotion

ID# 57

**Decontamination Process**

Chemical (neutralizes contaminant)

**Applications**

<table>
<thead>
<tr>
<th>Personnel</th>
<th>Equipment</th>
<th>Infrastructure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

**Application Notes**

The Reactive Skin Decontamination Lotion (RSDL) is designed to neutralize CWAs on skin and personal equipment. The lotion is manufactured in Canada by O’Dell Engineering Ltd., and is in service with the Canadian Armed Forces. The lotion employs chemical technology and is effective on vesicants (H and L) and nerve agents (G and V). The lotion is supplied in easy to use individual pouches with a foam applicator for personal decontamination and equipment decontamination. The lotion can also be distributed in large containers in order to treat mass casualties. The lotion is nontoxic and has been proven to be safe to use on the eyes. Any left over residue can be washed away with water.

**Availability**

Commercially available

**Current User**

Canadian Dept. of National Defense, Netherlands, Australia, OPCW

**Manufacturer**

O’Dell Engineering Ltd.

28 Hilborn Avenue

Cambridge, Ontario, Canada N1T 1M7

519–740–8620 (Tel)

519–740–9483 (Fax)

email: rsdl@odell.on.ca

**Source**


Irvin Aerospace Canada Ltd.

**Operational Parameters**

**CW Agents Decontaminated**

All known military chemical agents

**BW Agents Decontaminated**

Effective against some military biological agents. Contact manufacturer for details

**High Hazard TIMs Decontaminated**

Under study
Medium Hazard TIMs  Under study
Decontaminated
Low Hazard TIMs  Under study
Decontaminated
Decontaminant Solutions  RSDL; bio-degradable/nonflammable
Capacity/Throughput  Individual decontamination; each person carries own bottle/pouch
Set-up Time  None

**Physical Parameters**

Size  500 mL bottle or individual pouches (6 in x 6 in x .5 in)
Weight  1.2 lb (pouch is 2 oz)
Power Requirements  None

**Logistical Parameters**

Consumables Required  None
Maintenance Repairs Required  None
Shelf Life  Call for information
Transportability  Fully portable. Can be carried in pocket or pouch
Durability  Provided in a protective pouch
Environmental Conditions  Operates in common civilian and military environments
Environmental Considerations  Waste disposal
Resources  One person (individual)
Unit Cost  Call for information (volume dependant)
Maintenance Cost  None
Warranty  Not applicable

**Special Requirements**

Operator Skills Required  Minimal to none
Operator Training Required  Minimal to none
Training Available  1 h
Manuals Available  User manuals, training guidelines, and training simulant
Support Equipment  None
Testing Information  Testing on the RSDL has been done by the Canadian Defense Research Establishment Suffield (DRES) (Government Agency). The following test report is available upon request: Repeated Dermal Toxicity Trial of the Canadian Reactive Skin Decontaminant Lotion (RSDL) (DRES)

Applicable Regulations  Not FDA approved
General

Equipment Name
Plychem DECAS W Casualty Decontamination Unit

Decontamination Process
Physical (removes contaminant)

Applications

Personnel  Equipment  Infrastructure
Yes  No  No

Application Notes
The DECAS W is a portable inflatable casualty decontamination shower manufactured in the United Kingdom by Plysu PLC. It is designed for skin and personnel decontamination. It is equipped with a step-down water pressure reducer to moderate water supply pressures and a choice of valve-operated, hand-held showerheads is available. The unit is large enough to accommodate a casualty on a wheeled stretcher with Paramedics attending inside, or several walking wounded. Strategically placed clear windows are included for official observation, and a disposable inner lining can be incorporated. A remote water-heating unit is also available.

Availability
Ex stock to maximum few weeks

Current User
Fire and ambulance services, hospitals

Manufacturer
Plysu PLC
United Kingdom
U.S. Agent: FSI North America
Division of Fire Safety, International, Inc.
POC: Mark Conron
440–891–1523 (Tel)
440–891–1562 (Fax)
www.fsinorth.com

Source

Operational Parameters

CW Agents Decontaminated
Not specified

BW Agents Decontaminated
Not specified

High Hazard TIMs Decontaminated
Wide range

Medium Hazard TIMs Decontaminated
Wide range
Low Hazard TIMs
Decontaminated
Decontaminant Solutions
Capacity/Throughput
Set-up Time

**Physical Parameters**

Size
9.35 L x 6.1/4.9 W x 6.7 H (ft)
Packed - approximately 3.3 x 2.5 x 1.6 (ft)

Weight
Approximately 88 lb

Power Requirements
Decon unit – none
Optional water heating unit - 222 V to 240 V, 5 kW, 32 A

**Logistical Parameters**

Consumables Required
Compressed air for inflation. Optional disposable inner lining.

Maintenance Repairs Required
Clean, dry, and check over after use.

Shelf Life
5 yr

Transportability
Highly transportable - low weight and small footprint

Durability
Constructed from durable polymer material

Environmental Conditions
Operates in most environments

Environmental Considerations
Safe disposal of collected waste

Resources
1 to 2 people are required to fully operate the decontamination system

Unit Cost
$5.5K to $11.5K depending on specification and optional equipment (e.g., water heating unit)

Maintenance Cost
Very minimal

Warranty
1 yr

**Special Requirements**

Operator Skills Required
No special skills, but training recommended

Operator Training Required
1 h to 3 h

Training Available
Yes

Manuals Available
User manuals and training media

Support Equipment
Optional water heating and generator for remote use

Testing Information
Information not available

Applicable Regulations
Not specified
**General**

**Equipment Name**  
PLYCHEM DPI Decontamination Unit

**ID# 59**

---

<table>
<thead>
<tr>
<th>Decontamination Process</th>
<th>Physical (removes contaminant)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Applications</th>
<th>Personnel</th>
<th>Equipment</th>
<th>Infrastructure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
</tbody>
</table>

| Application Notes | The PLYCHEM DPI is a portable inflatable decontamination shower manufactured in the United Kingdom by Plysu PLC. It is designed for skin and personnel decontamination. The DPI is constructed from durable polymer material with entry and exit ports. At a rate of 40 L/min, a mist spray of water or water plus decontaminant solution is used in conjunction with an integral brush. External personnel can assist decontamination through optional glove sleeves. Clear windows are included for official observation and a disposable inner lining can be incorporated. |

