

Introduction

Esco Air Showers (EAS) is self-contained chambers strategically positioned at cleanroom entrances and other controlled environments. These chambers minimize particulate matter from infiltrating the clean space. As personnel or materials pass through, the EAS "scrubs" by high velocity HEPA-filtered air jets with velocity of minimum 18 m/s (3,543 fpm). The contaminated air is drawn from the base, filtered, and then recirculated into the chamber maintaining a clean environment.

Esco is the pioneering company for the construction of air showers with different applications on areas in the micro-electronics, semiconductors, pharmaceutical, spray painting, laboratory animal research and food markets.

Cleanroom Applications: As the greatest source of particulate contamination in a cleanroom is the operator, air showers serve as a critical preventive measure. As it is place between change areas and cleanroom, it reinforces the cleanroom protocol acting as a physical barrier that emphasize the importance of maintaining a controlled environment.

Pharmaceutical and Lab Animal Research Applications: Air showers maintain the cleanliness of the pharmaceutical production and laboratory animal breeding areas. It can also minimize egress of hazardous substances and allergens entering the controlled environment.

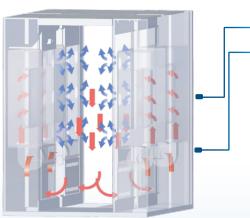
Main Features

- High velocity shower jets in excess of 18 m/s to ensure efficient scrubbing action to remove particulate matter.
- Operating modes can be programmed in the field.
- Microprocessor controller supervises all functions.
- HEPA (H14) filter (as per EN1822) and ULPA filter (as per IEST-RP-CC001.3) achieving ≥99.995% typical efficiency at 0.3 micron particles.
- A disposable pre-filter with 90% efficiency.
- An emergency stop button is mounted on both sides of the shower.
- Indicator lights mounted on both sides of the exterior of the air shower to regulate traffic flow, in and out of the cleanroom.
- Permanently lubricated direct drive centrifugal blowers used in conjunction with stainless steel air nozzles.

| EAS Cleanroom Air Shower Series Comparison Chart | | | | |
|--|--------------|-------------|--|--|
| Model | Airflow | Door | | |
| EAS (A-Series) | Single Sided | Single leaf | | |
| EAS (B-Series) | Double Sided | Single leaf | | |
| EAS (C-Series) | Double Sided | Double leaf | | |

See the Specification Chart for more details.

Air Shower Filtration System



HEPA Filter

Blower

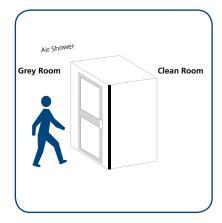
- Air is forced by the blower(s) through HEPA filter(s) which are 99.995% efficient against particles of 0.3 microns.
- Filtered air is ejected through nozzles at high velocities into the chamber.
 These turbulent air streams disperse particulate matter on all surfaces.

- HEPA-filtered air
- Unfiltered/potentially contaminated air
- Dispersed particulate matter migrate with the air stream towards the lower areas in the air shower chamber. Air enters the blower supply plenum through pre-filter(s) installed at the base of the chamber.
- The air is continuously filtered and recirculated. The air shower is a selfcontained device and does not exchange air with the environment it is placed in.

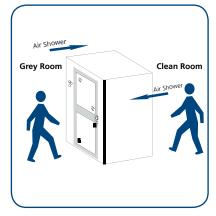


Air Shower Operating Sequences

Unlike conventional air showers which are delivered with a fixed operating sequence, the Esco Air Shower's operating sequence may be selected from three pre-programmed sequences:







One-Way

Personnel may enter the controlled environment but not exit through the air shower. At the idle state, the clean side door is locked while the grey side is unlocked. This mode of operation is useful for controlling traffic patterns in and out of the controlled environment.

Two-Way One-Way

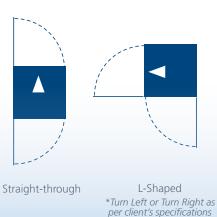
Personnel may enter or exit the controlled environment through the air shower. The air shower will be activated if personnel enter from grey room. The air shower program is able to detect if the person is entering or exiting the controlled environment via door sensors and a time-sequenced control.

