



*VIVA® Dual Access Animal Containment Workstation,
Model VDA-4A_*



*VIVA® Universal Animal Containment Workstation,
Model VA2-4S_G4 12"*



*VIVA® Bedding Disposal Animal Containment Workstation,,
Model VBD-4A_*

VIVA® Animal Research Workstations

The Portable Safety Solution for Animal Research Laboratories





Airflow Sensor

- Real-time airflow monitoring system
- Alerts the user if the airflow is insufficient

Sentinel™ Gold Microprocessor Controller

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



Easy-to-clean Work Surface and Drain pan

- Two-piece, easy-to-lift stainless steel tray
- Drain hole on both sides to dump animal bedding



Easy Work Access

- Large access opening of 344 mm (14")
- Accommodates rat and mouse cages
- Hinged up for easy cleaning



Advanced Work Tray Design

- V-shaped grill to avoid blocking
- Center grill to separate clean and contaminated area
- Large tray handle for easy lifting



Comfortable Leg Room

- 10" leg room on both sides
- Reduces user's fatigue when in sitting position
- Hydraulic motor to adjust the height



VIVA® Dual Access Animal Containment Workstation, Model VDA-A. Available in 4' and 5' models.

Accessories and Options

Contact Esco or your Esco Sales Representative for details.

- Electrical Outlets
- Feed Hopper
- Foldable Side Tray
- Service Fixtures
- Side Shield



Side Shield



Feed Hopper



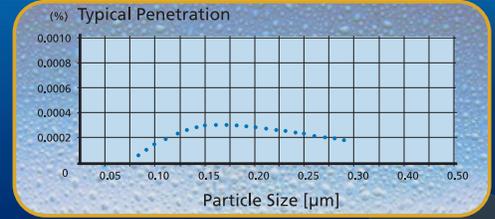
ELISA Proven Containment

- Provides >99% allergen containment to ensure user's safety



ULPA Filter

- 10x filtration efficiency than of HEPA filter
- Creates an ISO Class 3 work-zone instead of the industry-standard ISO Class 5



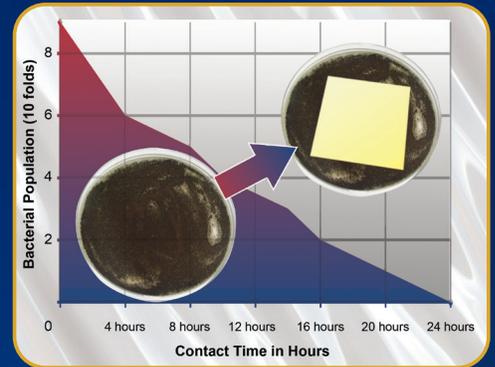
Quiet Operation

- Comfortable low noise emission at 53 for the users and animals



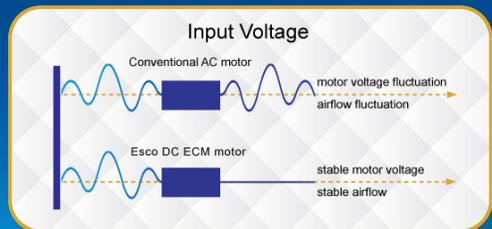
Isocide™ Antimicrobial Coating

- Silver-ion impregnated powder coat
- Inhibits the microbial growth to improve safety



Dual Energy-efficient DC ECM Blower

- Powered by the latest generation DC ECM that is more efficient than legacy ECM and VFD motors
- 70% Energy savings compared to AC motor
- Stable airflow despite building voltage fluctuations & filter loading



Standards Compliance	Air Quality	Filtration	Electrical Safety
	ISO 14644.1, Class 3, Worldwide JIS B9920, Class 3, Japan JIS B55295, Class 3, Japan US Fed Std 209E, Class 1 USA	EN-1822 (H14), Europe IEST-RP-CC001.3, USA IEST-RP-CC007, USA IEST-RP-CC034.1, USA	UL-61010A-1, USA CSA22.2, No.1010-192, Canada EN61010-1, Europe IEC61010-1, International



Airflow Sensor

- Monitors real-time airflow for safety
- Alerts the user if airflow is insufficient

USB Port and Zero Volt Relay Contact

- USB Port to send operational information to Building Management System (BMS)
- Zero Volt Relay Contact to turn ON/OFF exhaust blower and signal the building alarm