<table>
<thead>
<tr>
<th>Availability</th>
<th>Ex stock to maximum few weeks</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Current User</th>
<th>Fire services and high risk industries</th>
</tr>
</thead>
</table>

| Manufacturer | Plysu PLC  
United Kingdom  
U.S. Agent: FSI North American  
Division of Fire Safety International, Inc.  
Berea, OH 44017  
POC: Mark Conron  
440–891–1523 (Tel)  
440–891–1562 (Fax)  
www.fsinorth.com |


---

**Operational Parameters**

<table>
<thead>
<tr>
<th>CW Agents Decontaminated</th>
<th>Not specified</th>
</tr>
</thead>
<tbody>
<tr>
<td>BW Agents Decontaminated</td>
<td>Not specified</td>
</tr>
<tr>
<td>High Hazard TIMs Decontaminated</td>
<td>Wide range</td>
</tr>
<tr>
<td>Medium Hazard TIMs Decontaminated</td>
<td>Wide range</td>
</tr>
<tr>
<td><strong>Low Hazard TIMs</strong></td>
<td>Wide range</td>
</tr>
<tr>
<td>---------------------</td>
<td>------------</td>
</tr>
<tr>
<td><strong>Decontaminated</strong></td>
<td>Water and detergent</td>
</tr>
<tr>
<td><strong>Decontaminant Solutions</strong></td>
<td>Less than 50 personnel</td>
</tr>
<tr>
<td><strong>Capacity/Throughput</strong></td>
<td>Between 30 min to 60 min</td>
</tr>
<tr>
<td><strong>Set-up Time</strong></td>
<td>2 min to 3 min to install ready for operation</td>
</tr>
</tbody>
</table>

**Physical Parameters**

<table>
<thead>
<tr>
<th><strong>Size</strong></th>
<th>6.14/4.89 x 6.14/4.89 W x 7.74 H (ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Packed – approximately 3.3 x 2.5 x 1.6 (ft)</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>Approximately 88 lb</td>
</tr>
<tr>
<td><strong>Power Requirements</strong></td>
<td>None</td>
</tr>
</tbody>
</table>

**Logistical Parameters**

<table>
<thead>
<tr>
<th><strong>Consumables Required</strong></th>
<th>Compressed air for inflation. Optional disposable inner lining.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Maintenance Repairs Required</strong></td>
<td>Clean, dry, and check over after use.</td>
</tr>
<tr>
<td><strong>Shelf Life</strong></td>
<td>5 yr</td>
</tr>
<tr>
<td><strong>Transportability</strong></td>
<td>Highly transportable - low weight and small footprint</td>
</tr>
<tr>
<td><strong>Durability</strong></td>
<td>Constructed from durable polymer material</td>
</tr>
<tr>
<td><strong>Environmental Conditions</strong></td>
<td>Operates in most environments</td>
</tr>
<tr>
<td><strong>Environmental Considerations</strong></td>
<td>Safe disposal of collected waste</td>
</tr>
<tr>
<td><strong>Resources</strong></td>
<td>1 to 2 people are required to fully operate the decontamination system</td>
</tr>
<tr>
<td><strong>Unit Cost</strong></td>
<td>$3.5K to $5.5K depending on specification and optional equipment</td>
</tr>
<tr>
<td><strong>Maintenance Cost</strong></td>
<td>Very minimal</td>
</tr>
<tr>
<td><strong>Warranty</strong></td>
<td>1 yr</td>
</tr>
</tbody>
</table>

**Special Requirements**

<table>
<thead>
<tr>
<th><strong>Operator Skills Required</strong></th>
<th>No special skills, but training recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Operator Training Required</strong></td>
<td>1 h to 3 h</td>
</tr>
<tr>
<td><strong>Training Available</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Manuals Available</strong></td>
<td>User manuals and training media</td>
</tr>
<tr>
<td><strong>Support Equipment</strong></td>
<td>Not specified</td>
</tr>
<tr>
<td><strong>Testing Information</strong></td>
<td>Information not available</td>
</tr>
<tr>
<td><strong>Applicable Regulations</strong></td>
<td>Not specified</td>
</tr>
</tbody>
</table>
**General**

**Equipment Name**

**Modular Mass Casualty Decontamination System**

**ID# 60**

**Decontamination Process**

Physical (removes contaminant) and Chemical (neutralizes contaminant)

**Applications**

Personnel  | Equipment  | Infrastructure  
--- | --- | --- 
Yes | No | No

**Application Notes**

Not specified

**Availability**

Commercially available

**Current User**

Not specified

**Manufacturer**

Reeves Manufacturing, Inc.  
30 East 9th Street  
Frederick, MD 21701  
800–328–5563 (Tel)  
301–698–1596 (Tel)  
301–698–1599 (Fax)  
http://www.reevesmfg.com

**Operational Parameters**

**CW Agents Decontaminated**

Not specified

**BW Agents Decontaminated**

Not specified

**High Hazard TIMs**

Not specified

**Decontaminated**

**Medium Hazard TIMs**

Not specified

**Decontaminated**

**Low Hazard TIMs**

Not specified

**Decontaminated**

**Decontaminant Solutions**

Hypochlorite decontamination solutions

**Capacity/Throughput**

Dispenses 0.02 lb/h to 1.2 lb/h of decontaminant; decontaminates 6 personnel

**Set-up Time**

Less than 10 min

**Physical Parameters**

**Size**

Not specified

**Weight**

Not specified

**Power Requirements**

Not specified
### Logistical Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Consumables Required</td>
<td>Not specified</td>
</tr>
<tr>
<td>Maintenance Repairs Required</td>
<td>Not specified</td>
</tr>
<tr>
<td>Shelf Life</td>
<td>Not specified</td>
</tr>
<tr>
<td>Transportability</td>
<td>Portable Decontamination Unit</td>
</tr>
<tr>
<td>Durability</td>
<td>Not specified</td>
</tr>
<tr>
<td>Environmental Conditions</td>
<td>Ideal for all environments</td>
</tr>
<tr>
<td>Environmental Considerations</td>
<td>Not specified</td>
</tr>
<tr>
<td>Resources</td>
<td>2 to 3 personnel</td>
</tr>
<tr>
<td>Unit Cost</td>
<td>Not specified</td>
</tr>
<tr>
<td>Maintenance Cost</td>
<td>Not specified</td>
</tr>
<tr>
<td>Warranty</td>
<td>Not specified</td>
</tr>
</tbody>
</table>

