# Ascent™

**Ductless Fume Hoods**

*The Safe, Energy Efficient
Solution for Modern Chemistry*

*Series*

Model: ADC-_B/C/E_

Model: ADC-_D_

Model: SPB-A_

Model: SPD-_A_

Model: SPD-_B_

Model: PW1-3A_

**ESCO**

WORLD CLASS. WORLDWIDE.

# Ascent™ Series Ductless Fume Hoods

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Ascent™

# Welcome to Esco

*Esco's Vision is to provide enabling technologies for scientific discoveries to make human lives healthier and safer.*

Esco Micro Pte Ltd
Cert. No: 651076

PT Esco Bintan Indonesia
Cert. No: 651333/E

PT Esco Bintan Indonesia
Cert. No: Q2N130383797001

Esco represents innovation and forward-thinking designs, which are all coupled with the highest standard quality since 1978. The Esco Group of Companies remains dedicated in delivering innovative solutions for the clinical, life sciences, research, industrial, laboratory, pharmaceutical and IVF community. With the most extensive product line in the industry, our products have passed a number of international standards and certifications. Esco operates under ISO 9001, ISO 14001 and ISO 13485.

**Availability and Accessibility.** Headquartered in Singapore, manufacturing facilities are located in Asia and Europe. R&D is conducted worldwide spanning the US, Europe and Asia. Sales, services and marketing subsidiaries are located in 12 major markets including the US, UK, Japan, China and India. Our regional distribution centers are located in China, UK, India, Malaysia, Philippines, Singapore, South Africa, South Korea and United States of America. Because of our worldwide presence, you can be sure that Esco is within your reach.

**High Quality, Reliable and Dependable.** Our customers are confident that only with the best quality, reliable, and dependable products, can they be sure of the accuracy of their research and procedures. Cross functional teams from Esco Production, R&D, Quality Assurance and Senior Management, are regularly assembled to review and implement areas for improvement.

**Esco Cares for Your Safety.** Esco focuses on providing safety not just for your samples but also for users.

**Esco Cares for Your Comfort.** Comfort of our users is ensured by building ergonomic designs and by reducing the noise levels of the units.

**Esco Cares for the Environment.** One in every four of Esco's employees is involved in Research and Development and a number of these evaluate new components and/or designs to produce energy efficient equipment. Being GREEN is more than just modifying the parts we use to produce a new energy efficient technology, it also embodies the every aspect of the company.

**Customer Service and Support.** Our service does not stop once purchase has been made. Esco gives on-time customer service and offers end-user seminars, service training, preventive maintenance, provides educational materials and informative videos.

As Esco takes the opportunity to respond to the world's needs, we aim not just to contribute in the advancement of scientific discoveries but also in making the world a safer, healthier and a better place to live in.

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**Esco Ductless**

This type of fume hood is suitable for applications involving transfer of che
with no forced or with minimal evaporation. This is usually preferred b

1 type of filter (Main Carbon Filter)

2 ty

Rocker Switch Controller

Sentinel™ Silver
Microprocessor Controller

SPB Model

Main

Seconda

AD

Optional VOC Sensor

Back Wall Optio

Back Wall Option

Acrylic Back Wall

Tempered Glass
Back Wall

EG Steel Back Wall

SPD-B Model

ADC-D Model

ADC-B Model

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## s Fume Hood

micals, titration, sample preparation, weighing, extraction and experiments
because of the hassle-free installation and of its plug and play feature.

ypes of filter (Main Carbon Filter and Secondary Filter)

Sentinel™ Silver
Microprocessor Controller

Carbon Filter
+
ary Carbon Filter

Main Carbon Filter
+
Secondary HEPA Filter

DC-C Model

ADC-E Model

Not sure on the quantity of filter?

Fill out our FiltraCheck™ Form
and let us do the work!

http://www.escoglobal.com/request-filtracheck.php

FiltraCheck™ is now available in iOS!
Get the real-time recommendation of
the appropriate fume hood models
and filters.

on

EG Steel Back Wall

SPD-A Model

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# Esco Ascent™ Opti Ductless Fume Hood

## Provides Operator and Environment Protection

**Sample Port**

**Centrifugal Fan**
- ■ *Permanently lubricated fans are energy efficient with external rotor motor design that reduces operating costs.*
- ■ *Extremely low noise and low vibration level*

**Arm Ports**
- ■ *allows easy access to work zone without risking exposure from chemical fumes*

**Work Top**
- ■ *Spill-retaining work top designed with a recessed central area contains accidental liquid spills*

**Industry Exclusive Baffle Design**
- ■ *Integrating our experience with conventional fume hoods, Esco engineers designed a unique baffle for Ascent™ Opti Ductless Fume Hoods to improve containment and ensure the efficient removal of chemical fumes from the work zone*

*Ascent™ Opti Ductless Fume Hood, Model SPD-4A_
Shown with optional MBC-4A0 (mobile cart)*

| Standards Compliance | Chemical Fume Containment | Filter Efficiency | Electrical Safety |
|---|---|---|---|
| | ANSI / ASHRAE 110-1995, USA BS 7258, UK EN14175.3, Europe | BS 7989 - 2001, UK AFNOR NF X 15-211, France | UL-C-61010A-1, USA CAN/CSA-22.2, No.61010-1 EN-61010-1, Europe IEC61010-1, Worldwide |

## Ascent™

Ductless Fume Hood • **Ascent™ Max Ductless Fume Hoods and Ascent™ Opti Ductless Fume Hoods**

AIR SAFE    16:20

Read all safety-related instructions before use
Test / certify this cabinet at least annually

Designed to Meet IEC 61010-1
Safety / Protection Standards
ISO 9001 Quality Certified
Manufacturing Environment

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## Sentinel™ Silver Microprocessor Control, Alarm System

- *Advanced microprocessor control supervises operation of all hood functions. Temperature-compensated air velocity sensor monitors airflow*
- *24-hour clock and blower run hour meter are standard*

## Nanocarb™ Activated Carbon Filters

- *Optimized retention capacity*
- *Diffusion Technology to ensure even filter loading*
- *Efficient perimeter clamping ensures no leakage as well as allows for easy filter change procedure*

## Sash Window

- *Double hinged sash mechanism allows higher sash opening for effortless cabinet loading*

## Mobile Cart

- *Provides easy relocation*
- *Has fold-able trays for storage*

*Esco Ascent Ductless fume hood is certified to ASHRAE 110-1995 for fume containment at 0.5 m/s*

| Ascent™ Opti Line-up | |
|---|---|
| Ascent™ Opti Basic (SPB-A) | Basic bench top unit that does not come with microprocessor control (only blower switch) , worktop, internal lighting and internal baffles |
| Ascent™ Opti (SPD-_A) | Standard ductless fume hood |
| Ascent™ Opti (SPD-_B) | Ductless fume hood with transparent back wall ideal for classrooms and educational demonstrations |
| Powdermax® | Ductless fume hood with HEPA filter for powder weighing applications |
| ForMax | Ductless fume hood specialized as a formalin dispensing unit |
| RotaMax | Ductless fume hood designed to accommodate rotary evaporators |
| TitraMax | Ductless fume hood constructed for titration applications |

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# Esco Ascent™ Max Ductless Fume Hood

## *Provides Operator and Environment Protection*

### Centrifugal Fan

- ◼ *Permanently lubricated fans are energy efficient with external rotor motor design that reduces operating costs.*
- ◼ *Extremely low noise and low vibration level*

### Robust Hood Construction

- ◼ *Key components including Fluorescent Lamps, Motor Capacitor, Electrical Harness, Electronic Ballast, and Switch Control are mounted outside the airstream and away from contaminated areas to permit easy service.*

### Nanocarb™ Activated Carbon Filters

- ◼ *Optimized retention capacity*
- ◼ *Diffusion technology to ensure even filter loading*
- ◼ *Efficient perimeter clamping ensures no leakage as well as allows easy filter change procedure.*

### Rear Walls

- ◼ *Electro galvanized steel wall for superior durability*

### Work Top

- ◼ *1.5 mm, 16 gauge, type 304 stainless steel 4B finish*
- ◼ *Easy to clean, corrosion and chemical resistant makes it an ideal worktop for experiments*

*Ascent™ Max Ductless Fume Hood, Model ADC-4B_.*
*Shown with SAL-4A0 Gen2 (support stand with leveling feet).*

| | Chemical Fume Containment | Filter Efficiency | Electrical Safety |
|---|---|---|---|
| **Standards Compliance** | ANSI / ASHRAE 110-1995, USA<br>BS 7258, UK<br>AFNOR NF X 15-203, France<br>EN14175.3, Europe | BS 7989 - 2001, UK<br>AFNOR NF X 15-211, France | UL-C-61010-1, USA<br>CAN/CSA-22.2, No.61010-1<br>EN-61010-1, Europe<br>IEC61010-1, Worldwide |

## Ascent™

Ductless Fume Hood • **Ascent™ Max Ductless Fume Hoods and Ascent™ Opti Ductless Fume Hoods**

## Sentinel™ Silver Microprocessor Control, Alarm System

- *Advanced microprocessor control supervises operation of all hood functions. Temperature-compensated air velocity sensor monitors airflow. 24-hour clock and blower run hour meter are standard.*
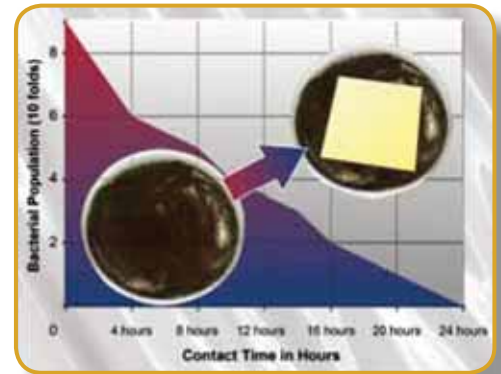


## Optional VOC Sensor

- *Detects presence of volatile organic compounds in the exhaust and alarms to indicate filter saturation*



## ISOCIDE™ Powder Coat

- *Silver-ion impregnated powder coat*
- *Inhibit microbial growth to improve safety*



## Sash Window

- *3° sloped front allows easy access to work zone - enhancing ergonomics, eliminating operator fatigue and increasing productivity*