Centurion 7" Capacitive Touchscreen Controller

- Displays all safety information on one large screen
- Shows cabinet parameters with intuitive 3D illustration
- Easy to use menu, similar to Smart Phone Apps
- Large buttons, easy to operate when wearing gloves
- Self-guidance to users to deal with specific situations
- Centered and angled down for easy reach and viewing



Single Piece Wall

- Easy to reach service fixtures and electrical outlets on sidewalls
- Large radius corners for easy cleaning



User-friendly Work Tray

- Largest useable area in the market
- Recessed to contain spillage
- Sloped perimeter for easy cleaning
- Large, easy to clean tray handle



Raised Arm Rest

- Prevent grille blocking
- Comfortable working posture
- Durable stainless steel construction



Ergonomic Work Zone

- 10° angle to optimize user comfort, reduce glare, and maximize reach into the work area
- Brightly illuminated with 93 ft-candles
- Industry-leading dimmable LED for optimum work comfort
- Airtight seal port for cable/tube exit protected by a negative pressure side wall
- 12" sash working height for mouse and rat cages

Available in 4', 5', and 6' models.



Dander Pre-filter Rack

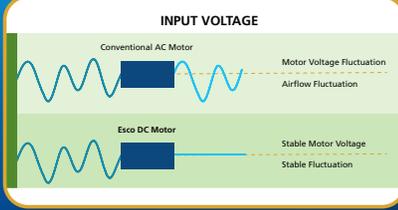
- Captures animal dander
- Easy to replace pre-filter
- Prolongs ULPA filter life



FEATURING ADVANCED TOUCHSCREEN CONTROLLER

Energy-efficient DC ECM Blower

- The leading energy-efficient Class II Type A2 Biosafety Cabinet in the world with 70% energy savings compared to AC motor
- Stable airflow despite building voltage fluctuations and filter loading
- Standby mode to further reduce power consumption by 80%



Advanced ULPA Filtration System

- 10x Filtration efficiency of HEPA filter
 - Creates ISO Class 3 work zone instead of industry-standard ISO Class 5
 - Same 10 years filter life and replacement cost as HEPA filters
- Note:
- 99.999% at 0.1 to 0.3 micron, ULPA as per IEST-RP-CC001.3 USA
 - 99.999% at MPPS, H14 as per EN 1822 EU



Dimmable LED Lamp

- Save energy and optimize work comfort



User Modified Pass-Through / Cable Port

- 3" Port with 1/4" hole on rubber membrane inside
- Surrounded by negative pressure
- Allows cables and tubes to exit with fully closed sash

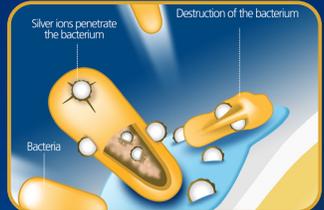


Removable Paper Catch

- Prevent objects from being pulled into blower plenum
- Removable for easy cleaning

Tray Support Beams

- Support work tray evenly for less vibration
- Cleaning holder to easily wipe the drain pan



Isocide™ Powder Coat

- Silver-ion impregnated powder coat
- Inhibits microbial growth to improve safety
- Prevents the plenum from becoming biohazard landfill

ELISA Proven Containment

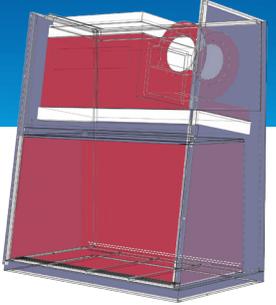
- Provides >99% allergen containment.
- Ensures user's safety



Dynamic Chamber™

- Blower plenum and side walls are surrounded by negative pressure
- Prevent contaminants from escaping outside

■ Positive Pressure
■ Negative Pressure



Certification

	Performance	Air Quality	Filtration	Electrical Safety
Standards Compliance	NSF / ANSI 49, USA*	ISO 14644.1, Class 3, Worldwide US Fed Std 209E, Class 1 USA JIS B9920, Class 3, Japan	EN-1822 (H14), Europe IEST-RP-CC001, USA	UL 61010-1 3rd Ed, USA CSA22.2, No.1010-192, Canada IEC61010-1, Worldwide

* The NSF / ANSI 49 certified models are VA2-4S_ G4 and VA2-6S_ G4



Sentinel™ Silver Microprocessor Controller

- Displays all safety information on one screen
- Centered and angled down for easy reach & viewing



Bang Bars

- Increases efficiency of bedding disposal operations



Integrated Waste Chute

- Disposes refuse bag safely within the work-zone



Airflow Sensor

- Real-time airflow monitoring system
- Alerts the user if the airflow is insufficient



VIVA® Bedding Disposal Animal Containment Workstation, Model VBD-4A_ Available in 4' model only.