### Special Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operator Skills Required</td>
<td>Not specified</td>
</tr>
<tr>
<td>Operator Training Required</td>
<td>Not specified</td>
</tr>
<tr>
<td>Training Available</td>
<td>Not specified</td>
</tr>
<tr>
<td>Manuals Available</td>
<td>Not specified</td>
</tr>
<tr>
<td>Support Equipment</td>
<td>Not specified</td>
</tr>
<tr>
<td>Testing Information</td>
<td>Information not available</td>
</tr>
<tr>
<td>Applicable Regulations</td>
<td>Not specified</td>
</tr>
</tbody>
</table>
**General**

*Equipment Name*

Decontamination Kit, Personal No 1 Mark 1

*ID# 61*

**Decontamination Process**

Physical (removes contaminant)

**Applications**

<table>
<thead>
<tr>
<th>Personnel</th>
<th>Equipment</th>
<th>Infrastructure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

**Application Notes**

The Personal No. 1, Mark 1 is a Decontamination Kit used by field personnel in the event of a chemical warfare attack. The kit is manufactured in the U.K. by Remploy Ltd., and is in service with the U.K. Armed Forces. The kit employs sorbent technology and is comprised of a sealed plastic bag that contains four pads filled with Fuller’s Earth.

**Availability**

Commercially available

**Current User**

In service with the U.K. Armed Forces

**Manufacturer**

Remploy Ltd.
415 Edgware Rd.
Cricklewood, London NW2 6LR
Country: United Kingdom
+44–1812–350500 (Tel)
+44–1812–350501 (Fax)

**Source**


**Operational Parameters**

**CW Agents Decontaminated**

G, VX, HD

**BW Agents Decontaminated**

Not specified

**High Hazard TIMs Decontaminated**

Not specified

**Medium Hazard TIMs Decontaminated**

Not specified

**Low Hazard TIMs Decontaminated**

Not specified

**Decontaminant Solutions**

Fuller's Earth
**Capacity/Throughput**  
Not specified

**Set-up Time**  
Not specified

**Physical Parameters**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>Not specified</td>
</tr>
<tr>
<td>Weight</td>
<td>Not specified</td>
</tr>
<tr>
<td>Power Requirements</td>
<td>None</td>
</tr>
</tbody>
</table>

**Logistical Parameters**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Consumables Required</td>
<td>Decontaminant</td>
</tr>
<tr>
<td>Maintenance Repairs Required</td>
<td>Not specified</td>
</tr>
<tr>
<td>Shelf Life</td>
<td>Not specified</td>
</tr>
<tr>
<td>Transportability</td>
<td>Man-Portable Decontamination Unit</td>
</tr>
<tr>
<td>Durability</td>
<td>Not specified</td>
</tr>
<tr>
<td>Environmental Conditions</td>
<td>Not specified</td>
</tr>
<tr>
<td>Environmental Considerations</td>
<td>Not specified</td>
</tr>
<tr>
<td>Resources</td>
<td>One person</td>
</tr>
<tr>
<td>Unit Cost</td>
<td>Not specified</td>
</tr>
<tr>
<td>Maintenance Cost</td>
<td>Not specified</td>
</tr>
<tr>
<td>Warranty</td>
<td>Not specified</td>
</tr>
</tbody>
</table>

**Special Requirements**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operator Skills Required</td>
<td>Minimal</td>
</tr>
<tr>
<td>Operator Training Required</td>
<td>Minimal</td>
</tr>
<tr>
<td>Training Available</td>
<td>Not specified</td>
</tr>
<tr>
<td>Manuals Available</td>
<td>Not specified</td>
</tr>
<tr>
<td>Support Equipment</td>
<td>None</td>
</tr>
<tr>
<td>Testing Information</td>
<td>Information not available</td>
</tr>
<tr>
<td>Applicable Regulations</td>
<td>Not specified</td>
</tr>
</tbody>
</table>
**General**

Equipment Name
ID# 62  

Decontamination Kit, Personal No. 2, Mark 1

Decontamination Process

Applications

**Personnel** | **Equipment** | **Infrastructure**
--- | --- | ---
**Yes** | **No** | **No**

Application Notes

The Personal No. 2, Mark 1 is a Decontamination Kit used by U.K. field personnel. The Personal No. 2, Mark 1 is used to decontaminate personal equipment and employs sorbent technology. The kit is comprised of a flat polythene dispenser containing 113 g of Fuller’s Earth. The kit is generally used with the Personal No. 1, Mark 1 Decontamination Kit.