Two-Way

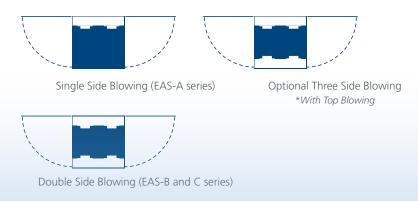
Personnel may enter or exit the controlled environment through the air shower. In both directions the air shower is activated. This mode of operation is useful in pharmaceutical and lab animal research applications to prevent the egress of hazardous substances and allergens from the controlled environment.



Optional EAS Exit Directions



EAS Blowing Type



Cleanroom Air Showers



Light Diffuser

Diffusers ensure and unifrom lighting throughout the chamber.



Light Indicator and Emergency Switch

Indicator lamps indicate if doors are locked or unlocked, thereby regulating the flow of personnel in and out of the air shower.

Emergency buttons mounted on both external faces of the shower unlock all doors instantly.



High Performance Blower System

German made ebm-papst® permanently lubricated centrifugal motor/blowers with external rotor designs. Motors selected for energy efficiency compact design and flat profile. Completely integrated assembly optimizes motor cooling. All rotating parts balanced for smooth, quiet, vibration-free operation.







Key Features

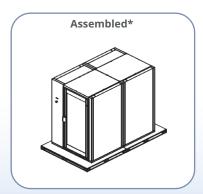
- Esco Air Shower filters meet the IEST-RP-CC001.3 recommended practice for ULPA performance (USA), and EN 1822 for H14 performance (EU).
- The automatic reset feature unlocks the doors preventing accidental lock-outs in cases when an operator opens the air shower without actually entering.
- In case of a power failure, all doors are unlocked automatically, and the settings are retained.
- A disposable pre-filter with 90% efficiency.
- The air shower is constructed with ISOCIDE antimicrobial powder coating on electro-galvanised steel sheets to minimize contamination.
- Each air shower is individually factory tested for safety and performance in accordance with international standards.
- Robust construction qualifies the air shower for the most demanding applications. The air shower is carefully assembled and readily installed and operated when shipped.
- Each unit is shipped with a documentation outlining the tests undertaken and its individual results.
- All critical electrical components are UL listed/recognized.
- The Air Shower is warranted for one year excluding consumable parts and accessories

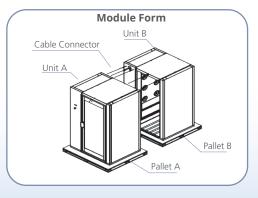


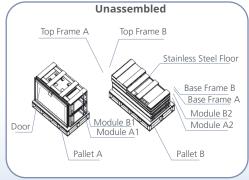
Experience the swiftness of our Fast Track units, ready for prompt shipment shortly after order placement, and available for delivery worldwide. Our current inventory of units is accessible at https://www.escolifesciences.com/fast-track-units, ensuring a seamless and expedited process to meet your needs.

