



Cytoculture®

Cytotoxic Safety Cabinet

The Premium Solution for Cytotoxic Drug Processing



По вопросам продаж и поддержки обращайтесь:

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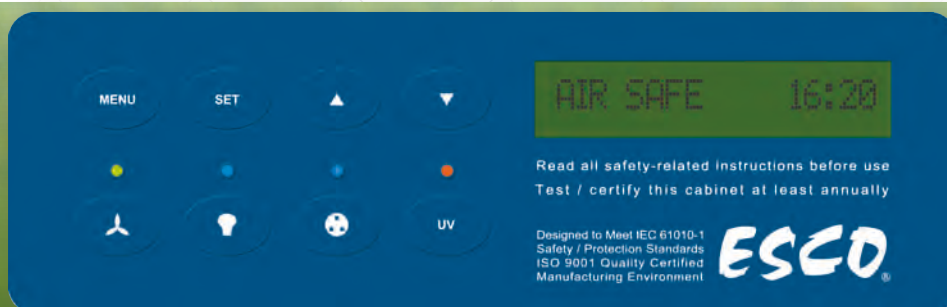
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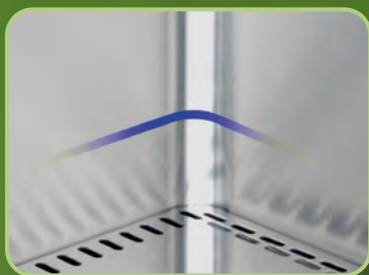
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	General Requirements	Air Quality	Filtration	Electrical Safety
Standards Compliance	EN 12469, Europe	ISO 14644.1, Class 3, Worldwide IEST-G-CC1001, Worldwide IEST-G-CC1002, Worldwide	EN-1822 (H14), Europe IEST-RP-CC001.3, USA IEST-RP-CC007.1, USA IEST-RP-CC034.1, USA	UL-C-61010A-1, USA CSA C22.2, No.1010-92, Canada EN-61010-1, Europe IEC61010-1, International



Sentinel™ Silver Microprocessor Controller

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



Curved Corner

- Large corner radius for easy cleaning
- Stainless steel 304 interior walls (with available option for SS 316)



Multi-piece Work Tray

- Easy to lift and clean
- Stainless steel 304 work trays (with available option for SS 316)
- Customization to single-piece work tray is possible, please contact Esco



Raised Arm Rest

- Helps prevent grills blocking
- Comfortable working posture

Standard stand comes with casters and leveling feet

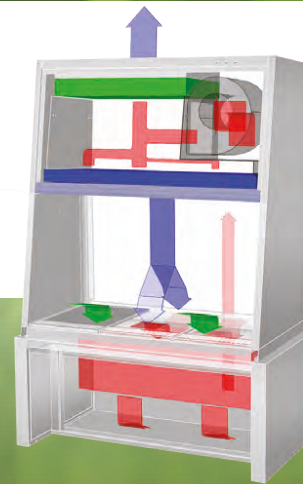
- Casters for easier moving/transfer of cabinet
- Leveling feet allows height adjustment in cases of uneven floors



Available in 1.2 m and 1.8 m width (4' and 6' models)

Tri-filter System

- Equipped with 1 supply downflow filter and 2 exhaust filters
- Dual long life ULPA filters (as per IEST-RP-CC001.3 or H14 as per EN 12469) for supply and exhaust filters
- V-bank design HEPA filter for below work zone exhaust filter



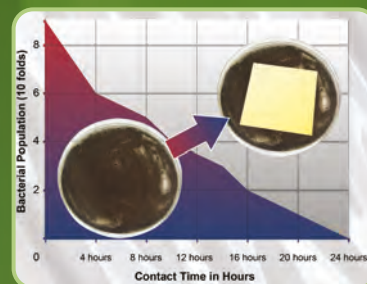
Airflow Sensor

- Monitors real-time airflow for safety
- Alert the user if airflow is insufficient
- High-end Accusense sensor made by Degree C



ISOCIDE™ Powder Coat

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



Motorized Sash

- Easier closing and opening of sash, just by pressing the button help simplify use of the cabinet