Availability

Commercially available

Current User

In service with the U.K. Armed Forces

Manufacturer

Richmond Packaging (U.K.) Ltd.
New Road
Winsford, Cheshire CW7 2 NY
Country: United Kingdom
+44–1606–557422 (Tel)
+44–1606–861063 (Fax)

Source


**Operational Parameters**

- **CW Agents Decontaminated**: GB, VX, HD
- **BW Agents Decontaminated**: Not specified
- **High Hazard TIMs Decontaminated**: Not specified
- **Medium Hazard TIMs Decontaminated**: Not specified
- **Low Hazard TIMs Decontaminated**: Not specified
- **Decontaminant Solutions**: Decontaminating powder
- **Capacity/Throughput**: Not specified
Set-up Time

**Physical Parameters**

- **Size**: 0.55 x 0.28 x 0.20 (in)
- **Weight**: 4.58 oz
- **Power Requirements**: None

**Logistical Parameters**

- **Consumables Required**: Decontaminant
- **Maintenance Repairs Required**: None
- **Shelf Life**: Not specified
- **Transportability**: Man-Portable Decontamination Unit
- **Durability**: Not specified
- **Environmental Conditions**: Not specified
- **Environmental Considerations**: Not specified
- **Resources**: Not specified
- **Unit Cost**: Not specified
- **Maintenance Cost**: Not specified
- **Warranty**: Not specified

**Special Requirements**

- **Operator Skills Required**: Minimal
- **Operator Training Required**: Minimal to none
- **Training Available**: Not specified
- **Manuals Available**: Not specified
- **Support Equipment**: Personal No. 1, Mark 1 Decontamination Kit
- **Testing Information**: Information not available
- **Applicable Regulations**: Not specified
### General

**Equipment Name**  
Hazmat Decon Shower  
ID# 63

### Decontamination Process

Physical (removes contaminant) and Chemical (neutralizes contaminant)

### Applications

<table>
<thead>
<tr>
<th>Personnel</th>
<th>Equipment</th>
<th>Infrastructure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

### Application Notes

The Hazmat Decon Shower, manufactured by RMC Medical, is designed to decontaminate personnel. The Hazmat Decon Shower is made of 1 ½ in PVC tubing and is transportable in a canvas duffel bag.

### Availability

Commercially available

### Current User

Not specified

### Manufacturer

RMC Medical, Inc.  
3019 Darnell Rd.  
Philadelphia, PA 19154  
215–824–4100 (Tel)  
215–824–1371 (Fax)

### Source


### Operational Parameters

<table>
<thead>
<tr>
<th>CW Agents Decontaminated</th>
<th>BW Agents Decontaminated</th>
<th>High Hazard TIMs Decontaminated</th>
<th>Medium Hazard TIMs Decontaminated</th>
<th>Low Hazard TIMs Decontaminated</th>
</tr>
</thead>
<tbody>
<tr>
<td>GB, VX, HD</td>
<td>All</td>
<td>Not specified</td>
<td>Not specified</td>
<td>Not specified</td>
</tr>
</tbody>
</table>

### Decontaminant Solutions

DS2

### Capacity/Throughput

Dispenses 0.0066 lb to 0.0088 lb of water per minute @ 40 psi to 60 psi

### Set-up Time

Several min
### Physical Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>3.58 L x 3.58 W x 7.66 H (ft)</td>
</tr>
<tr>
<td>Weight</td>
<td>58 lb</td>
</tr>
<tr>
<td>Power Requirements</td>
<td>None</td>
</tr>
</tbody>
</table>

### Logistical Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Consumables Required</td>
<td>Decontaminant</td>
</tr>
<tr>
<td>Maintenance Repairs Required</td>
<td>Not specified</td>
</tr>
<tr>
<td>Shelf Life</td>
<td>Indefinite</td>
</tr>
<tr>
<td>Transportability</td>
<td>Portable Decontamination Unit</td>
</tr>
<tr>
<td>Durability</td>
<td>Constructed of 1 1/2 in PVC tubing</td>
</tr>
<tr>
<td>Environmental Conditions</td>
<td>Extreme heat of sun may cause shower to flake and bend. Extreme cold may cause brittleness.</td>
</tr>
<tr>
<td>Environmental Considerations</td>
<td>Not specified</td>
</tr>
<tr>
<td>Resources</td>
<td>One person to assemble and operate.</td>
</tr>
<tr>
<td>Unit Cost</td>
<td>$475</td>
</tr>
<tr>
<td>Maintenance Cost</td>
<td>Not specified</td>
</tr>
<tr>
<td>Warranty</td>
<td>Manufacturer defects only</td>
</tr>
</tbody>
</table>

### Special Requirements

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operator Skills Required</td>
<td>Able to read and follow directions for setup</td>
</tr>
<tr>
<td>Operator Training Required</td>
<td>None</td>
</tr>
<tr>
<td>Training Available</td>
<td>None</td>
</tr>
<tr>
<td>Manuals Available</td>
<td>None</td>
</tr>
<tr>
<td>Support Equipment</td>
<td>Water supply and standard garden hose</td>
</tr>
<tr>
<td>Testing Information</td>
<td>Information not available</td>
</tr>
<tr>
<td>Applicable Regulations</td>
<td>Not specified</td>
</tr>
</tbody>
</table>

### Environmental Considerations

Not specified

### Resources

One person to assemble and operate.

### Unit Cost

$475

### Warranty

Manufacturer defects only
### General

**Equipment Name**

**Hazmat Decon Backboard**

**ID# 64**

**Picture Not Available**

<table>
<thead>
<tr>
<th>Decontamination Process</th>
<th>Physical (removes contaminant) and Chemical (neutralizes contaminant)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Applications</strong></td>
<td><strong>Personnel</strong></td>
</tr>
<tr>
<td></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Application Notes</strong></td>
<td>The Hazmat Decon Backboard is a multipurpose backboard specially designed for spinal immobilization, patient decontamination and water, confined space, and high angle rescue.</td>
</tr>
<tr>
<td><strong>Availability</strong></td>
<td>Commercially available</td>
</tr>
<tr>
<td><strong>Current User</strong></td>
<td>Not specified</td>
</tr>
</tbody>
</table>
| **Manufacturer**        | RMC Medical, Inc.  
3019 Darnell Rd.  
Philadelphia, PA 19154  
215–824–4100 (Tel)  
215–824–1371 (Fax) |