| Model | | | EAS-1AEUS | EAS-2AEUS | EAS-3AEUS | |
|---|-------------------------------------|---|---|--|---|--|
| External Dimensions (W x D x H) | | | 1385 x 1040 x 2205 mm (54.53" x 40.94" x 86.81") | 1385 x 2080 x 2205 mm (54.53" x 81.89" x 86.81") | 1385 x 3120 x 2205 mm (54.53" x 122.83" x 86.81") | |
| Internal Work Area, Dimensions (W x D x H) | | | 915 x 920 x 2080 mm (36.02" x 36.22" x 81.89") | 915 x 1960 x 2080 mm (36.02" x 77.17" x 81.89") | 915 x 3000 x 2080 mm (36.02" x 118.11" x 81.89") | |
| Clean Door Opening (WxH) | | | 815 x 2030 mm (32.1" x 79.9") | | | |
| Air Change (18 – 30 m/s) | | | 110 - 182/ Hr | 105 - 175/ Hr | 104 - 172/ Hr | |
| Initial Airflow Velocity | | | | 18-30 m/s (3,543-5,906 fpm) | | |
| Number of Nozzles | | | 6 | 12 | 18 | |
| Air Shower Duration | | | Factory set at 12 seconds (adjustable upto 3 mins) | | | |
| Persons Per Cycle | | | 1 | 2-3 | | |
| | | | 4 | 8-12 | | |
| Personnel Flow (Persons / Minute) | | | The above figures are based on a Total Cycle Time of 16 seconds. (12 seconds of Air Shower + 4 seconds for buffer time / personnel entrance and exit) | | | |
| Filtration Efficiency | | | Filter: ≥99.995% at 0.3 μm Pre-Filter: Efficiency 90% | | | |
| Filtration Elements | | | Main Filter: HEPA 14 filter Pre-Filter: Disposable and non-washable polyester fibers | | | |
| Air Shower Construction | | 1.5 mm/ 0.06"/18 electro-galvanized steel / White oven-baked epoxy powder-coated finish | | | | |
| Maximum Power | During Operation | | 245 W, 1.2 A, 500 BTU/ Hr | 490 W, 2.4 A, 1000 BTU/ Hr | 735 W, 3.5 A, 1499 BTU/ Hr | |
| Consumption Current | During Standby | | 113 W, 0.5 A, 231 BTU/ Hr | 226 W, 1 A, 461 BTU/ Hr | 339 W, 1.5 A, 692 BTU/ Hr | |
| Electrical | 220-240V, 6AC, 0/50Hz, 1Ø | | EAS-1A8-EUS | EAS-2A8-EUS | EAS-3A8-EUS | |
| Electrical | 110-130V, AC, 60/5 |)Hz, 1Ø | EAS-1A9-EUS | EAS-2A9-EUS | EAS-3A9-EUS | |
| Gross Weight | | | 389.1 kg (858 lbs) | 658.6 kg (1452 lbs) | 977.9 kg (2156 lbs) | |
| | Assembled (W \times D \times H) | | 1680 x 1300 x 2400 mm (66.1" x 51.2" x 94.5") | N/A | N/A | |
| | Module Form (W × D × H) | Pallet A | N/A | 1680 x 1300 x 2400 mm (66.1" x 51.2" x 94.5") | 1680 x 1300 x 2400 mm (66.1" x 51.2" x 94.5") | |
| Shipping Dimensions, Maximum (W x D x H) | | Pallet B | N/A | 1680 x 1300 x 2400 mm (66.1" x 51.2" x 94.5") | 1680 x 1300 x 2400 mm (66.1" x 51.2" x 94.5") | |
| | | Pallet C | N/A | N/A | 1680 x 1300 x 2400 mm (66.1" x 51.2" x 94.5") | |
| | Unassembled (W × D × H) | Pallet A | 2500 x 1500 x 1090 mm (98.4" x 59.1" x 42.9") | 2500 x 1500 x 1390 mm (98.4" x 59.1" x 54.7") | 2500 x 1500 x 1090 mm (98.4" x 59.1" x 42.9") | |
| | | Pallet B | N/A | N/A | 2500 x 1500 x 1235 mm (98.4" x 59.1" x 48.6") | |
| Shipping Volume, Maximum | Assembled | | Pallet A: 5.24 m³ (185 ft³) | N/A | N/A | |
| | Module Form | | N/A | Pallet A: 5.24 m³ (185 ft³) Pallet B: 5.24 m³ (185 ft³) | Pallet A: 5.24 m³ (185 ft³) Pallet B: 5.24 m³ (185 ft³) Pallet C: 5.24 m³ (185 ft³) | |
| | Unassembled | | Pallet A: 4.09 m³ (144.4 ft³) | Pallet A: 5.21 m ³ (183.9 ft ³) | Pallet A: 5.24 m³ (185 ft³) Pallet B: 4.63 m³ (163.5ft³) | |

Esco Cleanroom Air Showers, Modes of Shipment, Model EAS-EUS (A-series)



