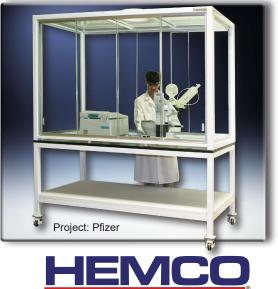
FnviroMa *K* Robotics & Automated Processes



Vented Exhaust Enclosures
 HEPA Filtered Laminar Flow Enclosures
 Bio-Equipment Enclosure Work Stations
 Custom Worksurfaces & Bench Stands
 Enclosure Accessories





Laboratory Planning Solutions

FnviroMax Vented Exhaust Enclosures



EnviroMax Vented Exhaust Enclosures protects personnel

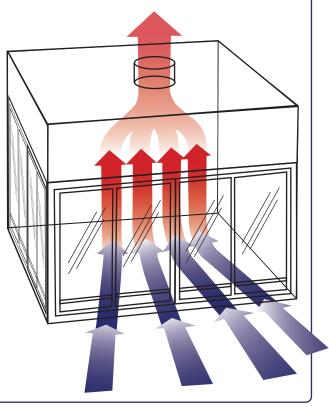
A Vented Exhaust Enclosure offered in Unitized & Modular Designs for exhausting fumes from Robotic & Automated processes

Designed to protect personnel from potentially hazardous fumes, vapors and odors. The enclosure can connect to in-house exhaust system or a dedicated exhaust blower, to provide the internal negative pressure needed to safely remove hazardous fumes from the work area. Air supply into the enclosure is supplied from the surrounding lab environment.

EnviroMax Options

• Access on any or all sides • Multi-Plug strips • Exhaust blowers • Vertical slide or hinged doors • Base cabinets • Exhaust HEPA or carbon filters • Other materials of construction • Anodized aluminum & stainless steel framing • Plumbing and electrical service fixtures • Airflow alarms • Support benches & work surfaces • Accessories see pages 10 - 11

Contact us for custom enclosures built to your exact specifications or visit: www.HEMCOcorp.com



FnviroMax Vented Exhaust Enclosures

Unitized Construction Sizes					
Width	Depth	Height	Cat. No.		
48"	30"	48"	61041		
60"	30"	48"	61051		
72"	30"	48"	61061		
96"	30"	48"	61081		
48"	36"	48"	61042		
60"	36"	48"	61052		
72"	36"	48"	61062		
96"	36"	48"	61082		

Unitized EnviroMax Vented Exhaust Enclosure sizes 4', 5', 6', and 8' wide by 30" & 36" deep by 46" high

Unitized design with depth of 30" and 36" to allow passage through door ways for easy on-site setup. Viewing from all four sides of the enclosed system. Access to interior of enclosure, available from any or all sides. Vent duct sized to airflow requirements. Pre-wired electrical connection to single point junction box. Under the bench storage and shelving designed to suit your requirements.

Note: Custom sizes are welcomed.

Unitized EnviroMax Vented Exhaust Enclosure

Superstructure is welded steel framework with chemical resistant white powder coated finish. Side and rear walls are of clear acrylic or tempered glass. Ceiling is constructed of molded composite resin with the outlet duct connection collar sized for desired air volume. Slotted ceiling baffle allows air to flow evenly through the interior area into the exhaust plenum. The front of the enclosure features horizontal sliding shatter-proof clear viewing panels, (4) panels on (2) tracks allowing access at any position. Fluorescent light is factory installed and sealed behind a clear lens. Light switch is mounted on the front post. Provides an economical and flexible work space that exceeds stringent contamination requirements. All electrical components are U.L. listed.

Modular Construction Sizes					
Width	Depth	Height	Cat. No.		
72"	48"	48"	62061		
96"	48"	48"	62081		
120"	48"	48"	62101		
144"	48"	48"	62121		
72"	60"	48"	62062		
96"	60"	48"	62082		
120"	60"	48"	62102		
144"	60"	48"	62122		

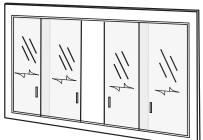
Modular EnviroMax Vented Exhaust Enclosure sizes 6', 8', 10' & 12' wide by 48" & 60" deep by 46" high

Modular design with depth of 48" or 60" requires on-site assembly prior to setup and vent ducting. Pre-wired electrical connection to single point junction box. Work surface and support benches and cabinets sized to specifications. Provides an environment free of contamination for sensitive processes. Note: Custom sizes are welcomed.

