

Evidence Drying Cabinet



Horizontal Evidence Drying Cabinet



Vertical Evidence Drying Cabinet

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.

Key Features

- Cabinet exterior is constructed of industrial-grade electrogalvanized steel with mobile lockable casters. Optional Control System Package/s
- Esco Isocide 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 HEPA Filter.
- 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, HEPA, and carbon filters.

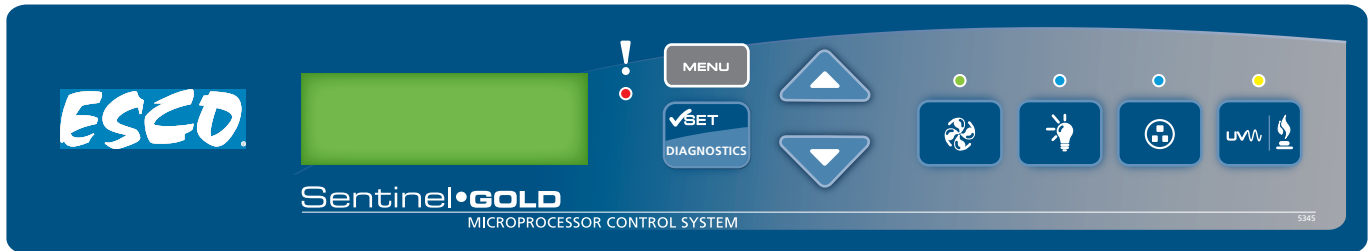
Evidence Drying Cabinet

- Contaminated air from the cabinet exhaust through a combination of HEPA 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 HEPA 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



- Displays all safety information on one screen
- Centered and angled down for easy reach & viewing
- Selectable Quickstart mode for fast operation

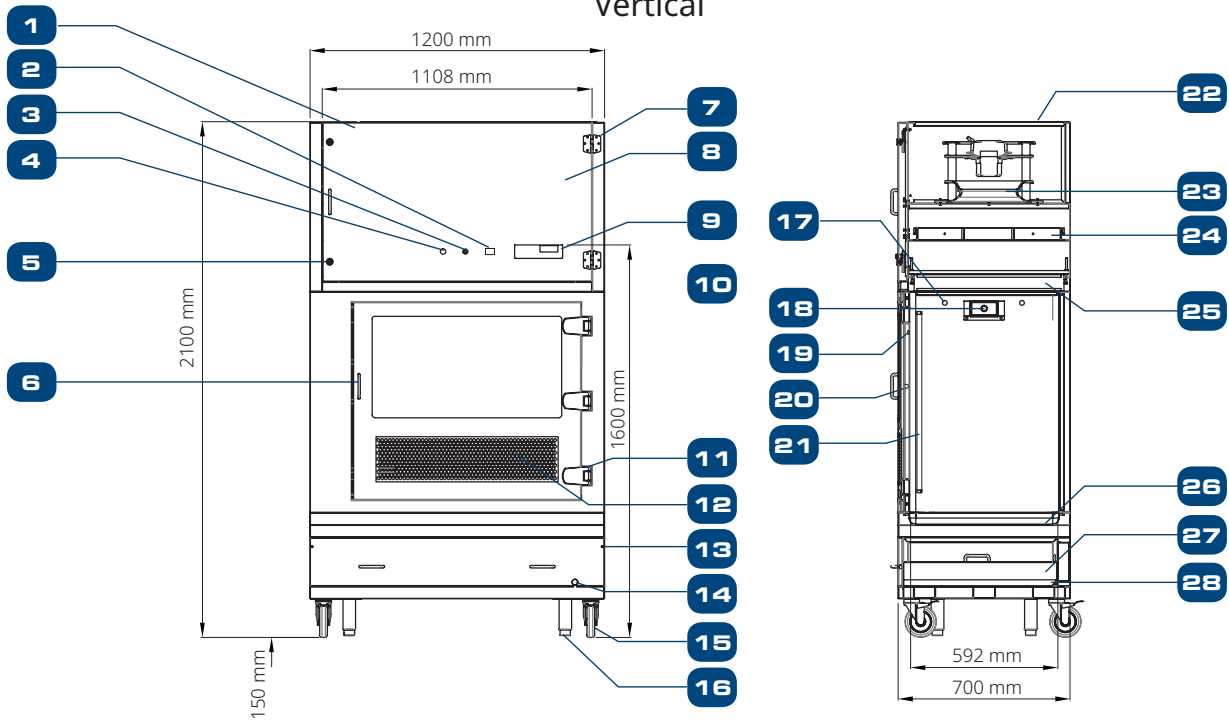
General Specification		
Models	Esco Evidence Drying Cabinet	
Normal Size	1.2 m (47.2")	
External Dimension (W x D x H)	1200 x 700 x 2300 mm (47.2" x 27.6" x 90.6")	
Internal Work Area Dimension (W x D x H)	1108 x 592 x 1147 mm (43.6" x 23.3" x 45.2")	
Exhaust Volume Face Velocity of 0.45 m/s	900 cmh (1530 cfm)	
Cabinet Construction	Main Body	Electrogalvanized Steel Powder Coated
	Floor	Stainless Steel Grade 304
	Door	Glass Door with Electrogalvanized Steel Frame
Power Consumption	2200 W	
Cabinet Full Load Amps (FLA)	10 A	
Electrical	220 - 240 VAC 50 / 60HZ	
Controller	Sentinel™ Gold Microprocessor Control System	
Net Weight	230 kg (506 lbs)	
Shipping Weight	250 kg (550 lbs)	
Shipping Dimension, Maximum (W x D x H)	2300 x 960 x 1400 mm (90.6" x 37.8" x 55.1")	

