



a schunk company

Fingerprint Development Chamber

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www.weiss-uk.com

Our Fingerprint Development Chamber was developed exclusively for the UK Home Office Research Group.

The Fingerprint Development Chamber (FDC) is now used by almost every Police Force in the United Kingdom. The chamber is also used across the globe with customers ranging from the Victoria Police Force, Australia, Special Anti-Crime Unit of Trinidad and Tobago through to the FBI in the USA.



The FDC is designed for the rapid development of fingerprints on a variety of porous surfaces including paper, cardboard and untreated wood. The chamber is particularly useful for detecting latent prints on cheques, paper money and documents. The FDC can also develop fingerprints from blood stains on most surfaces.

The chamber is available as either benchtop (185 litre) or floorstanding (600 litre). The chamber is designed to enable batch development of fingerprints at conditions of elevated temperature and relative humidity as required by the Ninhydrin process, specifically 65%RH at 80°C.

A selection switch enables a 'dry development' mode to be selected for the DFO process. Additional processes requiring temperature and humidity control can also be carried out in the chamber.

User benefits:

- Speed - prints are developed in just three minutes
- Volume - large volumes can be processed
- Efficiency - greater throughput in faster time
- Clarity - controlled conditions ensure optimum clarity
- Flexibility - can accommodate small and large objects in addition to multiple samples at the same time

Speed of development and accuracy of controlled conditions

The controlled conditions of high temperature combined with high relative humidity accelerate the Ninhydrin process, yielding excellent clarity in just three minutes. A significant reduction in time compared to a minimum of ten minutes when using more traditional methods. The DFO process can also be optimised by selecting the DFO process cycle +100°C, without humidity.

Features at a glance:

- Single set point controllers for temperature and humidity
- Adjustable timer and alarm
- Safe fume exhaust
- Independent high temperature thermostat
- Combined temperature and humidity sensor
- Observation window
- Cross flow air system
- Removable shelves

Improvement of productivity and efficiency

The generous working area of the chamber and flexible shelving system enables large volumes of operational material to be processed quickly and easily thereby improving both productivity and efficiency.

Further options

A water recirculation system can be fitted to the FDC for users who require a demineralised water supply.



	FDC 018	FDC 060
Temperature range	+40°C to +100°C	+40°C to +100°C
Temperature fluctuation in time	±0.3°C	±0.3°C
Humidity range	50%RH to 90%RH	50%RH to 90%RH
Humidity fluctuation in time	±0.3%RH	±0.3%RH
Chamber volume	185 litre	600 litre
Sample storage area	0.65m ²	2.1m ²
Shelf loading	3 levels (2 shelves and floor)	5 levels (4 shelves and floor)
Interior dimensions (w x d x h)	650mm x 500mm x 570mm	650mm x 650mm x 1400mm
Exterior dimensions (w x d x h)	1140mm x 630mm x 922mm	1365mm x 910mm x 1960mm
Electrical connection	230V 50Hz - 208-220V 60Hz	230V 50Hz - 208-220V 60Hz
Weight	98kg	335kg

In 2013, following a combined presence in excess of 55 years, two respected leaders in environmental testing solutions, Weiss Gallenkamp and Design Environmental, merged to form Weiss Technik UK. Weiss Technik UK is a subsidiary of the Weiss Group, one of four divisions within the Schunk Group, the world's largest manufacturer of environmental testing equipment, based in Germany. Weiss Technik UK employs a team of over 90 staff across three office locations and a manufacturing plant in the United Kingdom and Germany.

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