



HYBRID ISOLATOR EHP363027ABD TECHNICAL SPECIFICATIONS

HYBRID ISOLATOR - EHP363027ABD



GENERAL DESCRIPTION

DESIGNATED USAGE

Dual purpose laminar flow system for hazardous, non-sterile processes such as compounding and weighing.

PRIMARY ENGINEERING CONTROLS

Dual Speed Fan, Removable Glove Panel w/ Sensor, LED light, BIBO Dual HEPA filtration, integrated alarm

CONTAINMENT LEVEL

Heavily dependent on potency and quantity of the toxic material being worked with, this unit can contain to below nanogram levels and up to OEB 5.

MODEL SPECIFICATIONS	Ports, Bag In ports on book liner, dispose configuration	n/Bag th side al por ons.	Out Dual HEPA Filtes, and Blanked Pla	ers, reve te on on ter port,	able Draft Shield with Glove rsible pass through, 2" iris e side for optional continuo RTP Alpha port, and pass-th ramed box (can be mounted
	EXTERIOR DIN	<u> 1ENSIOI</u>	<u>NS</u>		INTERIOR DIMENSIONS
	Width:		75" (48.88" with s thru)	Width	: 57.75"
	Depth:	30.	88"	Depth	: 24.23"
	Height:	56.41"		Heigh	t: 27.00"
	PASS THROUG	PASS THROUGH INTERNAL DIMENSIONS DOOR OPENING DIMENSIONS			
	Width	Width 11.88"		7.00"	
	Depth:	10.00"		N/A	
	Height:	Height: 12.00"			9.50"
MATERIALS OF CONSTRUCTION	Wall panels	:	White 0.75" Poly	propyler	ne
	Work surface:		Black 1" Phenolic Resin Base dished to 0.5", Routed to Fit Sidewalls for Containment		
	Viewing Panels:		0.25" Acrylic		
	Plenums/Ba	Plenums/Baffle: White 0.25" Polypropylene			ne
TECHNICAL SPECIFICATIONS		F. 0			
	FanFanIamAirmeaAir	 Fan & filter modules provide HEPA (99.995% at mpps) vertically laminar filtered air Air velocity: Recommended 75 ft/minute average +/-5 when measured at face opening (open faced) 			

HYBRID ISOLATOR EHP363027ABD

FAN CONSTRUCTION High speed balanced galvanized steel fan impeller wheel for low vibration and high energy efficiency. Fan shroud fabricated from fiberglass. o Impeller Diameter = 9.8" Overall output of 50-55 dB @ 3 feet at maximum airflow. Entire unit affords two orders of magnitude isolation from adjacent equipment vibration and four orders of magnitude isolation from fan vibration. Fan speed control unit included to properly set flow rate. **ELECTRICAL REQUIREMENTS** o Fan: 120VAC, 50/60Hz, 1PH, 2.25AMPS, 270 WATTS at maximum flow, 5A FUSED. o LED Light: 100-240 VAC, 50/60 Hz, 2.0 Amps Alarm integrated into fan Hospital grade power cord supplied **LIGHTING** LED Fixtures mounted in the top of the front panel all across the work surface o Natural cool white light. (Amber option available) o LED Lifetime 50,000 hours, 2600 lumens, max 3.04A-0.97A @ 12V-30V DC, universal power supply Luminous Efficiency: 90 Lumens/Watt typical at 24 V dc at 25°C CONTROLS Light switch on/off button Fan switch on/off o Integrated Fan Alarm with Lighted Status Indicator and Audible alarm Hospital grade power cord Dual speed control **WASTE & PORT** o Two 2" Iris Ports, one on either side of the enclosure to the rear. o Pass thru on one side, blank plate on other side **VELOCITY ALARM** 0.2 Amps with dry contact feature provided Integrated into top mount fan housing and equipped with red light which warns of low velocity; green light which indicates nominal containment velocity with proper certification **DIFFERENTIAL PRESSURE GAUGE** Minihelic differential pressure switch/gage. o Pressure gage (0-1" wg; 0-250 pa) installed to monitor the loading of the primary HEPA filter.

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	 EXHAUST SPECIFICATIONS Operating range 60-95 LFPM (0.30-0.48 m/s). Factory recommended face velocity 75 LFPM +/- 5 LFPM (0.38 m/s) with draft shield removed With draft shield installed (124) total CFM required to maintain 200 LFPM at the slot below the Draft shield (recommended) With Draft shield removed (301) total CFM required to maintain 95 LFPM at face opening. With draft shield removed and with thimble connection, (346) total CFM required to maintain 95 LFPM at face opening.
	 Use thimble connection (FS2081MS) for House Exhaust connections. No additional equipment required for independent recirculating configuration
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:
	 EXHAUST PORT 6" thimble connections to house system Capable of being recirculated back into the lab
	 FS1650 ALARM FS1650 Integrated Face Velocity Alarm Alerts the operator when airflow is compromised.
	LED LIGHTING Standard with white light Optional add-on Amber LED Lighting
	FRONT LIFT DOORS O Hinged front door that lifts for easy loading and unloading of equipment
	 AIRFOILS Enclosure Quantity: Four (4) Airfoils staged around the perimeter of the face opening stabilize the airflow, improve laminar airflow, and improve containment along the leading edge.
	O Dished phenolic base captures accidental liquid and powder spills
	 WASTE PORT Optional Waste port can be placed on either and/or both sides of the enclosure and is used to safely remove waste.

