

# Ascent™ Max

## **Ductless Fume Hoods**

The Safe, Energy-Efficient Solution for Modern Chemistry





## 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

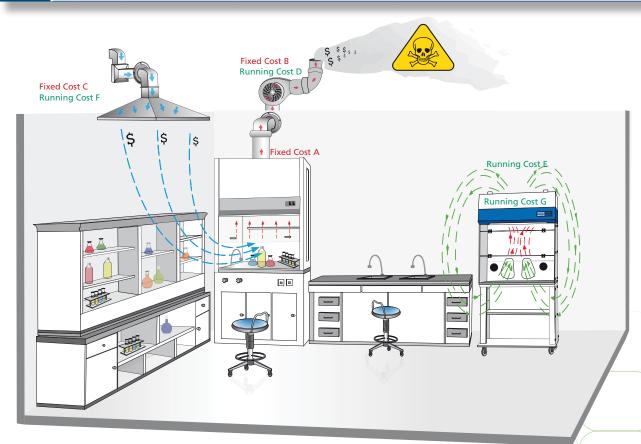
- No installation hassle
- Mobile, flexible and easily relocatable



Guide to Ascent <sup>™</sup> Max Models  A D C - 4 B 2					
1st Placeholder External Width	Code	e 2nd Placeholder Code		3rd Placeholder Code Electrical	
0.9 m (3 ft)	3	ADC-B (Single-layer Carbon Filter)	В	110-220 VAC, 60 Hz	2
1.2 m (4 ft)	4	ADC-C (Double-layer Carbon Filter)	С		
1.5 m (5 ft)	1.5 m (5 ft)  5 ADC-E (One-layer Carbon Filter, One-layer HEPA Filter)  1.8 m (6 ft)  6 ADC-E Custom (Double-layer HEPA Filter)		E		
1.8 m (6 ft)					

## **Save Expensive Lab Ventilation Costs and Energy**

Comparison between Conventional Fume Hood and Ductless Fume Hood							
			Conventional Ducted Hood	Ductless Fume Hood (Integrated Fan & Filter)	Remarks		
	А	Ductwork	US\$ 1500	None	Efficient carbon filtration system means potentially complex ducting systems are not required.		
Initial Capital	В	External Exhaust Blower	US\$ 2200	None	Compact integrated fan is sufficient to overcome the pressure drops across carbon filters.		
Costs	С	Make-up Air System	US\$ 2000	None	No exhaust means conditioned air is not drawn out of the lab. Expensive make-up air system with chiller/ heater and dehumidifier is not required.		
	Net Initial Capital Cost Savings: US\$ 5700						
	D	External Exhaust Blower	US\$ 2000	None	Energy requirements for small integrated blower is significantly less than that of large external exhaust		
Annual	E	Integrated Exhaust Blower	None	US\$ 100	blower.		
Running Costs	F	Make-up Air System	US\$ 3000	None	Conventional fume hoods consistently draw conditioned air out, giving rise to high energy consumption of makeup air system.		
	G	Carbon Filter	None	US\$ 600	Assuming this is ADC-4B2 with two Type-A carbon filters, and moderate use requiring filters change once a year.		
	Net Annual Running Cost Savings: US\$ 4300						



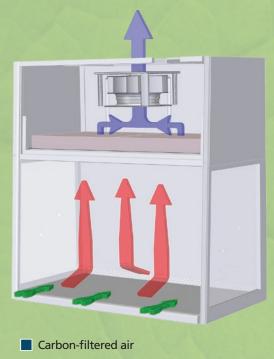
Note: Numerical figures are estimates based on US average weather conditions and commercial sector energy prices for a 6' (1.8 m) hood operating for 24 hrs a day at nominal hood opening and 100 fpm (0.5 m/s) face velocity. Figures provide a guide and differ in individual situations. (Evan Mills, Dale Sartor (2003), Energy use and savings potential for laboratory fume hoods).



## Ascent™ Max Ductless Fume Hood, ADC Models

### **Cabinet Filtration System**

- The inflow moves from the ambient environment into the work zone through the hood front opening with an average velocity of 80 fpm (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.



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

## 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 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



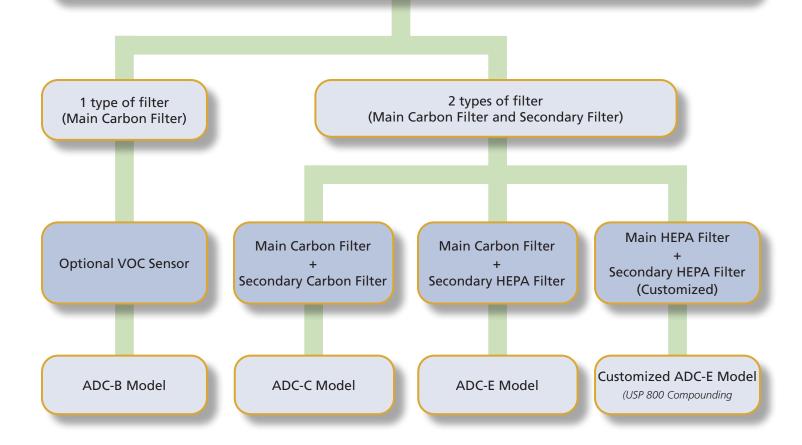
Fan button -turns the fan on and off Lamp button -turns the lamp on and off

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)

### **Esco Ductless Fume Hood**

This type of fume hood is suitable for applications involving transfer of chemicals, titration, sample preparation, weighing, extraction and experiments with no forced or with minimal evaporation. This is usually preferred because of the hassle-free installation and of its plug and play feature.



Not sure on the quantity of filter?

Fill out our FiltraCheck™ Form

and let us do the work!

http://www.escoglobal.com/request-filtracheck/FiltraCheck-form/

FiltraCheck™ is now available in iOS and Android!

Get the real-time recommendation of the appropriate

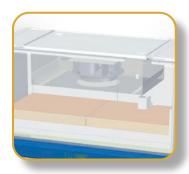
fume hood models and filters.





## **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
- 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.



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## 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



Shown with STL (telescoping height stand for leveling feet, nominal range 26" to 36" or 660 mm to 914 mm

**Standards** Compliance ANSI / ASHRAE 110-1995, USA BS 7258, UK AFNOR NF X 15-203, France EN14175.3, Europe

**Chemical Fume Containment** 

BS 7989 - 2001, UK AFNOR NF X 15-211, France

**Filter Efficiency** 

UL-61010-1, USA/Canada CAN/CSA-22.2, No.61010-1 EN-61010-1, Europe IEC61010-1, Worldwide

**Electrical Safety** 



## 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



### **Sash Window**

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

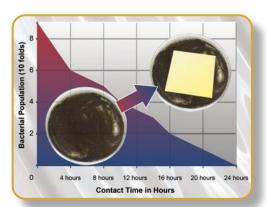


## **Auto Purge Slots**

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



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



## **Support Stand**

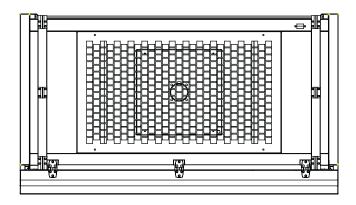
- Made from durable material to support a maximum weight of 500-600 Kg (1102 - 1322 lbs)
- Available in two options: leveling feet (STL) and caster wheels (STC)

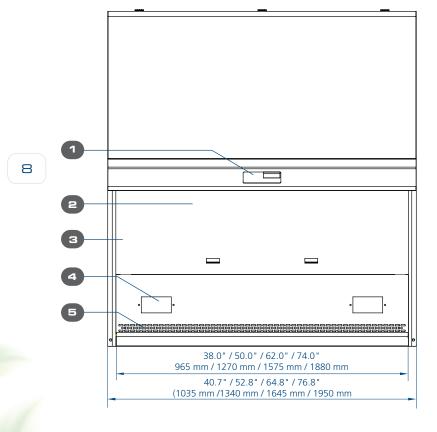


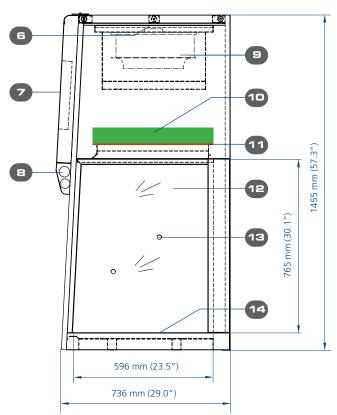


Ascent-MAX

#### Model ADC-\_B2, Ascent™ Max Ductless Fume Hood Engineering Drawing



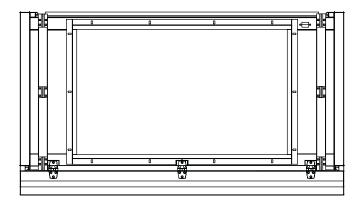


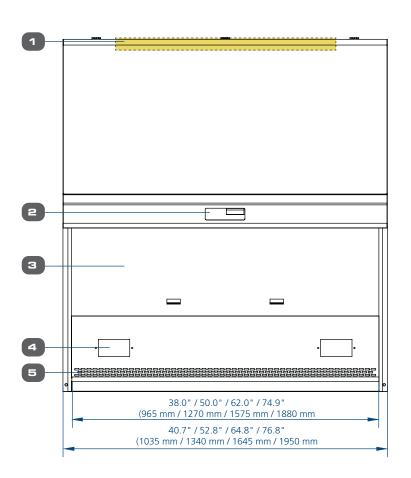


- 1. Esco Sentinel™ Silver Microprocessor Control System
- 2. Tempered Glass Sliding Sash Window
- 3. E.G. Steel Back wall
- 4. Optional EO-HA Single Electrical Outlet (max 5A combined for max 2 outlets)
- 5. AutoPurge™ Slots
- 6. Optional VOC sensor
- 7. Electrical Panel