## Auto Purge Slots

- *Improves containment and operator protection by preventing accumulation of fumes in the work zone*
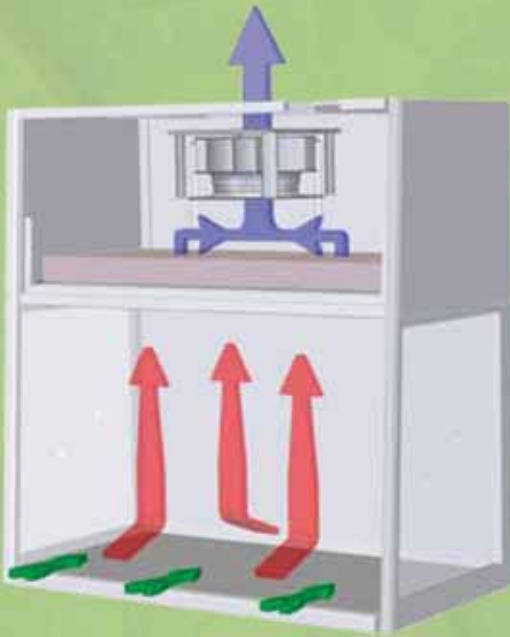


## Support Stand

- *Made from durable material to support a maximum weight of 500-600 Kg (1102 - 1322 lbs)*
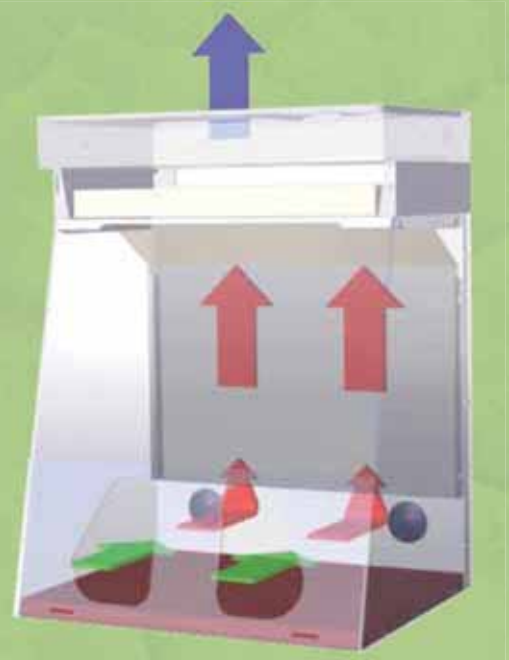- *Available in two standard heights (28" and 34")*



*Esco Ascent Ductless fume hood is certified to ASHRAE 110-1995 for fume containment at 0.4 m/s*

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■ Carbon-filtered air
■ Unfiltered / potentially contaminated air
■ Room air / Inflow air

■ Carbon-filtered air
■ Unfiltered / potentially contaminated air
■ Room air / Inflow air

## Cabinet Filtration System

■ The inflow moves from the ambient environment into the work zone through the hood front opening with an average velocity of 0.4 m/s.

■ Negative pressure is maintained within the main chamber of the hood to ensure that no chemical fumes or vapors escape the work zone.

■ Air is taken through a pre-filter and activated carbon mounted in the interior of the hood. The carbon filter removes all fumes from the exhaust air stream and filtered clean air is exhausted directly back to the room.

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## Esco Sentinel™ Silver Microprocessor Control System

*Menu button - access the menu screen to change settings, admin pin, perform calibration and choose set mode*

*Set/Mute button - choose the menu or sub-menu displayed on the LCD screen - enables/ disables Sash Alarm sound*

*Up and Down arrow buttons - selects the menu options -increase and decrease value inside menu options -moves the sash window upward and downward (for motorized sash only)*

*LCD Display -graphical interface indicates hood performance. Displays digital read-out with alpha-numeric display indicates all input, status and alarm function*

MENU   SET   ▲   ▼

AIR SAFE        16:20

Read all safety-related instructions before use
Test / certify this cabinet at least annually

Designed to Meet IEC 61010-1
Safety / Protection Standards
ISO 9001 Quality Certified
Manufacturing Environment

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*Fan button -turns the fan on and off*

*Lamp button -turns the lamp on and off*

*Socket button -turns the electrical socket on and off - The maximum rating of all the outlets in the cabinet is 5 A.*

*(UV button is not applicable with ductless fume hoods)*

# Ascent™

**Ductless Fume Hood • Ascent™ Max Ductless Fume Hoods and Ascent™ Opti Ductless Fume Hoods**

## Why Esco Ductless Fume Hoods?

✓ **The "GREEN" solution**
- Environmentally friendly
- Does not discharge toxic gases to the environment
- Saves energy, and reduces total carbon footprint

✓ **Safe carbon filtration**
- Compliance to international standards
- Proprietary Nanocarb™ activated carbon technology
- Industry-unique dual diffuser system on our Ascent™ Max fume hoods optimizes carbon filter life
- Optional VOC sensor system on our Ascent™ Max hoods detects filter saturation
- FiltraCheck™ service to qualify your application's suitability for a ductless solution
- Chemical Guide provides list of chemicals with specific suitability and safety data

✓ **Low cost**
- No ductwork required
- No exhaust system required
- Saves the need for elaborate make-up air systems, in turn saving running costs required to condition make-up air

✓ **Convenience**
- No installation hassle
- Mobile, flexible and easily relocatable

### Guide to Ascent™ Opti Models

S P D - 4 B 1

| 1st Placeholder<br>Model | Code | 2nd Placeholder<br>External Width | Code | 3rd Placeholder<br>Back Wall | Code | 4th Placeholder<br>Electrical | Code |
|---|---|---|---|---|---|---|---|
| Opti Basic | B | 0.6 m (2 ft)* | 2 | EG Steel | A | 220-240 VAC, 50 Hz | 1 |
| Ascent™ Opti | D | 0.9 m (3 ft) | 3 | Acrylic (transparent) | B | 110-220 VAC, 60 Hz | 2 |
| | | 1.2 m (4 ft) | 4 | | | 220-240 VAC, 60 Hz | 3 |

*2 ft only available for SPB Models

### Guide to Ascent™ Max Models

A D C - 4 B 1

| 1st Placeholder<br>External Width | Code | 2nd Placeholder<br>Model | Code | 3rd Placeholder<br>Electrical | Code |
|---|---|---|---|---|---|
| 0.6 m (2 ft)* | 2 | ADC-B (Standard Model) | B | 220-240 VAC, 50 Hz | 1 |
| 0.9 m (3 ft) | 3 | ADC-C (has Secondary Carbon Filter) | C | 110-220 VAC, 60 Hz | 2 |
| 1.2 m (4 ft) | 4 | ADC-D (Standard Model + Transparent Backwall) | D | 220-240 VAC, 60 Hz | 3 |
| 1.5 m (5 ft) | 5 | ADC-E (has Secondary HEPA Filter) | E | | |
| 1.8 m (6 ft) | 6 | | | | |

* 2 ft only available for ADC-B Models
ADC-_B_-M with motorized sash
ADC-_B/C/D/E_-PP –with swan neck faucet and PP sink provision

## Model SPB, Ascent™ Opti Basic Ductless Fume Hood Engineering Drawing (0.6 m / 2 ft width model)

Exhaust
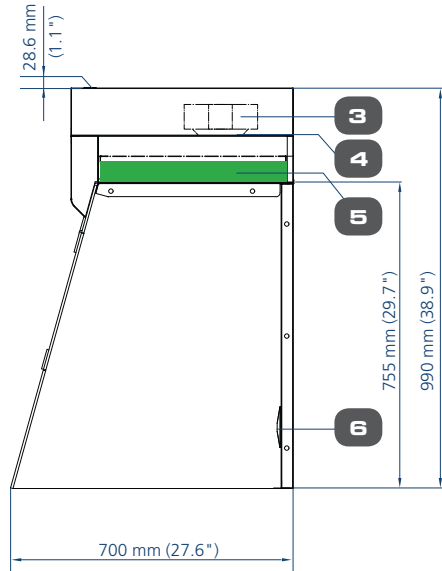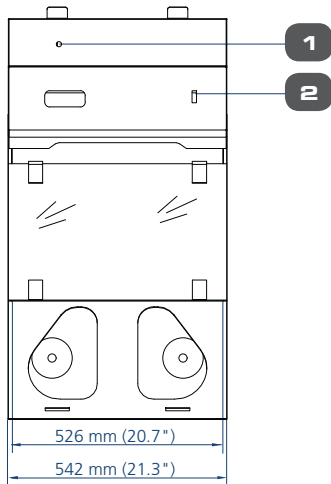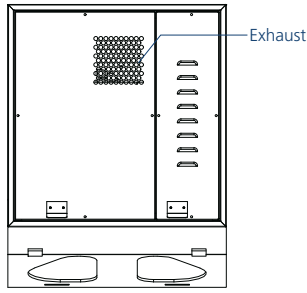
1. Sample Port
2. Blower Switch
3. Fan
4. Electrical Panel
5. Activated Carbon Filter
6. Pass-through ports for electrical or service connections

28.6 mm (1.1")

990 mm (38.9")

755 mm (29.7")

526 mm (20.7")

542 mm (21.3")

700 mm (27.6")

*Note: SPB is a basic benchtop unit that does not come with microprocessor controller, worktop, internal lighting and internal baffles.*

