



The BD300C Syringe Destroyer (VM-SYRBD300C) is a compact tabletop device for point-of-use destruction of used disposable syringes. A silver-pole low-voltage (~7V AC) arc melts and destroys the metal needle hub in 3 seconds, while a barrel puncture mechanism renders the syringe incapable of refilling or reuse. Operates on 220V or 110V AC, 50/60Hz, consuming less than 130W. Produces minimal waste and no toxic emissions

Dual-Action Needle Melting and Syringe Barrel Destruction

The BD300C is a tabletop syringe destroyer that renders used disposable syringes safe for disposal immediately at the point of use through two independent destruction mechanisms. The needle melting function uses a silver-pole low-voltage (~7V AC) electrical arc to melt and destroy the metal needle hub within 3 seconds of insertion — permanently deforming the needle and eliminating the needlestick hazard before the syringe leaves the clinical area. A separate barrel puncture mechanism then pierces the syringe body, preventing the barrel from being refilled or reused. This dual destruction process eliminates both the sharps injury risk and the risk of syringe reuse in a single, quick, point-of-care workflow requiring no sharps container handling for the needle itself.

Infection Control Significance in South African Clinical Settings

Unsafe disposal of used syringes is a significant healthcare-associated infection risk and a public health concern in resource-limited settings. Needle-sharing and syringe reuse contribute directly to the transmission of blood-borne pathogens including HIV and hepatitis B and C — conditions with high prevalence in the South African healthcare context. The BD300C allows every used syringe to be destroyed immediately after use, before it enters a waste stream where it could cause accidental needlestick injury to healthcare workers, cleaners, or waste handlers, or be retrieved for reuse. Point-of-use destruction with the BD300C reduces sharps container volume, simplifies sharps waste logistics, and supports infection control protocols in settings with limited access to formal sharps disposal infrastructure.

Operation, Power, and South African Availability

The BD300C operates on 220V or 110V AC at 50/60Hz — compatible with standard South African clinical facility power supply — and consumes less than 130W, making it economical to run continuously in busy clinical areas. Operation is straightforward: residual liquid is squeezed from the syringe before insertion, the needle is inserted into the melting port until destruction is complete (3 seconds), and the syringe barrel is then pressed onto the puncture post. The device produces minimal waste and no harmful emissions during the destruction process. Available in South Africa from Vital Medical, the BD300C is suited to GP practices, hospital wards, outpatient clinics,

community health centres, vaccination stations, and any clinical setting where safe, immediate point-of-use syringe disposal is required.

TECHNICAL SPECIFICATIONS TABLE

Specification	Detail
Model	BD-300C
SKU	VM-SYRBD300C
Type	Tabletop syringe destroyer (needle melter + barrel puncture)
Needle Destruction	Silver-pole low-voltage (~7V AC) arc, 3 seconds
Syringe Destruction	Barrel puncture mechanism
Power Supply	220V / 110V AC, 50/60Hz
Power Consumption	<130W
Waste Output	Minimal, no toxic emissions
Applications	Point-of-use syringe disposal, sharps safety, infection control
Settings	Clinic, hospital, laboratory, community health, vaccination

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