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Chemical Decontamination Unit

Martech's Chemical Decontamination Unit (CDU) is a simple and proven, yet safe, clean and effective method of removing chemical agents from sensitive high value, high-tech equipment. Developed in conjunction with leading experts in chemical and biological protection, the CDU currently forms part of the ground equipment for Eurofighter's Typhoon fighter aircraft.

Designed specifically to allow sensitive high-tech equipment to be thoroughly decontaminated, the CDU has applications in a wide range of military operations to sanitise many types of military technology where potential contamination is a concern. Examples include: micro-UAVs, weapons, night vision goggles and communication and surveillance equipment.

Inherently clean and very gentle, the process does not use high temperatures, radiated heat or any cleaning agent such as fuller's earth, detergents, foams or chemicals. Intended for use in theatre

and hostile environments, the system is very simple to operate, requiring no additional facilities or resources other than standard 230V AC power. Special fittings, including connectors for pilot's breathing and demist hoses, are provided to ensure comprehensive decontamination of the items being cleaned. External test ports allow the introduction of sensors to verify successful decontamination. During operation, the system is fully sealed to prevent unnecessary further exposure to contaminants.

Utilising low-cost, readily available military-spec gas mask respirator filters, all subsequently removed contaminants are contained for disposal in line with standard military procedures.

Manufactured in 316 stainless steel, and constructed to meet military air transport requirements, the CDU is extremely robust, yet portable.

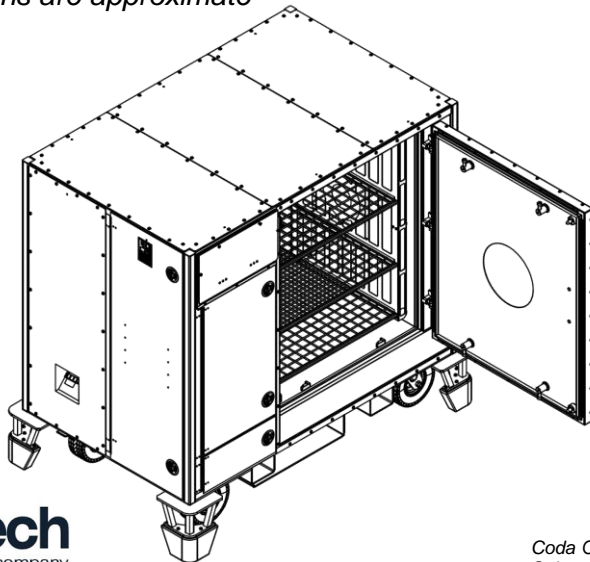
Airborne Systems • Land Systems • High Value • High Tech • Micro UAV • Personal Effects



Technical specification

Overall Dimensions	Width	1.844m (6') max. including removable transportation buffers
	Height	1.697m (5'7")
	Depth	1.194m (3'11") max. including removable transportation buffers
	Weight	570kg (1254lb) (custom size options available)
Chamber Internal Dimensions	Width	0.78m (2'7")
	Height	1.1m (3'7") usable height approx. 1m (3'3") inc. shelves.
	Depth	0.8m (2'7")
Construction	Inner chamber, pipework and all chemically exposed parts - 316 stainless steel	
	Chassis and covers – mild steel painted with chemically hardened paint (other custom paint or finish options on request)	
Shock	Tested to MIL-STD Method 516.5-VI Transit Drop	
Vibration	Tested to MIL-STD Method 514.5, 15Hz to 2000Hz at 0.01g ² /Hz	
EMC	Tested to EN61326-1:2006	
Environmental	Temperature	-10°C to +50°C operational (-40°C to +70°C storage)
	Humidity	95% RH at 30°C
Safety	CE compliant	
Power	240Vac, 10Amps (110Vac option available)	
Chemical filtration	NATO standard S10 type chemical filter compatible fittings. Other options available Decontamination process independently validated	
Transportation	Suitable for transportation by air, sea and land without specialist packaging	
Portability	Lockable casters with solid rubber tyres as standard	
	Fork-lift points	
Controls & displays	40°C (104°F) or 70°C (158°F) temperature pre-sets	
	Manual temperature select option to 85°C (185°F)	
	Set temperature controlled to +/- 1°C (+/- 2°F)	
Other features	Viewing port (double glazed), internal LED lighting, time alarm	
	Test port for chemical sniffer introduction	

All dimensions are approximate



main control panel



Specification subject to change without notice.
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