## Model SPD, Ascent™ Opti Ductless Fume Hood Engineering Drawing (0.9 to 1.2 m / 3 ft to 4 ft width models)

Exhaust
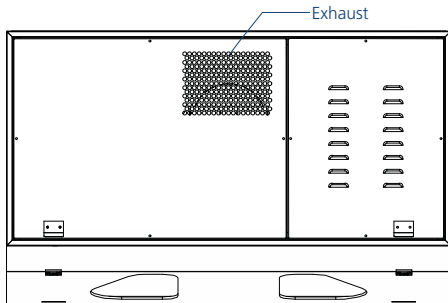
|        | A               | B               |
|--------|-----------------|-----------------|
| SPD-3__ | 840 mm (33.1")  | 820 mm (32.3")  |
| SPD-4__ | 1140 mm (44.9") | 1116 mm (43.9") |
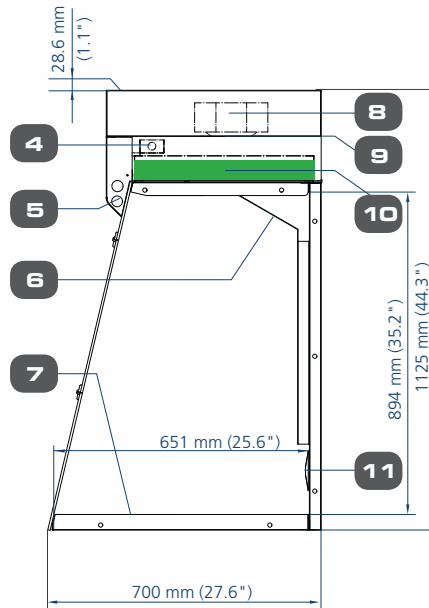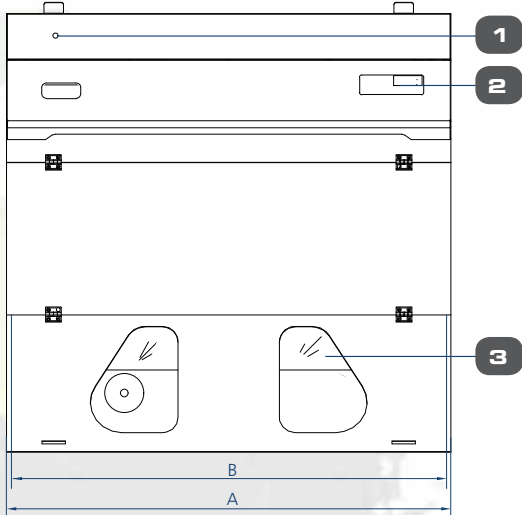
1. Sample Port
2. Esco Sentinel™ Silver Microprocessor Control System
3. Transparent Back Wall (SPD-_B_ models only)
4. Airflow Sensor
5. Fluorescent Lamp
6. Baffle
7. Stainless Steel Worktop
8. Fan
9. Electrical Panel
10. Activated Carbon Filter
11. Pass-through ports for electrical or service connections

28.6 mm (1.1")

1125 mm (44.3")

894 mm (35.2")

651 mm (25.6")

700 mm (27.6")

B

A

## Ascent™
Ductless Fume Hood • **Ascent™ Max Ductless Fume Hoods and Ascent™ Opti Ductless Fume Hoods**

## General Specifications, Ascent™ Opti Ductless Fume Hood

| | | SPB-2A1 2040093 | SPD-3A1 - 2040099 | SPD-4A1 - 2040105 |
|---|---|---|---|---|
| **Model** | 220-240 VAC, 50 Hz | SPB-2A1 2040093 | SPD-3B1 - 2040102 | SPD-4B1 - 2040108 |
| | 110-120 VAC, 60 Hz | SPB-2A2 2040094 | SPD-3A2 - 2040100 | SPD-4A2 - 2040106 |
| | | | SPD-3B2 - 2040103 | SPD-4B2 - 2040109 |
| | 220-240 VAC, 60 Hz | SPB-2A3 2040095 | SPD-3A3 - 2040101 | SPD-4A3 - 2040107 |
| | | | SPD-3B3 - 2040104 | SPD-4B3 - 2040110 |
| **Nominal Size** | | 0.6 meter (2') | 0.9 meter (3') | 1.2 meter (4') |
| **External Dimensions (W x D x H)** | | 542 x 700 x 990 mm (21.3" x 27.6" x 39.0") | 840 x 700 x 1125 mm (33.1" x 27.6" x 44.3") | 1140 x 700 x 1125 mm (44.9" x 27.6" x 44.3") |
| **Internal Work Area (W x D x H)** | | 526 x 663 x 755 mm (20.7" x 26.1" x 29.7") | 820 x 651 x 894 mm (32.3" x 25.6" x 35.2") | 1116 x 651 x 894 mm (43.9" x 25.6" x 35.2") |
| **Standard Filtration Elements** | Pre-filter | Disposable, non-washable polyester fibre, 85% arrestance, EU3 rated | | |
| | Main filter* | Activated carbon with granular media bed | | |
| **Total Weight of Carbon Filter** | | 9.1 Kg (20.1 lbs) | 15.4 Kg (34.0 lbs) | 2 x 9.1 Kg each (2 x 20.1 lbs) |
| **Control System** | | Rocker Switch | Esco Sentinel™ Silver Microprocessor Controller | |
| **Airflow alarm** | | | ✓ | ✓ |
| **Inflow Air Velocity** | | Initial Setpoint: 0.50 m/s or 100 fpm | | |
| **Sound Emission** | | <62 dBA | <58 dBA at initial blower speed setting measured at typical operator work position | |
| **Fluorescent Light Intensity** | | | >350 lux (>28 foot-candles) at work surface level | |
| **Hood Construction** | Main Body | 1.2 mm (0.05") 18 gauge electrogalvanized steel with white oven-baked epoxy-polyester Isocide™ antimicrobial powder coated finish | | |
| | Front Window | 6 mm (0.2") Acrylic | | |
| | Back Walls | 1.2 mm (0.05") 18 gauge electrogalvanized steel with white oven-baked epoxy-polyester Isocide™ antimicrobial powder coated finish | (SPD-_A_): 1.2 mm (0.05") 18 gauge electrogalvanized steel with white oven-baked epoxy-polyester Isocide™ antimicrobial powder coated finish | |
| | | | (SPD-_B_): 6 mm (0.2") Acrylic | |
| | Side Walls | 9.5 mm (0.37") Acrylic | | |
| | Work Top | | 1.5 mm (0.06") 16 gauge stainless steel type 304, with 4B finish | |
| **Sash** | Sloped Front | 13° | | |
| | Sash type | Hinged | | |
| **Electrical** | 220-240 VAC, 50 Hz, 1Φ | SPB-2A1 | SPD-3A1 / SPD-3B1 | SPD-4A1 / SPD-4B1 |
| | Cabinet Full Load Amps (FLA) | 0.5 A | 0.5 A | 0.6 A |
| | Cabinet Nominal Power | 35 W | 60 W | 88 W |
| | Cabinet BTU/Hr | 119 | 205 | 300 |
| | 110-120 VAC, 60 Hz, 1Φ | SPB-2A2 | SPD-3A2 / SPD-3B2 | SPD-4A2 / SPD-4B2 |
| | Cabinet Full Load Amps (FLA) | 0.5 A | 0.5 A | 0.6 A |
| | Cabinet Nominal Power | 40 W | 80 W | 93 W |
| | Cabinet BTU/Hr | 136 | 273 | 317 |
| | 220-240 VAC, 60 Hz, 1Φ | SPB-2A3 | SPD-3A3 / SPD-3B3 | SPD-4A3 / SPD-4B3 |
| | Cabinet Full Load Amps (FLA) | 0.5 A | 0.5 A | 0.6 A |
| | Cabinet Nominal Power | 40 W | 80 W | 93 W |
| | Cabinet BTU/Hr | 136 | 273 | 317 |
| **Net Weight**** | | 66 Kg (145 lbs) | 86 Kg (181 lbs) | 105 Kg (231 lbs) |
| **Shipping Weight**** | | 80 Kg (176 lbs) | 134 Kg (295 lbs) | 160 Kg (353 lbs) |
| **Shipping Dimensions, Maximum (W x D x H)**** | | 1120 x 820 x 590 mm (44.1" x 32.3" x 23.2") | 1050 X 1100 x 570 mm (41.3" x 43.3" x 22.4") | 1300 x 1100 x 590 mm (51.2" x 43.3" x 23.2") |
| **Shipping Volume, Maximum**** | | 1.08 m³ (38.1 cu.ft.) | 1.5 m³ (53.0 cu.ft.) | 1.9 m³ (67.1 cu.ft.) |

*Hood model order codes do not include filters. Order filters separately. When specified at time of order, filters will be factory installed.
**Hood only, excludes optional stand.

# Model ADC-_B_ & ADC-_D_(with Tempered Glass Back Wall), Ascent™ Max Ductless Fume Hood Engineering Drawing
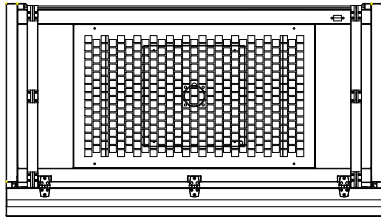
1. Esco Sentinel™ Silver Microprocessor Control System
2. Tempered Glass Sliding Sash Window
3. Tempered Glass Back Wall (for ADC-_D_ 3,4,5 and 6 units) / EG Steel ( for ADC-_B_ 2,3,4,5 and 6 units)
4. Electrical Outlet Retrofit Kit Provision
5. AutoPurge™ Slots
6. VOC sensor (optional)
7. Electrical Panel
8. Flourescent Lamp
9. Fan
10. Main Carbon filter
11. Prefilter (built inside the carbon filter)
12. Tempered Glass Sides
13. Service Fixture Retrofit Kit Provision (2 on each side)
14. Stainless Steel Worktop
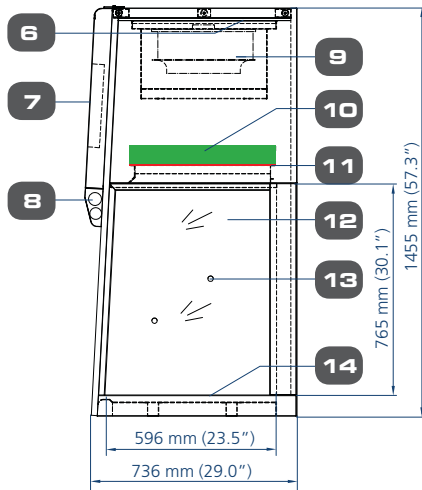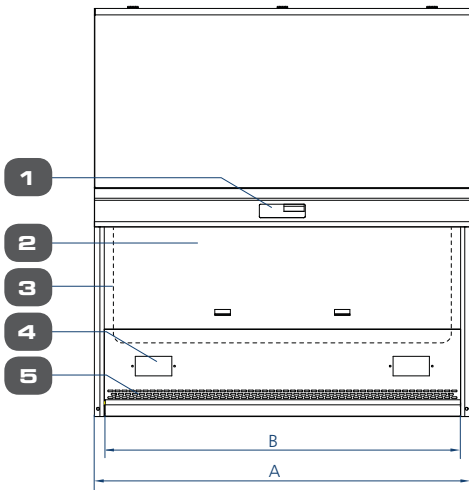
|  | A | B |
|---|---|---|
| ADC-2B_ | 730 mm (28.7") | 660 mm (25.9") |
| ADC-3B_ / ADC-3D_ | 1035 mm (40.7") | 965 mm (38.0") |
| ADC-4B_/ ADC-4D_ | 1340 mm (52.8") | 1270 mm (50.0") |
| ADC-5B_/ ADC-5D_ | 1645 mm (64.8") | 1575 mm (62.0") |
| ADC-6B_/ ADC-6D_ | 1950 mm (76.8") | 1880 mm (74.0") |