- 8. Fluorescent Lamps
- 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

#### Model ADC-\_C2, Ascent™ Max Ductless Fume Hood Engineering Drawing (with Secondary Backup Carbon Filter)





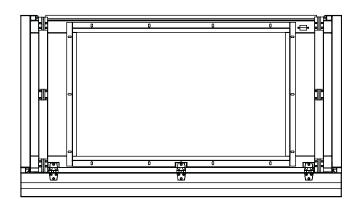
145 mm (57.0")

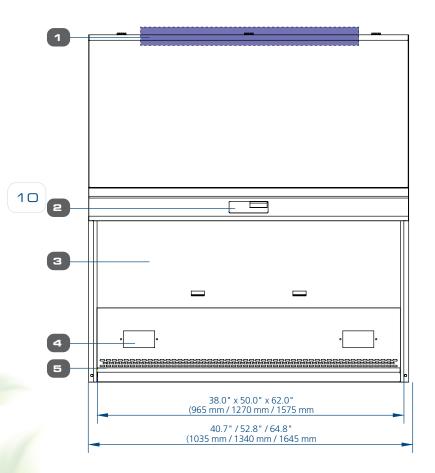
- 1. Secondary Exhaust Carbon Filter
- 2. Esco Sentinel™ Silver Microprocessor Control System
- 3. Tempered Glass Sliding Sash Window
- 4. Optional EO-HA Single Electrical Outlet (max 5A combined for max 2 outlets)
- 5. AutoPurge™ Slots
- 6. Optional VOC sensor
- 7. Electrical Panel

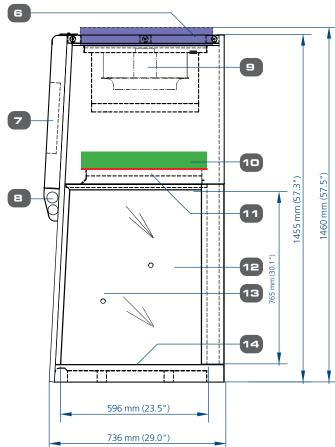
- 8. Fluorescent Lamps
- 9. Fan
- 10. Main Carbon Filter
- 11. Pre-filter (built inside the carbon filter)
- 12. Tempered Glass Sides
- 13. Service Fixture Retrofit Kit Provision (2 on each side)
- 14. Stainless Steel Worktop



#### Model ADC-\_E2, Ascent™ Max Ductless Fume Hood Engineering Drawing (with Secondary HEPA Filter)







- 1. HEPA Filter
- 2. Esco Sentinel™ Silver Microprocessor Control System
- 3. Tempered Glass Sliding Sash Window
- 4. Optional EO-HA Single Electrical Outlet (max 5A combined for max 2 outlets)
- 5. AutoPurge™ Slots
- 6. Optional VOC sensor
- 7. Electrical Panel