Modular EnviroMax Vented Exhaust Enclosure

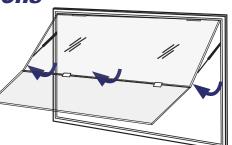
Superstructure is welded steel framework with chemical resistant white powder coated finish. Side and rear walls are of clear acrylic or tempered glass. Ceiling is constructed of molded composite resin with the outlet duct connection collar sized for desired air volume. Slotted ceiling baffle allows air to be drawn out evenly across the width of the interior into the exhaust plenum. The front of the enclosure features horizontal sliding tempered glass panels, (4) panels on (2) tracks allowing access at any position. Fluorescent light is factory installed and sealed behind a clear lens. Light switch is mounted on the front header panel. All electrical components are U.L. listed.

EnviroMax Sash Options

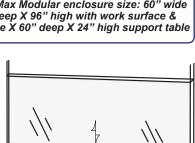


HORIZONTAL MOVING

SASHES The standard sash for EnviroMax. The maximum sash opening for the horizontal sash is 1/2 that of the vertical sashes. The smaller opening, means less air exhausted resulting in energy savings.



OPTIONAL HINGED MOVING SASHES Optional sash for Enviromax. The sash may be hinged vertical rising or horizontal open for maximum access thru the fume chamber.



OPTIONAL COUNTER BALANCED VERTICAL MOVING SASHES The optional sash

MOVING SASHES The optional sash for Enviromax. The sash may be lifted to the completely open position for maximum access tho the fume chamber. Sash stops available. **3**



Project: National Forensics & Coroners Complex, Canada *EnviroMax enclosure, unitized* 120" wide X 36" deep X 48" high, with custom acid storage cabinets



FnviroMax HEPA Laminar Flow Enclosures





Project: Eli Lilly

EnviroMax HEPA filtered 96" wide X 48"deep X 60" high horizontal sliding doors front & rear, hinged right & left side doors, heavy duty support table with seismic levelers

Project: Brewer Science Modular EnviroMax HEPA filtered Iaminar flow enclosure, sliding doors on front, size: 120"wide X 48"deep X 60" high, mobile table 30" high with epoxy shelf

EnviroMax HEPA Filtered Clean Work Enclosures Laminar Flow Benches protects processes

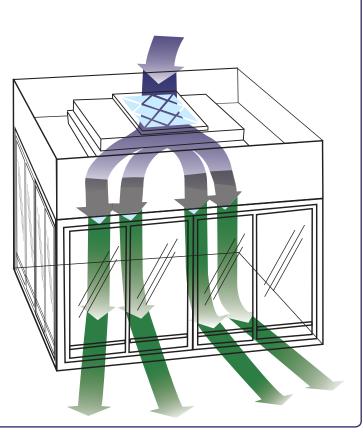
HEPA Filtered Enclosure offered in Unitized & Modular Design for Class 100 Clean Work Enclosure

Specifically engineered to meet critical clean specifications by isolating equipment and procedures. The HEPA filtration eliminates particles 0.3 or larger to an efficiency of 99.995%, class 100 laminar airflow maintains a sterile work zone. Filters and lighting are conveniently changed from inside the enclosure. Optional U.V. lighting, anti-static and grounding options are available.

EnviroMax HEPA Filtered Options

• Access on any or all sides • Multi-plug strips • Magnehelic gages • cord port • base cabinets • Other materials of construction • Anodized aluminum & stainless steel framing • Electrical and key lock services • Support benches & Work surfaces • Accessories see pages 10 -11

Contact us for custom enclosures built to your exact specifications or visit: www.HEMCOcorp.com



FnviroMa<u>x HEPA Laminar Flow Enclosure</u>s

Unitized Construction Sizes					
Width	Depth	Height	Cat. No.		
48"	30"	60"	63041		
60"	30"	60"	63051		
72"	30"	60"	63061		
96"	30"	60"	63081		
48"	36"	60"	63042		
60"	36"	60"	63052		
72"	36"	60"	63062		
96"	36"	60"	63082		

Unitized EnviroMax HEPA Filtered Clean Workstation. Sizes are 4', 5', 6', & 8' wide by 60" high

Unitized design with depth of 30" and 36" to allow passage through doorways for easy on-site set-up. HEPA filters provide sterile clean airflow through work area with air returned to room space. Pre-wired electrical connection to a single point junction box. Work surfaces & support benches listed on page 8.