### Operational Parameters

**CW Agents Decontaminated**  
GB, VX, HD

**BW Agents Decontaminated**  
All

**High Hazard TIMs Decontaminated**  
Not specified

**Medium Hazard TIMs Decontaminated**  
Not specified

**Low Hazard TIMs Decontaminated**  
Not specified

**Decontaminant Solutions**  
DS2

**Capacity/Throughput**  
Not specified

**Set-up Time**  
Not specified

### Physical Parameters

**Size**  
6 L x 1.33 W x 0.18 H (ft)

**Weight**  
14 lb
Power Requirements

Logistical Parameters

- Consumables Required: None
- Maintenance Repairs Required: Not specified
- Shelf Life: Not specified
- Transportability: Portable Decontamination Unit
- Durability: Not specified
- Environmental Conditions: Not specified
- Environmental Considerations: Not specified
- Resources: Not specified
- Unit Cost: Not specified
- Maintenance Cost: Not specified
- Warranty: Not specified

Special Requirements

- Operator Skills Required: Minimal
- Operator Training Required: Minimal
- Training Available: Not specified
- Manuals Available: Not specified
- Support Equipment: None
- Testing Information: Information not available
- Applicable Regulations: Not specified
**General**

**Equipment Name**

Decontamination Apparatus, Portable, DS2, ABC-M11

**ID# 65**

**Decontamination Process**  
Physical (removes contaminant)

**Applications**

Personnel | Equipment | Infrastructure
--- | --- | ---
No | Yes | No

**Application Notes**

The ABC-M11 is a portable decontaminating apparatus used to decontaminate exterior equipment (i.e., military vehicles, crew-served weapons). The system is currently in service with the U.S. Army and Israeli Armed Forces. The equipment has a filled nitrogen pressure cartridge. However, before use, the container must be filled with DS2 decontaminating agent. The M11 functions by removal of the seal-retaining pin. After removing the pin, the handle is lifted to puncture the pressure can, dispersing the DS2. The ABC-M11 has an optimum range of about 2 m and can cover approximately 42 m². There are three models currently available, the M11, the M11 Stretch, and the M11 Super Stretch. The three models differ only by container volume, the M11 has a filled volume of 1.26 L, the M11 Stretch has a filled volume of 1.5 L and the M11 Super Stretch has a filled volume of 2.66 L. This system is also available with the M11 A/G dry sorbent dispenser. The M11 A/G sprays the AMBERGARDTM XE-555 powder.

**Availability**

Commercially available

**Current User**

In service with the U.S. Army and Israel Armed Forces

**Manufacturer**

Slate Enterprises, Inc.  
2923 Saturn Street  
Unit C  
Brea, CA 92821  
714–985–0117 (Tel)  
714–985–9956 (Fax)

**Source**


**Operational Parameters**

**CW Agents Decontaminated**

None

**BW Agents Decontaminated**

None
<table>
<thead>
<tr>
<th>High Hazard TIMs</th>
<th>Not specified</th>
</tr>
</thead>
<tbody>
<tr>
<td>Decontaminated</td>
<td></td>
</tr>
<tr>
<td>Medium Hazard TIMs</td>
<td>Not specified</td>
</tr>
<tr>
<td>Decontaminated</td>
<td></td>
</tr>
<tr>
<td>Low Hazard TIMs</td>
<td>Not specified</td>
</tr>
<tr>
<td>Decontaminated</td>
<td></td>
</tr>
<tr>
<td>Decontaminant Solutions</td>
<td>Not specified</td>
</tr>
<tr>
<td>Capacity/Throughput</td>
<td>Decontaminates 449 ft²</td>
</tr>
<tr>
<td>Set-up Time</td>
<td>Not specified</td>
</tr>
</tbody>
</table>

**Physical Parameters**

- **Size**: 5.4 D x 22.4 H (in)
- **Weight**: 7.52 lb
- **Power Requirements**: Not specified

**Logistical Parameters**

- **Consumables Required**: Decontaminant
- **Maintenance Repairs Required**: Not specified
- **Shelf Life**: Not specified
- **Transportability**: Portable Decontamination Unit
- **Durability**: Not specified
- **Environmental Conditions**: -25.06 °F to 120.2 °F (operating temperature)
- **Environmental Considerations**: Not specified
- **Resources**: Not specified
- **Unit Cost**: Not specified
- **Maintenance Cost**: Not specified
- **Warranty**: Not specified

**Special Requirements**

- **Operator Skills Required**: Minimal
- **Operator Training Required**: Minimal
- **Training Available**: Not specified
- **Manuals Available**: Not specified
- **Support Equipment**: None
- **Testing Information**: Information not available
- **Applicable Regulations**: Not specified
**General**

**Equipment Name**

M13 Portable Decontaminating Apparatus (DAP)

**ID# 66**

**Decontamination Process**

Physical (removes contaminant), chemical (neutralizes contaminant), or Thermal (removes contaminant)

**Applications**

<table>
<thead>
<tr>
<th>Personnel</th>
<th>Equipment</th>
<th>Infrastructure</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

**Application Notes**

The M13 Portable DAP is a portable system used to decontaminate exterior equipment (i.e., wheeled and track vehicles, crew-served weapons larger than 60 caliber (0.60 in/15 mm), towed artillery). The M13 is manufactured by All-Bann Enterprises, Inc., and is currently in service with the U.S. Army. This equipment employs chemical technology and can be either vehicle-mounted or man-portable. The M13 is comprised of a disposable container filled with 14 L of DS2 decontaminating agent (or can be replaced with any other decontaminating agent), an accessory container holder, a manual in-line pump, one to two wand sections, and a disposable synthetic filament polypropylene brush. The accessory container provides storage for all M13 components. The specifications associated with the M13 DAP include a volume of 14 L, a filled weight of 24.5 kg, and an empty weight of 10.9 kg.

