med associates inc

Instrumentation and Software for Research

CONDITIONED PLACE PREFERENCE

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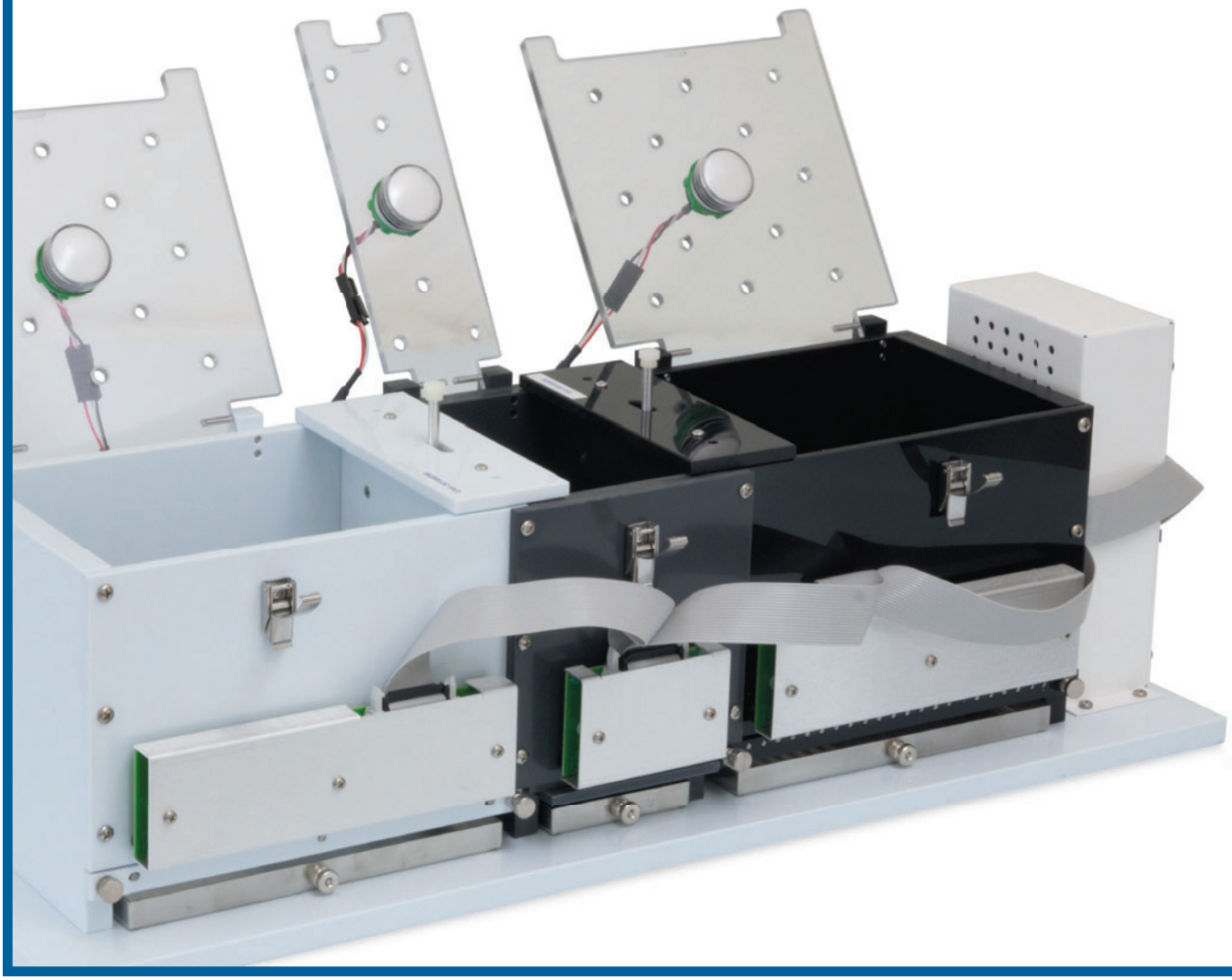
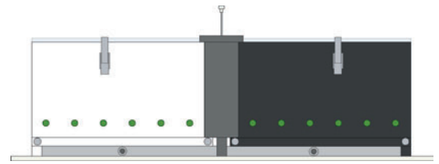
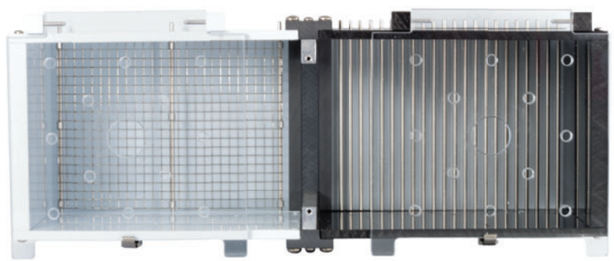