- 8. Fluorescent Lamps
- 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

Series	General Specifications, Ascent™ Max Ductless Fume Hood (B, C and E-Series)					
March   Marc		B Series	ADC-3B2	ADC-4B2	ADC-5B2	ADC-6B2
Main		ons				
Sound Emission	Internal Work Area		965 x 596 x 765 mm	1268 x 596 x 765 mm	1575 x 596 x 765 mm	
Net weight	· · · · · · · · · · · · · · · · · · ·			57 dBA	,	
Shipping   Meight	Fluorescent Light	Intensity		>1000 lux (>9	3 foot-candles)	
Shipping Dimensions			175 kg (386 lbs)	225 kg (496 lbs)	245 kg (540 lbs)	293 kg (646 lbs)
Shipping Dimensions	Shipping Weight		205 kg (452 lbs)	261 kg (575 lbs)	320 kg (705 lbs)	380 kg (838 lbs)
Cabnet Full Load Amps IP.AU   3.5 A			3	<u> </u>	1730 x 840 x 1750 mm	
Column Counted (FLA)   1972   238 W   275 W   315 W   345 W	Snipping Dimens	_	, , , , , , , , , , , , , , , , , , , ,	(1000)	(***	
100-120 V.K.   Cabinet RUMB   238 W   275 W   315 W   345 W   1177   1		1 , ,				
Cabonet HILLING   1912   938			238 W	275 W	315 W	345 W
1055-778-1 480 mm	00 112, 19	Cabinet BTU/HR	812	938	1075	1177
Mary No.   Mary   Mar		C Series				
Internal Work Area   995 x 596 x 756 mm   995 x 596 x 756 mm   1075 x 296 x 705 mm   (740 x 225 x 39 mm)   (		ons				
Control   Con		ea	` '			, ,
South   Company   State   Co	(W x D x H)		(38.0" x 23.5" x 30.1")	(50.0" x 23.5" x 30.1")	(62.0" x 23.5" x 30.1")	(74.0" x 23.5" x 30.1")
Fluorescent Light Intensity   C  106 foot-candles    C  106 foot-candles    C  99 foot-candles    C  90 foot						
Shipping   Weight	Fluorescent Light	Intensity				
130 x 840 x 1750 mm	Net weight		175 kg (386 lbs)	225 kg (496 lbs)	245 kg (540 lbs)	293 kg (646 lbs)
Cabinet Full Load Amps (FLA)   Cabinet BTU/HR   Part   Cabinet BTU/HR   Part   Cabinet BTU/HR   Part   Cabinet Full Load Amps (FLA)   Cabinet BTU/HR   Part   Cabinet BTU/HR	Shipping Weight		253 kg (558 lbs)	336 kg (741 lbs)	336 kg (741 lbs)	398 kg (877 lbs)
Cabinet Full Load Amps (FLA)   Cabinet Full Load Amps (FLA)   Cabinet Full Load Amps (FLA)   Cabinet BTU/HR   Cabinet BTU/H	Shinning Dimens	ions				
Detail   D		_	, ,	,	,	
110-120 VAC, 60 Hz, 10	Flectrical		3.5			A
Cabinet BTU/HR   921   1211   1467   1614			270.14/			472.144
E Series	60 Hz,1Ø					
External Dimensions						
Mary						
Construction   Con	External Dimensi					
Net weight   Net weight   175 kg (386 lbs)   225 kg (496 lbs)   335 kg (739 lbs)   398 kg (877 lbs)   398	(W x D x H)	ons	1035 x 736 x 1455 mm (40.7" x 29.0" x 57.3")	965 x 596 x 765 mm (38.0" x 23.5" x 30.1")	1645 x 736 x 1455 mm (64.8" x 29.0" x 57.3")	1950 x 747 x 1714 mm (76.8" x 29.5" x 67.5")
Net weight	(W x D x H) Internal Work Ar	ons	1035 x 736 x 1455 mm (40.7" x 29.0" x 57.3") 965 x 596 x 765 mm	965 x 596 x 765 mm (38.0" x 23.5" x 30.1") 1268 x 596 x 765 mm	1645 x 736 x 1455 mm (64.8" x 29.0" x 57.3") 1575 x 596 x 765 mm	1950 x 747 x 1714 mm (76.8" x 29.5" x 67.5") 1880 x 609 x 1019 mm
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Shipping Weight	(W x D x H) Internal Work Ar (W x D x H) Sound Emission	ea ea	1035 x 736 x 1455 mm (40.7" x 29.0" x 57.3") 965 x 596 x 765 mm (38.0" x 23.5" x 30.1") 61 o >1115 lux	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") dBA >1107 lux	1645 x 736 x 1455 mm (64.8" x 29.0" x 57.3") 1575 x 596 x 765 mm (62.0" x 23.5" x 30.1") 62 dBA >1107 lux	1950 x 747 x 1714 mm (76.8" x 29.5" x 67.5") 1880 x 609 x 1019 mm (74.0" x 23.9" x 40") 62 dBA >700 lux
Shipping Dimensions	(W x D x H) Internal Work Ar (W x D x H) Sound Emission Fluorescent Light	ea ea	1035 x 736 x 1455 mm (40.7" x 29.0" x 57.3") 965 x 596 x 765 mm (38.0" x 23.5" x 30.1") 61 o >1115 lux (>104 foot-candles)	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") dBA >1107 lux (>103 foot-candles)	1645 x 736 x 1455 mm (64.8" x 29.0" x 57.3") 1575 x 596 x 765 mm (62.0" x 23.5" x 30.1") 62 dBA >1107 lux (>103 foot-candles)	1950 x 747 x 1714 mm (76.8" x 29.5" x 67.5") 1880 x 609 x 1019 mm (74.0" x 23.9" x 40") 62 dBA >700 lux (>65 foot-candles)
Cabinet Full Load Amps (FLA)   3.5 A   4 A	(W x D x H) Internal Work Ar (W x D x H) Sound Emission Fluorescent Light Net weight	ons ea t Intensity	1035 x 736 x 1455 mm (40.7" x 29.0" x 57.3") 965 x 596 x 765 mm (38.0" x 23.5" x 30.1") 61 o >1115 lux (>104 foot-candles) 175 kg (386 lbs)	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") dBA >1107 lux (>103 foot-candles) 225 kg (496 lbs)	1645 x 736 x 1455 mm (64.8" x 29.0" x 57.3") 1575 x 596 x 765 mm (62.0" x 23.5" x 30.1") 62 dBA >1107 lux (>103 foot-candles) 245 kg (540 lbs)	1950 x 747 x 1714 mm (76.8" x 29.5" x 67.5") 1880 x 609 x 1019 mm (74.0" x 23.9" x 40") 62 dBA >700 lux (>65 foot-candles) 293 kg (646 lbs)
Optional Outlets (FLA)   Cabinet Nominal Power   269 W   313 W   334 W   348 W	(W x D x H) Internal Work Ar (W x D x H) Sound Emission Fluorescent Light Net weight Shipping Weight	ons ea t Intensity	1035 x 736 x 1455 mm (40.7" x 29.0" x 57.3") 965 x 596 x 765 mm (38.0" x 23.5" x 30.1") 61 c >1115 lux (>104 foot-candles) 175 kg (386 lbs) 216 kg (476 lbs) 1130 x 840 x 1750 mm	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") dBA >1107 lux (>103 foot-candles) 225 kg (496 lbs) 274 kg (604 lbs) 1450 x 840 x 1750 mm	1645 x 736 x 1455 mm (64.8" x 29.0" x 57.3") 1575 x 596 x 765 mm (62.0" x 23.5" x 30.1") 62 dBA >1107 lux (>103 foot-candles) 245 kg (540 lbs) 335 kg (739 lbs) 1750 x 840 x 1750 mm	1950 x 747 x 1714 mm (76.8" x 29.5" x 67.5") 1880 x 609 x 1019 mm (74.0" x 23.9" x 40") 62 dBA >700 lux (>65 foot-candles) 293 kg (646 lbs) 398 kg (877 lbs) 2020 x 840 x 1750 mm
Total Countries (Lab)   Cabinet Nominal Power   269 W   313 W   334 W   348 W	(W x D x H) Internal Work Ar (W x D x H) Sound Emission Fluorescent Light Net weight Shipping Weight	ea t Intensity ions	1035 x 736 x 1455 mm (40.7" x 29.0" x 57.3") 965 x 596 x 765 mm (38.0" x 23.5" x 30.1") 61 c >1115 lux (>104 foot-candles) 175 kg (386 lbs) 216 kg (476 lbs) 1130 x 840 x 1750 mm (44.5" x 33.1" x 68.9")	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") dBA >1107 lux (>103 foot-candles) 225 kg (496 lbs) 274 kg (604 lbs) 1450 x 840 x 1750 mm (57.1" x 33.1" x 68.9")	1645 x 736 x 1455 mm (64.8" x 29.0" x 57.3") 1575 x 596 x 765 mm (62.0" x 23.5" x 30.1") 62 dBA >1107 lux (>103 foot-candles) 245 kg (540 lbs) 335 kg (739 lbs) 1750 x 840 x 1750 mm (68.9" x 33.1" x 68.9")	1950 x 747 x 1714 mm (76.8" x 29.5" x 67.5") 1880 x 609 x 1019 mm (74.0" x 23.9" x 40") 62 dBA >700 lux (>65 foot-candles) 293 kg (646 lbs) 398 kg (877 lbs) 2020 x 840 x 1750 mm (79.5" x 33.1" x 68.9")
Cabinet BTU/HR  918  1068  1140  1187  General Specifications, Ascent™ Max Ductless Fume Hood (B, C, and E series)  Pre-filter Disposable, non-washable polyester fibre, 85% arrestance, EU3 rated (built inside the carbon filter)  Main filter* Secondary Filter Secondary Filter (not applicable for B series)  Inflow Airflow Velocity  Inflow Airflow Velocity  Main Body  Side Walls  Side Walls  Sash  Soping  Material  Cabinet BTU/HR  918  1068  1140  1187  1187  1187  1088  1140  1140  1187	(W x D x H) Internal Work Ar (W x D x H) Sound Emission Fluorescent Light Net weight Shipping Weight Shipping Dimens	ea t Intensity  ions  Cabinet Full Load Amps (FLA)	1035 x 736 x 1455 mm (40.7" x 29.0" x 57.3") 965 x 596 x 765 mm (38.0" x 23.5" x 30.1") 61 c >1115 lux (>104 foot-candles) 175 kg (386 lbs) 216 kg (476 lbs) 1130 x 840 x 1750 mm (44.5" x 33.1" x 68.9")	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") dBA >1107 lux (>103 foot-candles) 225 kg (496 lbs) 274 kg (604 lbs) 1450 x 840 x 1750 mm (57.1" x 33.1" x 68.9")	1645 x 736 x 1455 mm (64.8" x 29.0" x 57.3") 1575 x 596 x 765 mm (62.0" x 23.5" x 30.1") 62 dBA >1107 lux (>103 foot-candles) 245 kg (540 lbs) 335 kg (739 lbs) 1750 x 840 x 1750 mm (68.9" x 33.1" x 68.9")	1950 x 747 x 1714 mm (76.8" x 29.5" x 67.5") 1880 x 609 x 1019 mm (74.0" x 23.9" x 40") 62 dBA >700 lux (>65 foot-candles) 293 kg (646 lbs) 398 kg (877 lbs) 2020 x 840 x 1750 mm (79.5" x 33.1" x 68.9")