User and Environment Protection

The VIVA Bedding Disposal Workstation provides operator and environment protection User animal allrgen.

Exclusive hydraulic height-adjustable stand

Allows the work surface height to be adjusted to user preference, therefore minimizing strain during repetitive operations.



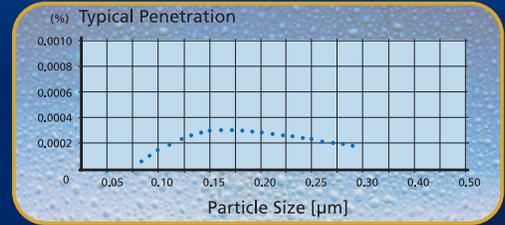
Carbon Filter

- Nanocarb activated carbon filter to remove unpleasant odors



ULPA Filter

- 10x filtration efficiency than of HEPA filter
- Creates an ISO Class 3 work-zone instead of the industry-standard ISO Class 5



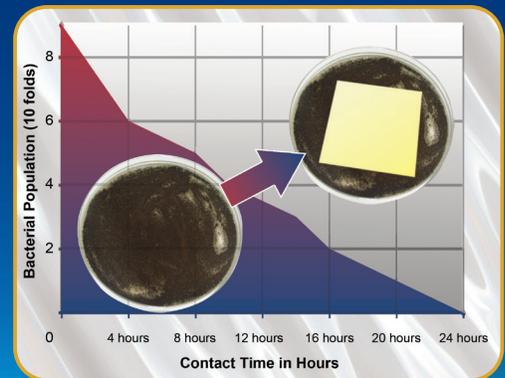
ELISA-proven Containment

- Provides >99% allergen containment to ensure user's safety



Isocide™ Antimicrobial Coating

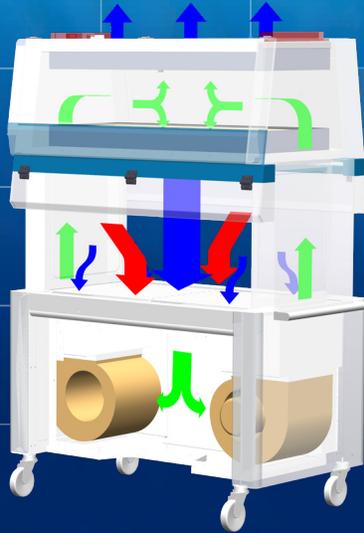
- Silver-ion impregnated powder coat
- Inhibits the microbial growth to improve safety



Standards Compliance	Filtration	Electrical Safety
	EN-1822 (H14), Europe IEST-RP-CC001.3, USA IEST-RP-CC007, USA IEST-RP-CC034.1, USA	UL61010-1, USA

AIRFLOW PATTERN

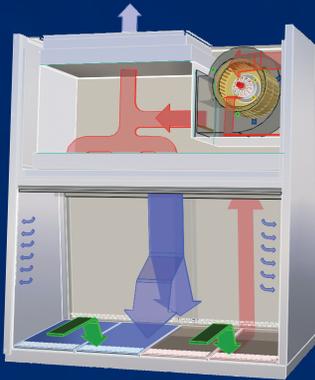
VDA Cabinet Airflow System



- The VDA Dual Access Workstation employs a recirculating airflow configuration for better filtration efficiency.
- The blower system pulls ambient intake air through the front grilles, creating inflow that provides operator protection from allergen inside the work-zone. An activated carbon pre-filter removes unpleasant odors
- Air flows through the common plenum on top of the cabinet. A portion of it goes up through ULPA filter as exhaust to create inflow. The remaining portion goes down through ULPA supply filter and bathes the work-zone in clean laminar air with a non-turbulent downflow.
- The combination of vertical laminar inflow and downflow creates an air curtain to protect the user from contaminants released from the work surface.