TWELVE INFRARED BEAM ARRAY

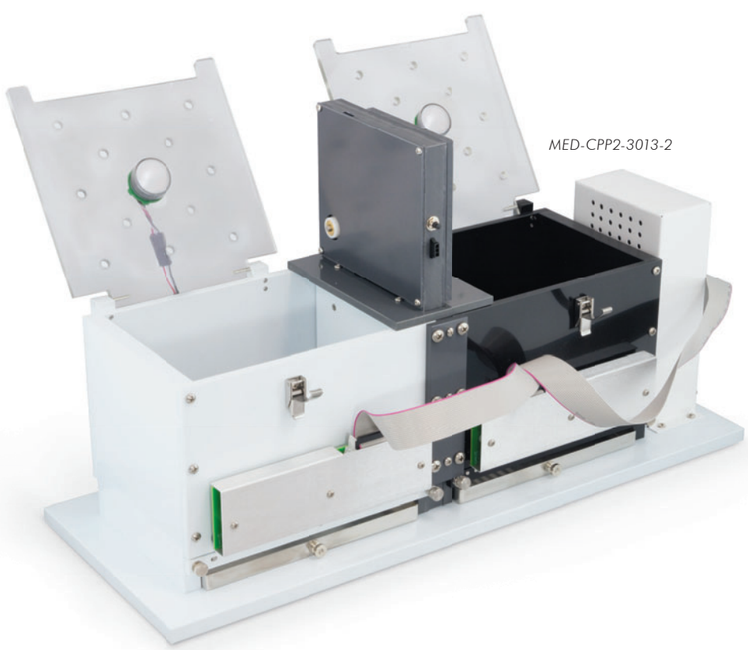


ENV-3013-2



	OPEN HEIGHT (MANUAL DOOR)	OPEN HEIGHT (AUTO DOOR)	COMPARTMENTS (L×W×H)
ENV-013C	13.8″ H *(35.05 cm)*	17.7″ H *(44.96 cm)*	12″ x 8.25″ x 8.25″ *(30.48 x 21 x 21 cm)*
ENV-3013-2	9.8″ H *(24.9 cm)*	13.7″ H *(34.8 cm)*	6.85″ x 5" x 5″ *(17.4 x 12.7 x 12.7 cm)*

