

PIGEON

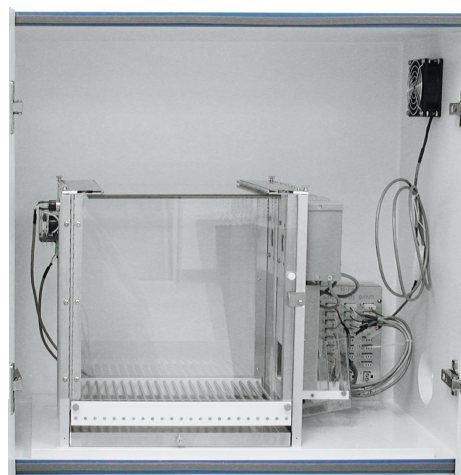
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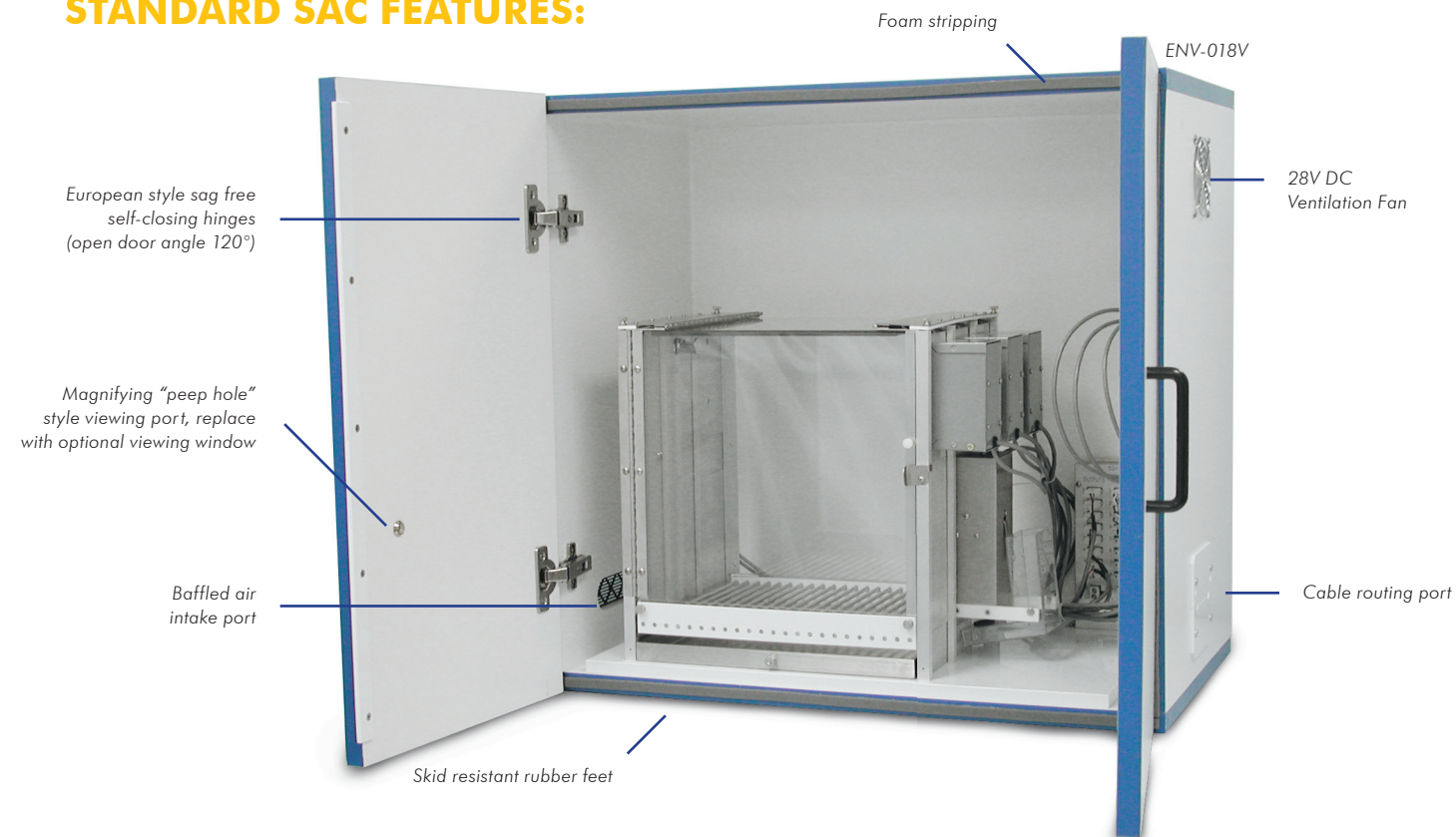
PACKAGE CONTENTS