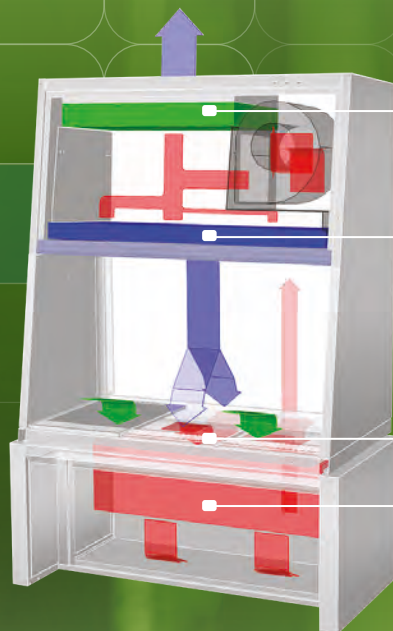


Exhaust HEPA filter

- With additional V-bank HEPA filter below work zone



Cytoculture® Cytotoxic Safety Cabinet Airflow



- Exhaust ULPA filter
- Supply ULPA filter
- Dynamic air barrier, inflow and forward directed downflow air converge
- Secondary exhaust HEPA filter

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

■ Air enters the cabinet through perforations located along the front of the work zone before mixing with used downflow air in a common chamber below the work zone (this inflow air does not mix with the filtered downflow air in the cabinet's main chamber). The mixed air then passes through the HEPA filter located beneath the work zone.

■ The HEPA filtered air then passes through internal ducting in the back wall of the cabinet to a common air plenum where 35% is exhausted through the ULPA

exhaust filter and 65% is forced evenly through the ULPA supply filter. This sterilized air then passes through the main chamber as downflow air, flushing all contaminants from the work zone.

■ At the work surface the downflow airstream splits and enters the common air chamber beneath the work zone through perforations located at the front and back of the main chamber, from where the cycle is repeated.

Touchpad data entry buttons permit control settings and access to diagnostics, default settings and hierarchical menus.

Color coded indicator lamps display green for primary function (fan operation); blue for secondary function (fluorescent lights and electrical outlet); and orange for caution (UV lamp ON).

Programmable automatic UV light timer simplifies operation, enhances contamination control, extends UV lamp life and saves energy.

A graphical interface indicates cabinet performance.

Digital read-out with alpha-numeric display indicates all input, status and alarm functions.

All functions can be user activated through touch-pad programming access; see Operations Manual.

Sentinel™ Silver Microprocessor Control System, Programmable

■ When programmed ON

- the start-up sequence confirms status with Air Safe and local time display.
- the Personal Identification Number (PIN) access restricts unauthorized adjustments.
- an airflow alarm warns of deviations from normal velocities.

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Accessories for Cytoculture® Cytotoxic Safety Cabinets

Model		CYT-4A	CYT-6A
Exhaust Ducting	Anti-blowback Valve	ABBV-10P	5170352
	Manual Volumetric Exhaust Damper	B2-Damper	5170104
	Thimble Exhaust Collar (10 inches diameter)	ECO-LA24-Mk3-LH 5170099	ECO-LA26-Mk3-LH 5170102
Work Zone	UV Lamp	UV-30A	5170255
	IV Bar	IV-1260 5170277	IV-1870 5170279
Electrical Outlet	Direct Mounted Electrical Outlet - Plug Code	EO-H	
Service Fixtures	EU SF - Gas - 40 mm	SF-1G40	5170002
	EU SF - Vacuum - 40 mm	SF-1V40	5170003
	EU SF - Nitrogen - 40 mm	SF-1N40	5170011
	EU SF - Air - 40 mm	SF-1A40	5170006
	EU SF - Water - 40 mm	SF-1W40	5170017
	American Style Service Fixture - Universal - 40 mm	SF-2U40	5170018
	Copper Piping for Service Fixture (Must be Factory Installed)	CU-Pipe	5170026
Carbon Filter Options		CYT-001 5080008	CYT-002 5080009
Misc	Solenoid Valve Fitting	SL-Valve	5070086
	IQ/OQ Protocol	9010179	

Note: For other customizations and accessories, please contact Esco.



