LIGHT DECONTAMINATION SYSTEM

PORTABLE AIRBORNE AND SURFACE DECONTAMINATION

SCOTT SAFETY

HIGH PERFORMANCE
HAZARD MANAGEMENT

THE NEW PORTABLE AIRBORNE AND SURFACE DECONTAMINATION SOLUTION

SETTING THE TREND IN DECONTAMINATION

Scott Safety Atomisation technology surpasses any existing misting technology due to the very high number and extremely small size of the droplets generated. Our technology rapidly fills a space, and the turbulence of this gas-like vapour keeps the droplets suspended in the air and ensures consistent and even coverage. In addition, the mist can be easily directed and controlled. Its capability provides simultaneous and consistent surface and airborne disinfection against chemical, biological and radiological threats and hazards. The Light Decontamination System represents a major advancement in Chemical, Biological, Radiological and Nuclear (CBRN) decontamination. Offering lightweight and cost effective decontamination the Light Decontamination System is a highly mobile and robust back pack designed for maximum operational flexibility. Designed to allow emergency personnel to work effectively in both confined and remote environments the Light Decontamination System incorporates Scott Safety atomisation technology creating a superfine mist to ensure even and consistent coverage. Rapidly projecting these droplets in the form of a dense and turbulent mist the Light Decontamination System is capable of delivering CBRN decontaminants to all non-line of sight surfaces. The Light Decontamination System lance can be easily directed and controlled. The superfine mist ensures haptic dry surfaces. There is no damage to sensitive and electronic equipment which can stay functional throughout the decontamination process. Drastically reducing both the chemical footprint and time required for effective decontamination. This combination affords minimization of the decontaminant mass per unit of application whilst maintaining an efficient surface and airborne decontamination capability

DIVERSE DECONTAMINANT CAPABILITY

Chemical and Biological Decontamination

- The system is chemically agnostic and can use a diverse range of decontaminants Including delivery of Alkoxides (0.1-5%), Hydrogren Peroxide (0.1-30%) , Hypochlorous Acid (0.1-1%), Peracetic acid (0.1-8%), Peroyxgen acid esters (1-5%), Chlorine Dioxide (0.1-1%) Sodium hypochlorite (0.1-20%), Potassium Peroxymonosulfate “Oxone” (0.1-1%)

Radiological & Nuclear Decontamination

- Including delivery of trippable coatings (e.g. PVA-PVP with “Chelating-agents”), Fixatives [e.g. Sulphated Butyl esters or vinyl acetates), and other sequestering liquids (e.g. EPTA or DTPA)

Fire Fighting

- Water payload enables the system to be utilised for Class A&B Fire Fighting applications

REDUCED USER BURDEN

- At only 22 kg, Light Decontamination System is the lightest portable decontamination system in its class. Environmentally friendly and cost-efficient: Typically requires only 5% of decontaminant compared to traditional systems due to the gas-like behaviour of the small droplet mist; air freshening will require even less disinfection agent

INCREASED DURATION

- Utilising 300 Bar (4500 PSI) technology, Light Decontamination System offers longer “on station” duration per unit weight equivalence, giving operatives complete confidence in meeting all mission requirements.

RAPID CONNECT CYLINDER BAND

- Allows adjustment or change out of cylinder in seconds.

WIDE RANGE OF HAZARD MANAGEMENT SPECIFICATIONS

- The Light Decontamination System can used with a wide range of RPE facemasks including First Responder Respirator (FRR), General Service Respirator Evolution Specialist (GSReS) and Vision CBRN ranges.