A = MED-007-P1

#	SKU	DESCRIPTION	A
1	ENV-018V	Extra Tall PVC SAC	A
1	ENV-007	Extra Tall Modular Test Chamber	A
1	ENV-005P	Stainless Steel Grid Floor	A
1	ENV-215M-LED	House Light	A
3	ENV-124AM	Pigeon Key w/Multi-Color Display	A
1	ENV-135M	Response Feedback Clicker Module	A
1	ENV-205M	Grain Feeder	A
1	DIG-716P2	SmartCtrl Package (8 In/16 Out)	A



STANDARD SAC FEATURES:



BEHAVIORAL TEST PACKAGE FOR PIGEON

MED-007-P1 PIGEON

The packages shown are just a few of the available configurations for operant testing. Our sales team can help you build custom chamber configurations using any of these designs as your guide to meet virtually any research requirement.

- Built to meet the needs of researchers performing basic operant behavior studies on a budget

SUMMARY OF CONTENTS

- > Three pecking keys with a three color stimulus
- > Response feedback clicker
- > Grain feeder for reinforcement
- > SmartCtrl Package
- > Sound attenuating cubicle (SAC)
- > Chamber w/grid floor

NOTE: To run multiple modular chambers order the MED-SYST-8-USB interface and software package to run up to eight or the MED-SYST-16-USB to run up to sixteen.



SAC MODIFICATIONS

VIEWING WINDOW

Replace the standard peephole with a single pane polycarbonate window.

- Available in small (shown above) or large
- While any window will sacrifice some attenuation in front of the cubicle, it has little effect on neighboring cubicles

SPEAKER + LIGHT

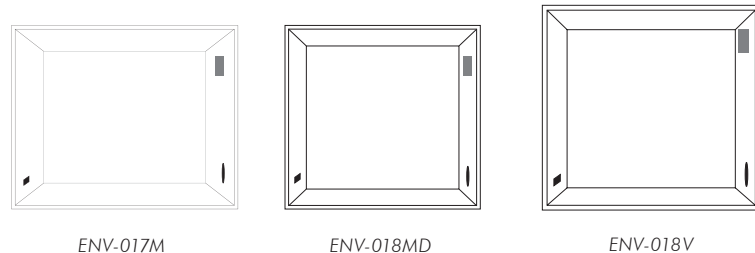
Mount a speaker (ENV-224AM-3) and stimulus light (ENV-221M-

LED) anywhere inside the SAC. Typically positioned directly above the chamber.

PULL-OUT SHELF (MDF only)

Mount a 0.75" (1.9 cm) thick MDF shelf inside the cubicle on drawer slides. Makes the changing out of chambers easier than ever!

NOTE: It is recommended that the back of the cubicle be anchored down for increased stability when sliding the drawer out.



ENV-017M

ENV-018MD

ENV-018V

MDF = MEDIUM DENSITY FIBERBOARD + MELAMINE LAMINATE COATING

Constructed from MDF, a high density wood composite with thermally infused high pressure white laminate inside and out.

EXTRA LARGE MDF SAC

- ENV-017M UN-LINED
- ENV-017M-27 PULL-OUT SHELF
- ENV-017M-W SM WINDOW
- ENV-017M-WF LG WINDOW

Our deepest and widest cubicle.

EXTRA TALL MDF SAC

- ENV-018MD UN-LINED
- ENV-018MD-27 PULL-OUT SHELF
- ENV-018MD-W SM WINDOW
- ENV-018MD-WF LG WINDOW
- ENV-018MD-WF27 LG WINDOW | PULL-OUT SHELF

Additional height for overhead accessories, such as self administration or optogenetics.

PVC = SINTRA® EXPANDED FOAM POLYVINYL CHLORIDE

- Lighter weight than MDF cubicles
- All seams are sealed
- Easy to clean, resistant to staining, moisture, and many chemicals
- Equal sound attenuation performance to MDF

EXTRA TALL PVC SOUND ATTENUATING CUBICLE

- ENV-018V UN-LINED
- ENV-018V-W SM WINDOW

Additional height accommodates standard chambers with overhead accessories, such as self administration or optogenetics.