Options	
UV-C lighting	Stainless steel storage box
Clean In Place (CIP) Spray gun	Hanging evidence segregator

Guide to Esco Evidence Drying Cabinet Models								
EDHC - 4 G - 8								
Model	Airflow Direction	Code	Size	Code	Door Seal	Code	Voltage	Code
EDHC / EDVC	Horizontal	H	4 FT	4	Gasket	G	220-240 VAC, 50/60 Hz	8
	Vertical	V	6 FT	6			110-120 VAC, 50/60 Hz	9

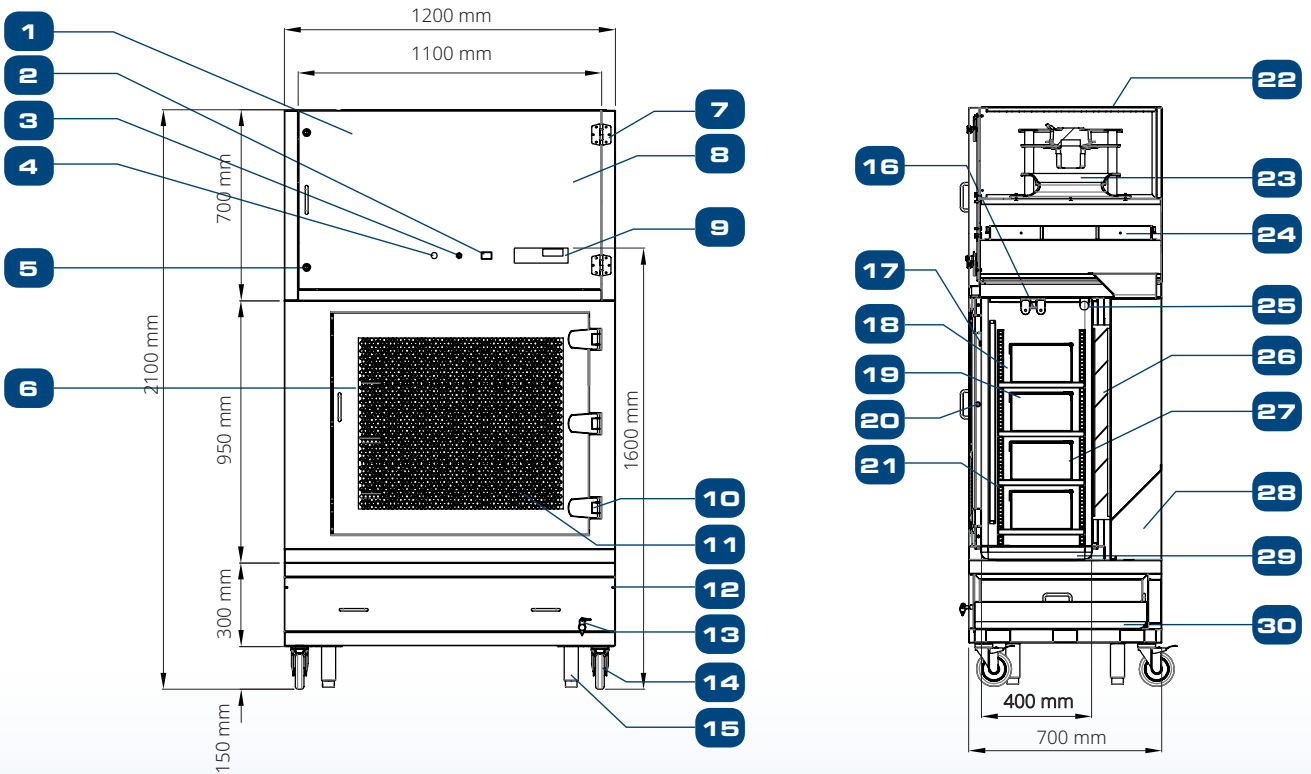
Evidence Drying Cabinet Construction

Vertical



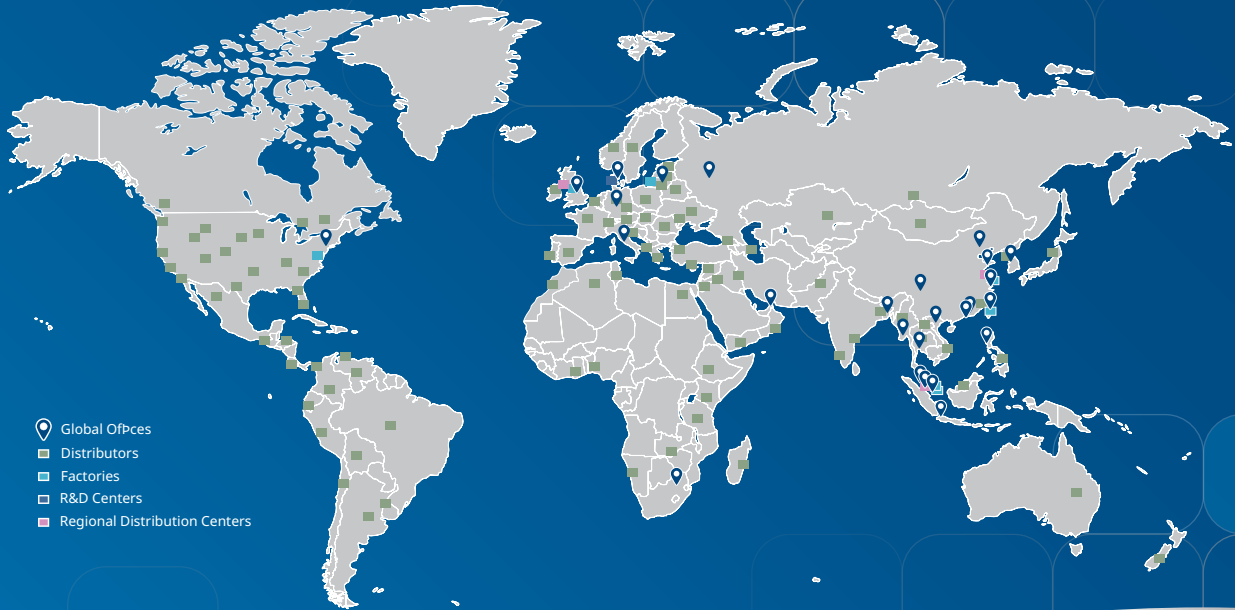
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|---------------------------|--|---------------------------------|--------------------------------|
| 1. Electrical Panel | 8. Filter and Fan Plenum | 15. Cleanroom Wheels (Lockable) | 22. G4 Exhaust Filter |
| 2. UV HR-Meter Display | 9. Sentinel™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

Horizontal



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|---------------------------|---------------------------------|--|--|
| 1. Electrical Panel | 9. Sentinel™ Gold | 17. UV-Magnetic Switch | 25. UV Lighting |
| 2. UV HR-Meter Display | 10. SS304 | 18. Glass View | 26. HEPA Filter (H14) |
| 3. Visual Alarm | 11. Air Inlet/Pre-filter | 19. SS304 Shelve (Non Perforated) Adjustable | 27. 300 x 150 x 140 mm SS Compartment |
