

Cyanoacrylate Fuming is a forensic technique that heats droplets of “super glue” to its gaseous state in a closed container that contains fingerprint-bearing objects. The circulated fumes react with the latent-but-invisible fingerprints to make them visible; once visible, the fingerprints can be photographed and become useful evidence.

TPE has designed its **Forensic Fingerprint Cabinet** to perform Cyanoacrylate Fuming with simplicity, ease of monitoring, and operator safety in mind. The Fingerprint Cabinet is securely attached to the bench, ducted to the exterior, and employs a final 15-minute post-purge step to ensure all hazardous fumes are evacuated from the cabinet.

A heating element in the bottom of the cabinet is preset to quickly raise the “super glue” to its boiling point, so its fumes fill the cabinet. A small “muffin fan” beneath the element assures thorough circulation of the fumes. An exhaust fan purges the fumes from the cabinet after the evidence has been processed.

Basic Operating Steps

1. Ensure the POWER ON LED lamp is lit.
2. Place evidence in cabinet; put “super glue” droplets in a foil cup, and place the cup on the metal heating element in the bottom of the cabinet.
3. Close door, and turn the two latches to secure the door against the airtight rubber gasket.
4. Press the Up ↑ or Down ↓ arrow to select CYCLE TIME – the time interval for the evidence to be exposed to the circulating fumes.
5. Press the START button, and observe that the RUNNING LED is lit. When the selected Cycle Time has expired, the POST PURGE LED will illuminate, and the exhaust fan will run for 15 minutes. Then, an audible “beep” is made, and the CYCLE COMPLETE LED will light, indicating that the door can be safely opened.

The LIGHT button illuminates the inside of the cabinet for better viewing of the process. The STOP button terminates the timed process, turns off the heating element, and immediately starts the 15-minute post-purge process. (If STOP is pressed *during* the post-purge process, it is ignored, and the purge process continues to completion.)



Specifications

Electrical	230V AC single-phase; 2M cord with standard wall plug for bench outlet
Material	10mm uPVC carcass
Front Fascia	Powder-coated steel with door opening, and gravity-closed inlet vent
Door	Toughened glass with airtight rubber-sealed closure system
External Dimensions	600mm W x 580mm D x 1500mm H
Internal Dimensions	564 W x 512 D x 1250mm H
Internal Fittings	Five powder-coated steel wire racks, each separately removable
Exhaust Fan	Single-phase, enclosed, centrifugal, constructed of rigid moulded PVC with a polypropylene rotor. Located in top of cabinet. Operates only at Post Purge
Circulation Fan	Standard "muffin fan," in bottom of cabinet. Operates only during fume process
Lamp	One 20 watt, for internal illumination