**Introduction**

Esco Evidence Drying Cabinet is a negative pressure cabinet designed to provide security, tamper proof, and prevent loss of integrity and credibility and possible cross-contamination of evidence and impede any harmful airborne pathogens, putrid odors, and other gases from escape that may harm or infect employees/technicians.

**Construction**

- Cabinet exterior is constructed of industrial-grade electrogalvanized steel with mobile lockable casters.
- Esco iSCID® antimicrobial coated cabinet structure prevents surface contamination and inhibits bacterial growth on the cabinet’s external surface.
- Stainless steel interior for easy cleaning.
- Built-in warm white, electronically ballasted, 5000k lighting provides excellent illumination of the work zone and reduces operator fatigue. The reliable lighting system is a zero-flicker and instant start.
- Stainless steel collapsible wire mesh shelves.
- Laminated Tempered Glass Door to prevent UV light exposure.
- Stainless steel catch tank underneath the drying cabinet with hose provision.

**Filtration System**

The enhanced filtration system on Esco Evidence Drying Cabinet is designed to provide the highest level of operator protection from harmful exposure to biohazards, putrid odours, and gases emanating from evidence materials.

- Disposable and non-washable polyester fibers with 85% arrestance below the door entry and before the ULPA Filter.
- High quality ULPA filters utilizing an improved mini-pleated separation technique to maximize surface area which improves efficiency and extends the filter life. Filters operate at a typical efficiency of >99.999% at 0.1 to 0.3 micron sizes.
- Carbon filtration to remove putrid odours and gases.

**Control System**

Esco Evidence Drying Cabinet is controlled by Sentinel Control System with the following features;

- Timer for evidence drying cycle.
- Programmable UV switch and timer which turns off automatically after a fixed period.
- UV lifespan countdown timer.
- Velocity and exhaust temperature display.
- Blower Hour meter indicates how long the blower has been in operation.
- Visual and audible alarms.
- Two speed automatic blower setting pre-set to half speed and 100% blower speed.

**Blower System**

- Energy-efficient external rotor motor design reduces operating costs and has extremely low noise and vibration levels.
- The intelligent blower system maintains airflow as the filter becomes loaded, ensuring optimum efficiency and product protection.
- Built-in solid state variable speed controllers, with integral RFI and noise filters, are superior to conventional “step” controllers and offer infinite adjustment from zero to maximum setting.

**Airflow**

- During operation, room air is drawn through the door of the cabinet via a non-washable polyurethane pre-filter with 85% arrestance, trapping particulates and prevent cross-contamination of the evidence materials.
- The air is then forced inwards resulting in a unidirectional stream of air projected vertically upward over the internal work zone by the blower system found on top of the cabinet. All airborne contaminants and putrid odours from materials inside the cabinet are pushed up towards a three stage filtration consisting of Pre-filter, ULPA, and carbon filters.
• Contaminated air from the cabinet exhaust through a combination of ULPA and carbon filters and recirculated back into the room/environment.
• A nominal filter face velocity of 0.45 m/s (90 fpm) ensures that there is a sufficient number of air changes within the enclosed area of the cabinet in order to maintain cleanliness.
• Disposable and non-washable polyester fibers with 85% arrestance below the door entry and before the ULPA Filter.

Warranty
The one-year warranty will cover all the other parts including the blower, speed controller, electrical main board, and microprocessor, excluding consumables such as the ballast, fluorescent, and filters. During the warranty period, no repairs, modifications, testing and commissioning will be performed by any unauthorized party other than the Esco Service Team or the warranty shall be deemed voided.

Evidence Drying Cabinet Sentinel™ Gold Microprocessor Control System

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### GENERAL SPECIFICATION

<table>
<thead>
<tr>
<th>Modelz</th>
<th>Esco Evidence Drying Cabinet</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Size</td>
<td>1.2 m (47.2&quot;)</td>
</tr>
<tr>
<td>External Dimension (W x D x H)</td>
<td>1200 x 700 x 2300 mm (47.2&quot; x 27.6&quot; x 90.6&quot;)</td>
</tr>
<tr>
<td>Internal Work Area Dimension (W x D x H)</td>
<td>1100 x 600 x 1160 mm (43.3&quot; x 23.6&quot; x 45.7&quot;)</td>
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<tr>
<td>Exhaust Volume Face Velocity of 0.45 m/s</td>
<td>900 cmh (1530 cfm)</td>
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<table>
<thead>
<tr>
<th>Cabinet Construction</th>
<th>Main Body: Electrogalvanized Steel Powder Coated</th>
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<tbody>
<tr>
<td>Floor</td>
<td>Stainless Steel Grade 304</td>
</tr>
<tr>
<td>Door</td>
<td>Glass Door with Electrogalvanized Steel Frame</td>
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<table>
<thead>
<tr>
<th>Power Consumption</th>
<th>2200 W</th>
</tr>
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<tbody>
<tr>
<td>Cabinet Full Load Amps (FLA)</td>
<td>10 A</td>
</tr>
<tr>
<td>Electrical</td>
<td>220 - 240 VAC 50/60Hz</td>
</tr>
<tr>
<td>Controller</td>
<td>Sentinel™ Gold Microprocessor Control System</td>
</tr>
<tr>
<td>Net Weight</td>
<td>230 kg (506 lbs)</td>
</tr>
<tr>
<td>Shipping Weight</td>
<td>250 kg (550 lbs)</td>
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<tr>
<td>Shipping Dimension, Maximum (W x D x H)</td>
<td>2300 x 960 x 1400 mm (90.6&quot; x 37.8&quot; x 55.1&quot;)</td>
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</tbody>
</table>