MED-CPP2-3013-2



PACKAGE CONTENTS

A = MED-CPP2-013C
B = MED-CPP2-013CAT
C = MED-CPP2-3013-2
D = MED-CPP2-3013-2AT

#	SKU	DESCRIPTION	A	B	C	D
1	ENV-013C	Two Compartment Place Preference Chamber *for Rat*	A	B		
1	ENV-3013-2	Two Compartment Place Preference Chamber *for Mouse*			C	D
1	ENV-013ADBW-S	Auto Door for Two Compartment *Black/White, for Rat*		B		
1	ENV-013MDBW	Manual Door for Two Compartment *Black/White, for Rat*	A			
1	ENV-3014MDBW	Manual Door for Two Compartment *Black/White, for Mouse*			C	
1	ENV-3015BW2	Auto Door for Two Compartment *Black/White, for Mouse*				D
1	DIG-713A	SuperPort 16 Input Module, TTL	A	B	C	D
1	DIG-721	Standard 8 Output Module		B		D
1	ENV-013IR-2	Infrared Detector Package for Two Compartment *for Rat*	A	B		
1	ENV-3013IR-2	Infrared Sensor Package for Two Compartment *for Mouse*			C	D
2	ENV-221-LED	LED Stimulus Light White, 1" *(2.54 cm)*	A	B	C	D
1	ENV-226D	Light Fader Controller *3 Channel, Variable Level*	A	B	C	D
1	ENV-256C	IR Controller *16 Channel*	A	B	C	D
1	SG-210A	Universal Cable, 25' *(7.62 m)*		B		D
1	SG-210TTL-20	DB-25 Cable, 20' *(6.1 m)*	A	B	C	D
1	SG-211P	Interface Cable		B		D
1	SG-215D3	Passive Connection Panel		B		D
1	SG-226B-12	Power Cable for ENV-226B Light, 12' *(3.66 m)*			C	
1	SG-226B-25	Power Cable for ENV-226B Light, 25' *(7.62 m)*	A			

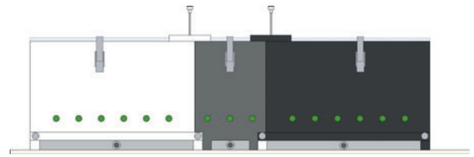
TWO COMPARTMENT PACKAGE

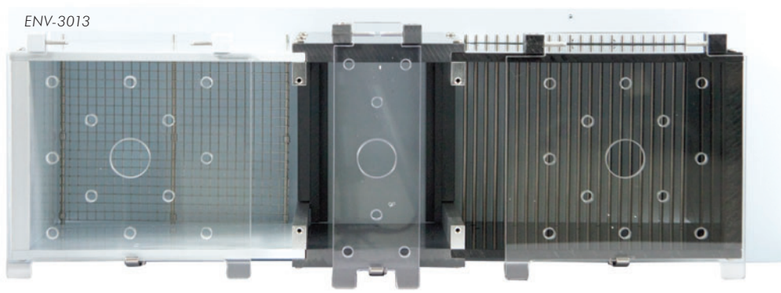
MED-CPP2-013C RAT | MANUAL DOOR | LIGHTS
MED-CPP2-013CAT RAT | AUTO DOOR | LIGHTS
MED-CPP2-3013-2 MOUSE | MANUAL DOOR | LIGHTS
MED-CPP2-3013-2AT MOUSE | AUTO DOOR | LIGHTS

The standard configuration includes a grid rod style floor in the black compartment and a mesh style floor in the white compartment. Available with your choice of a manual or auto guillotine door.

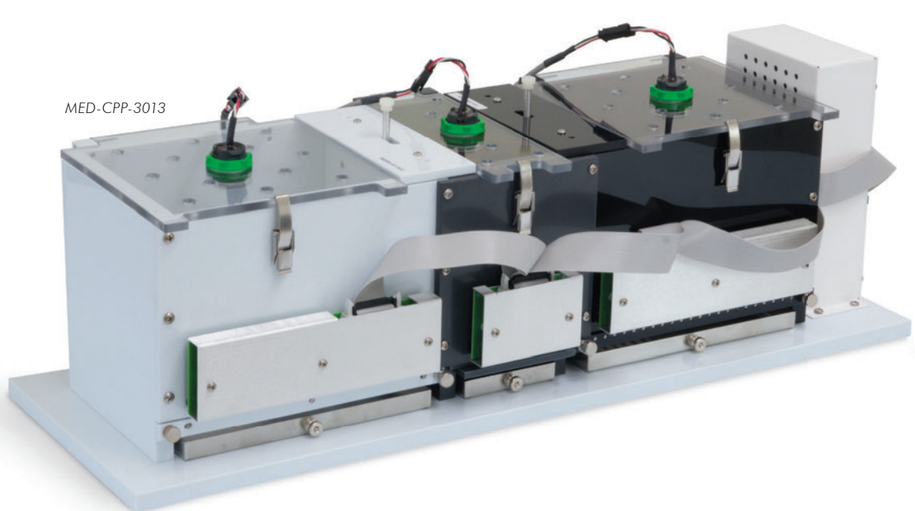
- Two compartment set-up eliminates interpretational difficulties caused by test animals spending excess time in a center compartment
- Animal position is tracked by IR photobeam detectors eliminating issues found with video tracking methods such as varying light levels or obstructed views of the animal
- A black grid rod floor and white mesh floor are included with the chambers
  - Each are available in both black or white for variable context *(sold separately)*
- A maximum of eight (8) chambers can be operated from one interface (not included), and is expandable to sixteen (16) with the addition of another interface cabinet
- Light sources are LED for long lasting and low-heat emitting performance