Standard Filtration Elements  Pre-filter  Disposable, non-washable polyester fibre, 85% arrestance, EU3 rated (built inside the carbon filter)  Main filter*  Activated Carbon with Granular Media bed (8 different filter types available, codes A-H)  Secondary Filter (not applicable for B series)  Inflow Airflow Velocity  Initial set point: 0.40 m/s or 80 fpm  Airflow alarm  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  Sash Type  Vertical Sliding  Material  Sloping  Mork Opening  Mork Opening  Pre-filter  Disposable, non-washable polyester fibre, 85% arrestance, EU3 rated (built inside the carbon filter)  Disposable, non-washable polyester fibre, 85% arrestance, EU3 rated (built inside the carbon filter)  Disposable, non-washable polyester fibre, 85% arrestance, EU3 rated (built inside the carbon filter)  Activated Carbon with Granular Media bed (8 different filter types available, codes A-H)  E Series - HEPA filter, typical efficiency of >99.99% at 0.3 microns, removes particles and aerosols  Pre-filter  Activated Carbon with Granular Media bed (8 different filter types available, codes A-H)  E Series - HEPA filter, typical efficiency of >99.99% at 0.3 microns, removes particles and aerosols  Pre-filter  Activated Carbon with Granular Media bed (8 different filter types available, codes A-H)  E Series - Activated Carbon with Granular Media bed (8 different filter types available, codes A-H)  E Series - Activated Carbon with Granular Media bed (8 different filter types available, codes A-H)  E Series - Activated Carbon with Granular Media bed (8 different filter types available; codes A-H)  E Series - Activated Carbon with Granular Media bed (8 different filter types available; codes A-H)  E Series - HEPA filter, typical efficiency of >99.99% at 0.3 microns, removes particles and aerosols  Pre-filter  Activated Carbon with Granular Media bed (8 different filter types available; c	(W x D x H) Internal Work Ar (W x D x H) Sound Emission Fluorescent Light Net weight Shipping Weight Shipping Dimens Electrical 110-120 VAC,	ea  t Intensity  ions  Cabinet Full Load Amps (FLA) Optional Outlets (FLA)	1035 x 736 x 1455 mm (40.7" x 29.0" x 57.3") 965 x 596 x 765 mm (38.0" x 23.5" x 30.1") 61 c >1115 lux (>104 foot-candles) 175 kg (386 lbs) 216 kg (476 lbs) 1130 x 840 x 1750 mm (44.5" x 33.1" x 68.9")	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") dBA >1107 lux (>103 foot-candles) 225 kg (496 lbs) 274 kg (604 lbs) 1450 x 840 x 1750 mm (57.1" x 33.1" x 68.9")	1645 x 736 x 1455 mm (64.8" x 29.0" x 57.3") 1575 x 596 x 765 mm (62.0" x 23.5" x 30.1") 62 dBA >1107 lux (>103 foot-candles) 245 kg (540 lbs) 335 kg (739 lbs) 1750 x 840 x 1750 mm (68.9" x 33.1" x 68.9")	1950 x 747 x 1714 mm (76.8" x 29.5" x 67.5") 1880 x 609 x 1019 mm (74.0" x 23.9" x 40") 62 dBA >700 lux (>65 foot-candles) 293 kg (646 lbs) 398 kg (877 lbs) 2020 x 840 x 1750 mm (79.5" x 33.1" x 68.9")
Pre-filter   Disposable, non-washable polyester fibre, 85% arrestance, EU3 rated (built inside the carbon filter)   Main filter*   Activated Carbon with Granular Media bed (8 different filter types available, codes A-H)   Secondary Filter (not applicable for B series)   E Series - Activated Carbon with Granular Media bed (8 different filter types available, codes A-H)   E Series - HEPA filter, typical efficiency of >99.99% at 0.3 microns, removes particles and aerosols	(W x D x H) Internal Work Ar (W x D x H) Sound Emission Fluorescent Light Net weight Shipping Weight Shipping Dimens Electrical 110-120 VAC,	ea  t Intensity  ions  Cabinet Full Load Amps (FLA) Optional Outlets (FLA) Cabinet Nominal Power	1035 x 736 x 1455 mm (40.7" x 29.0" x 57.3") 965 x 596 x 765 mm (38.0" x 23.5" x 30.1") 61 c >1115 lux (>104 foot-candles) 175 kg (386 lbs) 216 kg (476 lbs) 1130 x 840 x 1750 mm (44.5" x 33.1" x 68.9") 3.5	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") JBA >1107 lux (>103 foot-candles) 225 kg (496 lbs) 274 kg (604 lbs) 1450 x 840 x 1750 mm (57.1" x 33.1" x 68.9") 5 A	1645 x 736 x 1455 mm (64.8" x 29.0" x 57.3")  1575 x 596 x 765 mm (62.0" x 23.5" x 30.1")  62 dBA  >1107 lux (>103 foot-candles)  245 kg (540 lbs)  335 kg (739 lbs)  1750 x 840 x 1750 mm (68.9" x 33.1" x 68.9")  4  A  334 W	1950 x 747 x 1714 mm (76.8" x 29.5" x 67.5") 1880 x 609 x 1019 mm (74.0" x 23.9" x 40") 62 dBA >700 lux (>65 foot-candles) 293 kg (646 lbs) 398 kg (877 lbs) 2020 x 840 x 1750 mm (79.5" x 33.1" x 68.9") A
Main filter*   Activated Carbon with Granular Media bed (8 different filter types available, codes A-H)	(W x D x H) Internal Work Ar (W x D x H) Sound Emission Fluorescent Light Net weight Shipping Weight Shipping Dimens Electrical 110-120 VAC,	ions  Cabinet Full Load Amps (FLA) Optional Outlets (FLA) Cabinet Nominal Power Cabinet BTU/HR	1035 x 736 x 1455 mm (40.7" x 29.0" x 57.3")  965 x 596 x 765 mm (38.0" x 23.5" x 30.1")  61 c  >1115 lux (>104 foot-candles)  175 kg (386 lbs)  216 kg (476 lbs)  1130 x 840 x 1750 mm (44.5" x 33.1" x 68.9")  3.5	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") dBA >1107 lux (>103 foot-candles) 225 kg (496 lbs) 274 kg (604 lbs) 1450 x 840 x 1750 mm (57.1" x 33.1" x 68.9") 6 A 5 313 W 1068	1645 x 736 x 1455 mm (64.8" x 29.0" x 57.3")  1575 x 596 x 765 mm (62.0" x 23.5" x 30.1")  62 dBA  >1107 lux (>103 foot-candles)  245 kg (540 lbs)  335 kg (739 lbs)  1750 x 840 x 1750 mm (68.9" x 33.1" x 68.9")  4  334 W  1140	1950 x 747 x 1714 mm (76.8" x 29.5" x 67.5") 1880 x 609 x 1019 mm (74.0" x 23.9" x 40") 62 dBA >700 lux (>65 foot-candles) 293 kg (646 lbs) 398 kg (877 lbs) 2020 x 840 x 1750 mm (79.5" x 33.1" x 68.9") A
Main Titler   Activated Carbon with Granular Media bed (8 different filter types available , codes A-H)	(W x D x H) Internal Work Ar (W x D x H) Sound Emission Fluorescent Light Net weight Shipping Weight Shipping Dimens Electrical 110-120 VAC,	ea  t Intensity  ions  Cabinet Full Load Amps (FLA) Optional Outlets (FLA) Cabinet Nominal Power Cabinet BTU/HR  Gener	1035 x 736 x 1455 mm (40.7" x 29.0" x 57.3")  965 x 596 x 765 mm (38.0" x 23.5" x 30.1")  61 c  >1115 lux (>104 foot-candles)  175 kg (386 lbs)  216 kg (476 lbs)  1130 x 840 x 1750 mm (44.5" x 33.1" x 68.9")  3.5  269 W 918  ral Specifications, Ascent™	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") dBA  >1107 lux (>103 foot-candles) 225 kg (496 lbs) 274 kg (604 lbs) 1450 x 840 x 1750 mm (57.1" x 33.1" x 68.9") 5 A  5  313 W  1068  Max Ductless Fume Hood	1645 x 736 x 1455 mm (64.8" x 29.0" x 57.3")  1575 x 596 x 765 mm (62.0" x 23.5" x 30.1")  62 dBA  >1107 lux (>103 foot-candles)  245 kg (540 lbs)  335 kg (739 lbs)  1750 x 840 x 1750 mm (68.9" x 33.1" x 68.9")  4  334 W  1140  (B, C, and E series)	1950 x 747 x 1714 mm (76.8" x 29.5" x 67.5") 1880 x 609 x 1019 mm (74.0" x 23.9" x 40") 62 dBA >700 lux (>65 foot-candles) 293 kg (646 lbs) 398 kg (877 lbs) 2020 x 840 x 1750 mm (79.5" x 33.1" x 68.9") A
Secondary Filter (not applicable for B series)   C Series - Activated Carbon with Granular Media bed (8 different filter types available, codes A-H)   E Series - HEPA filter, typical efficiency of >99.99% at 0.3 microns, removes particles and aerosols	(W x D x H) Internal Work Ar (W x D x H) Sound Emission Fluorescent Light Net weight Shipping Weight Shipping Dimens Electrical 110-120 VAC, 60 Hz,10	ea  t Intensity  ions  Cabinet Full Load Amps (FLA) Optional Outlets (FLA) Cabinet Nominal Power Cabinet BTU/HR  Gener	1035 x 736 x 1455 mm (40.7" x 29.0" x 57.3")  965 x 596 x 765 mm (38.0" x 23.5" x 30.1")  61 (  >1115 lux (>104 foot-candles)  175 kg (386 lbs)  216 kg (476 lbs)  1130 x 840 x 1750 mm (44.5" x 33.1" x 68.9")  269 W 918  ral Specifications, Ascent™  Disposable, non-	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")  dBA  >1107 lux (>103 foot-candles)  225 kg (496 lbs)  274 kg (604 lbs)  1450 x 840 x 1750 mm (57.1" x 33.1" x 68.9")  5 A  5  313 W  1068  Max Ductless Fume Hood  washable polyester fibre, 85% a	1645 x 736 x 1455 mm (64.8" x 29.0" x 57.3")  1575 x 596 x 765 mm (62.0" x 23.5" x 30.1")  62 dBA  >1107 lux (>103 foot-candles)  245 kg (540 lbs)  335 kg (739 lbs)  1750 x 840 x 1750 mm (68.9" x 33.1" x 68.9")  4  334 W  1140  (B, C, and E series)  rrestance, EU3 rated (built inside	1950 x 747 x 1714 mm (76.8" x 29.5" x 67.5")  1880 x 609 x 1019 mm (74.0" x 23.9" x 40")  62 dBA  >700 lux (>65 foot-candles)  293 kg (646 lbs)  398 kg (877 lbs)  2020 x 840 x 1750 mm (79.5" x 33.1" x 68.9")  A  348 W  1187