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

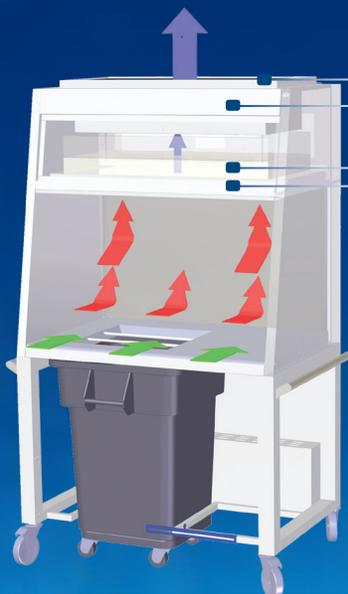
VA2 Cabinet Airflow System



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

- Ambient air pulled through the perforations towards the work-zone front prevents contamination of the work surface and work product. The inflow does not mix with the clean air within the cabinet work-zone. Inflow air travels through a return path towards the common air plenum (blower plenum) at the top of the cabinet.
- Approximately 40% of the air in the common plenum is exhausted through the ULPA filter to the room. The remaining 60% of the air is passed through the downflow ULPA filter and into the work area as a vertical laminar flow air stream bathing the work surface in clean air.
- The uniform, non-turbulent air stream protects against cross-contamination within and throughout the work area.
- Near the work surface, the ULPA-filtered downflow air stream splits with a portion moving toward the front air grille, and the remainder moving to the rear air grille. A small portion of the downflow enters the side capture zones at a higher velocity (small blue arrows).
- A combination of inflow and downflow air streams form an air barrier that prevents contaminated room air from entering the work-zone, and prevents work surface emissions from escaping the work-zone.

VBD Cabinet Airflow System



- Carbon Filter
- Blower
- Exhaust ULPA Filter
- Pre-filter

- Room air is drawn in across the front of the cabinet with an average velocity of 0.35 m/s (70 fpm).
- Air is drawn up through the cabinet's work-zone and forced through the ULPA filter (>99.999% typical efficiency for 0.1 to 0.3 micron sized particles).
- The full work-zone ceiling extraction system ensures airflow uniformity throughout the cabinet's main chamber.
- The ULPA filtered air then returns to the laboratory stripped of all airborne contaminants and odor.

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

General Specifications, VIVA® Dual Access Animal Containment Workstation, Model VDA

Model		VDA-4A (2080025)	VDA-5A (2080028)
External Dimensions (W x D x H)		52.8" x 30.0" x 77.2" min height 52.8" x 30.0" x 88.4" max height	64.7" x 30.0" x 77.2" min height 64.7" x 30.0" x 88.4" max height
Internal Work Area (W x D x H)		43.3" x 18.3" x 22.2"	55.3" x 18.3" x 22.2"
Downflow Velocity		47 fpm	
Pre-Filter		Disposable and non-washable polyester fibres with 85% arrestance / EU3 rated	
ULPA Filter Typical Efficiency		>99.999% for particle size between 0.1 to 0.3 microns, per IEST-RP-CC001.3	
Sound Emission per EN 12469*		53 dBA	54 dBA
LED Lamp Intensity		160 foot candles	142 foot candles
Construction, Main Body		0.06" 16 gauge EG Steel with Isocide™ Oven-Baked Epoxy-Polyester Powder Coated Finish	
Electrical Rating		110-130 VAC, 50 / 60 Hz, 1Ø	
Power Consumption		210 W	250 W
Accessories	Foldable Side Tray (SS Shelf Kit)	VDA-001 5170257	
	Side Shield	VDA-004 5170562	VDA-005 5170563
	Feed Hopper	VDA-006 5170594	
Shipping Dimensions, Maximum (W x D x H)		1720 x 820 x 2240 mm (67.7" x 32.2" x 88.1")	79.7" x 32.2" x 88.1"
Shipping Weight		(754 lbs)	952 lbs
Shipping Volume, Maximum		111.6 cu.ft.	131.4 cu.ft.

* Noise as measured in an open field / anechoic chamber.