FIFTEEN INFRARED BEAM ARRAY





	OPEN HEIGHT (MANUAL DOOR)	OPEN HEIGHT (AUTO DOOR)	CHOICE COMPARTMENTS (L×W×H)	MIDDLE COMPARTMENT (L×W×H)
ENV-013	13.8″ H *(35.05 cm)*	17.7″ H *(44.96 cm)*	12″ x 8.25″ x 8.25″ *(30.48 x 21 x 21 cm)*	4.75″ x 8.25″x 8.25" *(12.07 x 21 x 21 cm)*
ENV-3013	9.8″ H *(24.9 cm)*	13.7″ H *(34.8 cm)*	6.85″ x 5" x 5″ *(17.4 x 12.7 x 12.7 cm)*	3.85″ x 5″ x 5″ *(9.8 x 12.7 x 12.7 cm)*



PACKAGE CONTENTS

A = MED-CPP-013
B = MED-CPP-013AT
C = MED-CPP-3013
D = MED-CPP-3013AT

#	SKU	DESCRIPTION	A	B	C	D
1	ENV-3013	Three Compartment Place Preference Chamber *for Mouse*			C	D
1	ENV-013	Three Compartment Place Preference Chamber *for Rat*	A	B		
1	ENV-013BD2	Auto Door for Three Compartment *Black, for Rat*		B		
1	ENV-013WD2	Auto Door for Three Compartment *White, for Rat*		B		
1	ENV-013MDB	Manual Door for Three Compartment *Black, for Rat*	A			
1	ENV-013MDW	Manual Door for Three Compartment *White, for Rat*	A			
1	ENV-3015BD2	Auto Door for Three Compartment *Black, for Mouse*				D
1	ENV-3015WD2	Auto Door for Three Compartment *White, for Mouse*				D
1	ENV-3014MDB	Manual Door for Three Compartment *Black, for Mouse*			C	
1	ENV-3014MDW	Manual Door for Three Compartment *White, for Mouse*			C	
3	ENV-221-LED	LED Stimulus Light White, 1"	A	B	C	D
1	ENV-226D	Light Fader Controller *3 Channel, Variable Level*	A	B	C	D
1	DIG-713A	SuperPort 16 Input Module, TTL	A	B	C	D
1	DIG-721	Standard 8 Output Module		B		D
1	ENV-013IR	Infrared Sensor Package for Three Compartment *for Mouse*	A	B		
1	ENV-3013IR	Infrared Sensor Package for Three Compartment *for Mouse*			C	D
1	ENV-256C	IR Controller, 16 Channel	A	B	C	D
1	SG-210A	Universal Cable, 25' *(7.62 m)*		B		D
1	SG-210TTL-20	DB25 Cable, 20' *(6.1 m)*	A	B	C	D
1	SG-211P	Interface Cable		B		D
1	SG-215D3	Passive Connection Panel		B		D
1	SG-226B-12	Power Cable for ENV-226B Light, 12' *(3.66 m)*	A	B	C	

THREE COMPARTMENT PACKAGE

MED-CPP-013 RAT | MANUAL DOOR | LIGHTS
MED-CPP-013AT RAT | AUTO DOOR | LIGHTS
MED-CPP-3013 MOUSE | MANUAL DOOR | LIGHTS
MED-CPP-3013AT MOUSE | AUTO DOOR | LIGHTS

The standard configuration includes a grid rod style floor in the black compartment and a mesh style floor in the white compartment. Available with your choice of a manual or auto guillotine door.