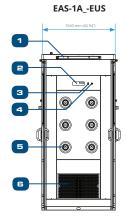


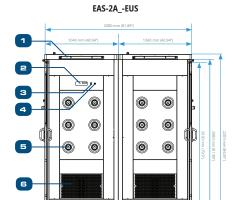


*not applicable for EAS-3A9-EUS

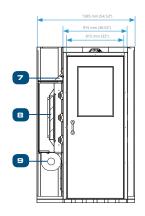


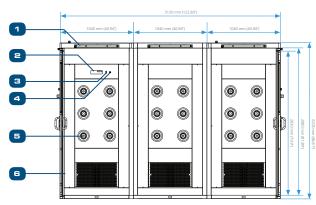
Model EAS-EUS (A-Series) Cleanroom Air Shower Technical Specifications





EAS-3A_-EUS



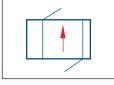




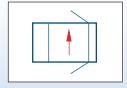
- 1. LED Housing
- 2. Esco Sentinel™ Microprocessor Controller
- 3. Unit Circuit Breaker Button
- 4. Unit On/Off Switch
- 5. Stainless Steel Nozzles
- 6. G4 Prefilters (Disposable)
- 7. Electrical Panel
- 8. H14 filters
- 9. Blower
- 10. Indicator Lights (for both grey and clean sides)
- 11. Emergency Stop Button (for both grey and clean sides)

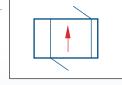
Model EAS-EUS (A-Series) Door Direction (Factory Configured. Choose One When Ordering.)