| Electrical | | | | | | |
|---|---|---|---|---|---|---|
| 220-240 VAC, 50 Hz, 1Φ | ADC-2B1 | ADC-3B1 | ADC-4B1 | ADC-5B1 | ADC-6B1 |
| | ADC-2B1-M | ADC-3B1-M | ADC-4B1-M | ADC-5B1-M | ADC-6B1-M |
| | ADC-2B1-PP | ADC-3B1-PP | ADC-4B1-PP | ADC-5B1-PP | ADC-6B1-PP |
| | | ADC-3D1 | ADC-4D1 | ADC-5D1 | ADC-6D1 |
| | | ADC-3D1-PP | ADC-4D1-PP | ADC-5D1-PP | ADC-6D1-PP |
| Cabinet Full Load Amps (FLA) | 1 A | 2 A | 2 A | 3 A | 3 A |
| Optional Outlets (FLA) | 5 A | | | | |
| Cabinet Nominal Power | 128 W | 236 W | 264 W | 300 W | 339 W |
| Cabinet BTU/Hr | 437 | 805 | 901 | 1024 | 1157 |
| 110-120 VAC, 60 Hz,1Φ | ADC-2B2 | ADC-3B2 | ADC-4B2 | ADC-5B2 | ADC-6B2 |
| | ADC-2B2-M | ADC-3B2-M | ADC-4B2-M | ADC-5B2-M | ADC-6B2-M |
| | ADC-2B2-PP | ADC-3B2-PP | ADC-4B2-PP | ADC-5B2-PP | ADC-6B2-PP |
| | | ADC-3D2 | ADC-4D2 | ADC-5D2 | ADC-6D2 |
| | | ADC-3D2-PP | ADC-4D2-PP | ADC-5D2-PP | ADC-6D2-PP |
| Cabinet Full Load Amps (FLA) | 3.5 A | 3.5 A | 3.5 A | 4 A | 4 A |
| Optional Outlets (FLA) | 5 A | | | | |
| Cabinet Nominal Power | 136 W | 238 W | 275 W | 315 W | 345 W |
| Cabinet BTU/Hr | 464 | 812 | 938 | 1075 | 1177 |
| 220-240 VAC, 60 Hz, 1Φ | ADC-2B3 | ADC-3B3 | ADC-4B3 | ADC-5B3 | ADC-6B3 |
| | ADC-2B3-M | ADC-3B3-M | ADC-4B3-M | ADC-5B3-M | ADC-6B3-M |
| | ADC-2B3-PP | ADC-3B3-PP | ADC-4B3-PP | ADC-5B3-PP | ADC-6B3-PP |
| | | ADC-3D3 | ADC-4D3 | ADC-5D3 | ADC-6D3 |
| | | ADC-3D3-PP | ADC-4D3-PP | ADC-5D3-PP | ADC-6D3-PP |
| Cabinet Full Load Amps (FLA) | 1 A | 2 A | 2 A | 3 A | 3 A |
| Optional Outlets (FLA) | 5 A | | | | |
| Cabinet Nominal Power | 172 W | 257 W | 357 W | 360 W | 460 W |
| Cabinet BTU/Hr | 587 | 877 | 1218 | 1228 | 1570 |

Dimensions: 1455 mm (57.3"), 765 mm (30.1"), 596 mm (23.5"), 736 mm (29.0")

## General Specifications, Ascent™ Max (B and D series) Ductless Fume Hood

| Model | | ADC-2B1 - 2040018 | ADC-3B1 - 2040024 | ADC-4B1 - 2040042 | ADC-5B1 - 2040060 | ADC-6B1 - 2040078 |
|---|---|---|---|---|---|---|
| | 220-240 VAC, 50 Hz | | ADC-3B1-M - 2040026 | ADC-4B1-M - 2040045 | ADC-5B1-M - 2040062 | ADC-6B1-M - 2040082 |
| | | ADC-2B1-PP - 2040198 | ADC-3B1-PP - 2040161 | ADC-4B1-PP - 2040128 | ADC-5B1-PP - 2040134 | ADC-6B1-PP - 2040140 |
| | | | ADC-3D1 - 2040036 | ADC-4D1 - 2040054 | ADC-5D1 - 2040072 | ADC-6D1 - 2040090 |
| | | | ADC-3D1-PP - 2040167 | ADC-4D1-PP - 2040146 | ADC-5D1-PP - 2040149 | ADC-6D1-PP - 2040152 |
| | 110-120 VAC, 60 Hz | ADC-2B2 - 2040020 | ADC-3B2 - 2040027 | ADC-4B2 - 2040046 | ADC-5B2 - 2040063 | ADC-6B2 - 2040079 |
| | | | ADC-3B2-M - 2040029 | ADC-4B2-M - 2040048 | ADC-5B2-M - 2040065 | ADC-6B2-M - 2040084 |
| | | ADC-2B2-PP - 2040198 | ADC-3B2-PP - 2040162 | ADC-4B2-PP - 2040129 | ADC-5B2-PP - 2040135 | ADC-6B2-PP - 2040141 |
| | | | ADC-3D2 - 2040037 | ADC-4D2 - 2040055 | ADC-5D2 - 2040073 | ADC-6D2 - 2040091 |
| | | | ADC-3D2-PP - 2040168 | ADC-4D2-PP - 2040147 | ADC-5D2-PP - 2040150 | ADC-6D2-PP - 2040153 |
| | 220-240 VAC, 60 Hz | ADC-2B3 - 2040022 | ADC-3B3 - 2040030 | ADC-4B3 - 2040049 | ADC-5B3 - 2040066 | ADC-6B3 - 2040080 |
| | | | ADC-3B3-M - 2040032 | ADC-4B3-M - 2040050 | ADC-5B3-M - 2040068 | ADC-6B3-M - 2040086 |
| | | ADC-2B3-PP - 2040212 | ADC-3B3-PP - 2040163 | ADC-4B3-PP - 2040130 | ADC-5B3-PP - 2040136 | ADC-6B3-PP - 2040142 |
| | | | ADC-3D3 - 2040038 | ADC-4D3 - 2040056 | ADC-5D3 - 2040074 | ADC-6D3 - 2040092 |
| | | | ADC-3D3-PP - 2040169 | ADC-4D3-PP - 2040148 | ADC-5D3-PP - 2040151 | ADC-6D3-PP - 2040154 |
| Nominal Size | | 0.6 meter (2') | 0.9 meter (3') | 1.2 meter (4') | 1.5 meter (5') | 1.8 meter (6') |
| External Dimensions (W x D x H) | | 730 x 736 x 1460 mm (28.7" x 29.0" x 57.5") | 1035 x 736 x 1455 mm (40.7" x 29.0" x 57.3") | 1340 x 736 x 1455 mm (52.8" x 29.0" x 57.3") | 1645 x 736 x 1455 mm (64.8" x 29.0" x 57.3") | 1950 x 736 x 1455 mm (76.8" x 29.0" x 57.3") |
| Internal Work Area (W x D x H) | | 660 x 596 x 765 mm (26.0" x 23.5" x 30.1") | 965 x 596 x 765 mm (38.0" x 23.5" x 30.1") | 1268 x 596 x 765 mm (50.0" x 23.5" x 30.1") | 1575 x 596 x 765 mm (62.0" x 23.5" x 30.1") | 1880 x 596 x 765 mm (74.0" x 23.5" x 30.1") |
| Standard Filtration Elements | Pre-filter | Disposable, non-washable polyester fibre, 85% arrestance, EU3 rated | | | | |
| | Main filter* | Activated carbon with granular media bed (8 different filter types available, codes A to H) | | | | |
| Total Weight of Carbon Filter | | 8.5 Kg (18.7 lbs.) | 2 x 10.3 Kg each (2 x 22.7 lbs each) | 2 x 13.9 Kg each (2 x 30.6 lbs each) | 2 x 17.4 Kg each (2 x 38.4 lbs each) | 3 x 13.9 Kg each (3 x 30.6 lbs each) |
| Control System | | Esco Sentinel™ Silver Microprocessor Controller | | | | |
| VOC Sensor | | Optional | | | | |
| Airflow alarm | | ✓ | | | | |
| AutoPurge Slots | | ✓ | | | | |
| Inflow Air Velocity | | Initial set point: 0.40 m/s (80 fpm) | | | | |
| Sound Emission | | 55 dBA | | 57 dBA | 58 dBA | |
| Fluorescent Light Intensity | | >1000 lux (>93 foot-candles) | | | | |
| Hood Construction | Main Body | 1.2 mm (0.05") 18 gauge electro-galvanized steel with white oven-baked epoxy-polyester Isocide™ antimicrobial powder coated finish | | | | |
| | Back Walls | 1.2 mm (0.05") 18 gauge electrogalvanized steel with white oven-baked epoxy-polyester Isocide™ antimicrobial powder coated finish - (B-Series) | | | | |
| | | Tempered glass - (D-Series) | | | | |
| | Side Walls | Tempered Glass | | | | |
| | Work Top | 1.5 mm (0.06") 16 gauge stainless steel, type 304, with 4B finish | | | | |
| Sash | Sloped Front | 3° | | | | |
| | Sash Type | Vertical Sliding for models ADC-_B/D_ and ADC-_B/D_-PP / Motorized Sash for models ADC-_B_-M | | | | |
| Net Weight** | | 130 Kg (286 lbs) | 175 Kg (386 lbs) | 225 Kg (496 lbs) | 245 Kg (540 lbs) | 293 Kg (646 lbs) |
| Shipping Weight** | | 164 Kg (362 lbs) | 205 Kg (452 lbs) | 261 Kg (575 lbs) | 320 Kg (705 lbs) | 380 Kg (838 lbs) |
| Shipping Dimensions, Maximum (W x D x H)** | | 800 x 820 x 1750 mm (31.5" x 32.3" x 68.9") | 1130 x 840 x 1750 mm (44.5" x 33.0" x 68.9") | 1410 x 840 x 1750 mm (55.5" x 33.0" x 68.9") | 1730 x 840 x 1750 mm (68.1" x 33.0" x 68.9") | 2050 x 840 x 1750 mm (80.7" x 33.0" x 68.9") |
| Shipping Volume, Maximum** | | 1.14 m³ (40.3 cu.ft) | 1.66 m³ (58.6 cu.ft) | 2.07 m³ (73.1 cu.ft) | 2.51 m³ (88.6 cu.ft) | 3.01 m³ (106.3 cu.ft) |