- Doors on either side of the neutral gray center compartment for controlling access to both ends of the chamber
- Animal position is tracked by IR photobeam detectors eliminating issues found with video tracking methods such as varying light levels or obstructed views of the animal
- A black grid rod floor and white mesh floor are included with the chambers
  - Each are available in both black or white for variable context *(sold separately)*
- A maximum of eight (8) chambers can be operated from one interface (not included), and is expandable to sixteen (16) with the addition of another interface cabinet
- Light sources are LED for long lasting and low-heat emitting performance

PACKAGE CONTENTS

A = **MED-SYST-CPP2-USB-AD**
B = **MED-SYST-CPP2-USB-MD**
C = **MED-SYST-CPP-USB-AD**
D = **MED-SYST-CPP-USB-MD**

#	SKU	DESCRIPTION	A	B	C	D
1	CAB-USB-AM-BM-10	USB Cable, Type A-B, M/M, 10' *(3.05 m)*	A	B	C	D
1	DIG-705	USB Decoder Card	A	B	C	D
1	DIG-709A	Power Distribution Panel, 28V DC	A		C	
1	SG-7316	Large Tabletop Cabinet + Power Supply	A		C	
1	SG-7308	Small Tabletop Cabinet + Power Supply		B		D
1	SOF-700RA-25	Two Compartment Data Collection Utility	A	B		
1	SOF-700RA-4	Three Compartment Data Collection Utility			C	D
1	SOF-736	Med-PC V Software Lab License *(64-bit)*	A	B	C	D
4	SG-210CP-M12-4M	Power Adapter, 1' *(30.48 cm)*		B		D
2 1 2 1	SG-210CP-2	Power Cable, 2' *(61 cm)*	A	B	C	D
1	SG-216B2	Cable Adapter, Female Molex to 0.8" Pins	A		C	

SOF-736

SG-7308

USB INTERFACE PACKAGE FOR TWO CHAMBER CPP

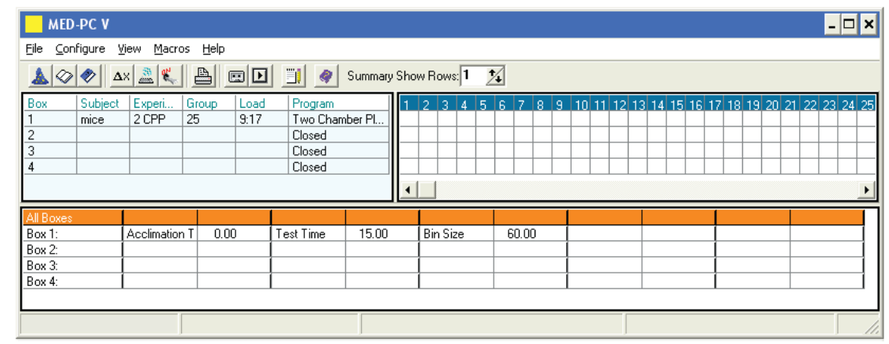
MED-SYST-CPP2-USB-AD MOUSE+RAT | AUTO DOOR
MED-SYST-CPP2-USB-MD MOUSE+RAT | MANUAL DOOR

USB INTERFACE PACKAGE FOR THREE CHAMBER CPP

MED-SYST-CPP-USB-AD MOUSE+RAT | AUTO DOOR
MED-SYST-CPP-USB-MD MOUSE+RAT | MANUAL DOOR

- Interface between software and hardware components for experimental control and data collection
- For up to eight (8) chambers

SOF-700RA-25



TWO COMPARTMENT DATA COLLECTION UTILITY

SOF-700RA-25 MOUSE+RAT

THREE COMPARTMENT DATA COLLECTION UTILITY

SOF-700RA-4 MOUSE+RAT

Both data collection utilites include procedures designed for use with our place preference chambers with either manual or auto doors.

Use in conjunction with Med-PC V *(SOF-736)* and Med-PC to Excel Data Transfer "MPC2XL" Utility *(SOF-731)* to export the data to Microsoft Excel or other similar software for analysis. Refer to our Software brochure for more details.

