

Esco Cleanroom Garment Storage Cabinet

Ensuring Stability and Accuracy
of Powder Weighing Tasks



Esco Garment Storage
Cabinet Model 04-EGSC

EGSC with Cupboard design

Introduction

Esco Garment Storage Cabinet are the premium selection for the discerning user. It offers a combination of value, high quality construction, low operating noise levels, and a wide product range to suit all budgets, from an industry leader.

Basic Principles

Esco Garment Storage Cabinet make a positive contribution to maintaining the cleanliness of a cleanroom environment, specifically to maintain the Personal Protective Equipment (PPE) such as lab coat and jumpsuit.

- ULPA-filtered as per IEST-RP-CC001.3, USA airflow keeps garments clean during storage and handling.
- High quality ULPA filters which utilizes an improved mini-pleated separation technique to maximize surface area improving efficiency and extending the filter life. Filters operate at a typical efficiency of >99.999% at 0.1 to 0.3 micron sizes.
- Enables garments to be stored in a visible and organized manner.
- Esco Garment Storage Cabinet provide ISO Class 5 air cleanliness within the work zone as per ISO 14644.1.
- An additional disposable pre-filter on all models traps large particles in the inflow air prior to reaching the main filter, protecting it against damage and prolonging its life.

Standard Features

- Reliable rocker switches control the fan and lights and a Minihelic™ pressure gauge monitors cabinet operation.
- Built-in warm white, electronically ballasted, 5000K lighting provides excellent illumination of the work zone and reduces operator fatigue. The reliable lighting system is zero-flicker and instant start.
- All components are designed for maximum chemical resistance and enhanced durability for a long service life.
- The main body of the cabinet is constructed with industrial-grade electrogalvanized steel.
- The cabinet can be designed as mobile with caster wheels or static via built-in leveling feet.
- All cabinet components are clean room compatible. Isocide eliminates 99.9% of surface bacteria within 24 hours of exposure.



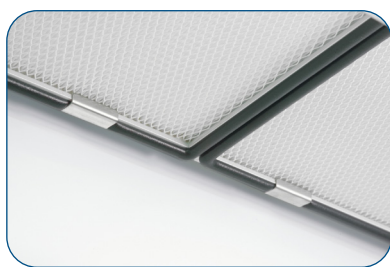
Cabinet Filtration System

Blower
Supply ULPA Filter

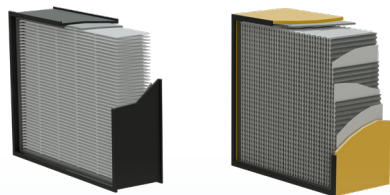
ULPA-filtered air
Unfiltered / potentially contaminated air
Room air / Inflow air

- During operation, room air is drawn through the top of the cabinet via a non-washable polyurethane pre-filter with 85% arrestance, trapping larger particles and increasing the life of the main filter.
- The air is then forced evenly through the ULPA filter with >99.999% efficiency, resulting in a unidirectional stream of clean air projected vertically over the internal work zone. All airborne contaminants are flushed and diluted, resulting in a particulate-free work environment.
- The purified air then leaves the storage area across the entire open front of the cabinet.
- A nominal filter face velocity of 0.45 m/s (90 fpm) ensures that there is a sufficient number of air changes with in the enclosed area of the cabinet in order to maintain cleanliness.
- Esco laminar flow storage cabinets incorporate permanently lubricated direct drive centrifugal blowers.
- The energy efficient external rotor motor design reduces operating costs, noise, and vibration levels.
- Built-in solid state variable speed controllers with integral noise filters offering flexible adjustment from zero to maximum setting.
- Each cabinet is individually factory tested for safety and performance in compliance with international standards.
- All electrical components are UL listed or UL recognized, ensuring superior electrical safety.
- All Esco laminar flow storage cabinets meet general safety requirements set by independent testing laboratories.

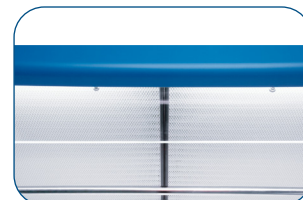
| | Cabinet Performance | Air Quality | Filtration | Electrical Safety |
|----------------------|--|---|---|---|
| Standards Compliance | EN 12469 IEST-RP-CC002.2, Worldwide | ISO 14644.1, Class 3, Worldwide AS 1386 Class 1.5, Australia JIS B9920 Class 3, Japan | EN-1822 (H14), Europe IEST-RP-CC001.3, Worldwide IEST-RP-CC007.1, Worldwide IEST-RP-CC034.1, Worldwide | IEC 61010-1, Worldwide EN 61010-1, Europe UL 61010-1, USA CAN/CSA-22.2, No.61010-1 |



Mini-pleat Separatorless Filter (left) vs. Conventional Aluminium Separator Filter (right)



