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# CONTAINED VENTED ENCLOSURE (CVE) ETA723027ABD TECHNICAL SPECIFICATIONS

## CONTAINED VENTED BALANCE ENCLOSURE -ETA723027ABD





## **GENERAL DESCRIPTION**

## **DESIGNATED USAGE**

FSI contained vented enclosures provide personnel and environmental protection but no product protection. These Class I BSCs are commonly used to enclose specific equipment or procedures that potentially generate aerosols. BSCs of this class are either ducted or un-ducted.

# PRIMARY ENGINEERING CONTROL (PEC) TYPE

Class I Contained Vented Enclosure.

## MAIN CHAMBER CLASSIFICATION

Suitable for OEB Levels 1-3

## **MODEL SPECIFICATIONS**

## **CONFIGURATION**

Setup includes Bag In/Bag Out Dual HEPA Filters, Blanked Plates on both sides for optional disposal port, and 1.5" iris ports on both sides for cord management.

EXTERIOR D	<u>IMENSIONS</u>	INTERIOR DIMENSIONS	
Length:	71.75"	Length:	67.79"
Depth:	30.00"	Depth:	26.55"
Height:	55.91"	Height:	26.90"

MATERIALS OF CONSTRUCTION	Enclosure	Clear 0.375" acrylic front and side panels. White 0.375" acrylic	
	panels:	rear panel	
	Work surface:	Black 1" base that is dished to 0.5" (Phenolic Resin Base), Routed	
		to Fit Sidewalls for Containment	
	Plenums/Baffle:	White 0.375" acrylic rear plenum. Clear 0.375" upper panel.	
TECHNICAL SPECIFICATIONS	LAMINAR AIR FLOW		
	<ul> <li>Fan &amp; filter modules are mounted on the top panel of the unit</li> <li>Fan &amp; filter modules provide HEPA (99.995% at mpps) vertically laminar filtered air</li> <li>Air velocity: Recommended 75 ft/minute average +/-5 when measured at face opening</li> </ul>		
	FAN CONSTRUCTION		
	and high e     Fan shrou     Impeller E     Overall ou     magnitud     magnitud	d balanced galvanized steel fan impeller wheel for low vibration energy efficiency. Id fabricated from fiberglass. Diameter = 9.8" Itput of 50-55 dB @ 3 feet. Entire unit affords two orders of e isolation from adjacent equipment vibration and four orders of e isolation from fan vibration. Id control unit included to properly set flow rate.	
	ELECTRICAL REQUIRE	MENTS MENTS	
	<ul><li>FAN (EA):</li><li>flow, 5A F</li><li>(TOTLA FA</li><li>LED Light:</li></ul>	110-120VAC, 50/60Hz, 1PH, 2.25AMPS, 270 WATTS at maximum	
	CONTROLS		
	<ul><li>Fan filter</li><li>Integrated</li></ul>	ch on/off button (when applicable) switch on/off d Alarm with Lighted Switch and Audible alarm grade power cord	
	WASTE & PORT  Two 1.5"	knock outs, one on either side of the enclosure to the rear. ste chute port for (optional) Disposal Port	
	VELOCITY ALARM		
	<ul><li>0.2 Amps</li><li>Integrated warns of I</li></ul>	with dry contact feature provided dinto top mount fan housing and equipped with red light which ow velocity; green light which indicates nominal containment with proper certification	
	EXHAUST SPECIFICAT	IONS	
	velocity 7  o With Thin  Maintain	g range 60-100 LFPM (0.30-0.50 m/s). Factory recommended face 5 LFPM +/- 5 LFPM (0.38 m/s) mble, (699) Total CFM Required at House Exhaust Connections to 100 LFPM at the face opening. For recirculating into room, (607) required to maintain 100 LFPM at Face opening.	

	EXHAUST RECOMMENDATIONS	
	<ul> <li>Use thimble connection (FS2081MS) for House Exhaust connections.</li> <li>No additional equipment required for independent recirculating configuration</li> </ul>	
DESIGN FEATURES	The Contained Vented Enclosure is designed with multiple features for maximum containment, ease of use, and ensuring a stable work environment for sensitive activities:	
	<ul> <li>EXHAUST PORT</li> <li>(2x) 6" exhaust port</li> <li>Capable of being recirculated back into the lab</li> <li>Thimble connection required to connect to house exhaust</li> </ul>	
	<ul> <li>FS1650 ALARM</li> <li>FS1650 Integrated Face Velocity Alarm Alerts the operator when airflow is compromised.</li> </ul>	
PART #: ALL723027NW	<ul> <li>OPTIONAL ADDER LED LIGHT KIT</li> <li>Natural cool white light. Comes with a three-way toggle switch that is off/high/low.</li> <li>Amber option available</li> </ul>	
	FRONT LIFT DOORS  O Hinged front doors that lift for easy loading and unloading of equipment	
	<ul> <li>AIRFOILS</li> <li>Quantity: Four (4) (2 side airfoils, 1 base airfoil, 1 door airfoil)</li> <li>Airfoils staged around the perimeter of the face opening stabilize the airflow, improve laminar airflow, and improve containment along the leading edge.</li> </ul>	
	DISHED BASE  O Dished phenolic base captures accidental liquid and powder spills.	
	<ul> <li>WASTE PORT</li> <li>Waste port can be placed on either and/or both sides of the enclosure and is used to safely remove waste.</li> </ul>	
	<ul> <li>PLENUMS         <ul> <li>Rear and Top Plenums are used to direct airflow and maintain containment at the face opening.</li> <li>Plenums also prevent particles from possibly falling back onto the work surface during loss of power and primary HEPA filter changeout.</li> </ul> </li> </ul>	
	<ul> <li>BAG IN/ BAG OUT</li> <li>HEPA change out system that allows for safe removal and replacement of the main 4" HEPA filter.</li> </ul>	