- Generate data files that contain values for:
  - Activity: Any beam break within the current zone
  - Movement: A change in the beam broken in the current zone
  - Exploration: Breaking of the first beam in a zone
  - Entrance: Breaking of any beam beyond the first in a zone
  - Zone Time: The amount of time (in seconds) spent in the zone

NOTE: Procedure code can also be easily modified to suit specific research needs. The CPP Data Collection programs are designed to be easy to use for researchers who don't have the time to devote to programming and hardware design.

	ARCHWAY HEIGHT
DOORS FOR MOUSE	2.25" H *(5.72 cm)*
DOORS FOR RAT	3.75" H *(9.53 cm)*

ENV-3014MDW

ENV-3014MDB

ENV-3015WD2 (gray side)

ENV-3015WD2 (white side)

ENV-3015BD2 (black side)

	ROD DIAMETER	SPACING
MESH FLOORS FOR MOUSE	0.032" *(0.08 cm)*	0.25" *(0.64 cm)*
GRID ROD FLOORS FOR MOUSE	0.125" *(0.318 cm)*	0.3" *(0.76 cm)*
MESH FLOORS FOR RAT	0.062" *(0.16 cm)*	0.5" *(1.27 cm)*
GRID ROD FLOORS FOR RAT	0.188" *(0.478 cm)*	0.61" *(1.55 cm)*

AUTO DOOR
FOR TWO COMPARTMENT CHAMBERS

ENV-013ADBW2 RAT | AUTO | BLACK+WHITE
ENV-3015BW2 MOUSE | AUTO | BLACK+WHITE

MANUAL DOOR
FOR TWO COMPARTMENT CHAMBERS

ENV-013MDBW RAT | MANUAL | BLACK+WHITE
ENV-3014MDBW MOUSE | MANUAL | BLACK+WHITE

AUTO DOOR
FOR THREE COMPARTMENT CHAMBERS

ENV-013BD2 RAT | AUTO | BLACK
ENV-013WD2 RAT | AUTO | WHITE
ENV-3015BW2 MOUSE | AUTO | BLACK
ENV-3015WD2 MOUSE | AUTO | WHITE

MANUAL DOOR
FOR THREE COMPARTMENT CHAMBERS

ENV-013MDB RAT | MANUAL | BLACK
ENV-013MDW RAT | MANUAL | WHITE
ENV-3014MDB MOUSE | MANUAL | BLACK
ENV-3014MDW MOUSE | MANUAL | WHITE

Our doors for three compartment are gray on one side and colored on the other side to match the choice compartment that it faces; while doors for two compartment are black on one side and white on the other.

Manual Doors: A small arm extends from the top that allows the door to be lifted and locked in the open position.

Auto Doors: Turn the door control line ON (ground) to open the door. Turning the control line OFF allows the door to free fall to the "closed" position.