	INTERIOR (W×H×D)	EXTERIOR (W×H×D)	SMALL WINDOW (W×H)	LARGE WINDOW (W×H)
ENV-017M	27.5" x 22" x 22" (69.85 x 55.88 x 55.88 cm)	29" x 23.98" x 23.5" (73.66 x 60.91 x 59.69 cm)	7.5" x 8" (19.05 x 20.32 cm)	9" x 14.4" (22.86 x 36.58 cm)
ENV-018MD	23.5" x 22" x 16" (59.69 x 55.88 x 40.64 cm)	25" x 23.98" x 17.5" (63.5 x 60.91 x 42.55 cm)	7.5" x 8" (19.05 x 20.32 cm)	21.43" x 20.3" (54.43 x 51.56 cm)
ENV-018V	23.5" x 22" x 14" (59.69 x 55.88 x 35.56 cm)	25" x 23.98" x 15.5" (63.5 x 60.91 x 39.37 cm)	7.5" x 8" (19.05 x 20.32 cm)	N/A



VENTILATION FAN

ENV-025F DC POWER

- Supplied standard with all SACs
- Requires very little current from the control power supply (140 mA)
- Moves up to 46 cfm of air
- Produces background noise reaching 75 dB

AC POWER ADAPTER FOR SAC FAN

SG-216B6 AC POWER

- Plug the DC powered SAC fan into an AC outlet.
- 2-pin Male Molex to 2.5mm 28V DC jack
 - 0.89A/28V DC power supply

SAC-001



STACKING BLOCK KIT

SAC-001

Stack two SACs on each other with space between for hardware and wiring.

Lift Height = 3" H

Footprint = 3" L x 0.75" W

	BASE (LxWxH)	WORKING AREA (ODxD)	CHANNELS	FITS IN SAC
ENV-007	21" x 13.75" x 0.5"	11.63" x 9.25" x 10.75"	6	ENV-018MD / -018V
ENV-007-VP	(53.34 x 34.93 x 1.27 cm)	(53.34 x 34.93 x 27.31 cm)	(3 per wall)	ENV-022MD / -022V

ENV-007 chamber shown with filler panels highlighted



EXTRA TALL MODULAR CHAMBER

ENV-007 PIGEON | STANDARD | FLAP TOP

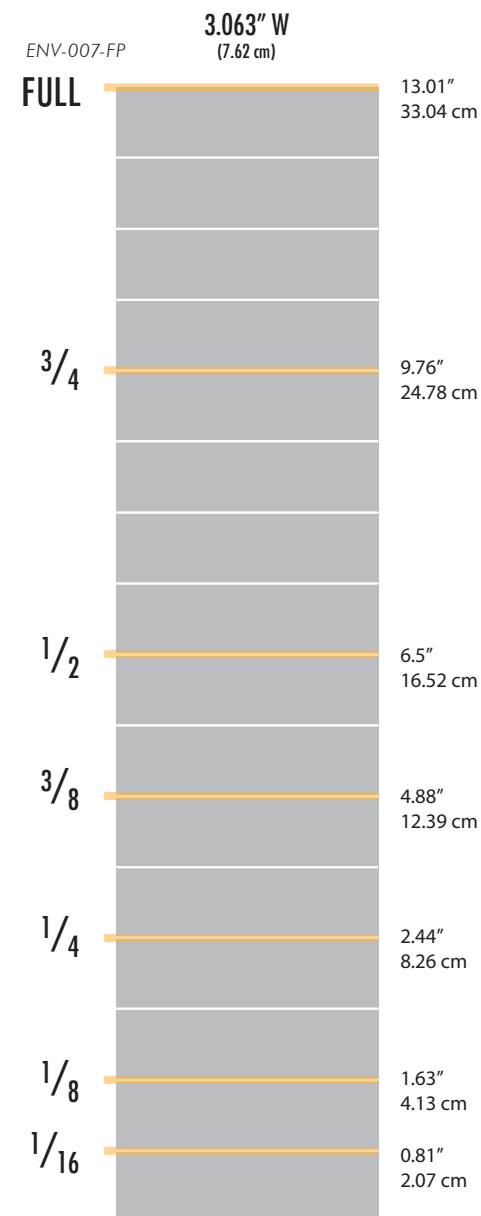
Versatile size can accommodate pigeons, rodents, or unrestrained small primates.

- Includes a stainless steel waste pan (grid floors sold separately)
- White polypropylene base, clear polycarbonate door and rear panel
- Unique flap top design with a clear polycarbonate center and two hinged stainless steel flaps secured with thumb-screws, which makes changing modules quick and easy
- Sturdy aluminum channels securely hold any modular component

ENV-007-VP PIGEON | STANDARD | VALU-PAK TOP

• Valu-pak tops (-VP models) are a lower cost alternative that replaces the flap-top with a solid clear polycarbonate pane screwed in place

- To replace modular components, top must be unscrewed and removed
- Ideal for applications that do not require frequent changing of accessories



FILLER PANEL PACKAGE

ENV-007-FP PIGEON | STANDARD

Assorted stainless steel panel sizes to fill modular channels where components are either not used, or to adjust their vertical position.

- Split up into 16 sections (see chart for visual breakdown)

NOTE: With the purchase of chamber and accessories appropriate size filler panels are supplied at no cost.