Precision lance enables simple operation and accurate direction

A diverse range of decontaminant chemistries can be utilised

Utilises the proven Scott Safety ProPak SCBA padded waist and shoulder straps for reduced user burden

The portable Light Decontamination System system includes an integrated stand

Extend system duration through in-built charging port for rapid resupply of compressed air

FEATURES AND FUNCTIONS

- Robust, lightweight and easy to clean
- Proven total surface contact, even for non-line-of-sight areas
- Designed for tough environments
- 4 litre capacity of the active fluid
- Powered by standard 6 litre 300 bar air cylinder
- Gas and fluid can be re-filled in position
- Less than 22kg total weight (full)
- 2 minute run time
- Projection distance of up to 30 metres
- Compatible with a wide range of chemistries

OPTIONS

Scott Light Decontamination System can be specified in many configurations including stand alone point decontamination or combined with a tripod mounted nozzle for remote controlled wider area interior decontamination.

PORTABLE SYSTEM

The Light Decontamination System decontamination back pack allows emergency and military personnel to work effectively in both confined and remote environments. It incorporates Scott Safety atomisation technology. The Light Decontamination System creates a superfine mist to ensure even and consistent coverage. The system is compatible with a number of active agents with best in class efficacy for chemical and biological decontamination. Highly mobile and simple to operate this robust back pack is designed for flexibility.

The Light Decontamination System lance can be easily directed and controlled. The superfine mist ensures haptic dry surfaces. There will be no damage to sensitive and electronic equipment which can stay functional throughout disinfection process. At only 2 litres per minute delivery rate the system is a perfect solution for CBRN decontamination in localised environments, vehicles and personnel.

WIDE AREA CAPABILITY

THE WIDE AREA AIRBORNE AND SURFACE DECONTAMINATION SOLUTION.

For longer duration or remote controlled wider area mission capability, of up to ~2000m^3 volume, the Light Decontamination System can be upgraded to an integrated remote controlled solution. The remote-controlled Decontamination System (RDS) combines our atomisation technology with true operational level decontamination capability and excellent rapid room filling capacity. Simply replacing the directional Light Decontamination System lance unit with a tripod mounted 360 degree nozzle accessory pack, the RDS provides increased levels of decontamination efficacy and remote controllled performance. A wider area system is suitable for large scale infrastructure and heavier items of military equipment. The upgraded RDS system complements the Light Decontamination System in providing the end user with a complete CBRN capability. Scott Safety continues to contribute to important advances in aerosol delivery and decontamination technology.

As it is based around the highly mobile Light Decontamination System, the RDS variant is still highly portable, requiring minimal operation (maximum one person). With a collapsible tripod assembly, the RDS offers true operational flexibility and is suitable for remotely decontaminating larger military equipment including maritime vessels, aircraft (fixed wing and rotary) and other land systems. Critical national infrastructure, military infrastructure such as command, control and communication centres, staging areas and logistic hubs; other infrastructure such as hospitals, schools, sports stadia, air and sea ports, bus, rail terminals and underground stations.

SPECIFICATIONS & ORDERING INFORMATION

LIGHT DECONTAMINATION SYSTEM

Product Specifications

Weight
With charged 300 Bar cylinder: 22.0 kg
Without cylinder: 12.25kg

Dimensions
Length 593 mm
Width 335 mm
Depth (with 6.8 litre 300 bar Cylinder) 249 mm

Light Decontamination System	
Part Number	**Description**
7001236	Light Decontamination System (EN Version)
8004654	Light Decontamination System (DOT Version)
7001580	RDS- Remote Control Decontamination System (includes tripod and remote control unit)
7001581	RDS- Remote Control Decontamination System (with 360 degree nozzle)
7001582	RDS- Remote Control Decontamination System (with linear nozzle)
7001217	Light Decontamination System Lance Assembly (HALB)
1020205	6.8 Litre – 300 Bar Composite Cylinder (EN)

Scott Safety is a global business unit of Tyco International that supplies a variety of industries through manufacturing facilities located in the United States, United Kingdom, Asia and Australia.
Pimbo Road • Skelmersdale • Lancashire • England • WN8 9RA Telephone: +44 (0) 1695 711711 • Fax: +44 (0) 1695 711772
www.scottsafety.com • scott.sales.uk@tycoint.com