**Availability**

Commercially available

**Current User**

In service with the U.S. Army

**Manufacturer**

Slate Enterprises, Inc.
2923 Saturn Street
Unit C
Brea, CA 92821
714–985–0117 (Tel)
714–985–9956 (Fax)

**Source**


**Operational Parameters**

<table>
<thead>
<tr>
<th>CW Agents Decontaminated</th>
<th>BW Agents Decontaminated</th>
<th>High Hazard TIMs Decontaminated</th>
</tr>
</thead>
<tbody>
<tr>
<td>G agents, VX, HD</td>
<td>All</td>
<td>Not specified</td>
</tr>
<tr>
<td>Medium Hazard TIMs</td>
<td>Not specified</td>
<td></td>
</tr>
<tr>
<td>-------------------</td>
<td>---------------</td>
<td></td>
</tr>
<tr>
<td>Decontaminated</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Low Hazard TIMs</td>
<td>Not specified</td>
<td></td>
</tr>
<tr>
<td>Decontaminated</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Decontaminant Solutions</td>
<td>Not specified</td>
<td></td>
</tr>
<tr>
<td>Capacity/Throughput</td>
<td>Approximately 1198 ft$^2$</td>
<td></td>
</tr>
<tr>
<td>Set-up Time</td>
<td>Not specified</td>
<td></td>
</tr>
</tbody>
</table>

**Physical Parameters**

<table>
<thead>
<tr>
<th>Size</th>
<th>14 L x 6.6 W x 18.7 H (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>24 lb</td>
</tr>
<tr>
<td>Power Requirements</td>
<td>None</td>
</tr>
</tbody>
</table>

**Logistical Parameters**

<table>
<thead>
<tr>
<th>Consumables Required</th>
<th>Decontaminant</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maintenance Repairs Required</td>
<td>Not specified</td>
</tr>
<tr>
<td>Shelf Life</td>
<td>Not specified</td>
</tr>
<tr>
<td>Transportability</td>
<td>Portable Decontamination Unit</td>
</tr>
<tr>
<td>Durability</td>
<td>Not specified</td>
</tr>
<tr>
<td>Environmental Conditions</td>
<td>-25.06 °F to 120.2 °F</td>
</tr>
<tr>
<td>Environmental Considerations</td>
<td>Not specified</td>
</tr>
<tr>
<td>Resources</td>
<td>Not specified</td>
</tr>
<tr>
<td>Unit Cost</td>
<td>Not specified</td>
</tr>
<tr>
<td>Maintenance Cost</td>
<td>Not specified</td>
</tr>
<tr>
<td>Warranty</td>
<td>Not specified</td>
</tr>
</tbody>
</table>

**Special Requirements**

<table>
<thead>
<tr>
<th>Operator Skills Required</th>
<th>Minimal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operator Training Required</td>
<td>Minimal</td>
</tr>
<tr>
<td>Training Available</td>
<td>Not specified</td>
</tr>
<tr>
<td>Manuals Available</td>
<td>Not specified</td>
</tr>
<tr>
<td>Support Equipment</td>
<td>None</td>
</tr>
<tr>
<td>Testing Information</td>
<td>Information not available</td>
</tr>
<tr>
<td>Applicable Regulations</td>
<td>Not specified</td>
</tr>
</tbody>
</table>
**General**

<table>
<thead>
<tr>
<th>Equipment Name</th>
<th>NBC6F Water Purification Unit (WPU)</th>
</tr>
</thead>
</table>

**Decontamination Process**

- Chemical (neutralizes contaminant)

**Applications**

<table>
<thead>
<tr>
<th>Personnel</th>
<th>Equipment</th>
<th>Infrastructure</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Application Notes**

The NBC6F is a decontamination unit used to purify contaminated drinking water. The NBC6F is capable of treating 2.2 m³/h of NBC contaminated water.

**Availability**

Commercially available

**Current User**

Not specified

**Manufacturer**

Stella-Meta

Laversoke Mill

Whitchurch, Hampshire, United Kingdom RG287NR

+44–1256–895959 (Tel)

+44–1256–892074 (Fax)

email: pcims@compuserve.com

**Source**


**Operational Parameters**

<table>
<thead>
<tr>
<th>CW Agents Decontaminated</th>
<th>Not specified</th>
</tr>
</thead>
<tbody>
<tr>
<td>BW Agents Decontaminated</td>
<td>Not specified</td>
</tr>
<tr>
<td>High Hazard TIMs Decontaminated</td>
<td>Not specified</td>
</tr>
<tr>
<td>Medium Hazard TIMs Decontaminated</td>
<td>Not specified</td>
</tr>
<tr>
<td>Low Hazard TIMs Decontaminated</td>
<td>Not specified</td>
</tr>
<tr>
<td>Decontaminant Solutions</td>
<td>Not specified</td>
</tr>
<tr>
<td>Capacity/Throughput</td>
<td>Decontaminates 24 ft² of contaminated water per hour</td>
</tr>
<tr>
<td>Set-up Time</td>
<td>Not specified</td>
</tr>
</tbody>
</table>
### Physical Parameters

- **Size**: 13.12 L x 8.20 W x 7.87 H (ft)
- **Weight**: 7260 lb
- **Power Requirements**: Not specified

### Logistical Parameters

- **Consumables Required**: Not specified
- **Maintenance Repairs Required**: Not specified
- **Shelf Life**: Not specified
- **Transportability**: Mobile Decontamination Unit
- **Durability**: Not specified
- **Environmental Conditions**: Not specified
- **Environmental Considerations**: Not specified
- **Resources**: Not specified
- **Unit Cost**: Not specified
- **Maintenance Cost**: Not specified
- **Warranty**: Not specified

### Special Requirements

- **Operator Skills Required**: Not specified
- **Operator Training Required**: Not specified
- **Training Available**: Not specified
- **Manuals Available**: Not specified
- **Support Equipment**: Not specified
- **Testing Information**: Information not available
- **Applicable Regulations**: Not specified
**General**

Equipment Name

ID# 68

---

**Decontamination Kit No. 2**

**Decontamination Process**

Physical (removes contaminant)

**Applications**

Personnel | Equipment | Infrastructure
---|---|---
Yes | No | No

**Application Notes**

The Decontamination Kit No. 2 is used to decontaminate personal equipment and can be used in conjunction with the M281 Skin Decontamination Kit for emergency decontamination. The Decontamination Kit No. 2 employs sorbent technology and utilizes a 15 g squeeze bottle to dispense AMBERGARD XE-555 decontaminant. The kit is able to decontaminate all known liquid chemical agents.

**Availability**

Commercially available

**Current User**

Not specified

**Manufacturer**

Tradeways Ltd.