Inflow Airflow Velocity       Initial set point: 0.40 m/s or 80 fpm         Yes         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 Upgrades available: Epoxy         Sash Type       Vertical Sliding         Material       Tempered Glass         Sloping       3°         Work Opening       10" (254 mm)	(W x D x H) Internal Work Ar (W x D x H) Sound Emission Fluorescent Light Net weight Shipping Weight Shipping Dimens Electrical 110-120 VAC, 60 Hz,10	ea  t Intensity  ions  Cabinet Full Load Amps (FLA) Optional Outlets (FLA) Cabinet Nominal Power Cabinet BTU/HR  Gener	1035 x 736 x 1455 mm (40.7" x 29.0" x 57.3")  965 x 596 x 765 mm (38.0" x 23.5" x 30.1")  61 c  >1115 lux (>104 foot-candles)  175 kg (386 lbs)  216 kg (476 lbs)  1130 x 840 x 1750 mm (44.5" x 33.1" x 68.9")  269 W 918  ral Specifications, Ascent <sup>TM</sup> Disposable, non-Activated C	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")  dBA  >1107 lux (>103 foot-candles)  225 kg (496 lbs)  274 kg (604 lbs)  1450 x 840 x 1750 mm (57.1" x 33.1" x 68.9")  5 A  5  313 W  1068  Max Ductless Fume Hood washable polyester fibre, 85% a larbon with Granular Media bed	1645 x 736 x 1455 mm (64.8" x 29.0" x 57.3")  1575 x 596 x 765 mm (62.0" x 23.5" x 30.1")  62 dBA  >1107 lux (>103 foot-candles)  245 kg (540 lbs)  335 kg (739 lbs)  1750 x 840 x 1750 mm (68.9" x 33.1" x 68.9")  4  334 W  1140  (B, C, and E series)  rrestance, EU3 rated (built inside (8 different filter types available ,	1950 x 747 x 1714 mm (76.8" x 29.5" x 67.5")  1880 x 609 x 1019 mm (74.0" x 23.9" x 40")  62 dBA  >700 lux (>65 foot-candles)  293 kg (646 lbs)  398 kg (877 lbs)  2020 x 840 x 1750 mm (79.5" x 33.1" x 68.9")  A  348 W  1187  the carbon filter) codes A-H)
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	(W x D x H) Internal Work Ar (W x D x H) Sound Emission Fluorescent Light Net weight Shipping Weight Shipping Dimens Electrical 110-120 VAC, 60 Hz, 1Ø Standard Filtration	ea  t Intensity  ions  Cabinet Full Load Amps (FLA) Optional Outlets (FLA) Cabinet Nominal Power Cabinet BTU/HR  Gene  Pre-filter Main filter* Secondary Filter	1035 x 736 x 1455 mm (40.7" x 29.0" x 57.3")  965 x 596 x 765 mm (38.0" x 23.5" x 30.1")  61 c  >1115 lux (>104 foot-candles)  175 kg (386 lbs)  216 kg (476 lbs)  1130 x 840 x 1750 mm (44.5" x 33.1" x 68.9")  3.5  269 W 918  ral Specifications, Ascent <sup>TM</sup> Disposable, non-Activated C C Series - Activa	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")  dBA  >1107 lux (>103 foot-candles)  225 kg (496 lbs)  274 kg (604 lbs)  1450 x 840 x 1750 mm (57.1" x 33.1" x 68.9")  6 A  5  313 W  1068  Max Ductless Fume Hood washable polyester fibre, 85% a Carbon with Granular Media bed ted Carbon with Granular Media	1645 x 736 x 1455 mm (64.8" x 29.0" x 57.3")  1575 x 596 x 765 mm (62.0" x 23.5" x 30.1")  62 dBA  >1107 lux (>103 foot-candles)  245 kg (540 lbs)  335 kg (739 lbs)  1750 x 840 x 1750 mm (68.9" x 33.1" x 68.9")  4  334 W  1140  (B, C, and E series)  rrestance, EU3 rated (built inside (8 different filter types available , bed (8 different filter types available ,	1950 x 747 x 1714 mm (76.8" x 29.5" x 67.5")  1880 x 609 x 1019 mm (74.0" x 23.9" x 40")  62 dBA  >700 lux (>65 foot-candles)  293 kg (646 lbs)  398 kg (877 lbs)  2020 x 840 x 1750 mm (79.5" x 33.1" x 68.9")  A  348 W  1187  the carbon filter) codes A-H) able , codes A-H)
Hood Construction Side Walls Work Top Sash Sash Vork Top Soloping Work Opening Side Walls Side Walls Tempered Glass 1.5 mm (0.06") 16 gauge stainless steel, type 304, with 4B finish Upgrades available: Epoxy Vertical Sliding Tempered Glass Vork Opening Soloping Tempered Glass Tempered Glass Tompered Glass Tompered Glass Tompered Glass Tompered Glass Tompered Glass	(W x D x H) Internal Work Ar (W x D x H) Sound Emission Fluorescent Light Net weight Shipping Weight Shipping Dimens Electrical 110-120 VAC, 60 Hz,10  Standard Filtration Elements	ea  t Intensity  ions  Cabinet Full Load Amps (FLA) Optional Outlets (FLA) Cabinet Nominal Power Cabinet BTU/HR  Gener  Pre-filter Main filter* Secondary Filter (not applicable for B series)	1035 x 736 x 1455 mm (40.7" x 29.0" x 57.3")  965 x 596 x 765 mm (38.0" x 23.5" x 30.1")  61 c  >1115 lux (>104 foot-candles)  175 kg (386 lbs)  216 kg (476 lbs)  1130 x 840 x 1750 mm (44.5" x 33.1" x 68.9")  3.5  269 W 918  ral Specifications, Ascent <sup>TM</sup> Disposable, non-Activated C C Series - Activa	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")  dBA  >1107 lux (>103 foot-candles)  225 kg (496 lbs)  274 kg (604 lbs)  1450 x 840 x 1750 mm (57.1" x 33.1" x 68.9")  5 A  5  313 W  1068  Max Ductless Fume Hood washable polyester fibre, 85% a carbon with Granular Media bed ted Carbon with Granular Media filter, typical efficiency of >99.99	1645 x 736 x 1455 mm (64.8" x 29.0" x 57.3")  1575 x 596 x 765 mm (62.0" x 23.5" x 30.1")  62 dBA  >1107 lux (>103 foot-candles)  245 kg (540 lbs)  335 kg (739 lbs)  1750 x 840 x 1750 mm (68.9" x 33.1" x 68.9")  4  334 W  1140  (B, C, and E series)  rrestance, EU3 rated (built inside (8 different filter types available , bed (8 different filter types availa% at 0.3 microns, removes partice)	1950 x 747 x 1714 mm (76.8" x 29.5" x 67.5")  1880 x 609 x 1019 mm (74.0" x 23.9" x 40")  62 dBA  >700 lux (>65 foot-candles)  293 kg (646 lbs)  398 kg (877 lbs)  2020 x 840 x 1750 mm (79.5" x 33.1" x 68.9")  A  348 W  1187  the carbon filter) codes A-H) able , codes A-H)
Hood Construction Side Walls Tempered Glass Work Top 1.5 mm (0.06") 16 gauge stainless steel, type 304, with 4B finish Upgrades available: Epoxy  Sash Type Vertical Sliding Material Tempered Glass Sloping 3° Work Opening 10" (254 mm)	(W x D x H) Internal Work Ar (W x D x H) Sound Emission Fluorescent Light Net weight Shipping Weight Shipping Dimens Electrical 110-120 VAC, 60 Hz, 10  Standard Filtration Elements Inflow Airflow V	ea  t Intensity  ions  Cabinet Full Load Amps (FLA) Optional Outlets (FLA) Cabinet Nominal Power Cabinet BTU/HR  Gener  Pre-filter Main filter* Secondary Filter (not applicable for B series)	1035 x 736 x 1455 mm (40.7" x 29.0" x 57.3")  965 x 596 x 765 mm (38.0" x 23.5" x 30.1")  61 c  >1115 lux (>104 foot-candles)  175 kg (386 lbs)  216 kg (476 lbs)  1130 x 840 x 1750 mm (44.5" x 33.1" x 68.9")  3.5  269 W 918  ral Specifications, Ascent <sup>TM</sup> Disposable, non-Activated C C Series - Activa	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")  dBA  >1107 lux (>103 foot-candles)  225 kg (496 lbs)  274 kg (604 lbs)  1450 x 840 x 1750 mm (57.1" x 33.1" x 68.9")  5 A  5  313 W  1068  Max Ductless Fume Hood washable polyester fibre, 85% a carbon with Granular Media bed ted Carbon with Granular Media filter, typical efficiency of >99.99  Initial set point: 0	1645 x 736 x 1455 mm (64.8" x 29.0" x 57.3")  1575 x 596 x 765 mm (62.0" x 23.5" x 30.1")  62 dBA  >1107 lux (>103 foot-candles)  245 kg (540 lbs)  335 kg (739 lbs)  1750 x 840 x 1750 mm (68.9" x 33.1" x 68.9")  4  A  334 W  1140  (B, C, and E series)  rrestance, EU3 rated (built inside (8 different filter types available , bed (8 different filter types available , bed (8 different filter types available , at 0.3 microns, removes partic 40 m/s or 80 fpm	1950 x 747 x 1714 mm (76.8" x 29.5" x 67.5")  1880 x 609 x 1019 mm (74.0" x 23.9" x 40")  62 dBA  >700 lux (>65 foot-candles)  293 kg (646 lbs)  398 kg (877 lbs)  2020 x 840 x 1750 mm (79.5" x 33.1" x 68.9")  A  348 W  1187  the carbon filter) codes A-H) able , codes A-H)