** Electrical power consumption is a measurement of new unit within nominal set point. Result may vary due to several independent variables





Side Shield



Feed Hopper



EO-GFCI



IV-



MEWREST



FT-REST

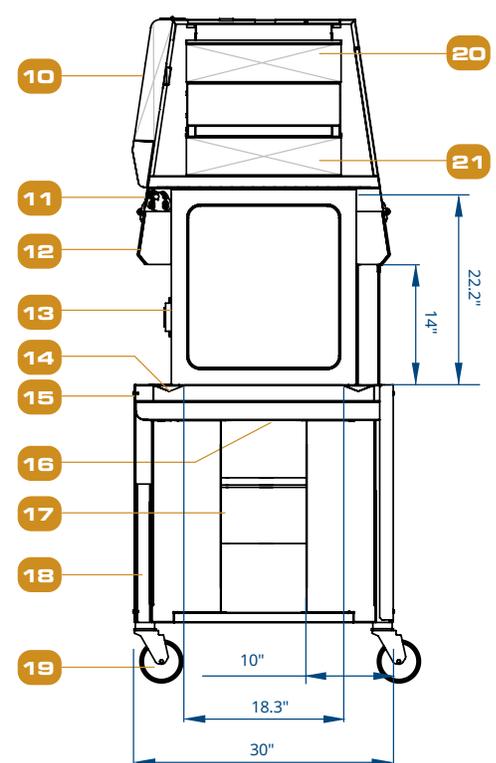
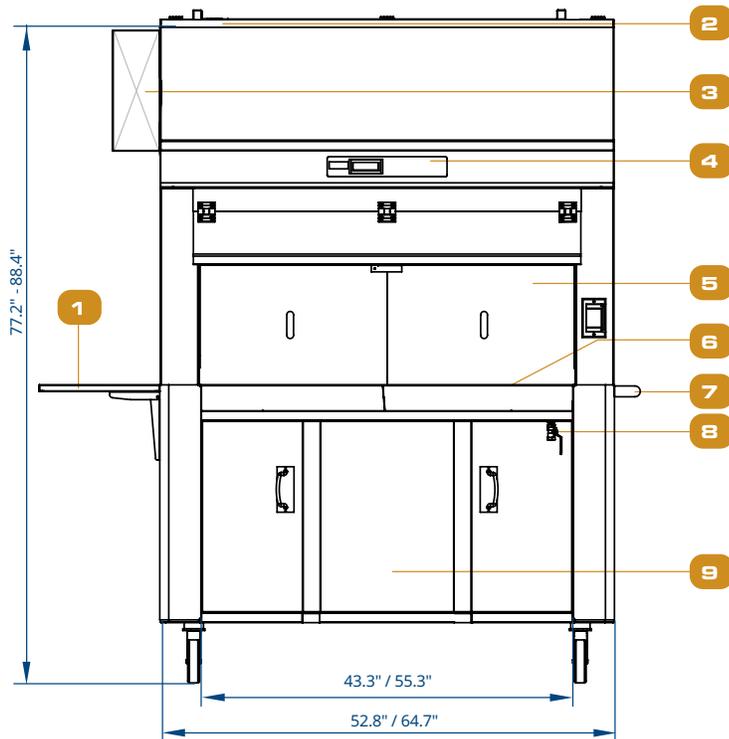


ME-LD-AR360



IQOQ

Engineering Drawing



1. Foldable Side Tray
2. Airflow Sensor
3. Retractable Cord Reel (30 ft)
4. Sentinel™ Gold Microprocessor Control System
5. Optional Side Shield
6. Stainless Steel Work Top
7. Push Handle
8. Drain Valve

9. Knee Space (10" Deep) at both sides
10. Electrical Panel
11. LED Lamps (1 on each side)
12. Hinged Polycarbonate Window
13. GFCI Electrical Outlets with Dip Proof Cover (1 on each right side)
14. Recessed Air Intake Grill
15. Arm Rest

16. Impregnated Activated Carbon Pre-filter
17. DC ECM Blower (Self-compensating and Low Noise)
18. Electric Hydraulic Height Adjustor
19. Caster Wheels
20. Exhaust ULPA/H14 Filter
21. Downflow ULPA/H14 Filter