ABBV-10P



B2-DAMPER



IV-1260

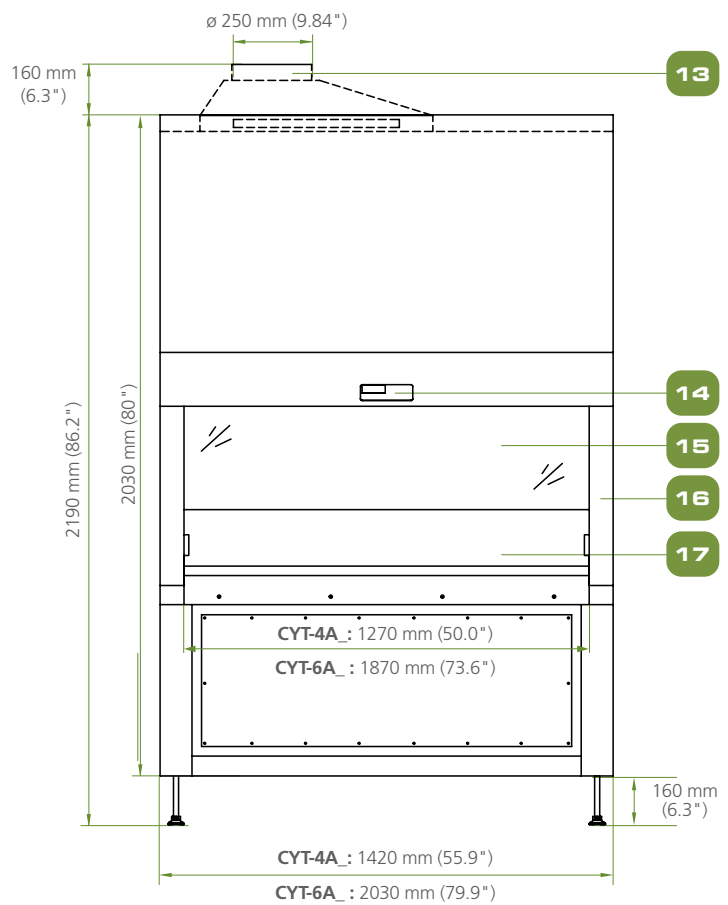
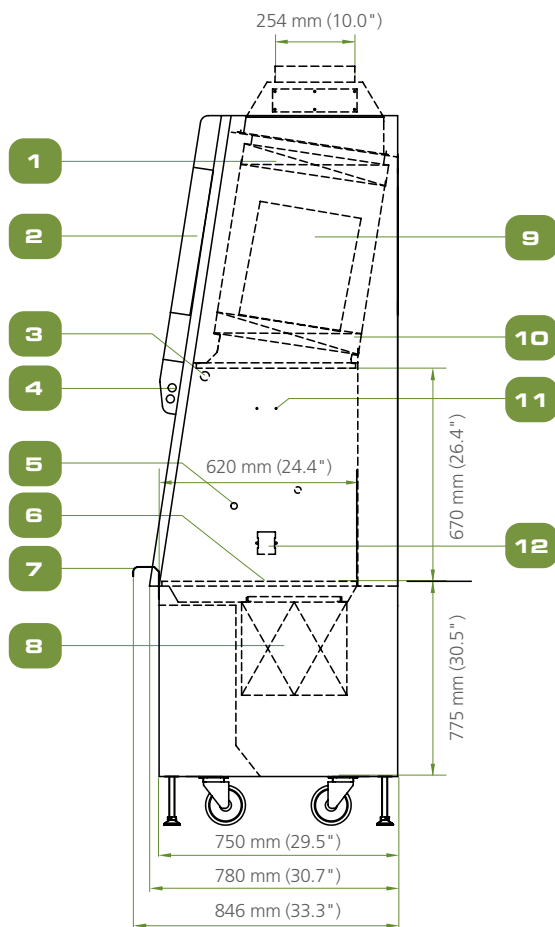
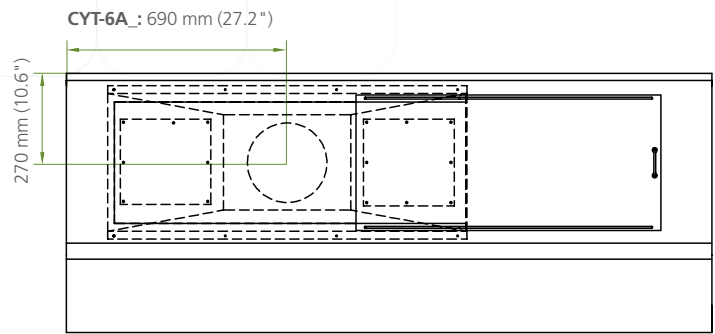
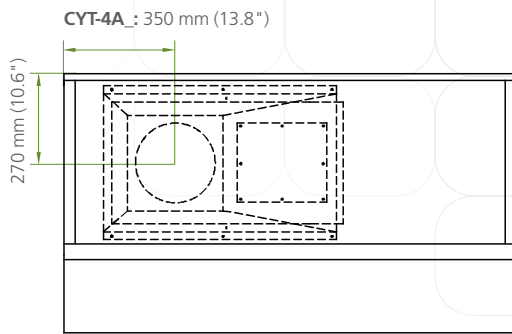


SF-1G40

Cytoculture®

Esco Specialty Products • Cytotoxic Safety Cabinets

Model CYT Cytotoxic Safety Cabinet Engineering Drawing



1. Exhaust ULPA filter
2. Electrical Panel
3. UV Lamp Retrofit Kit Provision
4. Fluorescent lamp
5. Service Fixture Retrofit Kit provision
6. Stainless steel multi-piece work tray
7. Stainless Steel Arm Rest