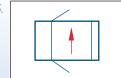


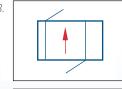




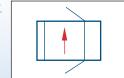


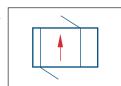




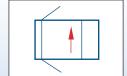






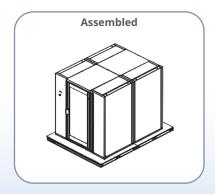


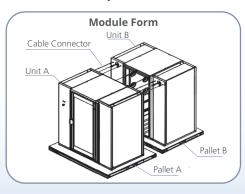


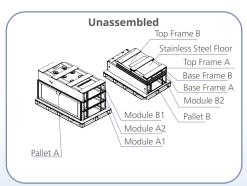


| General Specifications, Cleanroom Air Shower, Model EAS-EUS (B-Series) | | | | | | | |
|--|----------------------------|------------------|---|--|---|--|--|
| Model | | | EAS-1BEUS | EAS-2BEUS | EAS-3BEUS | | |
| External Dimensions (W x D x H) | | | 1655 x 1040 x 2205 mm (65.16" x 40.94" x 86.81") | 1655 x 2080 x 2205 mm (65.16" x 81.89" x 86.81") | 1655 x 3120 x 2205 mm (65.16" x 122.83" x 86.81") | | |
| Internal Work Area, Dimensions (W x D x H) | | | 915 x 920 x 2080 mm (36.02" x 36.22" x 81.89") | 915 x 1960 x 2080 mm (36.02" x 77.17" x 81.89") | 915 x 3000 x 2080 mm (36.02" x 118.11" x 81.89") | | |
| Clean Door Opening (WxH) | | | 815 x 2030 mm (32.1" x 79.9") | | | | |
| Air Change (18 – 30 m/s) | | | 219 - 364/ Hr | 209 - 349/ Hr | 207 - 344/ Hr | | |
| Initial Airflow Velocity | | | 18-30 m/s (3,543 - 5,906 fpm) | | | | |
| Number of Nozzles | | | 12 | 24 | 36 | | |
| Air Shower Duration | | | Factory set at 12 seconds (adjustable upto 3 mins) | | | | |
| Persons Per Cycle | | | 1 | 2-3 | | | |
| | | | 3 | 6-9 | | | |
| Personnel Flow (Persons / Minute) | | | Above figures based on: Total Cycle Time of 20 seconds (12 seconds of Air Shower + 4 seconds for buffer time + 5 second blower stopping time delay / personnel entrance and exit) | | | | |
| Filtration Efficiency | | | Main Filter: ≥ 99.995% at 0.3 µm Pre-Filter: Efficiency 90% | | | | |
| Filtration Elements | | | Main Filter: H14-HEPA filter Pre-Filter: Disposable and non-washable polyester fibers | | | | |
| Air Shower Construction | _ | | 1.5 mm/ 0.06"/18 electro-galvanised steel / White oven-baked epoxy antimicrobial powder-coated finish | | | | |
| Maximum Power | During Operation | | 500 W, 2.3 A, 1020 BTU/Hr | 1000 W, 4.6 A, 2040 BTU/Hr | 1500 W, 7 A, 3060 BTU/Hr | | |
| Consumption Current | During Standby | | 162 W, 0.7 A, 330 BTU/Hr | 200 W, 1 A, 408 BTU/Hr | 250 W, 1.1 A, 510 BTU/Hr | | |
| Electrical | 220-240V, AC, 60/50Hz, 1Ø | | EAS-1B8 -EUS | EAS-2B8 -EUS | EAS-3B8 -EUS | | |
| 110-130V, AC, 60/50Hz, 1Ø | | EAS-1B9 -EUS | EAS-2B9 -EUS | EAS-3B9 -EUS | | | |
| Gross Weight | | 449 kg (990 lbs) | 820 kg (1808 lbs) | 1247.3 kg (2750 lbs) | | | |
| | Assembled | | 1750 x 1250 x 2400 mm (68.9" x 49.2" x 94.5") | N/A | N/A | | |
| | Module Form (W × D × H) | Pallet A | N/A | 1750 x 1250 x 2400 mm (68.9" x 49.2" x 94.5") | 1750 x 1250 x 2400 mm (68.9" x 49.2" x 94.5") | | |
| Shipping Dimensions, | | Pallet B | N/A | 1750 x 1250 x 2400 mm (68.9" x 49.2" x 94.5") | 1750 x 1250 x 2400 mm (68.9" x 49.2" x 94.5") | | |
| Maximum (W x D x H) | | Pallet C | N/A | N/A | 1750 x 1250 x 2400 mm (68.9" x 49.2" x 94.5") | | |
| | Unassembled | Pallet A | 2500 x 1500 x 1090 mm (98.4" x 59.1" x 42.9") | 2500 x 1500 x 1090 mm (98.4" x 59.1" x 42.9") | 2500 x 1500 x 1380 mm (98.4" x 59.1" x 54.3") | | |
| | (W × D × H) | Pallet B | N/A | 2500 x 1500 x 1090 mm (98.4" x 59.1" x 42.9") | 2500 x 1500 x 1455 mm (98.4" x 59.1" x 57.3") | | |
| Shipping Volume, Maximum | Assembled | | Pallet A: 5.25 m ³ (185.4 ft ³) | N/A | N/A | | |
| | Module Form | | N/A | Pallet A: 5.25 m³ (185.4 ft³) Pallet B: 5.25 m³ (185.4 ft³) | Pallet A: 5.25 m³ (185.4 ft³) Pallet B: 5.25 m³ (185.4 ft³) Pallet C: 5.25 m³ (185.4 ft³) | | |
| | Unassembled | | Pallet A: 4.09 m³ (144.4 ft³) | Pallet A: 4.09 m³ (144.4 ft³) Pallet B: 4.09 m³ (144.4 ft³) | Pallet A: 5.18 m³ (182.9 ft³) Pallet B: 5.46 m³ (192.8 ft³) | | |

Esco Cleanroom Air Showers, Modes of Shipment, Model EAS-EUS (B series)