General Specifications, VIVA® VA2 Class II Type A2 Animal BSC

Model	110 - 120 V 50/60Hz	VA2-4S9 G4 12" (2011862)	VA2-5S9 G4 12" (2011864)	VA2-6S9 G4 12" (2011866)
Nominal Size		4'	5'	6'
External dimensions with SLC support stand at minimum height (W x D x H)**		58.5" x 36.2" x 77.6"-101.6"	70.6" x 36.2" x 77.6"-101.6"	82.6" x 36.2" x 77.6"-101.6"
Internal work area, dimensions (W x D x H)		48.0" x 24.6" x 28.3"	60.0" x 24.6" x 28.3"	72.0" x 24.6" x 28.3"
Working Area		6.8 sq.ft	8.5 sq.ft	10.3 sq.ft
Maximum sash opening		22.6"		
Working Opening		12"		
Average airflow velocity	Inflow	105 fpm		
	Downflow	60 fpm	70 fpm	70 fpm
Airflow volume	Inflow / exhaust without ducting	420 cfm	525 cfm	630 cfm
	Downflow	461 cfm	662 cfm	794 cfm
	Required exhaust with optional thimble exhaust collar	445 cfm	542 cfm	667 cfm
ULPA Filter typical efficiency		>99.999% at 0.1 to 0.3 micron, ULPA as per IEST-RP-CC001.3 USA >99.999% at MPPS, H14 as per EN 1822 EU		
Sound emission per NSF / ANSI 49***		60 dBA	65 dBA	65.9 dBA
LED Lamp Intensity		93 foot-candles		
Cabinet construction	Main body	Electro-galvanized steel with white oven-baked epoxy-polyester Isocide™ antimicrobial powder-coated finish, 0.06" / 16 gauge thick		
	Workzone	Stainless steel type 304 with no.4 finish, 0.06" / 16 gauge thick		
	Sash Window	6 mm UV-absorbing Tempered Glass		
Electrical Rating ****	Nominal Power	240 W	380 W	537 W
	Heat Load	819 BTU/Hr	1570 BTU/Hr	1832 BTU/Hr
	Cabinet FLA exclude 5A EO	10 A	15 A	15 A
Net weight cabinet including stand		633 lbs	840 lbs	882 lbs
Shipping weight Cabinet including stand		722 lbs	968 lbs	1116 lbs
Shipping dimensions, maximum (W x D x H) cabinet excluding stand		58.7" x 37.4" x 83.5"	76.8" x 37.4" x 83.5"	86.6" x 37.4" x 83.5"
Shipping volume, excluding stand		105.9 cu. ft.	137.7 cu. ft.	155.4 cu. ft.

*Only VA2-4S_ G4 12" and VA2-6S_ G4 12" are the NSF-certified models.

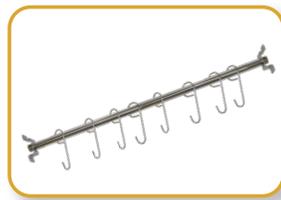
**Depth with arm rest removed: 815 mm (32.1") without SLC stand and 852mm (33.5") with SLC stand

***Noise as measured in open field / anechoic chamber. Noise reading in normal room varies by room size, layout, and background noise, but may reach roughly 3-4 dBA above these values.

**** Electrical power consumption is a measurement of new unit within nominal set point. Result may vary due to several independent variables.