Note: Custom sizes are welcomed.

Unitized EnviroMax Specifications Clean Workstation

Superstructure is welded steel framework with chemical resistant white powder coated finish. Side and rear walls are of clear acrylic or tempered glass. The front comes equipped with horizontal slide windows with air outlet slots on sides and front to maintain positive pressure. HEPA filters are ceiling mounted in the enclosure and designed to maintain a minimum of class 100 environment. HEPA filters are 99.99% efficient at .3 micron HEPA filter module has an integral fan, prefilter, and speed control. Fluorescent lighting is provided, switches are located on the front post. Provides an economical and flexible work space that exceeds stringent contamination requirements. All electrical components are U.L. listed.



Project: Wyeth / Pfizer EnviroMax laminar flow enclosure size: 72" wide X 36" deep X 60" high with UV light, & standard base table

Modular Construction Sizes					
Width	Depth	Height	Cat. No.		
72"	48"	60"	64061		
96"	48"	60"	64081		
120"	48"	60"	64101		
144"	48"	60"	64121		
72"	60"	60"	64062		
96"	60"	60"	64082		
120"	60"	60"	64102		
144"	60"	60"	64122		

Modular EnviroMax HEPA Filtered Clean Workstation. Sizes are 6', 8', 10' & 12' wide by 48" & 60" deep by 60" high

Modular design with depths of 48" & 60" for on-site assembly prior to setup and electrical connection. HEPA filters provide sterile clean airflow through work area and returned to room air space. Pre-wired electrical connection to single point junction box. Under the bench storage and shelving designed to suit your requirements.

Note: Custom sizes are welcomed.

Modular EnviroMax Clean Workstation Enclosure

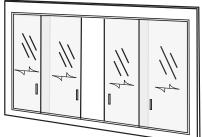
Superstructure is welded steel framework with chemical resistant white powder coated finish. Side and rear walls are of clear acrylic or tempered glass. The front comes equipped with horizontal slide windows with air outlet slots on sides and front to maintain positive pressure. HEPA filters are ceiling mounted in the enclosure and designed to maintain a minimum of class 100 environment. HEPA filters are 99.99% efficient at .3 micron. HEPA filter module has an integral fan, prefilter, and speed control. Fluorescent lighting is provided. Switches are located on the front post. All electrical components are U.L. listed.



Project: Medtronics

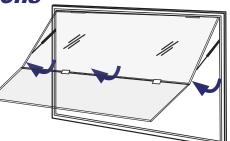
Unitized EnviroMax 96" wide X 36" deep X 60" high, base table 96" wide X 36" deep X 36" high, with sliding sashes front and back and side hinged sashes

EnviroMax Sash Options

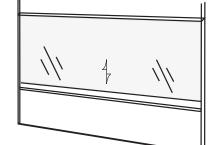


HORIZONTAL MOVING

SASHES The standard sash for EnviroMax. The maximum sash opening for the horizontal sash is 1/2 that of the vertical sashes. The smaller opening, means less air exhausted resulting in energy savings.



OPTIONAL HINGED MOVING SASHES Optional sash for Enviromax. The sash may be hinged vertical rising or horizontal open for maximum access thru the fume chamber.



OPTIONAL COUNTER BALANCED VERTICAL MOVING SASHES The optional sash for Enviromax. The sash may be lifted

to the completely open position for maximum access tho the fume chamber. Sash stops available. 5

FnviroMax HEPA Filtered Bio-Enclosures

EnviroMax Bio-Enclosures are engineered and built to protect a process from surrounding contamination and personnel from hazardous elements. They are engineered to meet your equipment size and design requirement. Instrumentation and samples are safely protected by a laminar downward flow of HEPA filtered air and the user is protected by the face velocity of entering air.