*Hood model order codes do not include filters. Order filters separately. When specified at time of order, filters will be factory installed.
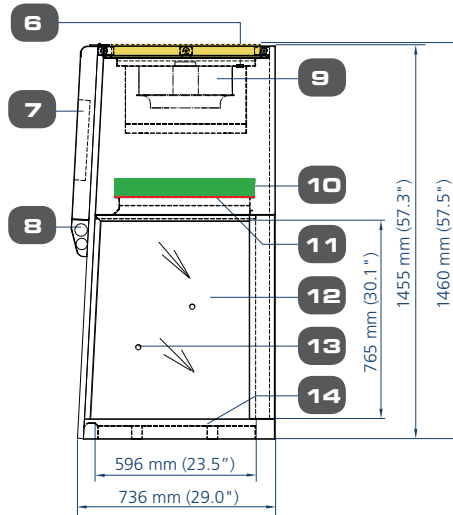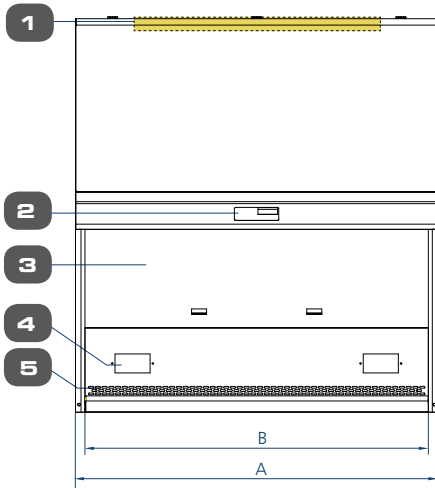**Hood only, excludes optional stand.

## Model ADC-_C_, Ascent™ Max Ductless Fume Hood Engineering Drawing (with Secondary Backup Carbon Filter)
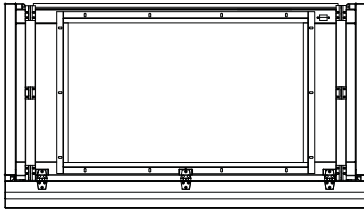
|  | A | B |
|---|---|---|
| ADC-3C_ | 1035 mm (40.7") | 965 mm (38.0") |
| ADC-4C_ | 1340 mm (52.8") | 1270 mm (50.0") |
| ADC-5C_ | 1645 mm (64.8") | 1575 mm (62.0") |
| ADC-6C_ | 1950 mm (76.8") | 1880 mm (74.0") |

1. Back up Carbon Filter
2. Esco Sentinel™ Silver Microprocessor Control System
3. Tempered Glass Sliding Sash Window
4. Electrical Outlet
5. AutoPurge™ Slots
6. VOC sensor (optional)
7. Electrical Panel
8. Flourescent Lamps
9. Fan
10. Main Carbon Filter
11. Pre-filter (built inside the carbon filter)
12. Tempered Glass Sides
13. Service Fixture Retrofit Kit Provision (2 on each side)
14. Stainless Steel Worktop

## Model ADC-_E_, Ascent™ Max Ductless Fume Hood Engineering Drawing (with Secondary Backup HEPA Filter)
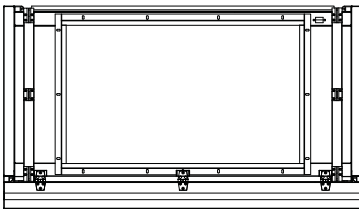
|  | A | B |
|---|---|---|
| ADC-3E_ | 1035 mm (40.7") | 965 mm (38.0") |
| ADC-4E_ | 1340 mm (52.8") | 1270 mm (50.0") |
| ADC-5E_ | 1645 mm (64.8") | 1575 mm (62.0") |

1. Back up HEPA Filter
2. Esco Sentinel™ Silver Microprocessor Control System
3. Tempered Glass Sliding Sash Window
4. Electrical Outlet
5. AutoPurge™ Slots
6. VOC Sensor (optional)
7. Electrical Panel
8. Flourescent Lamp
9. Fan
10. Main Carbon Filter
11. Pre-filter (built inside the carbon filter)
12. Tempered Glass Side
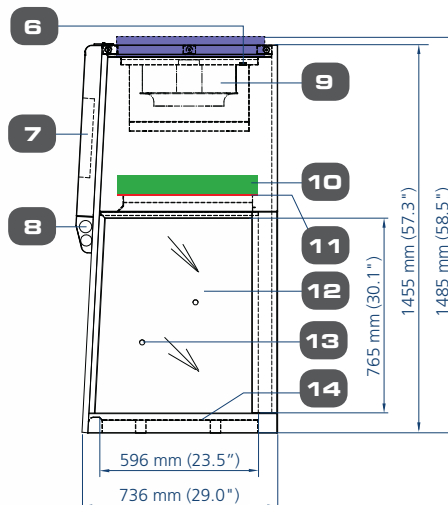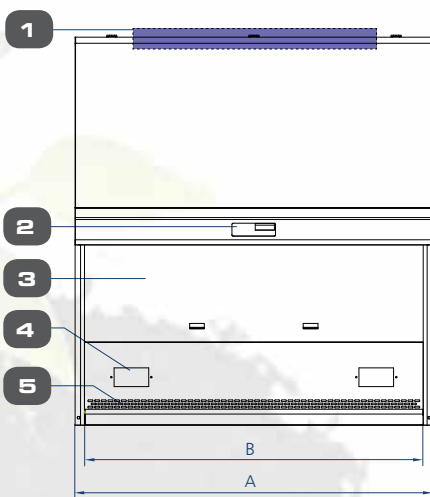13. Service Fixture Retrofit Kit Provision (2 on each side)
14. Stainless Steel Worktop

## Ascent™

Ductless Fume Hood • **Ascent™ Max Ductless Fume Hoods and Ascent™ Opti Ductless Fume Hoods**

## General Specifications, Ascent™ Max (C series) Ductless Fume Hood

| | | ADC-3C1 - 2040033 | ADC-4C1 - 2040051 | ADC-5C1 - 2040069 | ADC-6C1 - 2040087 |
|---|---|---|---|---|---|
| **Model** | 220-240 VAC, 50 Hz | ADC-3C1-PP - 2040164 | ADC-4C1-PP - 2040131 | ADC-5C1-PP - 2040137 | ADC-6C1-PP - 2040143 |
| | 110-120 VAC, 60 Hz | ADC-3C2 - 2040034 | ADC-4C2 - 2040052 | ADC-5C2 - 2040070 | ADC-6C2 - 2040088 |
| | | ADC-3C2-PP - 2040165 | ADC-4C2-PP - 2040032 | ADC-5C2-PP - 2040138 | ADC-6C2-PP - 2040144 |
| | 220-240 VAC, 60 Hz | ADC-3C3 - 2040035 | ADC-4C3 - 2040053 | ADC-5C3 - 2040071 | ADC-6C3 - 2040089 |
| | | ADC-3C3-PP - 2040166 | ADC-4C3-PP - 2040133 | ADC-5C3-PP - 2040139 | ADC-6C3-PP - 2040145 |
| **Nominal Size** | | 0.9 meter (3') | 1.2 meter (4') | 1.5 meter (4') | 1.8 meter (6') |
| **External Dimensions (W x D x H)** | | 1035 x 736 x 1455 mm (40.7" x 29.0" x 57.3") | 1340 x 736 x 1455 mm (52.8" x 29.0" x 57.3") | 1645 x 736 x 1455 mm (64.8" x 29.0" x 57.3") | 1950 x 736 x 1455 mm (76.8" x 29.0" x 57.3") |
| **Internal Work Area (W x D x H)** | | 965 x 596 x 765 mm (38.0" x 23.5" x 30.1") | 1268 x 596 x 765 mm (50.0" x 23.5" x 30.1") | 1575 x 596 x 765 mm (62.0" x 23.5" x 30.1") | 1880 x 596 x 765 mm (74.0" x 23.5" x 30.1") |
| **Standard Filtration Elements** | Pre-filter | Disposable, non-washable polyester fibre, 85% arrestance, EU3 rated | | | |
| | Main filter* | Activated Carbon with Granular Media bed (8 different filter types available , codes A-H) | | | |
| | Back-up Filter | Activated Carbon with Granular Media bed (8 different filter types available , codes A-H) | | | |
| **Total Weight of Carbon Filter** | | 2 x 10.3 Kg each (2 x 22.7 lbs each) | 2 x 13.9 Kg each (2 x 30.6 lbs each) | 2 x 17.4 Kg each (2 x 38.3 lbs each) | 3 x 13.9 Kg each (3 x 30.6 lbs each) |
| **Control System** | | Esco Sentinel™ Silver Microprocessor Controller | | | |
| **VOC Sensor** | | Optional | | | |
| **Airflow alarm** | | ✓ | | | |
| **Auto-Purge Slots** | | ✓ | | | |
| **Inflow Air Velocity** | | Initial set point: 0.40 m/s (80 fpm) | | | |
| **Sound Emission** | | 60 dBA | | 61 dBA | 62 dBA |
| **Fluorescent Light Intensity** | | >1141 lux (>106 foot-candles) | >1397 lux (>130 foot-candles) | >1141 lux (>106 foot-candles) | >1060 lux (>99 Ft.-candles) |
| **Hood Construction** | Main Body | 1.2 mm (0.05") 18 gauge electro-galvanized steel with white oven-baked epoxy-polyester Isocide™ antimicrobial powder coated finish | | | |
| | Side Walls | Tempered Glass | | | |
| | Work Top | 1.5 mm (0.06") 16 gauge stainless steel, type 304, with 4B finish | | | |
| **Sash** | Sloped Front | 3° | | | |
| | Sash Type | Vertical Sliding or Optional Motorized Sash | | | |
| **Electrical** | 220-240 VAC, 50 Hz, 1Φ | ADC-3C1 / ADC-3C1-PP | ADC-4C1 / ADC-4C1-PP | ADC-5C1 / ADC-5C1-PP | ADC-6C1 / ADC-6C1-PP |
| | Cabinet Full Load Amps (FLA) | 2 A | 2 A | 3 A | 3 A |
| | Optional Outlets (FLA) | 5 A | | | |
| | Cabinet Nominal Power | 250 W | 290 W | 242 W | 350 W |
| | Cabinet BTU/Hr | 853 | 990 | 826 | 1194 |
| | 110-120 VAC, 60 Hz,1Φ | ADC-3C2 / ADC-3C2-PP | ADC-4C2 / ADC-4C2-PP | ADC-5C2 / ADC-5C2-PP | ADC-6C2 / ADC-6C2-PP |
| | Cabinet Full Load Amps (FLA) | 3.5 A | 3.5 A | 4 A | 4 A |
| | Optional Outlets (FLA) | 5 A | | | |
| | Cabinet Nominal Power | 282 W | 314 W | 349 W | 360 W |
| | Cabinet BTU/Hr | 962 | 1071 | 1191 | 1228 |
| | 220-240 VAC, 60 Hz, 1Φ | ADC-3C3 / ADC-3C3-PP | ADC-4C3 / ADC-4C3-PP | ADC-5C3 / ADC-5C3-PP | ADC-6C3 / ADC-6C3-PP |
| | Cabinet Full Load Amps (FLA) | 2 A | 2 A | 3 A | 3 A |
| | Optional Outlets (FLA) | 5 A | | | |
| | Cabinet Nominal Power | 270 W | 355 W | 430 W | 473 W |
| | Cabinet BTU/Hr | 921 | 1211 | 1467 | 1614 |
| **Net Weight**** | | 175 Kg (386 lbs) | 225 Kg (496 lbs) | 245 Kg (540 lbs) | 293 Kg (646 lbs) |
| **Shipping Weight**** | | 253 Kg (558 lbs) | 336 Kg (741 lbs) | 336 Kg (741 lbs) | 398 Kg (877 lbs) |
| **Shipping Dimensions, Maximum (W x D x H)**** | | 1130 x 840 x 1750 mm (44.5" x 33.1" x 68.9") | 1450 x 840 x 1750 mm (57.1" x 33.1" x 68.9") | 1750 x 840 x 1750 mm (68.9" x 33.1" x 68.9") | 2020 x 840 x 1750 mm (79.5" x 33.1" x 68.9") |
| **Shipping Volume, Maximum**** | | 1.66 m³ (58.6 cu.ft) | 2.13 m³ (75.2 cu.ft) | 2.57 m³ (90.8 cu.ft) | 2.96 m³ (104.5 cu.ft) |