UV_A-L



IV_



EO-GFCI



SF-2U_



SLC



SS Pipette Storage Shelf



MEWREST



FT-REST

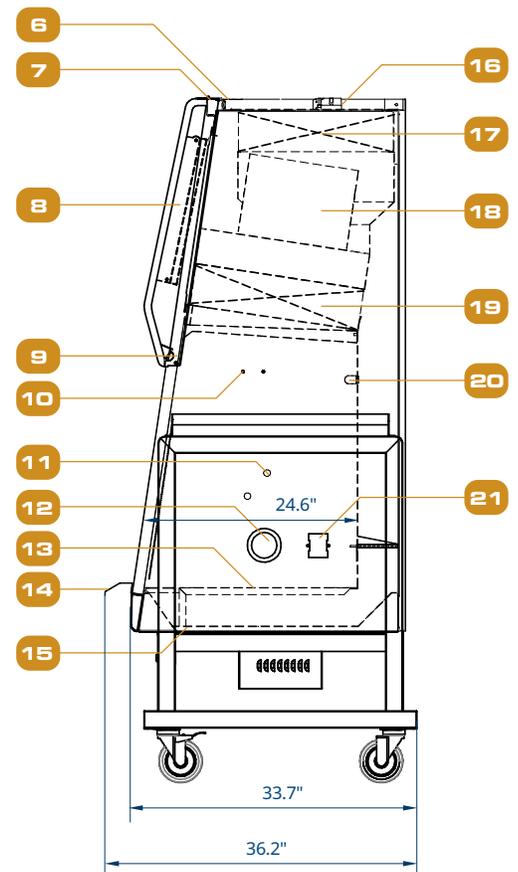
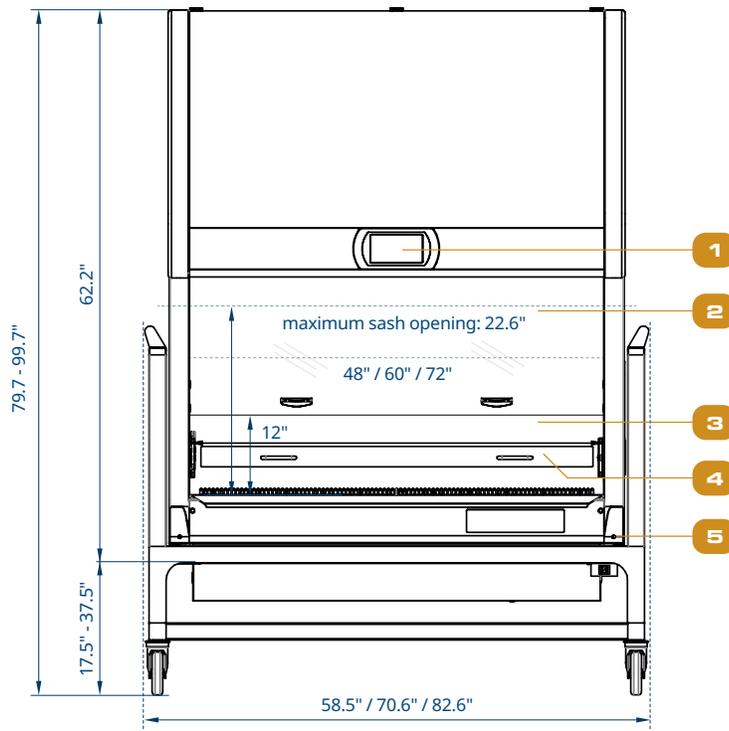


ME-LD-AR360



IQOQ

Engineering Drawing



1. Centurion™ Touchscreen Controller
2. Safety Glass Sliding Sash Window
3. Single-piece Stainless Steel Back Wall and Side Walls
4. Prefilter Rack
5. Removable Side Panel for Plumbing Access
6. USB Port for Data Transfer Data, Zero Volt Relay Contact (Blower & Alarm)
7. Power Inlet

8. Electrical Panel
9. LED Lamps
10. IV Bar Retrofit Kit Provision
11. Plugged Service Fixture provisions (2 on each side)
12. Cable Port
13. Stainless Steel Single-piece Work Tray
14. Stainless Steel Arm Rest

15. Drain Valve Retrofit Kit Provision
16. Airflow Sensor
17. Exhaust ULPA / H14 Filter
18. Energy-efficient DC ECM Blower
19. Downflow ULPA / H14 Filter
20. UV Lamp
21. GFCI Electrical Outlet

General Specifications, VIVA® Bedding Disposal Workstation, Model VBD-4A_

Nominal Size		1.2 meter (4')
External Dimensions (W x D x H)		49.1" x 30.0" x 77.4" minimum height 49.1" x 30.0" x 89.4" maximum height
Internal Work Area (W x D x H)		40.9" x 26.8" x 23.4"
Work Surface Height		36.2" ~ 48.2"
Front Opening		15.7"
Inflow Velocity		0.35 m/s (70 fpm) at initial setpoint
Pre-Filter		Disposable, non-washable polyester fiber, 85% arrestance, EU3 rated
ULPA Filter Typical Efficiency		>99.999% at 0.1 to 0.3 microns as per IEST-RP-CC001.3 USA
Sound Emission* Per EN 12469		58 dBA
LED Lamp Intensity		> 121 foot candles
Workstation Construction	Main Body	0.05" 18 gauge electro-galvanized steel with Isocide™ white oven-baked epoxy-polyester powder-coating
	Work Top	0.05" 18 gauge stainless steel, type 304, with 4B finish
	Inner Liner	0.035" 20 gauge stainless steel, type 304, with 4B finish
Electrical Rating**	Voltages	110-120 VAC, 60 Hz, 1Φ
	Cabinet Full Load Amps (FLA)	6.5 A
	Optional Outlets FLA	5 A
	Cabinet Nominal Power	268 W
	Cabinet BTU	914
Net Weight		514 lbs
Shipping Weight		648 lbs
Shipping Dimensions, Maximum (W x D x H)		84.6" x 72.4" x 48.4"
Shipping Volume, Maximum		172 cu.ft.