Construction  Side Walls Work Top  1.5 mm (0.06") 16 gauge stainless steel, type 304, with 4B finish Upgrades available: Epoxy  Sash Type  Material  Soloping  Work Opening  Mork Opening	(W x D x H) Internal Work Ar (W x D x H) Sound Emission Fluorescent Light Net weight Shipping Weight Shipping Dimens Electrical 110-120 VAC, 60 Hz, 10  Standard Filtration Elements Inflow Airflow V	ea  t Intensity  ions  Cabinet Full Load Amps (FLA) Optional Outlets (FLA) Cabinet Nominal Power Cabinet BTU/HR  Gene  Pre-filter Main filter* Secondary Filter (not applicable for B series) elocity	1035 x 736 x 1455 mm (40.7" x 29.0" x 57.3")  965 x 596 x 765 mm (38.0" x 23.5" x 30.1")  61 c  >1115 lux (>104 foot-candles)  175 kg (386 lbs)  216 kg (476 lbs)  1130 x 840 x 1750 mm (44.5" x 33.1" x 68.9")  3.5  269 W 918  ral Specifications, Ascent <sup>TM</sup> Disposable, non-Activated C C Series - Activa E Series - HEPA	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")  dBA  >1107 lux (>103 foot-candles)  225 kg (496 lbs)  274 kg (604 lbs)  1450 x 840 x 1750 mm (57.1" x 33.1" x 68.9")  6 A  5  313 W  1068  Max Ductless Fume Hood washable polyester fibre, 85% a carbon with Granular Media bed ted Carbon with Granular Media bed ted Carbon with Granular Media filter, typical efficiency of >99.99  Initial set point: 0	1645 x 736 x 1455 mm (64.8" x 29.0" x 57.3")  1575 x 596 x 765 mm (62.0" x 23.5" x 30.1")  62 dBA  >1107 lux (>103 foot-candles)  245 kg (540 lbs)  335 kg (739 lbs)  1750 x 840 x 1750 mm (68.9" x 33.1" x 68.9")  4  A  334 W  1140  (B, C, and E series)  rrestance, EU3 rated (built inside (8 different filter types available , bed (8 different filter types available at 0.3 microns, removes particuted with white oven-baked epocesteel with white oven-baked epoces	1950 x 747 x 1714 mm (76.8" x 29.5" x 67.5")  1880 x 609 x 1019 mm (74.0" x 23.9" x 40")  62 dBA  >700 lux (>65 foot-candles)  293 kg (646 lbs)  398 kg (877 lbs)  2020 x 840 x 1750 mm (79.5" x 33.1" x 68.9")  A  348 W  1187  the carbon filter) codes A-H) les and aerosols
Work Top  1.5 mm (0.06") 16 gauge stainless steel, type 304, with 4B finish Upgrades available: Epoxy  Sash Type  Material  Sloping  Work Opening  1.5 mm (0.06") 16 gauge stainless steel, type 304, with 4B finish Upgrades available: Epoxy  Vertical Sliding  Tempered Glass  3°  Work Opening  10" (254 mm)	(W x D x H) Internal Work Ar (W x D x H) Sound Emission Fluorescent Light Net weight Shipping Weight Shipping Dimens Electrical 110-120 VAC, 60 Hz, 1Ø  Standard Filtration Elements Inflow Airflow Valid Airflow alarm	ea  t Intensity  ions  Cabinet Full Load Amps (FLA) Optional Outlets (FLA) Cabinet Nominal Power Cabinet BTU/HR  Gener  Pre-filter Main filter* Secondary Filter (not applicable for B series) elocity  Main Body	1035 x 736 x 1455 mm (40.7" x 29.0" x 57.3")  965 x 596 x 765 mm (38.0" x 23.5" x 30.1")  61 c  >1115 lux (>104 foot-candles)  175 kg (386 lbs)  216 kg (476 lbs)  1130 x 840 x 1750 mm (44.5" x 33.1" x 68.9")  3.5  269 W 918  ral Specifications, Ascent <sup>TM</sup> Disposable, non-Activated C C Series - Activa E Series - HEPA	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")  dBA  >1107 lux (>103 foot-candles)  225 kg (496 lbs)  274 kg (604 lbs)  1450 x 840 x 1750 mm (57.1" x 33.1" x 68.9")  313 W  1068  Max Ductless Fume Hood ewashable polyester fibre, 85% a carbon with Granular Media bed ted Carbon with Granular Media bed ted Carbon with Granular Media filter, typical efficiency of >99.99  Initial set point: 0	1645 x 736 x 1455 mm (64.8" x 29.0" x 57.3")  1575 x 596 x 765 mm (62.0" x 23.5" x 30.1")  62 dBA  >1107 lux (>103 foot-candles)  245 kg (540 lbs)  335 kg (739 lbs)  1750 x 840 x 1750 mm (68.9" x 33.1" x 68.9")  4  334 W  1140  (B, C, and E series)  rrestance, EU3 rated (built inside (8 different filter types available , bed (8 different filter types available , at 0.3 microns, removes partic 40 m/s or 80 fpm es steel with white oven-baked epoal powder coated finish	1950 x 747 x 1714 mm (76.8" x 29.5" x 67.5")  1880 x 609 x 1019 mm (74.0" x 23.9" x 40")  62 dBA  >700 lux (>65 foot-candles)  293 kg (646 lbs)  398 kg (877 lbs)  2020 x 840 x 1750 mm (79.5" x 33.1" x 68.9")  A  348 W  1187  the carbon filter) codes A-H) les and aerosols
Material         Tempered Glass           Sloping         3°           Work Opening         10" (254 mm)	(W x D x H) Internal Work Ar (W x D x H) Sound Emission Fluorescent Light Net weight Shipping Weight Shipping Dimens Electrical 110-120 VAC, 60 Hz, 10  Standard Filtration Elements Inflow Airflow Valid Airflow alarm Hood	ea  t Intensity  ions  Cabinet Full Load Amps (FLA) Optional Outlets (FLA) Cabinet Nominal Power Cabinet BTU/HR  Gener  Pre-filter Main filter* Secondary Filter (not applicable for B series) elocity  Main Body	1035 x 736 x 1455 mm (40.7" x 29.0" x 57.3")  965 x 596 x 765 mm (38.0" x 23.5" x 30.1")  61 c  >1115 lux (>104 foot-candles)  175 kg (386 lbs)  216 kg (476 lbs)  1130 x 840 x 1750 mm (44.5" x 33.1" x 68.9")  3.5  269 W 918  ral Specifications, Ascent <sup>TM</sup> Disposable, non- Activated C C Series - Activa E Series - HEPA	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")  dBA  >1107 lux (>103 foot-candles)  225 kg (496 lbs)  274 kg (604 lbs)  1450 x 840 x 1750 mm (57.1" x 33.1" x 68.9")  6 A  5  313 W  1068  Max Ductless Fume Hood  washable polyester fibre, 85% a Carbon with Granular Media bed ted Carbon with Granular Media filter, typical efficiency of >99.99  Initial set point: 0  Ya  15") 18 gauge electro-galvanized ISOCIDE™ antimicrobi  Tempere	1645 x 736 x 1455 mm (64.8" x 29.0" x 57.3")  1575 x 596 x 765 mm (62.0" x 23.5" x 30.1")  62 dBA  >1107 lux (>103 foot-candles)  245 kg (540 lbs)  335 kg (739 lbs)  1750 x 840 x 1750 mm (68.9" x 33.1" x 68.9")  4  A  334 W  1140  (B, C, and E series)  rrestance, EU3 rated (built inside (8 different filter types available , bed (8 different filter types available	1950 x 747 x 1714 mm (76.8" x 29.5" x 67.5")  1880 x 609 x 1019 mm (74.0" x 23.9" x 40")  62 dBA  >700 lux (>65 foot-candles)  293 kg (646 lbs)  398 kg (877 lbs)  2020 x 840 x 1750 mm (79.5" x 33.1" x 68.9")  A  348 W  1187  the carbon filter) codes A-H) les and aerosols
Sash         Sloping         3°           Work Opening         10" (254 mm)	(W x D x H) Internal Work Ar (W x D x H) Sound Emission Fluorescent Light Net weight Shipping Weight Shipping Dimens Electrical 110-120 VAC, 60 Hz, 10  Standard Filtration Elements Inflow Airflow Valid Airflow alarm Hood	ea  t Intensity  ions  Cabinet Full Load Amps (FLA) Optional Outlets (FLA) Cabinet Nominal Power Cabinet BTU/HR  Gene  Pre-filter Main filter* Secondary Filter (not applicable for B series) elocity  Main Body Side Walls	1035 x 736 x 1455 mm (40.7" x 29.0" x 57.3")  965 x 596 x 765 mm (38.0" x 23.5" x 30.1")  61 c  >1115 lux (>104 foot-candles)  175 kg (386 lbs)  216 kg (476 lbs)  1130 x 840 x 1750 mm (44.5" x 33.1" x 68.9")  3.5  269 W 918  ral Specifications, Ascent <sup>TM</sup> Disposable, non- Activated C C Series - Activa E Series - HEPA	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")  dBA  >1107 lux (>103 foot-candles)  225 kg (496 lbs)  274 kg (604 lbs)  1450 x 840 x 1750 mm (57.1" x 33.1" x 68.9")  6 A  5  313 W  1068  Max Ductless Fume Hood  washable polyester fibre, 85% a carbon with Granular Media bed ted Carbon with Granular Media bed ted Carbon with Granular Media filter, typical efficiency of >99.99  Initial set point: 0  Your Standard Media Set point: 0  Your St	1645 x 736 x 1455 mm (64.8" x 29.0" x 57.3")  1575 x 596 x 765 mm (62.0" x 23.5" x 30.1")  62 dBA  >1107 lux (>103 foot-candles)  245 kg (540 lbs)  335 kg (739 lbs)  1750 x 840 x 1750 mm (68.9" x 33.1" x 68.9")  4  334 W  1140  (B, C, and E series)  rrestance, EU3 rated (built inside (8 different filter types available , bed (8 different filter types available , at 0.3 microns, removes partic 40 m/s or 80 fpm es steel with white oven-baked epoal powder coated finish ed Glass ess steel, type 304, with 4B finish	1950 x 747 x 1714 mm (76.8" x 29.5" x 67.5")  1880 x 609 x 1019 mm (74.0" x 23.9" x 40")  62 dBA  >700 lux (>65 foot-candles)  293 kg (646 lbs)  398 kg (877 lbs)  2020 x 840 x 1750 mm (79.5" x 33.1" x 68.9")  A  348 W  1187  the carbon filter) codes A-H) les and aerosols