| 4. PMP Test Port | 12. Thumb Screw | 20. Door Ball Latch | 28. Rear Air Plenum |
| 5. Cam Latch | 13. Drain Line Faucet | 21. Pilaster Bracket | 29. SS304 Coved Corner Chamber Base with Drain |
| 6. Stainless Steel Handle | 14. Cleanroom Wheels (Lockable) | 22. G4 Exhaust Filter | 30. SS304 Coved corner |
| 7. Plastic Hinge | 15. Leveling Feet | 23. Fan Blower | |
| 8. Filter and Fan Plenum | 16. LED Lighting | 24. Carbon Filter | |

ESCO LIFESCIENCES GROUP NETWORK
42 Locations in 21 Countries All Over the World



- Air Shower
- Aseptic Containment Isolator (ACTI)
- Ceiling Laminar Airflow Units
- Cleanroom Transfer Hatch
- Containment Barrier Isolator (CBI)
- Downflow Booth (DFB)
- Dynamic Floor Laminar Hatch
- Dynamic Pass Box
- Evidence Drying Cabinet
- Garment Storage Cabinet
- General Processing Platform Isolator (GPPI)
- Laminar Flow Horizontal Trolley
- Laminar Flow Straddle Units, Single and Double
- Laminar Flow Vertical Trolley
- Pass Box
- Soft Wall Cleanroom
- Sputum Booth
- Ventilated Balance Enclosure (VBE)
- Weighing and Dispensing Containment Isolator (WDCI)

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.



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