* Noise as measured in an open field / anechoic chamber.

** Electrical power consumption is a measurement of new unit within nominal set point. Result may vary due to several independent variables





EO-GFCI



FT-REST

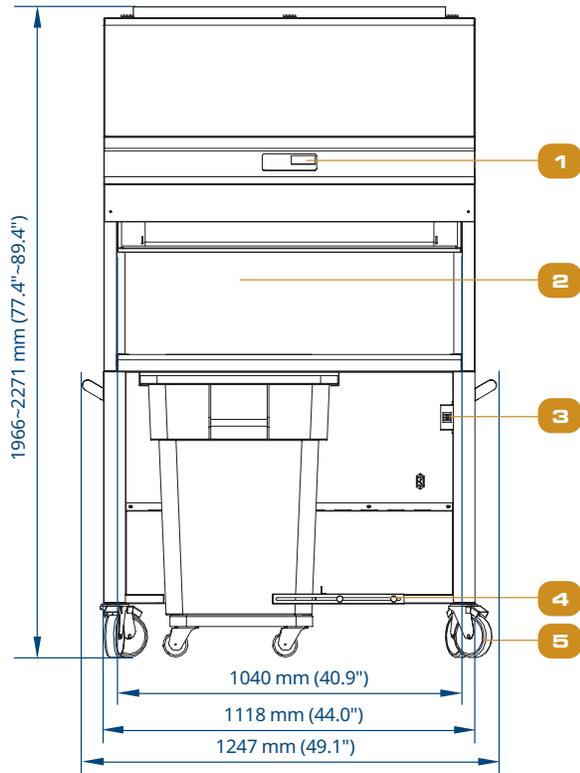


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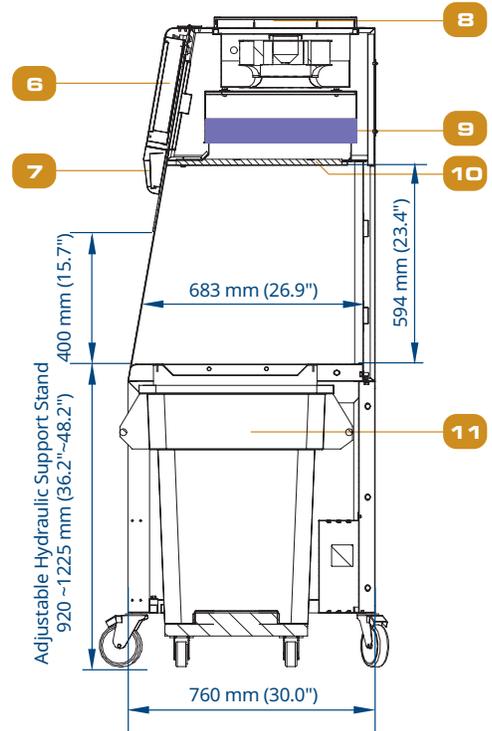


IQQQ

Engineering Drawing



1. Sentinel™ Microprocessor Control System
2. Stainless Steel single piece Work Zone
3. Switch to adjust stand height
4. Lock for waste container



5. Caster Wheels
6. Electrical Panel
7. Fluorescent Lamp
8. Carbon filter
9. ULPA / H14 filter
10. Pre-filter
11. Waste container



Life Science Tools



Biological Safety Cabinet



Laminar Flow Cabinet



Animal Workstation



CO₂/O₂ Incubators

Chemical Research



Ducted Fume Hoods



Ductless Fume Hoods



USP 797 / 800
Compliant Isolators



Powder Containment
Workstations

Pharma Compounding

Medical (IVF)

PCR



Multi-room Incubators



Time-Lapse Incubators



IVF Workstations



PCR Workstations

Bioprocessing

Pharmaceutical



Bioreactors



cGMP and Filling Line Isolators



Air Shower and Pass Boxes



Downflow Booths

ESCO GLOBAL NETWORK

42 Locations in 24 Countries All Over the World



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