Work Opening 10" (254 mm)	(W x D x H) Internal Work Ar (W x D x H) Sound Emission Fluorescent Light Net weight Shipping Weight Shipping Dimens Electrical 110-120 VAC, 60 Hz, 10  Standard Filtration Elements Inflow Airflow Valid Airflow alarm Hood	ea  t Intensity  ions  Cabinet Full Load Amps (FLA) Optional Outlets (FLA) Cabinet Nominal Power Cabinet BTU/HR  Gener  Pre-filter Main filter* Secondary Filter (not applicable for B series) elocity  Main Body Side Walls Work Top	1035 x 736 x 1455 mm (40.7" x 29.0" x 57.3")  965 x 596 x 765 mm (38.0" x 23.5" x 30.1")  61 c  >1115 lux (>104 foot-candles)  175 kg (386 lbs)  216 kg (476 lbs)  1130 x 840 x 1750 mm (44.5" x 33.1" x 68.9")  3.5  269 W 918  ral Specifications, Ascent <sup>TM</sup> Disposable, non- Activated C C Series - Activa E Series - HEPA	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")  dBA  >1107 lux (>103 foot-candles)  225 kg (496 lbs)  274 kg (604 lbs)  1450 x 840 x 1750 mm (57.1" x 33.1" x 68.9")  6 A  5  313 W  1068  Max Ductless Fume Hood e-washable polyester fibre, 85% a carbon with Granular Media bed ted Carbon with Granular Media bed ted Carbon with Granular Media filter, typical efficiency of >99.99  Initial set point: 0  Your Standard Media Set (150 mm) (55") 18 gauge electro-galvanized ISOCIDETM antimicrobic Temperon 1.5 mm (0.06") 16 gauge stainled Upgrades available of the standard set (150 mm) (0.06") 16 gauge stainled Upgrades available upgrades av	1645 x 736 x 1455 mm (64.8" x 29.0" x 57.3")  1575 x 596 x 765 mm (62.0" x 23.5" x 30.1")  62 dBA  >1107 lux (>103 foot-candles)  245 kg (540 lbs)  335 kg (739 lbs)  1750 x 840 x 1750 mm (68.9" x 33.1" x 68.9")  4  A  334 W  1140  (B, C, and E series)  rrestance, EU3 rated (built inside (8 different filter types available , bed (8 different filter types available , at 0.3 microns, removes partic 40 m/s or 80 fpm es steel with white oven-baked epoal powder coated finish ed Glass ess steel, type 304, with 4B finish ailable: Epoxy	1950 x 747 x 1714 mm (76.8" x 29.5" x 67.5")  1880 x 609 x 1019 mm (74.0" x 23.9" x 40")  62 dBA  >700 lux (>65 foot-candles)  293 kg (646 lbs)  398 kg (877 lbs)  2020 x 840 x 1750 mm (79.5" x 33.1" x 68.9")  A  348 W  1187  the carbon filter) codes A-H) les and aerosols
	(W x D x H) Internal Work Ar (W x D x H) Sound Emission Fluorescent Light Net weight Shipping Weight Shipping Dimens Electrical 110-120 VAC, 60 Hz, 10  Standard Filtration Elements Inflow Airflow Valid Airflow alarm Hood	ea  t Intensity  ions  Cabinet Full Load Amps (FLA) Optional Outlets (FLA) Cabinet Nominal Power Cabinet BTU/HR  Fre-filter Main filter* Secondary Filter (not applicable for B series) elocity  Main Body Side Walls Work Top Sash Type	1035 x 736 x 1455 mm (40.7" x 29.0" x 57.3")  965 x 596 x 765 mm (38.0" x 23.5" x 30.1")  61 c  >1115 lux (>104 foot-candles)  175 kg (386 lbs)  216 kg (476 lbs)  1130 x 840 x 1750 mm (44.5" x 33.1" x 68.9")  3.5  269 W 918  ral Specifications, Ascent <sup>TM</sup> Disposable, non- Activated C C Series - Activa E Series - HEPA	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")  dBA  >1107 lux (>103 foot-candles)  225 kg (496 lbs)  274 kg (604 lbs)  1450 x 840 x 1750 mm (57.1" x 33.1" x 68.9")  6 A  5  313 W  1068  Max Ductless Fume Hood e-washable polyester fibre, 85% a carbon with Granular Media bed ted Carbon with Granular Media bed ted Carbon with Granular Media filter, typical efficiency of >99.99  Initial set point: 0  Your Standard Media Set of S	1645 x 736 x 1455 mm (64.8" x 29.0" x 57.3")  1575 x 596 x 765 mm (62.0" x 23.5" x 30.1")  62 dBA  >1107 lux (>103 foot-candles)  245 kg (540 lbs)  335 kg (739 lbs)  1750 x 840 x 1750 mm (68.9" x 33.1" x 68.9")  4  A  334 W  1140  (B, C, and E series)  rrestance, EU3 rated (built inside (8 different filter types available, bed (8 different filter types available, which is at 0.3 microns, removes particulation of the control of the contro	1950 x 747 x 1714 mm (76.8" x 29.5" x 67.5")  1880 x 609 x 1019 mm (74.0" x 23.9" x 40")  62 dBA  >700 lux (>65 foot-candles)  293 kg (646 lbs)  398 kg (877 lbs)  2020 x 840 x 1750 mm (79.5" x 33.1" x 68.9")  A  348 W  1187  the carbon filter) codes A-H) les and aerosols
Max. Opening 17.3" (440 mm)	Internal Work Ar (W x D x H) Internal Work Ar (W x D x H) Sound Emission Fluorescent Light Net weight Shipping Weight Shipping Dimens Electrical 110-120 VAC, 60 Hz, 10  Standard Filtration Elements Inflow Airflow Vaniflow alarm Hood Construction	ea  t Intensity  ions  Cabinet Full Load Amps (FLA) Optional Outlets (FLA) Cabinet Nominal Power Cabinet BTU/HR  Fre-filter Main filter* Secondary Filter (not applicable for B series) elocity  Main Body Side Walls Work Top Sash Type Material	1035 x 736 x 1455 mm (40.7" x 29.0" x 57.3")  965 x 596 x 765 mm (38.0" x 23.5" x 30.1")  61 c  >1115 lux (>104 foot-candles)  175 kg (386 lbs)  216 kg (476 lbs)  1130 x 840 x 1750 mm (44.5" x 33.1" x 68.9")  3.5  269 W 918  ral Specifications, Ascent <sup>TM</sup> Disposable, non- Activated C C Series - Activa E Series - HEPA	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")  dBA  >1107 lux (>103 foot-candles)  225 kg (496 lbs)  274 kg (604 lbs)  1450 x 840 x 1750 mm (57.1" x 33.1" x 68.9")  6 A  5  313 W  1068  Max Ductless Fume Hood  washable polyester fibre, 85% a carbon with Granular Media bed ted Carbon with Granular Media filter, typical efficiency of >99.99  Initial set point: 0  You have been been been been been been been be	1645 x 736 x 1455 mm (64.8" x 29.0" x 57.3")  1575 x 596 x 765 mm (62.0" x 23.5" x 30.1")  62 dBA  >1107 lux (>103 foot-candles)  245 kg (540 lbs)  335 kg (739 lbs)  1750 x 840 x 1750 mm (68.9" x 33.1" x 68.9")  4  A  334 W  1140  (B, C, and E series)  rrestance, EU3 rated (built inside (8 different filter types available , bed (8 different filter types available , bed (8 different filter types available at 0.3 microns, removes partic 40 m/s or 80 fpm es steel with white oven-baked epocal powder coated finish ed Glass ess steel, type 304, with 4B finish silable: Epoxy Sliding ed Glass	1950 x 747 x 1714 mm (76.8" x 29.5" x 67.5")  1880 x 609 x 1019 mm (74.0" x 23.9" x 40")  62 dBA  >700 lux (>65 foot-candles)  293 kg (646 lbs)  398 kg (877 lbs)  2020 x 840 x 1750 mm (79.5" x 33.1" x 68.9")  A  348 W  1187  the carbon filter) codes A-H) les and aerosols
	Internal Work Ar (W x D x H) Internal Work Ar (W x D x H) Sound Emission Fluorescent Light Net weight Shipping Weight Shipping Dimens Electrical 110-120 VAC, 60 Hz, 10  Standard Filtration Elements Inflow Airflow Vaniflow alarm Hood Construction	ea  t Intensity  ions  Cabinet Full Load Amps (FLA) Optional Outlets (FLA) Cabinet Nominal Power Cabinet BTU/HR  Gener  Pre-filter Main filter* Secondary Filter (not applicable for B series) elocity  Main Body Side Walls Work Top Sash Type Material Sloping	1035 x 736 x 1455 mm (40.7" x 29.0" x 57.3")  965 x 596 x 765 mm (38.0" x 23.5" x 30.1")  61 c  >1115 lux (>104 foot-candles)  175 kg (386 lbs)  216 kg (476 lbs)  1130 x 840 x 1750 mm (44.5" x 33.1" x 68.9")  3.5  269 W 918  ral Specifications, Ascent <sup>TM</sup> Disposable, non- Activated C C Series - Activa E Series - HEPA	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")  dBA  >1107 lux (>103 foot-candles)  225 kg (496 lbs)  274 kg (604 lbs)  1450 x 840 x 1750 mm (57.1" x 33.1" x 68.9")  6 A  5  313 W  1068  Max Ductless Fume Hood e-washable polyester fibre, 85% a carbon with Granular Media bed ted Carbon with Granular Media filter, typical efficiency of >99.99  Initial set point: 0  Yes (55") 18 gauge electro-galvanized ISOCIDE™ antimicrobi Tempere 1.5 mm (0.06") 16 gauge stainle Upgrades ava Vertical Tempere	1645 x 736 x 1455 mm (64.8" x 29.0" x 57.3")  1575 x 596 x 765 mm (62.0" x 23.5" x 30.1")  62 dBA  >1107 lux (>103 foot-candles)  245 kg (540 lbs)  335 kg (739 lbs)  1750 x 840 x 1750 mm (68.9" x 33.1" x 68.9")  4  A  334 W  1140  (B, C, and E series)  rrestance, EU3 rated (built inside (8 different filter types available, bed (8 different filter types available of the distribution o	1950 x 747 x 1714 mm (76.8" x 29.5" x 67.5")  1880 x 609 x 1019 mm (74.0" x 23.9" x 40")  62 dBA  >700 lux (>65 foot-candles)  293 kg (646 lbs)  398 kg (877 lbs)  2020 x 840 x 1750 mm (79.5" x 33.1" x 68.9")  A  348 W  1187  the carbon filter) codes A-H) les and aerosols