* Hood model order codes do not include filters. Order filters separately. When specified at time of order, filters will be factory installed.
** Hood only, excludes optional stand.

**ESCO**
WORLD CLASS. WORLDWIDE.

## General Specifications, Ascent™ Max (E series) Ductless Fume Hood

| | | ADC-3E1 - 2040039 | ADC-4E1 - 2040057 | ADC-5E1 - 2040075 |
|---|---|---|---|---|
| **Model** | 220-240 VAC, 50 Hz | ADC-3E1-PP - 2040170 | ADC-4E1-PP - 2040155 | ADC-5E1-PP - 2040158 |
| | 110-120 VAC, 60 Hz | ADC-3E2 - 2040040 | ADC-4E2 - 2040058 | ADC-5E2 - 2040076 |
| | | ADC-3E2-PP - 2040171 | ADC-4E2-PP - 2040156 | ADC-5E2-PP - 2040159 |
| | 220-240 VAC, 60 Hz | ADC-3E3 - 2040041 | ADC-4E3 - 2040059 | ADC-5E3 - 2040077 |
| | | ADC-3E3-PP - 2040172 | ADC-4E3-PP - 2040175 | ADC-5E3-PP - 2040160 |
| **Nominal Size** | | 0.9 meter (3') | 1.2 meter (4') | 1.5 meter (5') |
| **External Dimensions (W x D x H)** | | 1035 x 736 x 1455 mm (40.7" x 29.0" x 57.3") | 1340 x 736 x 1455 mm (52.8" x 29.0" x 57.3") | 1645 x 736 x 1455 mm (64.8" x 29.0" x 57.3") |
| **Internal Work Area (W x D x H)** | | 965 x 596 x 765 mm (38.0" x 23.5" x 30.1") | 1268 x 596 x 765 mm (50.0" x 23.5" x 30.1") | 1575 x 596 x 765 mm (62.0" x 23.5" x 30.1") |
| **Standard Filtration Elements** | Pre-filter | Disposable, non-washable polyester fibre, 85% arrestance, EU3 rated | | |
| | Main filter* | Activated Carbon with Granular Media bed (8 different filter types available , codes A-H) | | |
| | Back-up Filter | HEPA filter, typical efficiency of >99.99% at 0.3 microns, removes particles and aerosols | | |
| **Total Weight of Carbon Filter** | | 2 x 10.3 Kg each (2 x 22.7 lbs each) | 2 x 13.9 Kg each (2 x 30.6 lbs each) | 2 x 17.4 Kg each (2 x 38.3 lbs each) |
| **Control System** | | Esco Sentinel™ Silver Microprocessor Controller | | |
| **VOC Sensor** | | Optional | | |
| **Airflow alarm** | | ✓ | | |
| **Auto-Purge Slots** | | ✓ | | |
| **Inflow Air Velocity** | | Initial set point: 0.40 m/s or 80 fpm | | |
| **Sound Emission** | | 61 dBA | | 62 dBA |
| **Fluorescent Light Intensity** | | >1115 lux (>104 foot-candles) | >1107 lux (>103 foot-candles) | >1082 lux (>101 foot-candles) |
| **Hood Construction** | Main Body | 1.2 mm (0.05") 18 gauge electro-galvanized steel with white oven-baked epoxy-polyester Isocide™ antimicrobial powder coated finish | | |
| | Side Walls | Tempered Glass | | |
| | Work Top | 1.5 mm (0.06") 16 gauge stainless steel, type 304, with 4B finish | | |
| **Sash** | Sloped Front | 3° | | |
| | Sash Type | Vertical Sliding or Optional Motorized Sash | | |
| **Electrical** | 220-240 VAC, 50 Hz, 1Φ | ADC-3E1 / ADC-3E1-PP | ADC-4E1 / ADC-4E1-PP | ADC-5E1 / ADC-5E1-PP |
| | Cabinet Full Load Amps (FLA) | 2 A | 2 A | 3 A |
| | Optional Outlets (FLA) | 5 A | | |
| | Cabinet Nominal Power | 250 W | 290 W | 242 W |
| | Cabinet BTU/Hr | 853 | 990 | 826 |
| | 110-120 VAC, 60 Hz,1Φ | ADC-3E2 / ADC-3E2-PP | ADC-4E2 / ADC-4E2-PP | ADC-5E2 / ADC-5E2-PP |
| | Cabinet Full Load Amps (FLA) | 3.5 A | 3.5 A | 4 A |
| | Optional Outlets (FLA) | 5 A | | |
| | Cabinet Nominal Power | 282 W | 314 W | 349 W |
| | Cabinet BTU/Hr | 962 | 1071 | 1191 |
| | 220-240 VAC, 60 Hz, 1Φ | ADC-3E3 / ADC-3E3-PP | ADC-4E3 / ADC-4E3-PP | ADC-5E3 / ADC-5E3-PP |
| | Cabinet Full Load Amps (FLA) | 2 A | 2 A | 3 A |
| | Optional Outlets (FLA) | 5 A | | |
| | Cabinet Nominal Power | 270 W | 355 W | 430 W |
| | Cabinet BTU/Hr | 921 | 1211 | 1467 |
| **Net Weight**** | | 175 Kg (386 lbs) | 225 Kg (496 lbs) | 245 Kg (540 lbs) |
| **Shipping Weight**** | | 216 Kg (476 lbs) | 274 Kg (604 lbs) | 335 Kg (739 lbs) |
| **Shipping Dimensions, Maximum (W x D x H)**** | | 1130 x 840 x 1750 mm (44.5" x 33.1" x 68.9") | 1450 x 840 x 1750 mm (57.1" x 33.1" x 68.9") | 1750 x 840 x 1750 mm (68.9" x 33.1" x 68.9") |
| **Shipping Volume, Maximum**** | | 1.66 m³ (58.6 cu.ft) | 2.13 m³ (75.2 cu.ft) | 2.57 m³ (90.8 cu.ft) |

*Hood model order codes do not include filters. Order filters separately. When specified at time of order, filters will be factory installed.
**Hood only, excludes optional stand.