EnviroMax Equipment Enclosure size: 120" wide X 42" deep X 108" high provides HEPA filtered protection for product & personnel. Unit is equipped with stainless steel base and rear access panels



Project: Frederick Cancer Research

Applications include: liquid handling, high throughput automation processes, integrated systems, genomics / proteomics

EnviroMax Bio-Enclosure Options

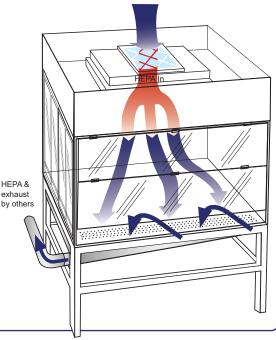
UV lighting • Multi-plug electrical strips • Service fixtures • Pipette trash chute • Access panels • • Lab cabinets •

EnviroMax Bio-Enclosure Specifications

Superstructure is constructed of square tube steel with electrostatic applied epoxy powder coat finish. Rear wall is of composite resin and the side walls are of tempered glass. The front features a hingeup safety viewing window for loading and set-up of equipment and a clear access opening below for user operation. The worksurface is fabricated of type 304 stainless steel which includes a full width perforated front area for air to exit the enclosure and an exhaust plenum below the surface with duct connection for 100% exhaust. HEPA filtration is ceiling mounted providing ISO 5 clean air into the enclosure. HEPA filters are 99.99% efficient and include a pre-filter. Enclosure is equipped with fluorescent lighting, light switch, fan switch with speed control, magnehelic gauge, and support table.

HEPA filtered clean air is introduced into the enclosure creating a laminar downward airflow pattern that exits through a perforation across the front of the worksurface. This bathes the instrumentation, samples and process in class 100 (ISO 5) clean air and ensures that it is protected from outside contamination.

Air also enters through the sash opening on the front of the enclosure. This air has a face velocity of 100 fpm which upon passing the frontal plane of the sash opening is immediately drawn down and exits through the perforation across the front of the worksurface. This inward flow of air serves as the protection for the user and by exiting through the perforation, contamination never breaches the air curtain created by the laminar downward airflow from the filter modules.



FnviroMax Enclosure Specification Planner By _____

Customer Project ____

Date

Please note on the line drawings below dimensions, type of doors, door locations and service requirements. Please email completed form to info@hemcocorp.com.

Note: Dimensions I.D or O.D.
Width Note: Shown with Clean Workstation Height Rear, Right Side, Top View Rear, Right Side, Top View
TYPE OF ENCLOSURES
HAZARDOUS CONTAINMENT EXHAUST ENCLOSURE 1. Doors: Horizontal SlideVertical SlideHinge-UpHinge-Out Access: FrontRearRightLeftAll 2. Wall/Ceiling Panels: GlassAcrylicCompositePhenolic 3. Lighting: FluorescentExplosion ProofNone Baffle: YesNoIf Yes, TopRear 4. Explaust Collar Diameter
4. Exhaust Collar Diameter 5. Exhaust Fan: Yes No If Yes, CFM Or ACH 6. Filter: Yes No If Yes, HEPA Carbon
6. Filter: Yes No If Yes, HEPACarbon
CLEAN WORKSTATION ENCLOSURE 1. Doors: Horizontal Slide Hinge-UP Access: Front Rear Right Left All
2. Wall/Ceiling Panels: Glass Acrylic Composite Phenolic
3. Lighting: Fluorescent. UV Explosion proof None, 4. HEPA Filtration: Class / ISO Other
BIO-ENCLOSURE 1. Doors: Standard Hinge-up View Shield Other Access: Front
 2. Wall Panels: Composite ResinGlass 3. Standard Stainless Steel worksurface with perforated flow-thru, and lower exhaust plenum Exhaust - 100%
Note: Does this enclosure need to ship knockdown to allow passage clearance through doorways, corridors, elevators, etc. Yes No If yes, please provide dimensions of doorways, etc

<u> FnviroMa 🖉 Bench Stands & Worksurfaces</u>



Standard Bench/Stands for **Unitized Enclosures**

- Available in 4', 5', 6' & 8' widths. Depths of 30" & 36".
- Tested to 2000 lb. load capacity.
- Adjustable telescoping 2" square steel legs adjust to 28", 30", 32" & 34" heights.
- Sturdy dual locking bolts on each leg.
- Height adjustable leveling legs on all four legs.
- Optional seismic levelers for legs.