#### Support Stands



#### • Support Stand with Caster Wheels (STC)

- Nominal range 660 mm to 880 mm (26" to 34.6")
- Adjustable in 25.4 mm (1") increments.
- Durable polyurethane caster wheels with 360 degree horizontal rotation.
- Brake system on front wheels.
- Maximum weight supported: 600 kg (1323 lbs)



#### Support Stand with Leveling Feet (STL)

- Nominal range 26" to 36" or 660 mm to 914 mm.
- Maximum weight supported: 600 kg (1323 lbs)



#### • Base Cabinet with Caster Wheels (BCC)

- Maximizes storage space in the laboratory; convenient for solvents, acids and other laboratory chemicals.
- Includes an adjustable white powder-coated steel
- Industrial-grade support structure constructed of electro-galvanized steel and abrasion resistant ovenbaked powder-coated finish
- Durable polyurethane caster wheels with 360 degree horizontal rotation
- Brake system on front wheels

#### **Electrical Outlets and Utility Fittings**



#### Electrical Outlets

- Direct-mounted, Optional EO-HA Single Electrical Outlet.
- May be field installed.
- Maximum current draw: 5 Amp for all outlets combined



#### VOC Sensor

- Optional VOC Sensor may be installed to monitor the chemical concentration at the hood exhaust.
- The microprocessor control will activate audible / visual alarms if high concentrations of chemical vapors are detected.



#### • Factory-Installed Service Fixtures

- Polypropylene drip-cup sink.
- Epoxy coated swan-neck faucet.
- Factory installed; specify when ordering.



#### Retrofit Kit<sup>™</sup> Service Fixtures

- Universal service fixtures for air / water / vacuum / gas.
- May be field installed.

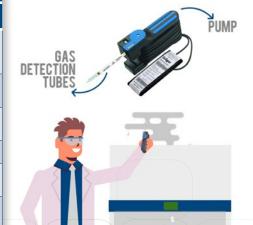
- Maximum weight supported: 600kg (1323 lbs)					
Nanocarb™ Filter Options					
Code Name Suitable Applications		Suitable Applications			
A	Standard Filter  All common laboratory chemicals, especially with organics. specific requirements are present, or when more than one t is used.				
		· · · · · · · · · · · · · · · · · · ·			

A	Standard Filter	specific requirements are present, or when more than one type of chemical is used.
В	Acid Filter	Applications involving sulphur dioxide, hydrofluoric acid fumes. Removes inorganic / organic acid vapors and fumes.
C	Mercury Compounds Filter Highly effective for removal of mercury vapor and compounds. (Stanon-volatile mercuric sulphide filter media).	
D	Sulphur Compounds Filter	Removal of sulphur compounds.
E	Halogen Compounds Filter	Removal of halogen compounds like Chlorine, Fluorine, Iodine, Bromine, Astatine etc.
F	Aldehyde Filter	Formaldehyde applications or when aldehydes are present. Hospital

G	Ammonia / Amines Filter	High performance removal of ammonia/amines by chemisorption.
Н	Chloroform / Ether	Removal of Chloroform, Isoflurane and various types of Ether compounds

pathology and endoscopy applications.

HEPA filter with a typical efficiency of 99.99% removes particulates and Optional HEPA Filter aerosols. Ductless fume hoods with HEPA filters are suitable for cleanroom (ADC-\_E\_ Models Only) applications, or may be used as a Class I Biological Safety Cabinet.



Check the carbon filter absorption every 3 months by using gas detection tubes or portable chemical sensor, and ensure that the chemical ppm above cabinet filter is below OSHA PEL limit.



Aldehyde Filter

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

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