### OPTIONS

- Inbuit pump to drain
- UV-C lighting
- Clean In Place (CIP) Spray gun
- Wash In Place (WIP) Spray ball
- Inflate sealed IP66 door with automated spray down.
- Stainles steel storage box
- Hanging evidence segregator

### GUIDE TO ESCO EVIDENCE DRYING CABINET MODELS

<table>
<thead>
<tr>
<th>Model</th>
<th>AIRFLOW/ DIRECTION</th>
<th>CODE</th>
<th>SIZE</th>
<th>CODE</th>
<th>DOOR SEAL</th>
<th>CODE</th>
<th>PUMP</th>
<th>CODE</th>
<th>CLEANING METHOD</th>
<th>CODE</th>
<th>VOLTAGE</th>
<th>CODE</th>
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<tbody>
<tr>
<td>EDHC / EDVC</td>
<td>Horizontal</td>
<td>H</td>
<td>4 FT</td>
<td>4</td>
<td>Gasket</td>
<td>G</td>
<td>None</td>
<td>N</td>
<td>None</td>
<td>N</td>
<td>220-240 VAC, 50/60 Hz</td>
<td>8</td>
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<tr>
<td>Vertical</td>
<td>V</td>
<td>6 FT</td>
<td>6</td>
<td>IP 66</td>
<td>I</td>
<td>Inbuilt</td>
<td>B</td>
<td>CIP</td>
<td>C</td>
<td>110-120 VAC, 50/60 Hz</td>
<td>9</td>
<td></td>
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</table>

Evidence Drying Cabinet
Evidence Drying Cabinet Construction

Vertical

1. Electrical Panel
2. UV HR-Meter Display
3. Visual Alarm
4. PMP Test Port
5. Cam Latch
6. Stainless Steel Handle
7. Plastic Hinge
8. Filter and Fan Plenum
9. Sentinel™ Gold
10. Laminated Tempered Glass with UV Light
11. SS304
12. Air Inlet/Pre-filter
13. Thumb Screw
14. Drain Line Faucet
15. Cleanroom Wheels (Lockable)
16. Leveling Feet
17. LED Lighting
18. SS304 Rod
19. IV-Magnetic Switch
20. Door Ball Latch
21. UV Light
22. G4 Exhaust Filter
23. Fan Blower
24. Carbon Filter
25. HEPA Filter (H14)
26. SS304 Coved Corner Chamber Base with Drain
27. Drain Pan
28. SS304 Coved Corner

Horizontal

1. Electrical Panel
2. UV HR-Meter Display
3. Visual Alarm
4. PMP Test Port
5. Cam Latch
6. Stainless Steel Handle
7. Plastic Hinge
8. Filter and Fan Plenum
9. Sentinel™ Gold
10. SS304
11. Air Inlet/Pre-filter
12. Thumb Screw
13. Drain Line Faucet
14. Cleanroom Wheels (Lockable)
15. Leveling Feet
16. LED Lighting
17. UV-Magnetic Switch
18. Glass View
19. SS304 Shelve (Non Perforated) Adjustable
20. Door Ball Latch
21. Pilaster Bracket
22. G4 Exhaust Filter
23. Fan Blower
24. Carbon Filter
25. UV Lighting
26. HEPA Filter (H14)
27. 300 x 150 x 140 mm SS Compartment
28. Rear Air Plenum
29. SS304 Coved Corner Chamber Base with Drain
30. SS304 Coved Corner
Since 1978, Esco has emerged as a leader in the development of controlled environment, laboratory and pharmaceutical equipment solutions. Products sold in more than 100 countries include biological safety cabinets, fume hoods, ductless fume hoods, laminar flow clean benches, animal containment workstations, cytotoxic cabinets, hospital pharmacy isolators, and PCR cabinets and instrumentation. With the most extensive product line in the industry, Esco has passed more tests, in more languages, for more certifications, throughout more countries than any biosafety cabinet manufacturer in the world. Esco remains dedicated to delivering innovative solutions for the clinical, life science, research and industrial laboratory community. www.escoglobal.com.