Standard color: Lab White



- 1" thick Epoxy resin,
- 1" Phenolic resin
- 1-1/2" thick Plastic laminate
- 1-1/4" thick ESD electrostatic dissipating laminate
- Aluminum or Stainless steel \ optical breadboard

Custom Bench / Stand options include:

- · Lower steel shelf for added storage
- Seismic levelers
- Std swivel locking casters (set of 4)
- Roll and set casters (set of 4)
- Available in ADA or sitting height
- •Options include cabinets, bottom shelves
- See Table Specification Planner page 9



Standard Lab-Bench/Stands

"^	""B"∣.		L.				
		Hea	vy Duty Lab	-Bench/S	tands	Optiona	l Shelf
Adjustable height bolts in each leg bolts in each leg		Width	Depth "B"		Depth		
		" A "	27-1/2	"	33-1/2"	1	5"
1-1/4				Cat. No.			
foot r	est optional	48"	54821		54822	54	823
(4) Leve		60"	56021		56022	56	56023
	smic levelers	72"	57221		57222	57223	
Front	View Side View	96"	59621		59622	59	623
	ces Specifications				Width "A'	3	
Material	Description:		Depth "B"	48"	60"	72"	96"
*Durcon Epoxy	Ircon Epoxy 1" thick chemical, heat & abrasive resistant ep		30"	20425	20525	20625	20825
Resin	resin work surface, 30" & 36" depth. color: I	black	36"	36" 20424 2052		20624	20824
1" thick chemical, scratch & wear resist			30"	20427	20527	20627	20827
Phenolic Resin	resin work surface. 30" & 36" depth. color: I	36"	20426	20526	20626	20826	
Plastic	1-1/2" thick, scratch & wear resistant plastic	30"	20428	20528	20628	20828	
Laminate work surface. 30" & 36" depth. color: gray 36"				20429	20529	20629	20829
ESD Laminato	1-1/4" thick, electrostatic dissipative ESD laminate work surface. 30" & 36" depth. color: gray		30"	20422	20522	20622	20822
ESD Laminate			36"	20423	20523	20623	20823
Stainless Steel	1-1/4" thick, stainless steel work surface. 30" & 36" depth.		30"	20431	20531	20631	20831
Stanness Steel			36"	20430	20530	20630	20830
Aluminum Optical	25 mm thick, solid aluminum work surface.	tapped &	30"	20421	20521	20621	20821
Bread Board	anodized, 30" & 36" depth. color: flat black		36"	20420	20520	20620	20820

FnviroMax Bench Stand Specification Planner

Customer	By	
Project	Date	

Please note on the line drawings below dimensions, type of doors, door locations and service requirements. Please email completed form to info@hemcocorp.com.

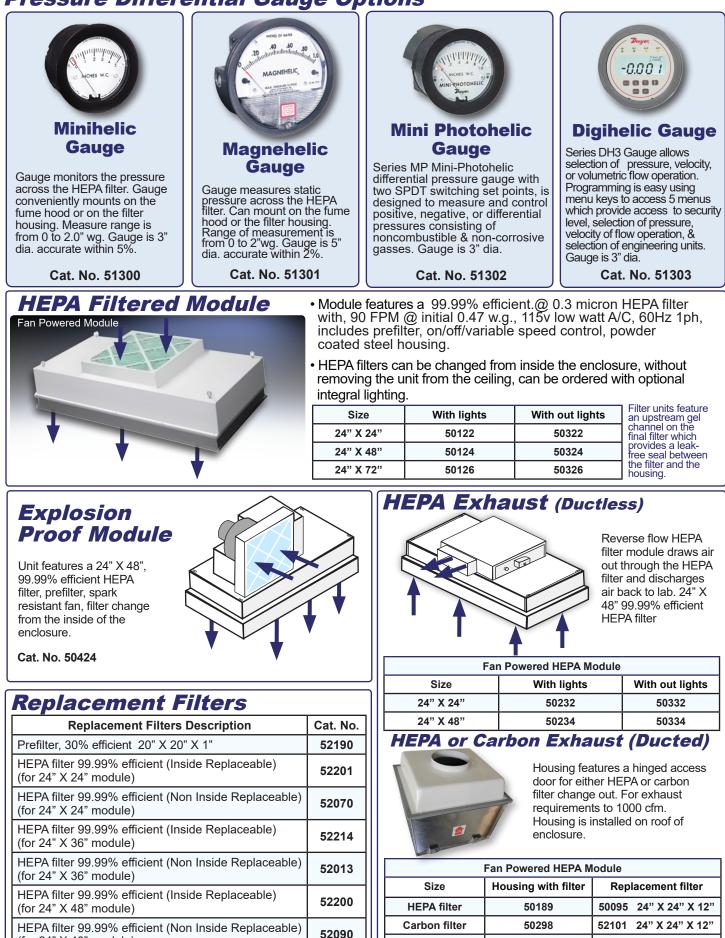
Note: Dimensions I.D or O.D.	orksurface
Depth	Height
TYPE OF TABLE	