ENV-013BR

ENV-3013BM

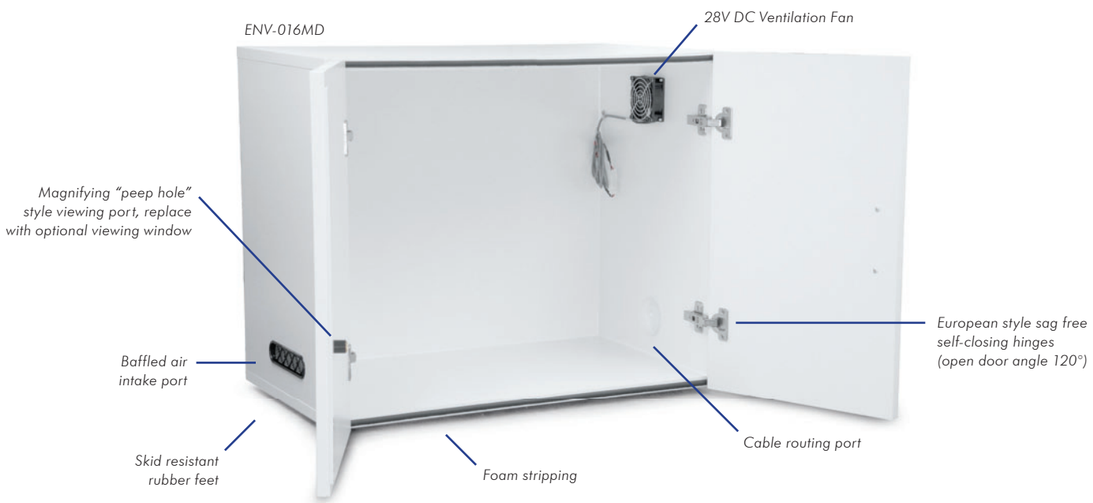
CONTEXTUAL FLOOR

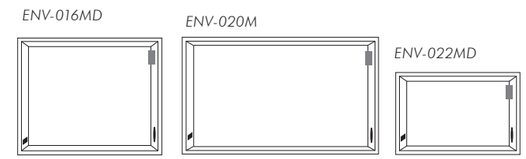
ENV-013BM RAT | MESH | BLACK
ENV-013WM RAT | MESH | WHITE
ENV-013BR RAT | GRID ROD | BLACK
ENV-013WR RAT | GRID ROD | WHITE
ENV-3013BM MOUSE | MESH | BLACK
ENV-3013WM MOUSE | MESH | WHITE
ENV-3013BR MOUSE | GRID ROD | BLACK
ENV-3013WR MOUSE | GRID ROD | WHITE

- Grid floor presents a non-preferred walking surface, while the mesh floor presents a preferred walking surface
- Typically, the white side is non-preferred, while the black side is preferred
- Floor can be easily removed for cleaning
- Stainless steel rods and mesh are corrosion resistant

NOTE: Order both floors to reverse the standard floor context provided with the ENV-013 (rat) or ENV-3013 (mouse) test chamber.

	INTERIOR (W×H×D)	EXTERIOR (W×H×D)	USE WITH
ENV-016MD	27.5″ x 22″ x 16″ *(69.85 x 55.88 x 40.64 cm)*	29″ x 23.98″ x 17.5″ *(73.66 x 60.91 x 44.45 cm)*	ENV-013C
ENV-020M	38" x 22" x 14" *(96.52 x 55.88 x 35.56 cm)*	39.5" x 24" x 15.5" *(100.33 x 60.96 x 39.37 cm)*	ENV-013 / -3013
ENV-022MD	23.5″ x 15″ x 16″ *(55.69 x 38.1 x 40.64 cm)*	25″ x 16.98″ x 17.5″ *(63.5 x 43.13 x 44.45 cm)*	ENV-3013-2





EXTRA WIDE MDF SAC

ENV-016MD RAT

STANDARD MDF SAC

ENV-020M MOUSE+RAT

STANDARD MDF SAC

ENV-022MD MOUSE

- Constructed of Multi Density Fiberboard (MDF), a high density wood composite with thermally infused high pressure laminate inside and out
- See the Operant Conditioning & General Behavior brochure for SAC modifications such as:
  - Acoustical foam lining
  - Electronic shielding
  - Overhead or door camera mount
  - Viewing windows
  - Pull-out shelf

LIGHT FADER CONTROLLER

3 CHANNEL / VARIABLE LEVEL

ENV-226D MOUSE+RAT

- Three independent light intensity dial controls
  - Connect up to two stimulus lamps *(170 mA at 28V DC max)*
  - Each channel can be connected to a 28V DC output for computer control
  - Record and repeat settings precisely
- Connect directly to a power supply when used to counter balance natural preferences in multiple compartment chambers

TWO COMPARTMENT CPP CHAMBER

ENV-013C RAT

ENV-3013-2 MOUSE

THREE COMPARTMENT CPP CHAMBER

ENV-013 RAT

- Clear flip-top lids with ventilation holes
- Holes for stimulus lights *(ENV-221-LED)*

ENV-3013 MOUSE

- A black grid rod floor and white mesh floor are included
  - Each are available in both black or white for variable context *(sold separately)*

med associates inc

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