	Rear and Top Plenums are used to direct airflow and maintain containment at the face opening. Plenums also prevent particles from possibly falling back onto the work surface during loss of power and primary HEPA filter changeout BAG IN/ BAG OUT HEPA change out system that allows for safe removal and replacement of the main 4" HEPA filter.
	PASS THRU CHAMBER One (1) transfer port included (can be placed on either side) Transfer Port Opening external 7"W x 9.5"H Vertical sliding transfer door to access main chamber, outward swinging door to access outside FRONT ACCESS PANEL Removable glove panel to enhance flexibility when working with high or low toxicity Increases flexibility for labs with varying OEB levels
PART #: G 8B1532975A	GLOVE PORTS O Quantity: 2 O Size: 8" diameter oval glove ports for the manipulation of process material O Glove ports are mounted on the front removable panel O The system includes: - Retaining O-rings - butyl gloves (9.75 hand size, ambidextrous)
	CUSTOMIZED MASTER PORT O The blank plate can be customized to install Iris Ports, Services, Transfer Systems and More
PART #: 2091	 Side Adapter Waste chute with double sleeve protection, retaining band and bag.

HYBRID ISOLATOR EHP363027ABD

PART #: 2092 & APS0825



8" CONTINUOUS LINER SYSTEM

o Integrated Continuous Liner System for safe waste disposal. Seal at any increment for disposal of waste in any amount.

PART #: 2093



PART #: AFC241408D_(A/B)

RTP ALPHA PORT

 Accommodates a 105mm RTP Alpha port for connecting various betas or other containers

(2) Powder coated carbon steel frame containing 8 ABS plastic canisters

with impregnated coconut shell activated charcoal media.

PART #: 2081MS	THIMBLE CONNECTION, 6" TO 7" TRANSITION
	 Thimble for connection to house exhaust.
PART #: 2062VK	VENT KIT, (8') 6" HOSE AND (2) HOSE CLAMP
	 Hose and Clamp for connection to house exhaust.
PART #: 2077	PRINTER SHELF – NO ALARM MOUNT
	 Label printer shelf for above blank plate for label printing.
PART #: AFC241408A_(A/B)	CARBON FILTER 24x14 - ORGANIC
	 (2) Powder coated carbon steel frame containing 8 ABS plastic canisters with coconut shell activated charcoal media.
PART #: AFC241408B_(A/B)	CARBON FILTER 24x14 - ACID
	 (2) Powder coated carbon steel frame containing 8 ABS plastic canisters with impregnated coconut shell activated charcoal media.
PART #: AFC241408C_(A/B)	CARBON FILTER 24x14 -AMINE
	 (2) Powder coated carbon steel frame containing 8 ABS plastic canisters with impregnated coconut shell activated charcoal media.

CARBON FILTER 24x14 - ALDEHYDE

PART #: ATC3630S	 TABLE, 36 x 30, POWDER COATED STEEL TABLE Powder coated carbon steel cart, on frame and feet, leveling pads (±1.25" of travel).
PART #: ATS3630S	TABLE, 36 x 30, STAINLESS STEEL TABLE o 304 Stainless steel table, on frame and feet, leveling pads (±1.25" of travel).
PART #: AEC3630S	 ADA TABLE, 36 x30, ELECTRIC POWDER COATED TABLE Electric Ergonomic Lift Table, Powder coated carbon steel, on frame and feet, locking casters.
PART #: AES3630S	 ADA TABLE, 36 x30, STAINLESS STEEL ERGONOMIC LIFT TABLE Electric Ergonomic Lift Table, 304 Stainless Steel, on frame and feet, locking casters.
PART #: ACC3630S	 CART, 36 x 30, POWDER COATED STEEL CART Powder coated carbon steel cart, on frame and feet, locking casters.
PART #: ACS3630S	CART, 36 x 30, STAINLESS STEEL CART

INSTALLATION AND VALIDATION	Flow Sciences is delighted to offer you Installation services to ensure the complete
	start-up of your Biological Safety Cabinet.
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)





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HYBRID ISOLATOR - EHG363027ABD



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	EXTERIOR DI	MENSIO	NS		INTERIOR DIMENSIONS
	Width:	35.	35.75" (48.88" with pass thru)		57.75"
	Depth:	30.88"		Depth	n: 24.23"
	Height:	56.41"		Heigh	t: 27.00"
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	Viewing Panels:		0.25" Laminated Glass		
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TECHNICAL SPECIFICATIONS	LAMINAR AII				
	o Fai lan o Air me o Air	n & filte ninar fi velocit easured velocit	er modules provide Itered air sy: Recommended I at face opening (c	HEPA (9 75 ft/mi open face 175 ft/m	ninute average +/-5 when

HYBRID ISOLATOR EHG63027ABD

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	 Side Adapter Waste chute with double sleeve protection, retaining bands and bags.

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RTP ALPHA PORT

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PART #: 2081MS

THIMBLE CONNECTION, 6" TO 7" TRANSITION

Thimble for connection to house exhaust.

PART #: 2062VK

VENT KIT, (8') 6" HOSE AND (2) HOSE CLAMPS

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PART #: 2077

PRINTER SHELF - NO ALARM MOUNT

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CARBON FILTER 24x14 - ORGANIC

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PART #: AFC241408C_(A/B)

CARBON FILTER 24x14 - AMINE

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PART #: AFC241408D_(A/B)

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INSTALLATION AND VALIDATION	Flow Sciences is delighted to offer you Installation services to ensure the complete start-up of your enclosure.
Installation, Start-up and Training	INSTALLATION (at an additional charge) 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.
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