184 Duke of Gloucester Street

Annapolis, MD 21401

410–295–0813 (Tel)

410–295–0821 (Fax)

**Source**


---

**Operational Parameters**

**CW Agents Decontaminated**

GB, V, HD

**BW Agents Decontaminated**

All

**High Hazard TIMs Decontaminated**

Not specified

**Medium Hazard TIMs Decontaminated**

Not specified

**Low Hazard TIMs Decontaminated**

Not specified

**Decontaminant Solutions**

Water

**Capacity/Throughput**

Decontaminates 738 ft²
Set-up Time: Not specified

**Physical Parameters**
- **Size:** 3.72 L x 2.2 W x 0.1 H (in)
- **Weight:** 0.7 oz
- **Power Requirements:** None

**Logistical Parameters**
- **Consumables Required:** Decontaminant
- **Maintenance Repairs Required:** None
- **Shelf Life:** Not specified
- **Transportability:** Man-Portable Decontamination Unit
- **Durability:** Not specified
- **Environmental Conditions:** -59.8 °F to 159.8 °F (storage temperature)
- **Environmental Considerations:** Not specified
- **Resources:** One person
- **Unit Cost:** Not specified
- **Maintenance Cost:** Not specified
- **Warranty:** Not specified

**Special Requirements**
- **Operator Skills Required:** Minimal
- **Operator Training Required:** Minimal
- **Training Available:** Not specified
- **Manuals Available:** Not specified
- **Support Equipment:** None
- **Testing Information:** Information not available
- **Applicable Regulations:** Not specified
**General**

**Equipment Name**
Decontamination Kit, Individual Equipment: M295

| ID# 69 |

**Decontamination Process**
Physical (removes contaminant) and Chemical (neutralizes contaminant)

**Applications**

<table>
<thead>
<tr>
<th>Personnel</th>
<th>Equipment</th>
<th>Infrastructure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

**Application Notes**
The M295 Individual Equipment Decontamination Kit is used to decontaminate personnel equipment. The M295 Kit employs sorbent technology and utilizes AMBERGARD XE-555 (decontaminant) in four wipedown mitts that are made of non-woven polyester material with a polyethylene film backing.

**Availability**
Commercially available

**Current User**
In service with the U.S. Armed Forces

**Manufacturer**
Truetech
680 Elton Avenue
Riverhead, NY 11901
516–727–8600 (Tel)

**Source**

**Operational Parameters**

<table>
<thead>
<tr>
<th>CW Agents Decontaminated</th>
<th>Not specified</th>
</tr>
</thead>
<tbody>
<tr>
<td>BW Agents Decontaminated</td>
<td>Not specified</td>
</tr>
<tr>
<td>High Hazard TIMs Decontaminated</td>
<td>Not specified</td>
</tr>
<tr>
<td>Medium Hazard TIMs Decontaminated</td>
<td>Not specified</td>
</tr>
<tr>
<td>Low Hazard TIMs Decontaminated</td>
<td>Not specified</td>
</tr>
<tr>
<td>Decontaminant Solutions</td>
<td>Not specified</td>
</tr>
<tr>
<td>Capacity/Throughput</td>
<td>Not specified</td>
</tr>
<tr>
<td>Set-up Time</td>
<td>Not specified</td>
</tr>
</tbody>
</table>
### Physical Parameters
- **Size**: 9 L x 5.4 W x 1.9 H (in)
- **Weight**: 8 oz
- **Power Requirements**: None

### Logistical Parameters
- **Consumables Required**: Decontaminant
- **Maintenance Repairs Required**: None
- **Shelf Life**: Not specified
- **Transportability**: Mobile Decontamination Unit
- **Durability**: Not specified
- **Environmental Conditions**: Not specified
- **Environmental Considerations**: Not specified
- **Resources**: One person
- **Unit Cost**: Not specified
- **Maintenance Cost**: Not specified
- **Warranty**: Not specified

### Special Requirements
- **Operator Skills Required**: Minimal
- **Operator Training Required**: Minimal
- **Training Available**: Not specified
- **Manuals Available**: Not specified
- **Support Equipment**: Not specified
- **Testing Information**: Information not available
- **Applicable Regulations**: Not specified
**General**

Equipment Name

ID# 70

---

**TVI Quick-E WMD Decon Shower Shelter**

---

**Decontamination Process**

Physical (removes contaminant)

**Applications**

Personnel

No

Equipment

Yes

Infrastructure

No

**Application Notes**

Not specified

**Availability**

Commercially available

**Current User**

Not specified

**Manufacturer**

TVI Corporation

7100 Holladay Tyler Road

Suite 300

Glenn Dale, MD 20769

301–352–8800 (Tel)

301–352–8818 (Fax)

**Source**

TVI Corporation

---

**Operational Parameters**

CW Agents Decontaminated

Not specified

BW Agents Decontaminated

Not specified

High Hazard TIMs

Decontaminated

Not specified

Medium Hazard TIMs

Decontaminated

Not specified

Low Hazard TIMs

Decontaminated

Not specified

Decontaminant Solutions

Water

Capacity/Throughput

Not specified

Set-up Time

1 min

---

**Physical Parameters**

Size

Varies
<table>
<thead>
<tr>
<th>Weight</th>
<th>Not specified</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Requirements</td>
<td>Not specified</td>
</tr>
</tbody>
</table>

**Logistical Parameters**

<table>
<thead>
<tr>
<th>Consumables Required</th>
<th>Decontaminant</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maintenance Repairs Required</td>
<td>Not specified</td>
</tr>
<tr>
<td>Shelf Life</td>
<td>10 yr</td>
</tr>
<tr>
<td>Transportability</td>
<td>Shelters are easily transported.</td>
</tr>
<tr>
<td>Durability</td>
<td>Shelters are extremely rugged; corrosion resistant</td>
</tr>
<tr>
<td>Environmental Conditions</td>
<td>Shelters withstand extreme temperatures, strong winds, and heavy snow loads.</td>
</tr>
<tr>
<td>Environmental Considerations</td>
<td>Shelters have replaceable liners, ground cloth, and fitted floor basin to control wastewater.</td>
</tr>
</tbody>
</table>