PART #: 4185	REPLACEMENT FILTER		
	o Replacement Primary HEPA Filter Kit.		
PART #: 4155	REPLACEMENT FILTER		
	o Replacement HEPA Filter.		
PART #: 4720A-24x14	REPLACEMENT FAN		
	<ul> <li>Top mount fan filter housing with integrated alarm.</li> </ul>		
PART #: 4720-24x14	REPLACEMENT FAN		
	<ul> <li>Top mount fan filter housing.</li> </ul>		
PART #: 2070	Waste Chute (Port)		
	<ul> <li>Waste chute with retaining band and bag.</li> </ul>		
PART #: 2079	Double Safe Waste Chute		
	Waste chute with double sleeve protection, retaining band and bag.		
PART #: 2081MS	THIMBLE CONNECTION, 6" TO 7" TRANSITION		
	<ul> <li>Thimble for connection to house exhaust.</li> </ul>		
PART #: 2062VK	VENT KIT, (8') 6" HOSE AND (2) HOSE CLAMP		
	<ul> <li>Hose and Clamp for connection to house exhaust.</li> </ul>		
PART #: \$1242	8" CONTINUOUS LINER SYSTEM		
	<ul> <li>Integrated Continuous Liner System for safe waste disposal. Seal at any increment for disposal of waste in any amount.</li> </ul>		
PART #: 2077	PRINTER SHELF — NO ALARM MOUNT		
	<ul> <li>Label printer shelf for above blank plate for label printing.</li> </ul>		
PART #: AFC241408A_(A/B)	CARBON FILTER 24x14- ORGANIC		
	<ul> <li>Powder coated carbon steel frame containing 8 ABS plastic canisters with coconut shell activated charcoal media (2X).</li> </ul>		
PART #: AFC241408B_(A/B)	CARBON FILTER 24x14 - ACID		
	<ul> <li>Powder coated carbon steel frame containing 8 ABS plastic canisters with impregnated coconut shell activated charcoal media (2X).</li> </ul>		
PART #: AFC241408C_(A/B)	CARBON FILTER 24x14-AMINE		
	<ul> <li>Powder coated carbon steel frame containing 8 ABS plastic canisters with impregnated coconut shell activated charcoal media (2X).</li> </ul>		
PART #: AFC241408D_(A/B)	CARBON FILTER 24x14 - ALDEHYDE		
	<ul> <li>Powder coated carbon steel frame containing 8 ABS plastic canisters with impregnated coconut shell activated charcoal media (2X).</li> </ul>		
PART #: AEC7230S	ADA, 72 x 30, ELECTRIC POWDER COATED TABLE		
	<ul> <li>Electric Ergonomic Lift Table, Powder coated carbon steel, on frame and feet, locking casters.</li> </ul>		

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PART #: AES7230S	ADA, 72 x 30, STAINLESS STEEL ERGONOMIC LIFT TABLE  • Electric Ergonomic Lift Table, 304 Stainless Steel, on frame and feet, locking		
	casters.		
PART #: ACC7230S	ADA, 72 x 30, POWDER COATED STEEL CART		
	<ul> <li>Powder coated carbon steel cart, on frame and feet, locking casters.</li> </ul>		
PART #: ACS7230S	ADA, 72 x 30, Stainless Steel Cart		
	<ul> <li>304 Stainless steel cart, on frame and feet, locking casters.</li> </ul>		
PART #: ATC7230S	POWDER COATED STEEL, 72 x 30 TABLE		
	o Powder coated steel table.		
PART #: ATS7230S	STAINLESS STEEL, 72 x30, TABLE		
	<ul> <li>304 Stainless steel table, on frame and feet, locking casters.</li> </ul>		
INSTALLATION, START-UP AND	INSTALLATION (at an additional charge)		
TRAINING	Flow Sciences will send One (1) Technician onsite to install equipment within your facility. Flow Sciences may require additional assistance on site. If additional		
	assistance is required, Flow Sciences will request your assistance or provide		
	additional technicians from Flow Sciences (at an additional charge) if no client staff is available.		
	START-UP AND TRAINING (at an additional charge)		
	One (1) Flow Sciences technician will demonstrate the usage of the equipment and		
	train your personnel on the usage of the equipment after the installation is complete. Flow Sciences will provide an operating manual which will include the as built		
	drawings and all the materials certificates.		
	***Please note that proposal amount for Installation, Start-up and Training is for 1		
	days of work for one technician. Should the labour exceed this time frame, and		
	hourly labour rate will apply.		
	SURROGATE POWDER TESTS (at an additional charge)		
	Surrogate powder testing available during factory acceptance testing.		
	IQOQ – INSTALLATION OPERATION QUALIFICATION (at an additional charge)		