8. Exhaust V-bank HEPA filter
9. DC ECM Blower
10. Downflow ULPA Filter
11. IV Bar Retorfit VKit Provision
12. Electrical Outlet Retrofit Kit Provision (two on each side)
13. Exhaust Collar (Optional)

14. Esco Sentinel™ Silver Microprocessor Controller
15. Motorized Sash Window
16. Removable Side Panel
17. Single-piece stainless steel back wall and side walls

General Specifications, Cytotoxic Safety Cabinets

Note to customer: Insert electrical voltage number into last model number digit _ when ordering

Cytoculture® Cytotoxic Safety Cabinet		CYT-4A_	CYT-6A_
Nominal Size		1.2 meters (4')	1.8 meters (6')
External Dimensions (W x D x H)		1420 x 846 x 2190 mm (55.9" x 33.3" x 86.2")	2030 x 846 x 2190 mm (79.9" x 33.3" x 86.2")
Internal Work Area Dimensions (W x D x H)		1270 x 620 x 670 mm (50.0" x 24.4" x 26.4")	1870 x 620 x 670 mm (73.6" x 24.4" x 26.4")
Usable Work Area		0.60 m ² (6.4 sq.ft.)	0.90 m ² (9.7 sq.ft.)
Tested Opening		203 mm (8.0")	203 mm (8.0")
Maximum Sash Opening		440 mm	440 mm
Average Airflow Velocity	Inflow	0.45 m/s (90 fpm)	
	Downflow	0.30 m/s (60 fpm)	
Exhaust Volume with Ducting	Inflow	0.45 m/s (90 fpm)	
	Downflow	0.30 m/s (60 fpm)	
	CBV Exhaust Volume	611 m ³ / h (360 cfm)	931 m ³ / h (548 cfm)
	Static Pressure at CBV Exhaust Volume	39 Pa / 0.15 in H ₂ O	63 Pa / 0.25 in H ₂ O
ULPA Filter Typical Efficiency	Downflow	>99.9995% for particle size at 0.3 µm as per IEST-RP-CC001.3 USA	
	Exhaust	99.999% for particle size at 0.1 to 0.2 µm as per IEST-RP-CC001.3 USA	
HEPA V-bank Filter Typical Efficiency	Exhaust	99.999% at 0.3 µm as per IEST-RP-CC001.3 USA	
Sound Emission per EN 12469*		61 dBA	63 dBA
Fluorescent Lamp Intensity at Zero ambient		>1300 Lux (>121 foot candles)	>1000 Lux (>93 foot candles)
Cabinet Construction	External	1.5 mm (0.06") 16 gauge electrogalvanized steel with Isocide white oven-baked epoxy powder-coating	
	Internal	Stainless steel Type 304 with No.4 finish, 1.5 mm (0.06") / 16 gauge thick	
Electrical**	220-240V, AC, 50 Hz, 1Ø	CYT-4A1	CYT-6A1
	Cabinet Full Load Amps (FLA)	8A	9A
	Optional Outlets FLA	5A	5A
	Cabinet Nominal Power	429W	568W
	Cabinet BTU	1464 BTU/hr	1938 BTU/hr
	110-120V, AC, 60 Hz, 1Ø	CYT-4A2	CYT-6A2
	Cabinet Full Load Amps (FLA)	11A	11.5A
	Optional Outlets FLA	5A	5A
	Cabinet Nominal Power	653W	793W
	Cabinet BTU	2228 BTU/hr	2706 BTU/hr
	220-240V, AC, 60 Hz, 1Ø	CYT-4A3	CYT-6A3
	Cabinet Full Load Amps (FLA)	9A	9.5A
	Optional Outlets FLA	5A	5A
	Cabinet Nominal Power	549W	778W
	Cabinet BTU	1873 BTU/hr	2655 BTU/hr
Net Weight		383 kg (844 lbs)	500 kg (1102 lbs)
Shipping Weight		415 kg (915 lbs)	578 kg (1274 lbs)
Shipping Dimensions, Maximum (W x D x H)		1560 x 930 x 2230 mm (61.4" x 36.6" x 87.8")	2170 x 930 x 2230 mm (85.4" x 36.6" x 87.8")
Shipping Volume, Maximum		3.26 m ³ (115 ft ³)	4.49 m ³ (158.6 ft ³)

* Noise as measured in open field / anechoic chamber.

** Additional voltages may be available; contact Esco for ordering information.

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