**Resources**

<table>
<thead>
<tr>
<th>Resources</th>
<th>2 person crew required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit Cost</td>
<td>Not specified</td>
</tr>
<tr>
<td>Maintenance Cost</td>
<td>Not specified</td>
</tr>
<tr>
<td>Warranty</td>
<td>Not specified</td>
</tr>
</tbody>
</table>

**Special Requirements**

<table>
<thead>
<tr>
<th>Operator Skills Required</th>
<th>Not specified</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operator Training Required</td>
<td>Not specified</td>
</tr>
<tr>
<td>Training Available</td>
<td>Not specified</td>
</tr>
<tr>
<td>Manuals Available</td>
<td>Not specified</td>
</tr>
<tr>
<td>Support Equipment</td>
<td>Not specified</td>
</tr>
<tr>
<td>Testing Information</td>
<td>Not specified</td>
</tr>
<tr>
<td>Applicable Regulations</td>
<td>Not specified</td>
</tr>
</tbody>
</table>
**General**

**Equipment Name**
TVI Quik-Kleen Mass Decontamination System

**ID#71**

**Decontamination Process**
Physical (removes contaminant) and/or Chemical (neutralizes contaminant)

**Applications**

<table>
<thead>
<tr>
<th>Personnel</th>
<th>Equipment</th>
<th>Infrastructure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

**Application Notes**
This system is designed to provide immediate decontamination capability at remote sites by a staff of four. The rugged shelter assures reliable and protected space for decontamination in cold or adverse weather.

**Availability**
Commercially available

**Current User**
Not specified

**Manufacturer**
TVI Corporation
7100 Holladay Tyler Road
Suite 300
Glenn Dale, MD 20769
301–352–8800 (Tel)
301–352–8818 (Fax)

**Source**
TVI Corporation

**Operational Parameters**

<table>
<thead>
<tr>
<th>CW Agents Decontaminated</th>
<th>Not specified</th>
</tr>
</thead>
<tbody>
<tr>
<td>BW Agents Decontaminated</td>
<td>Not specified</td>
</tr>
<tr>
<td>High Hazard TIMs</td>
<td>Not specified</td>
</tr>
<tr>
<td>Decontaminated</td>
<td></td>
</tr>
<tr>
<td>Medium Hazard TIMs</td>
<td>Not specified</td>
</tr>
<tr>
<td>Decontaminated</td>
<td></td>
</tr>
<tr>
<td>Low Hazard TIMs</td>
<td>Not specified</td>
</tr>
<tr>
<td>Decontaminated</td>
<td></td>
</tr>
<tr>
<td>Decontaminant Solutions</td>
<td>Not specified</td>
</tr>
<tr>
<td>Capacity/Throughput</td>
<td>Not specified</td>
</tr>
<tr>
<td>Set-up Time</td>
<td>Not specified</td>
</tr>
</tbody>
</table>
**Physical Parameters**

Size: Not specified
Weight: Not specified
Power Requirements: Not specified

**Logistical Parameters**

Consumables Required: Decontaminant
Maintenance Repairs Required: Not specified
Shelf Life: 10 yr
Transportability: Shelters are easily transported.
Durability: Shelters are extremely rugged and corrosion resistant.
Environmental Conditions: Shelters withstand extreme temperatures, strong winds, and heavy snow loads.

Environmental Considerations: Not specified
Resources: Not specified
Unit Cost: Not specified
Maintenance Cost: Not specified
Warranty: Not specified

**Special Requirements**

Operator Skills Required: Not specified
Operator Training Required: Not specified
Training Available: Not specified
Manuals Available: Not specified
Support Equipment: HEPA filtration units
Testing Information: Not specified
Applicable Regulations: Not specified
**Zenon Advanced Double Pass Reverse Osmosis Water Purification Unit**

**General**

**Equipment Name**
Zenon Advanced Double Pass Reverse Osmosis Water Purification Unit

**ID#72**

**Decontamination Process**
Physical (removes contaminant)

**Applications**

<table>
<thead>
<tr>
<th>Personnel</th>
<th>Equipment</th>
<th>Infrastructure</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Application Notes**
The Zenon Advanced Double Pass Reverse Osmosis Water Purification Unit (ADROWPU) is designed to purify water that has been contaminated with NBC agents. The ADROWPU utilizes a double pass reverse osmosis process in order to remove contamination. The process employs pressure to separate dissolved solutes and suspended substances from water.

**Availability**
Commercially available

**Current User**
In service in Canadian and Taiwanese Armed Forces

**Manufacturer**
Zenon Environmental Systems, Inc.
845 Harrington Court
Burlington, Canada L7N 3P3
905–639–6320 (Tel)
905–639–1812 (Fax)

**Source**

**Operational Parameters**

**CW Agents Decontaminated**
Not specified

**BW Agents Decontaminated**
Not specified

**High Hazard TIMs Decontaminated**
Not specified

**Medium Hazard TIMs Decontaminated**
Not specified

**Low Hazard TIMs Decontaminated**
Not specified

**Decontaminant Solutions**
Not specified

**Capacity/Throughput**
Purifies 84700 L/d of fresh water, 58950 L/d of brackish water, and 52390 L/d of seawater

**Set-up Time**
Not specified
Physical Parameters

Size 18.0 L x 6.89 W x 5.57 H (ft)
Weight 140800 lb
Power Requirements 40 kW diesel generator

Logistical Parameters

Consumables Required Not specified
Maintenance Repairs Required Not specified
Shelf Life Not specified
Transportability Not specified
Durability Not specified
Environmental Conditions -40 °F to 104 °F (operating temperature)
Environmental Considerations Not specified
Resources Not specified
Unit Cost Not specified
Maintenance Cost Not specified
Warranty Not specified

Special Requirements

Operator Skills Required Not specified
Operator Training Required Not specified
Training Available Not specified
Manuals Available Not specified
Support Equipment Not specified
Testing Information Information not available
Applicable Regulations Not specified