

TORnado SF91

For many years, the use of the Electrostatic Surface Detection Apparatus (ESDA) has been considered a standard in document examination. Along with ozone, toner particulates are released into the environment, especially when using the qualitatively better Cascade Developer method to process documents. While this is still the best procedure for processing indented writing, local health and safety regulations have become stricter 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, putting them at risk.

Attestor Forensics developed the Toner Particulate and Ozone Reduction System **TORnado SF91** especially for this type of user. If the front or side flap is opened, a powerful fan is automatically activated at half speed to create 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 filtered through a stainless steel mesh and a particulate combination filter Type F9, 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 the user can interact with 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 workplace.

Technical 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

Authorized distributor:

Attestor Forensics GmbH
Zeppelinstr. 28
88410 Bad Wurzach
Germany



attestor-forensics.com
attestor@attestor-forensics.com



Optional Accessory:

Gooseneck Illumination Module **BEL91**

Wheeled Trolley **FUG91**



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TORnado SF91



Toner Dust & Ozone Reduction-System

for ESDA Workplaces



Advantages at a glance:

■ Reduction of Dust Exposure

Removes fine particulate toner dust from the ambient air and workspace using an integrated filter system. No external ventilation system and no extraction from the room is required, so humidity and temperature control are more stable.

■ Reduction of Ozone Exposure

Reduces the ozone levels generated by the Corona.

■ Pollution-Free Storage

The ESDA system can be stowed safely with the help of its fully enclosed design and mini-cleaning cycles for stand-by mode. This is especially important for users who don't have access to standard fume cupboards and fume hoods.

■ Counter for Filter Life

The touch panel display features a counter for the remaining filter cycles and gives the user a visual and audible alert if a filter replacement is due. When the filter is saturated, the ESDA is powered off automatically to prevent unsafe operation.

■ Automatic Fan Activation

The filter fan activates at low speed and the lighting is turned on automatically as soon as any panels are opened. The airflow automatically increases to full speed when an ESDA is in use.

■ Catch Tray for Cascade Beads

Below the adjustable support rails, the system features a tray, which can be pulled out for cleaning. The base of the tray is angled so toner beads can be easily re-collected via a spout.

Adjustable Support Rails

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

TORnado SF91



Touch Panel Control

Users operate the **TORnado SF91** software via the smooth user-friendly touch panel. The smooth surface and lack of switches simplifies cleaning and minimizes contamination.

Particulate and Activated Carbon Filter

TORnado SF91 uses an efficient three-stage filter with stainless steel mesh (for the cascade beads), activated carbon fleece (for ozone reduction) and a particulate filter cassette type F9 (for toner dust).

Integrated Illumination Module

(optional)
TORnado SF91 can be equipped with an integrated LED array lamp module, which can be controlled automatically by the system or manually operated by the user.

Power Connections and Corona Holder

For powering the ESDA, **TORnado SF91** provides a power connection inside the enclosure. The corona is safely stowed in a convenient holder.

Storage for Cascade Developer and TAD

Consumables like Cascade Developer or TADs can easily be stored in the enclosed **TORnado SF91** workspace.

Catch Tray for Cascade Beads and Toner

For easier cleaning the catch tray of the **TORnado SF91** can be easily pulled out without lifting the ESDA.