# Ascent™

## Accessories and Options for Ductless Fume hood

| Item Code | Model | Description |
|---|---|---|
| **Support Stands for Ascent™ Max** | | |
| 5130161 | SPC-2A0 Gen2 | Support Stand for 2 ft. fume hood with Caster Wheels, (Height 28") |
| 5130155 | SPC-3A0 Gen2 | Support Stand for 3 ft. fume hood with Caster Wheels, (Height 28") |
| 5130152 | SPC-4A0 Gen2 | Support Stand for 4 ft. fume hood with Caster Wheels, (Height 28") |
| 5130162 | SPC-5A0 Gen2 | Support Stand for 5 ft. fume hood with Caster Wheels, (Height 28") |
| 5130163 | SPC-6A0 Gen2 | Support Stand for 6 ft. fume hood with Caster Wheels, (Height 28") |
| 5130164 | SPC-2B0 Gen2 | Support Stand for 2 ft. fume hood with Caster Wheels (Height 34") |
| 5130165 | SPC-3B0 Gen2 | Support Stand for 3 ft. fume hood with Caster Wheels, (Height 34") |
| 5130166 | SPC-4B0 Gen2 | Support Stand for 4 ft. fume hood with Caster Wheels, (Height 34") |
| 5130167 | SPC-5B0 Gen2 | Support Stand for 5 ft. fume hood with Caster Wheels, (Height 34") |
| 5130168 | SPC-6B0 Gen2 | Support Stand for 6 ft. fume hood with Caster Wheels, (Height 34") |
| 5130169 | SAL-2A0 Gen2 | Support Stand for 2 ft. fume hood with Leveling Feet (Height 28") |
| 5130170 | SAL-3A0 Gen2 | Support Stand for 3 ft. fume hood with Leveling Feet (Height 28") |
| 5130189 | SAL-4A0 Gen2 | Support Stand for 4 ft. fume hood with Leveling Feet (Height 28") |
| 5130171 | SAL-5A0 Gen2 | Support Stand for 5 ft. fume hood with Leveling Feet (Height 28") |
| 5130172 | SAL-6A0 Gen2 | Support Stand for 6 ft. fume hood with Leveling Feet (Height 28") |
| 5130173 | SAL-2B0 Gen2 | Support Stand for 2 ft. fume hood with Leveling Feet (Height 34") |
| 5130174 | SAL-3B0 Gen2 | Support Stand for 3 ft. fume hood with Leveling Feet (Height 34") |
| 5130175 | SAL-4B0 Gen2 | Support Stand for 4 ft. fume hood with Leveling Feet (Height 34") |
| 5130176 | SAL-5B0 Gen2 | Support Stand for 5 ft. fume hood with Leveling Feet (Height 34") |
| 5130177 | SAL-6B0 Gen2 | Support Stand for 6 ft. fume hood with Leveling Feet (Height 34") |
| **Mobile Cart for Ascent™ Opti** | | |
| 2040125 | MBC-3A0 | Mobile Cart for SPD-3A/B, PW1-3A |
| 2040126 | MBC-4A0 | Mobile Cart for SPD-4A/B |
| **Exhaust Collar** | | |
| 5170154 | ECO-SPD3A | Exhaust Collar for SPD-3A |
| 5170155 | ECO-SPD4A | Exhaust Collar for SPD-4A |
| 5170141 | ECO-ADC3B | Exhaust Collar for ADC-3B/D; 10" (254 mm) diameter exhaust collar |
| 5170143 | ECO-ADC4B | Exhaust Collar for ADC-4B/D/E; 10" (254 mm) diameter exhaust collar |
| 5170145 | ECO-ADC5B | Exhaust Collar for ADC-5B/D; 10" (254 mm) diameter exhaust collar |
| 5170147 | ECO-ADC6B | Exhaust Collar for ADC-6B/D; 10" (254 mm) diameter exhaust collar |
| 5170442 | ECO-ADC3C | Exhaust Collar for ADC-3C; 10" (254 mm) diameter exhaust collar |
| 5170539 | ECO-ADC5C | Exhaust Collar for ADC-5C; 10" (254 mm) diameter exhaust collar |
| 5170148 | ECO-ADC6C | Exhaust Collar for ADC-6C; 10" (254 mm) diameter exhaust collar |
| 5170559 | ECO-ADC3E | Exhaust Collar for ADC-3E; 10" (254 mm) diameter exhaust collar |
| 5170323 | ECO-ADC5E | Exhaust Collar for ADC-5E; 10" (254 mm) diameter exhaust collar |
| **Utility Fittings (Maximum of 4 Service Fixtures per Hood)** | | |
| 5170015 | SF-1G50 | European Style Service Fixture with 50 mm Thread Length - Gas |
| 5170004 | SF-1V50 | European Style Service Fixture with 50 mm Thread Length - Vacuum |
| 5170012 | SF-1N50 | European Style Service Fixture with 50 mm Thread Length - Nitrogen |
| 5170007 | SF-1A50 | European Style Service Fixture with 50 mm Thread Length - Air |
| 5170009 | SF-1W50 | European Style Service Fixture with 50 mm Thread Length - Water |
| 5170019 | SF-2U50 | American Style Service Fixture with 50 mm Thread Length - Universal |
| **Others** | | |
| 5170334 | VOC-SR | VOC sensor for filter saturation detection |
| | EO-_ | Panel Mounted Electrical Outlet |
| 5170001 | WF-PP | Epoxy-coated Swan-neck faucet and Polypropylene drip-cup sink |
| 5170127 | MEW Rest | Ergonomic PVC Arm Rest Padding |
| 6170001 | LDAR-360 | Ergonomic Laboratory Chair |
| 5170073 | FT Rest | Foot Rest |


SPC-_Gen2


SAL-_Gen2


MBC-_


EO-H_


WF-PP


SF-2U_


SF-1_


ECO-_


VOC-SR

| | | MAIN CARBON FILTER | | |
|---|---|---|---|---|
| Hood Model | Filter Quantity | Filter Item Code | Filter Model Code | Description |
| ADC-2B | 1 | 5080003 | CFA-11 | Standard filter |
| | | 5080095 | CFB-11 | Acid Filter |
| | | 5080028 | CFC-11 | Mercury Filter |
| | | 5080039 | CFD-11 | Sulphur Filter |
| | | 5080050 | CFE-11 | Halogen Filter |
| | | 5080061 | CFF-11 | Aldehyde Filter |
| | | 5080072 | CFG-11 | Ammonia / Amine Filter |
| | | 5080104 | CFH-11 | Ethers / Chloroforms Filter |
| ADC-3B/C/D/E | 2 | 5080001 | CFA-1 | Standard filter |
| | | 5080017 | CFB-1 | Acid Filter |
| | | 5080026 | CFC-1 | Mercury Filter |
| | | 5080037 | CFD-1 | Sulphur Filter |
| | | 5080048 | CFE-1 | Halogen Filter |
| | | 5080059 | CFF-1 | Aldehyde Filter |
| | | 5080070 | CFG-1 | Ammonia / Amine Filter |
| | | 5080133 | CFH-1 | Ethers / Chloroforms Filter |
| ADC-4B/C/D/E | 2 | 5080010 | CFA-2 | Standard filter |
| | | 5080019 | CFB-2 | Acid Filter |
| | | 5080030 | CFC-2 | Mercury Filter |
| | | 5080041 | CFD-2 | Sulphur Filter |
| ADC-6B/C/D/E | 3 | 5080052 | CFE-2 | Halogen Filter |
| | | 5080063 | CFF-2 | Aldehyde Filter |
| | | 5080074 | CFG-2 | Ammonia / Amine Filter |
| | | 5080120 | CFH-2 | Ethers / Chloroforms Filter |
| ADC-5B/C/D/E | 2 | 5080011 | CFA-3 | Standard filter |
| | | 5080020 | CFB-3 | Acid Filter |
| | | 5080031 | CFC-3 | Mercury Filter |
| | | 5080042 | CFD-3 | Sulphur Filter |
| | | 5080053 | CFE-3 | Halogen Filter |
| | | 5080064 | CFF-3 | Aldehyde Filter |
| | | 5080075 | CFG-3 | Ammonia / Amine Filter |
| | | 5080100 | CFH-3 | Ethers / Chloroforms Filter |
| SPB-2A | 1 | 5080012 | CFA-4 | Standard filter |
| | | 5080021 | CFB-4 | Acid Filter |
| | | 5080032 | CFC-4 | Mercury Filter |
| | | 5080043 | CFD-4 | Sulphur Filter |
| SPD-4A/B | 2 | 5080054 | CFE-4 | Halogen Filter |
| | | 5080065 | CFF-4 | Aldehyde Filter |
| | | 5080076 | CFG-4 | Ammonia / Amine Filter |
| | | 5080110 | CFH-4 | Ethers / Chloroforms Filter |
| SPD-3A/B | 1 | 5080013 | CFA-6 | Standard filter |
| | | 5080022 | CFB-6 | Acid Filter |
| | | 5080033 | CFC-6 | Mercury Filter |
| | | 5080044 | CFD-6 | Sulphur Filter |
| | | 5080055 | CFE-6 | Halogen Filter |
| | | 5080066 | CFF-6 | Aldehyde Filter |
| | | 5080077 | CFG-6 | Ammonia / Amine Filter |
| | | 5080111 | CFH-6 | Ethers / Chloroforms Filter |

# Ascent™

Ductless Fume Hood • **Ascent™ Max Ductless Fume Hoods and Ascent™ Opti Ductless Fume Hoods**

| SECONDARY FILTERS | | | | |
|---|---|---|---|---|
| Hood Model | Filter Quantity | Filter Item Code | Filter Model Code | Description |
| ADC-3C | 1 | 5080014 | CFA-7 | Standard filter |
| | | 5080023 | CFB-7 | Acid Filter |
| | | 5080034 | CFC-7 | Mercury Filter |
| | | 5080045 | CFD-7 | Sulphur Filter |
| | | 5080056 | CFE-7 | Halogen Filter |
| | | 5080067 | CFF-7 | Aldehyde Filter |
| | | 5080078 | CFG-7 | Ammonia / Amine Filter |
| | | 5080108 | CFH-7 | Ethers / Chloroforms Filter |
| ADC-4C | 1 | 5080015 | CFA-8 | Standard filter |
| | | 5080024 | CFB-8 | Acid Filter |
| | | 5080035 | CFC-8 | Mercury Filter |
| | | 5080046 | CFD-8 | Sulphur Filter |
| | | 5080057 | CFE-8 | Halogen Filter |
| | | 5080068 | CFF-8 | Aldehyde Filter |
| | | 5080079 | CFG-8 | Ammonia / Amine Filter |
| | | 5080101 | CFH-8 | Ethers / Chloroforms Filter |
| ADC-5C | 1 | 5080016 | CFA-9 | Standard filter |
| | | 5080025 | CFB-9 | Acid Filter |
| | | 5080036 | CFC-9 | Mercury Filter |
| | | 5080047 | CFD-9 | Sulphur Filter |
| | | 5080058 | CFE-9 | Halogen Filter |
| | | 5080069 | CFF-9 | Aldehyde Filter |
| | | 5080080 | CFG-9 | Ammonia / Amine Filter |
| | | 5080127 | CFH-9 | Ethers / Chloroforms Filter |
| ADC-6C | 2 | 5080002 | CFA-10 | Standard filter |
| | | 5080002 | CFB-10 | Acid Filter |
| | | 5080027 | CFC-10 | Mercury Filter |
| | | 5080038 | CFD-10 | Sulphur Filter |
| | | 5080049 | CFE-10 | Halogen Filter |
| | | 5080060 | CFF-10 | Aldehyde Filter |
| | | 5080071 | CFG-10 | Ammonia / Amine Filter |
| | | 5080105 | CFH-10 | Ethers / Chloroforms Filter |
| ADC-3E | 1 | 5080109 | HP-ADC3E | Exhaust HEPA Filter for ADC-3E |
| ADC-4E | 1 | 5080107 | HP-ADC4E | Exhaust HEPA Filter for ADC-4E |
| ADC-5E | 1 | 5080116 | HP-ADC5E | Exhaust HEPA Filter for ADC-5E |

User Safety and Easy Installation?
**Go DUCTLESS!**

# Ascent™ Storage Cabinet
## *The filtered Storage Cabinet*

**Nanocarb™ Activated Carbon Filters**

- *Optimized retention capacity.*
- *Generously sized filters with more activated carbon by weight retain more chemicals and last longer.*
- *Diffusion technology to ensure even filter loading and better airflow uniformity.*

**VOC Sensor**

- *Detects presence of volatile organic compounds in the exhaust and alarms to indicate filter saturation.*

**Sentinel™ Silver Microprocessor Control System**

- *Provides audible (mutable) and visual alarms for low airflow or if the door is left opened for a set period of time.*
- *Automatically adjusts fan speed when door is opened or closed thus providing superior chemical containment, energy savings and low-noise operation.*