SUPPORT TABLE/CABINET

1. Open Leg Table	Enclosed Cabinet			Shelf: Yes	No	
2. If enclosed cabin	et: Hinged doors	s S	Slide doors	Front	Rear	
Right:	Left		All			
3. Mobile: Yes	No Weigh	it load	V	ibration concern		
WORKSURFACE						
1. Phenolic Resin_	Plastic Lami	nate	Stainless St	teel*Durco	n Epoxy	
Breadboard	ESD (Elec	trostatic dis	ssipating) _			
2. Dimensions:	" wide X		" deep X	" thi	ck	
3. Dished: Yes						
4. Sink: Yes):	by	by	
5. Cord Port: Yes						
ELECTRICAL/PLU 1. Plug Strip	_ Pedestal Box _	Num	ber of Plug	-ins Voltag	je	
2. Location						
3. Cord/cable acces						
4. Keycock: Yes	No	_ Type of I	iquid or gas	service		

Note: Does this enclosure need to ship knockdown to allow passage clearance through doorways, corridors, elevators, etc. Yes _____ No _____ If yes, please provide dimensions of doorways, etc._____

FnviroMax Enclosures Accessories Pressure Differential Gauge Options



Prefilter ctn of (6)

52001 24" X 24" X 2"

(for 24" X 48" module)

FnviroMa<u>x Electrical & Plumbing Services</u>

Electrical services are UL, CSA & CE listed. They come factory installed, wired to a single point junction box when ordered with fume hoods. Services must be wired to comply with local codes.





For use in hazardous locations. Grav. two-coat epoxy finish with easily removed prismatic globe. Factory mounted, not wired. Accepts compact fluorescent or LED, (bulb not included) 115V /230V UL listed. Class I Div II Group A, B,C,D Class II Div II Group F& G Cat. No. 50034

Explosion-Proof Switch

For use in

hazardous locations. Surface mount type with cast aluminum housing. Specify 115V/20 amp or 230V/20 amp. LII listed Cat. No. 50036

Continental European Socket with cover cap



Type: CEE7 color: gray Rating 250V/16 amp, installed at factory. Cat. No. 50004

For use in hazardous locations. Gray, two coat epoxy finish with easily removed prismatic globe. Accepts compact fluorescent or LED, (bulb not included) 115V/230V. Factory mounted, not wired. UL listed. Class I Div I Group C, D, Class II Div I Group E, F & G Cat. No. 50038

Explosion-Proof Plug

Adaptable for use with all receptacles. 3-pole, 2-wire, Specify 115V/20 amp or 230V/20 amp AC. Not installed at factory. UL listed. Cat. No. 50039

Indian / South Africa

Type: BS546

Rating 250V/15

Cat. No. 50006

amp, installed at

color: white

factory.

Socket ISA

International Electrical Services

For use in hazardous locations. Surface mount type with

Explosion-Proof Receptacle



Shuttered Socket

United Kingdom / Ireland

Type: BS1363

Rating 250V/13

amp installed at

Cat. No. 50007

color: white

factory.

Specify 115V/20 amp or 230V/20 amp. Not installed at factory. Cat. No. 50037

Explosion-Proof Ground **Fault Interrupter**

Explosion-Proof Fluorescent Lighting

fixture is (2) tube. 115V/230V with tubes

24 inch..... Cat. No. 50077

48 inch..... Cat. No. 50078

changed from the outside. UL listed.

(fluorescent tubes are included)

24",36



For use in hazardous locations. Factory sealed GFI is designed to interrupt a circuit when a ground fault us detected. 115V 60 Hz, 20 amp. Not installed at factory. UL listed. Ćat. No. 50104

Continental European Panel Mount Socket



Type: CEE7 color: white Rating 250V/15 amp installed at factory.

Cat. No. 50008 11



FnviroMa Innovative Enclosures for Robotics & Automated Processes







Request a free brochure at www.HEMCOcorp.com and browse the entire selection of HEMCO Laboratory Equipment



UniFlow Laboratory Fume Hoods Brochure





HEMCO Corporation 711 South Powell Road Independence, MO 64056



Laboratory Planning Solutions Complete **Planning Guide**







UniMax Large

International Society of Pharmaceutical Engineers



Laboratory Ventilation Systems Brochure

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