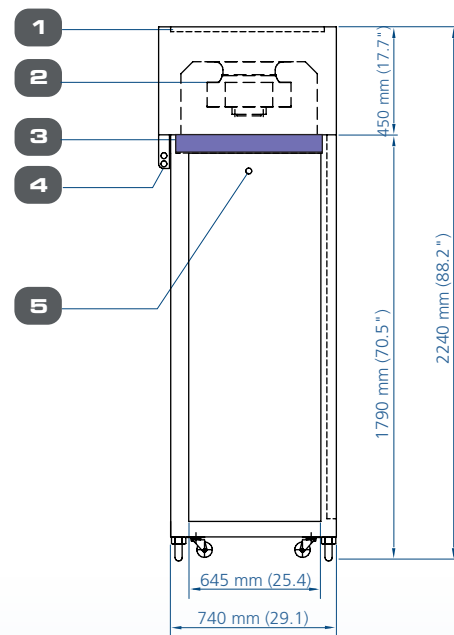
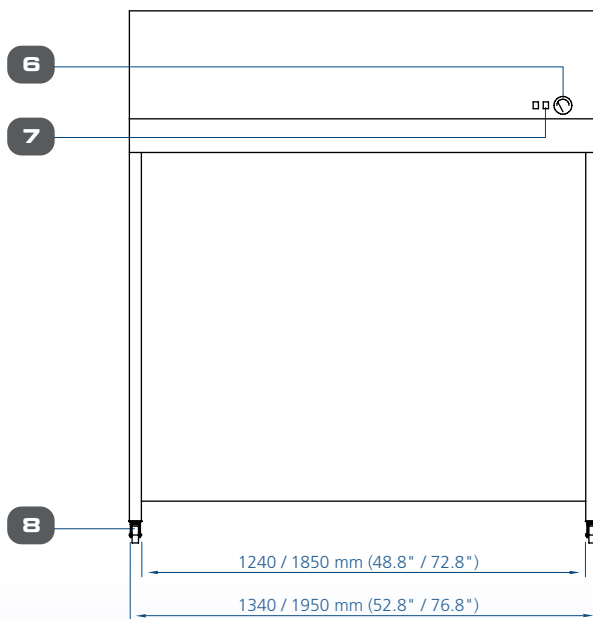
Esco cabinets use Swedish Camfil Farr® mini-pleat filters without aluminum separators to increase filter efficiency, minimize the chance of leakage, and to prolong filter life. Filters include a lightweight aluminum frame for structural stability and elimination of swelling common to conventional wood frames.



General Specifications, Garment Storage Cabinet

| Model | 04-EGSC | 06-EGSC | |
|---|---|---|---------|
| Nominal Size | 1.2 meters (4') | 1.8 meters (6') | |
| External Dimensions (W × D × H) | 1340 × 740 × 2240 mm (52.8" × 29.1" × 88.2") | 1950 × 740 × 2240 mm (76.8" × 29.1" × 88.2") | |
| Internal Storage Area, Dimensions (W × D × H) | 1240 × 645 × 1790 mm (48.8" × 25.4" × 70.5") | 1850 × 645 × 1790 mm (72.8" × 25.4" × 70.5") | |
| Storage Capacity | 16 garments on hangers (4' model) | 24 garments on hangers (6' model) | |
| Average Airflow Velocity | 0.45 m/s (90 fpm) | | |
| Pre-Filter | Disposable and non-washable polyester fibers with 85% arrestance / EU3 rated | | |
| ULPA Filter Typical Efficiency | 99.999% for particles size at 0.3 microns | | |
| Sound Emission Per IEST-RP-CC002.2 | 61 dBA | 63 dBA | |
| LED Lamp Intensity At Zero Ambient | >800 Lux (74 foot candles) | | |
| Cabinet Construction | Main Body 1.2mm (0.05") 18 gauge electro-galvanised steel with white oven-baked epoxy powder-coated finish | | |
| Electrical | 220-240V, AC, 50Hz, 1Ø | 04-EGSC | 06-EGSC |
| | Cabinet Nominal Power | 378 W | 628 W |
| | Cabinet Full Load Amps (FLA) | 1.8 A | 4 A |
| | Cabinet BTU | 1290 | 2143 |
| Net Weight | 150 kg (331 lbs) | 220 kg (484 lbs) | |
| Gross Weight | 229.5 kg (506 lbs) | 311.6 kg (687 lbs) | |
| Shipping Dimensions, Maximum (W × D × H) | 2150 × 950 × 1610 mm (84.6" × 37.4" × 63.4") | 2150 × 950 × 1610 mm (84.6" × 37.4" × 63.4") | |
| Shipping Volume, Maximum | 3.29 m ³ (116 cu.ft.) | 3.29 m ³ (116 cu.ft.) | |

Model EGSC (Esco Garment Storage Cabinet)



1. Pre-filter
2. Blower
3. ULPA filter
4. LED lamps

5. Stainless steel rod
6. Pressure gauge
7. Operating switches
8. Castors

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.



Esco Pharma
 19 Changi South Street 1,
 Singapore 486779
 Tel: +65 65420833
 Email: mail@escolifesciences.com

Esco Technologies, Inc.
 2512 Metropolitan Drive, Suite 120 B
 Feasterville-Treose, PA 19053-6738
 Tel: +1 215 322 2155
 Email: eti.pharma@escolifesciences.com

Esco GB Ltd
 Unit 2 R-evolution @ Gateway 36, Kestrel
 Way, Barnsley, S70 5SZ
 Tel: +44 (0) 1226 360 799
 Email: egb.info@escolifesciences.com

Esco Lifesciences Offices: Bangladesh | China | Denmark | Germany | Hong Kong | India | Indonesia | Italy | Japan | Lithuania | Malaysia | Myanmar | Philippines | Russia | Singapore | South Africa | South Korea | Taiwan | Thailand | UAE | UK | USA | Vietnam



© 2019 ESCO. ESCO, the Esco logo, and other marks are trademarks of ESCO. Esco can accept no responsibility for possible errors in catalogues, brochures and other printed materials. Esco reserves the right to alter its products and specifications without notice. All trademarks and logos are the property of Esco and the respective companies.