

ISTEC DM10 LITER PORTABLE DECONTAMINATION SYSTEM

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Applications

The ISTEC DM 10-Liter Portable Decontamination System is a mobile, rapid-response unit specifically engineered for neutralizing Chemical, Biological, Radiological, and Nuclear (CBRN) contaminants. The system is designed for use by military units, civil defense teams, and industrial facilities to decontaminate personnel, critical tools, and equipment, as well as various environments and surfaces.

Its highly portable and compact design ensures rapid deployment at the hot zone, providing efficient and effective decontamination applications against CBRN threats. It is ideal for personnel, equipment, and surface decontamination in military units, civil defense teams, emergency response organizations, and industrial facilities.



- **Premium Material Quality:** Manufactured from AISI 304 quality stainless steel with a 2 mm wall thickness, providing maximum resistance against corrosion and heavy-duty field conditions.
- **Independent of External Power:** Features a built-in manual pump system, allowing full operational capability in any field environment without requiring electricity or an external power source.
- **Versatile Application Modes:** Equipped with an adjustable nozzle that seamlessly switches between wide-angle spray and focused pinpoint jet modes to meet diverse decontamination requirements.
- **Maximum Operational Safety:** Outfitted with an automatic safety relief valve calibrated to activate at 8 bar and an integrated built-in pressure gauge for safe operation.

TECHNICAL DETAILS

Operating Principle

The ISTECH DM 10-Liter Portable Decontamination System operates on the principle of discharging stored decontamination solution using pressurized air. Once the liquid agent or water is filled into the tank, the integrated manual pump is used to build internal air pressure. This pressure forces the solution through the hose and lance assembly onto the target surface. The operating pressure is monitored via the pressure gauge, and when the required level is reached, the liquid is discharged as a spray or pinpoint jet via the adjustable nozzle. This ensures optimal contact between the decontamination solution and the chemical, biological, or radiological contaminants on personnel, equipment, and surfaces, effectively neutralizing the hazard.

Instructions for Use and Deployment

- Positioning:** Place the ISTECH DM 10-Liter Portable Decontamination System on a flat, stable, and secure surface before operation.
- Filling the Tank:** Fill the liquid chamber of the tank with the appropriate decontamination solution required for the specific threat.
- Hose and Lance Connection:** Securely connect the hose and spray lance assembly using the quick-connect coupling system, ensuring a leak-proof seal.
- Pressurization:** Operate the manual hand pump to apply pressure inside the tank until it reaches the optimal working range of 5–6 bar. Monitor the pressure level via the built-in pressure gauge.
- Nozzle Adjustment:** Adjust the nozzle to either spray or pinpoint jet mode based on the application requirements. Once the required pressure is achieved, the system is ready for decontamination deployment.
- System Depressurization:** After the operation is complete, safely vent any residual internal pressure via the safety relief valve, flush the system thoroughly, and store it under appropriate conditions for the next emergency.

Technical Parameter	Description
Liquid Storage Capacity	10 Liters
Air Volume Capacity	4 Liters
Wall Thickness	2 mm
Hose Length	160 cm
Operating Pressure	5 – 6 bar
Safety Valve	8 bar
Discharge Distance	Minimum 5 Meters

Technical Parameter	Description
Material Construction	Body: AISI 304 Stainless Steel Fittings: Lance with Coupling System



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