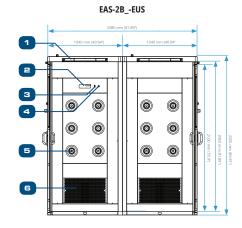


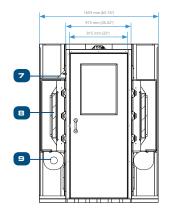


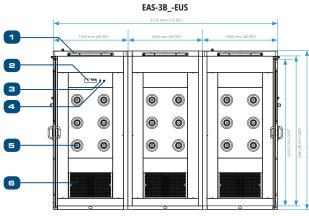


Model EAS-EUS (B-Series) Cleanroom Air Shower Technical Specifications

EAS-1B_-EUS 0





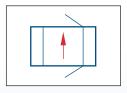




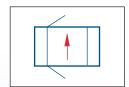
- 1. LED Housing
- 2. Esco Sentinel™ Microprocessor Controller
- 3. Unit Circuit Breaker Button
- 4. Unit On/Off Switch
- 5. Stainless Steel Nozzles
- 6. G4 Prefilters (Disposable)
- 7. Electrical Panel
- 8. H14 filters
- 9. Blower
- 10. Indicator Lights (for both grey and clean sides)
- 11. Emergency Stop Button (for both grey and clean sides)

Model EAS-EUS (B-Series) Door Direction (Factory Configured. Choose One When Ordering.)

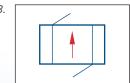


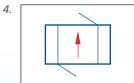


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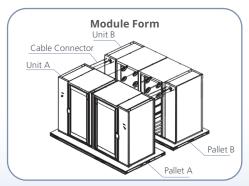
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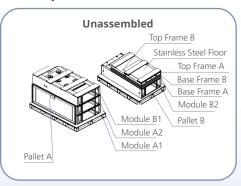




| | General Specifica | ations, Cleanro | om Air Shower, Model EAS-EUS (C-Se | ries) | | |
|--|-------------------------------------|-----------------|---|---|--|--|
| | Model | | EAS-2CEUS | EAS-3CEUS | | |
| External Dimensions (W x D x H) | | | 2430 x 2080 x 2205 mm (95.87" x 81.89" x 86.81") | 2430 x 3120 x 2205 mm (95.87" x 122.83" x 86.81") | | |
| Internal Work Area, Dimensions (W x D x H) | | | 1690 X 1960 X 2080 mm (66.54" x 77.17" x 81.89") | 1690 X 3000 X 2080 mm (66.54" x 118.11" x 81.89") | | |
| Clean Door Opening (WxH) | | | 1590 x 2030 mm (62.6" x 79.9") | | | |
| Air Change (18 – 30 m/s) | | | 113 - 188/ Hr | 112 - 186/ Hr | | |
| Initial Airflow Velocity | | | 18-30 m/s (3,54 | 3 - 5,906 fpm) | | |
| Number of Nozzles | | | 24 | 36 | | |
| Air Shower Duration | | | Factory set at 12 seconds | Factory set at 12 seconds (adjustable up to 3 mins) | | |
| Persons Per Cycle | | | 2-3 | 4-6 | | |
| | | | 6-9 | 10-21 | | |
| Personnel Flow (Persons / Minute) | | | Above figures based on: Total Cycle Time of 20 seconds (12 seconds of Air Shower + 4 seconds for buffer time + 5 second blower stopping time delay / personnel entrance and exit) | | | |
| Filtration Efficiency | | | Main Filter: ≥ 99.995% at 0.3 μm Pre-Filter: Efficiency 90% | | | |
| Filtration Elements | | | Main Filter: H14-HEPA filter Pre-Filter: Disposable and non-washable polyester fibers | | | |
| Air Shower Construction | | | 1.5mm/0.06"/18 electro-galvanized steel/White oven-baked epoxy powder-coated | | | |
| Maximum Power Consumption | During Operation | | 1000 W, 2.3 A, 1020 BTU/ Hr | 1500 W, 7 A, 3060 BTU/ Hr | | |
| Current | During Standby | | 162 W, 0.7 A, 330 BTU/ Hr | 250 W, 1.1 A, 510 BTU/ Hr | | |
| Electrical | 220-240V, AC, 60/50Hz, 1Ø | | EAS-2C8 -EUS | EAS-3C8 -EUS | | |
| Liectrical | 110-130V, AC, 60/50Hz, 1Ø | | EAS-2C9 -EUS | EAS-3C9 -EUS | | |
| Gross Weight | | | 909.9 kg (2006 lbs) | 1660.1 kg (3660 lbs) | | |
| | Assembled (W \times D \times H) | | N/A | N/A | | |
| | Module Form (W × D × H) | Pallet A | 2600 X 1200 X 2400 mm (102.4" x 47.2" x 94.5") | 2600 x 1200 x 2400 mm (102.4" x 47.2" x 94.5") | | |
| Shipping Dimensions, Maximum | | Pallet B | 2600 X 1200 X 2400 mm (102.4" x 47.2" x 94.5") | 2600 x 1200 x 2400 mm (102.4" x 47.2" x 94.5") | | |
| (W x D x H) | | Pallet C | N/A | 2600 x 1200 x 2400 mm (102.4" x 47.2" x 94.5") | | |
| | Unassembled (W × D × H) | Pallet A | 2700 x 1570 x 1190 mm (106.3" x 61.8" x 46.9") | 2700 x 1570 x 1530 mm (106.3" x 61.8" x 60.2") | | |
| | | Pallet B | N/A | 2500 x 1500 x 1090 mm (98.4" x 59.1" x 42.9") | | |
| | Assembled | | N/A | N/A | | |
| Shipping Volume, Maximum | Module Form | | Pallet A: 7.49 m³ (264.5 ft³) Pallet B: 7.49 m³ (264.5 ft³) | Pallet A: 7.49 m³ (264.5 ft³) Pallet B: 7.49 m³ (264.5 ft³) Pallet C: 7.49 m³ (264.5 ft³) | | |
| | Unassembled | | Pallet A: 8.01 m³ (282.9 ft³) Pallet B: 5.04 m³ (177.9 ft³) | Pallet A: 8.01 m³ (282.9 ft³) Pallet B: 6.49 m³ (229.2 ft³) | | |