**Pull-out and Adjustable Shelves**

- *Provides easy access to chemical or reagent bottles and with unique containment pan (spill tray) designed to capture chemicals in the event of accidental spillage.*
- *Made of durable Polyropylene (PP) for long-lasting chemical resistance.*

**LED Lighting**

- *Equipped with cool-white energy-efficient LED lighting.*

**ISOCIDE™ Powder Coat**

- *Silver-ion impregnated powder coat.*
- *Inhibit microbial growth to improve safety.*

**Hinged Glass Door**

- *For easy identification of reagents and chemicals inside the cabinet.*

**Lock and Key feature**

- *Permits the laboratory manager or safety officer to restrict access to the cabinet most especially if there are highly regulated chemicals inside.*
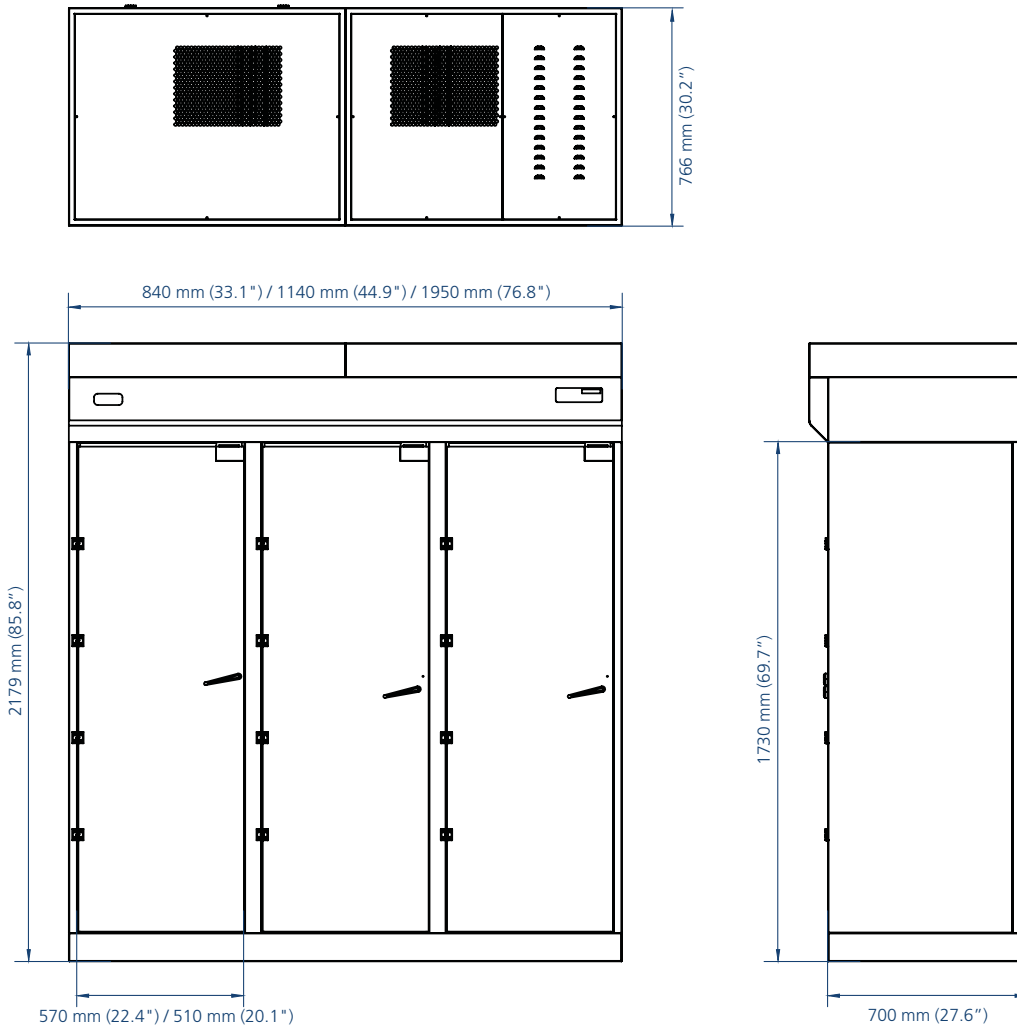
**Dividing Walls**

- *Designed to separate compatible and incompatible chemicals.*

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## Ascent™

## Ascent™ Storage Cabinet Engineering Drawing

| Guide to Models | | | | | | | |
|---|---|---|---|---|---|---|---|
| **A S C - 4 A 1** | | | | | | | |
| 1st Placeholder **Model** | **Code** | 2nd Placeholder **External Width** | **Code** | 3rd Placeholder **Back Wall** | **Code** | 4th Placeholder **Electrical** | **Code** |
| Ascent™ Opti | **ASC** | 33.1" (3 ft) | **3** | With Carbon Filter only | **A** | 220-240 VAC, 50 Hz | **1** |
| | | 44.9 m (4 ft) | **4** | *With Carbon and HEPA Filter | **B** | 110-220 VAC, 60 Hz | **2** |
| | | 76.8" (4 ft) | **6** | | | 220-240 VAC, 50 Hz | **3** |

*For ASC-_B_ model (with HEPA filter) total height of fume hood is 2329 mm (91.7")*

| Model | Model A | | |
|---|---|---|---|
| **Nominal Size** | **0.9 meter (3')** | **1.2 meter (4')** | **2.0 meters (6')** |
| **Internal Dimensions (W x D x H)** | 840 x 700 x 2179 mm (33.1" x 27.6" x 85.8") | 1140 x 700 x 2179 mm (44.9" x 27.6" x 85.8") | 1950 x 700 x 2179 mm (76.8" x 27.6" x 85.8") |
| **External Dimensions (W x D x H)** | 770 x 650 x 1731 mm (30.3" x 25.6" x 68.1") | 1020 x 650 x 1731 mm (40.2" x 25.6" x 68.1") | 1710 x 650 x 1731 mm (67.3" x 27.6" x 68.2") |
| **Door** | Hinged, Glass | | |
| **Main Body Construction** | 1.2 mm 18 gauge electro-galvanized steel with white oven-baked epoxy-polyester Isocide™ antimicrobial powder coated finish | | |
| **Internal Liner** | Esco Resinate™ | | |
| **Number of Fan** | 1 | 2 | |
| **Number of Shelves** | 5 (Option to add more) | | |
| **Shelf** | Polypropylene | | |

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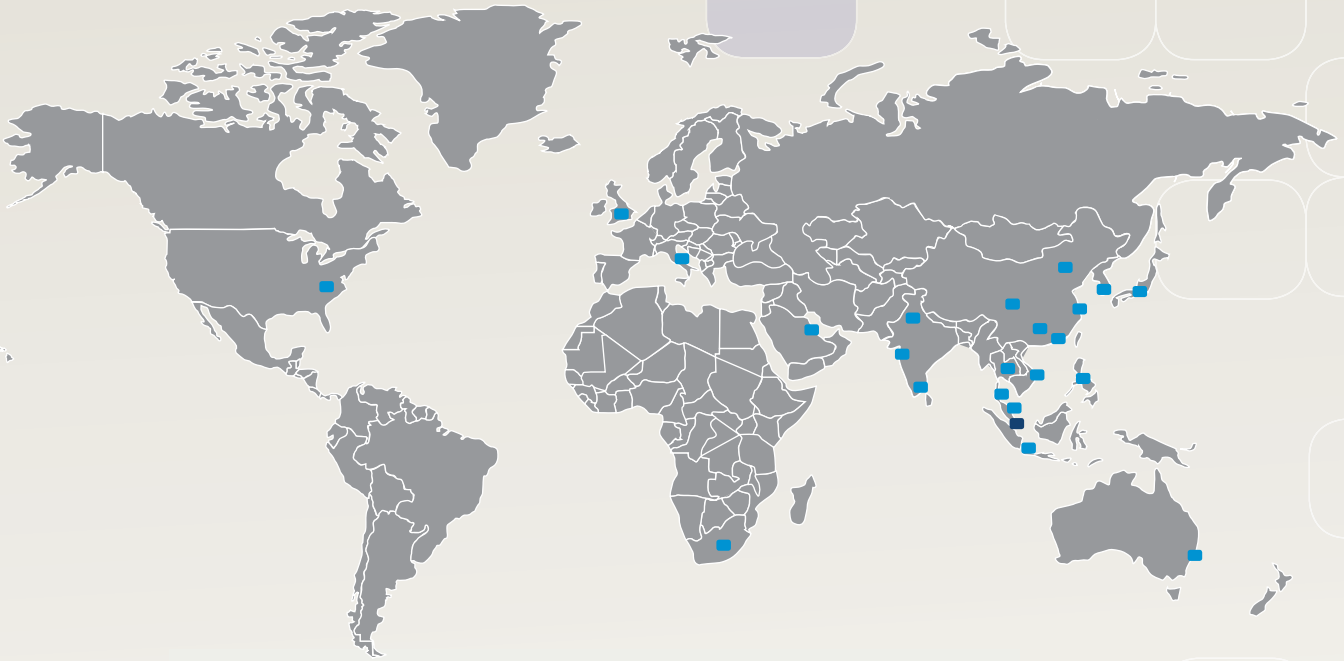
ART Equipment
Biological Safety Cabinets
$CO_2$ Incubators
Cold Storage
Compounding Pharmacy Equipment
Containment / Pharma Products
Ductless Fume Hoods
Lab Animal Research Products
Laboratory Fume Hoods
Laboratory Incubators
Laboratory Shakers
Laboratory Ovens
Laminar Flow Cabinets
PCR Cabinets
PCR Thermal Cyclers
Powder Weighing Balance Enclosures

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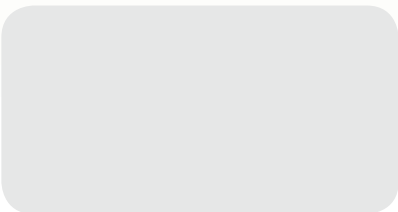
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Esco Micro Pte. Ltd. • 21 Changi South Street 1 • Singapore 486 777
Tel +65 6542 0833 • Fax +65 6542 6920 • mail@escoglobal.com
www.escoglobal.com

Esco Technologies, Inc. • 903 Sheehy Drive, Suite F, Horsham, PA 19044, USA
Toll-Free USA and Canada 1-877-479-3726 • Tel 215-441-9661 • Fax 484-698-7757
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