



Toner Dust & Ozone Reduction-System

for ESDA Workplaces



Advantages at a glance:

- Reduction of Dust Exposure
 Removal of the fine particulate toner dust from the ambient air. No external ventilation required, no extraction from the room, therefore no humidity drop.
- Reduction of Ozone Exposure
 Reduces the ozone level,
 created by the Corona.
- Pollution-free Storage

The ESDA system can be stowed safely by all-around closeability and mini-cleaning cycles in stand-by mode, especially for users who don't have access to suitable fume cupboards

- The touch panel display features a counter for the remaining filter life time and gives optical and acoustic alert if a filter replacement is due. When the filter is saturated, the ESDA is powered off automatically.
- Automatic Fan Activation
 As soon as whether the front lid or the side flap is opened, the fan is activated at half speed. Also the optional illumination can be programmed to be switched on automa-

tically.

- Automatic Power Adjustment
 Automatically on activation of
 the ESDA vacuum pump, the
 air flow is increased to maximum.
- Below the adjustable support rails, the system features a tray, which can be pulled out for cleaning. The base of the tray is angled towards the left front corner, where the beads can be easily recollected via a

Adjustable Support Rails

Stable, adjustable support rails allow the **TORnado SF91** to suit any standard ESDA systems available.





For many years the use of Electrostatic Surface Detection Systems (as Foster + Freeman's ESDA) has been considered a standard in document examination. Along with Ozone from the Corona, produced during the development process, toner particulates are also released into the environment, especially when using the qualitatively better Cascade Developer method. Whilst this is still the optimum procedure for development of indented writing, local health and safety regulations may have changed over the years. Many larger laboratories already use exhaust cabinets. However, smaller labs and many private document examiners do not have access to such exhaust systems.

Attestor Forensics developed the Toner Particulate and Ozone Reduction System *TORnado SF9* especially for this type of user. If the front or side flap is opened, a powerful fan is automatically activated (half speed) and creates an air stream above the document bed of the ESDA. Once the user switches on the ESDA, the fan speed is automatically increased to maximum. The air is then filtered through a stainless steel mesh and a particulate filter Type F9, a combination, specific for the Cascade Developer. An activated carbon fleece, integrated into the filter cassette reduces the ozone in the air stream.

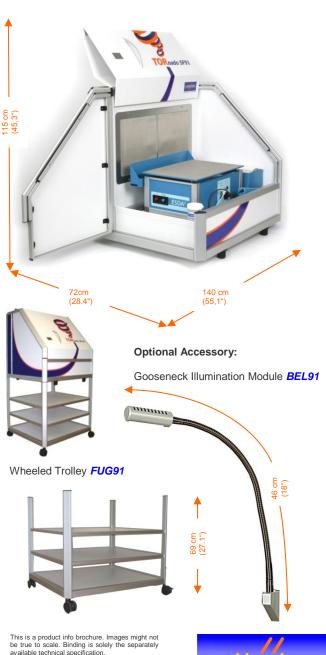
The **TORnado SF91** also performs a short filtration cycle at regular intervals when it is in stand-by mode, ensuring a safe environment for the user. For cleaning or to collect stray cascade beads, a catch tray can be pulled out without having to lift the heavy ESDA equipment.

The **TORnado SF91** features a microprocessor system which communicates with the user via a touch panel display in the lid. It features a counter for the remaining filter life time and informs the user when a filter replacement is due. If the maximum filter capacity is reached, **TORnado SF91** automatically switches off the fan as well as the power supply to the ESDA until a new filter is fitted. Unquestionably, **TORnado SF91** is an invaluable contribution to health and safety at a document examiner's

Гесhnical Data:	
Dimensions (HxWxD; closed)	80 x 72 x 80 cm 45.3 x 28.4 x 45.3"
Required Footprint Space (closed)	77 x 77 cm 30.3 x 30.3"
Required distance to the wall	5 cm / 2" to the left side
Lifetime Activated-Carbon Fleece and F9 Particulate Filter Cassette	125 hours (or. 12 months)
Electrical Data:	
Voltage Requirements:	110 - 230V AC / 50-60Hz
Current Requirements: (without ESD)	approx. 0,5 A with 230V approx. 1,0 A with 115V
Power Requirements: (without ESD)	max. 120 W
Weight (without ESD)	48 kg (106 lbs.)
TORnado SF91 comes with	1 Particulate Filter Cassette with Activated Carbon Fleece







innovation in forensics

Attestor Forensics GmbH reserves the right to alter the design or specification without prior