Esco Cleanroom Air Showers, Modes of Shipment, Model EAS-EUS (C Series)

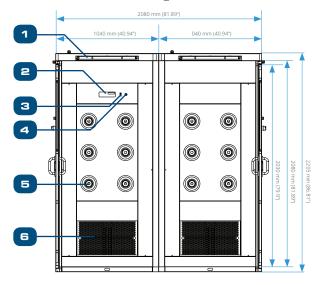


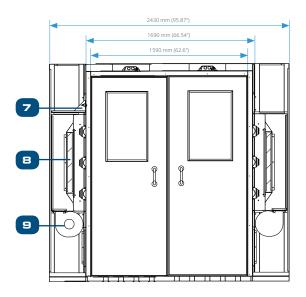




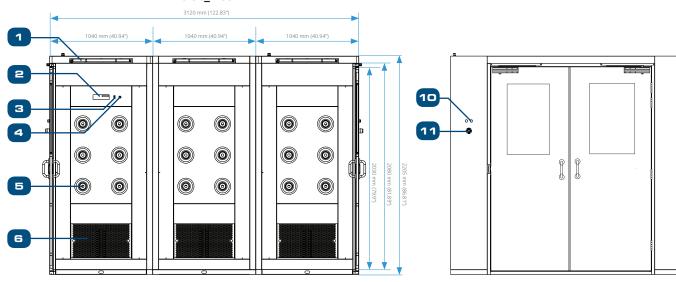
Model EAS-EUS (C-Series) Cleanroom Air Shower Technical Specifications

EAS-2C_-EUS





EAS-3C_-EUS



- 1. LED Housing
- 2. Esco Sentinel™ Microprocessor Controller
- 3. Unit Circuit Breaker Button
- 4. Unit On/Off Switch

- 5. Stainless Steel Nozzles
- 6. G4 Prefilters (Disposable)
- 7. Electrical Panel
- 8. H14 filters

- 9. Blowe
- 10. Indicator Lights (for both grey and clean sides)
- 11. Emergency Stop Button (for both grey and clean sides)

ESCO LIFESCIENCES GROUP NETWORK

42 Locations in 24 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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