	RODS	ROD SIZE (OD)	ROD SPACING	WASTE PAN
ENV-005P	23	0.187" (0.47 cm)	0.5" (1.27 cm)	ENV-007A3



GRID FLOOR

ENV-005P SMALL PRIMATE | STANDARD

Stainless steel grid rods mounted in white polypropylene supports.

- Floor is easily removed via two thumbscrews for cleaning
 - Stainless steel waste pan is autoclavable
- Unsuitable for aversive stimulation applications

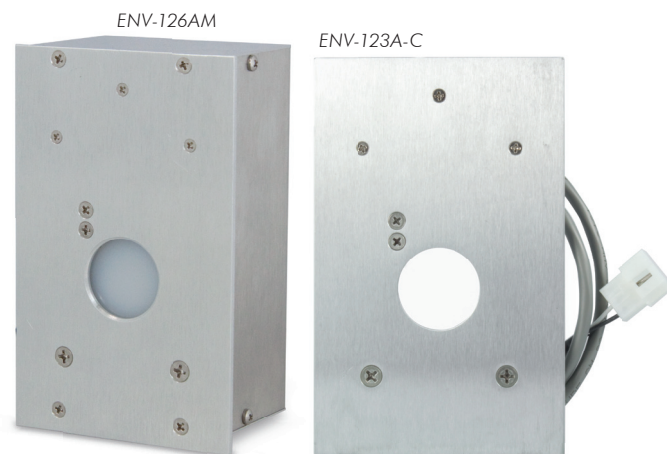


GRAIN FEEDER

ENV-205M PIGEON STANDARD 1/2

- Unit is supplied with two access openings to accommodate different beak sizes
 - Note: for birds with thick beaks, the 0.5" (1.3 cm) hole at the bottom can be drilled out as needed
- 28 V DC solenoid activated hopper designed to ensure reliable delivery of grain
- Built-in light illuminates the large receptacle area when grain is accessible
- Single control line activates both the hopper and light
- Clear plastic hopper easily removed for cleaning
- Free of sharp metal edges

Note: requires ~1" (2.54 cm) space below receptacle for pivoting hopper



RESPONSE KEY w/LED MULTI-COLOR DISPLAY

ENV-126AM PIGEON STANDARD 3/8

- Legacy Mode = produce 12 different colors that approximate the colors available in our pigeon keys (ENV-123AM / -124AM)
 - NOTE: requires 6 outputs
- Enhanced Mode = produce up to 4,096 different colors by turning on multiple outputs. Colors are produced by mixing different values of the primary colors (RGB). Each color is allocated four outputs: 1-4 (Red), 5-8 (Green), 9-12 (Blue)
 - NOTE: requires 12 outputs

PIGEON RESPONSE KEY

ENV-123A-C PIGEON STANDARD 3/8 CLEAR
ENV-123A-O PIGEON STANDARD 3/8 OPAQUE

- Provides tactile feedback, a fundamental element that helps facilitate shaping and learning Plastic target can be backlit
- Infrared detector placed 0.25" (0.64 cm) in from the front edge (ENV-11AM only)
- Control amplifier operates on 28 V DC, produces ground output when beam is broken
- Use with any "switch" input interface module or SmartCtrl



	KEY (ODxD)	POSITION (H)	SENSITIVITY
ENV-123A-C	1" x 0.094" (2.54 x 0.24 cm)	2.048" (5.2 cm)	35 g
ENV-123A-O	1" x 0.094" (2.54 x 0.24 cm)	2.048" (5.2 cm)	5-500 g (user defined)
ENV-126AM	1" x 0.94" (2.54 x 0.24 cm)	2.05" (5.2 cm)	15 g
ENV-131M	1" x 0.94" (2.54 x 0.24 cm)	2.05" (5.2 cm)	12-15 g

RESPONSE KEY w/LCD STIMULUS DISPLAY

ENV-131M PIGEON STANDARD 3/8

- Create custom images on the computer software, then display them using the Response Key Image Downloader (ENV-131M-DL)
- Pre-loaded with 48 image/color combinations:
 - 7 white shapes (triangle, circle, plus, square, X, vertical bar, horizontal bar)
 - 6 solid colors (black, red, green, blue, yellow, ecru)
 - 1 blank

RESPONSE KEY IMAGE DOWNLOADER

ENV-131M-DL

- Store and display up to 64 custom full color 240x320 px 16-bit bitmap (*.bmp) images
- Med Image Downloader Software (SOF-400, included) enables the creation and import of custom images
- Display images on an unlimited amount of response keys (ENV-131M)
- Connects to PC via USB and the Response Key (ENV-131M) via CAT-5 (both included)

**LED HOUSE LIGHT**

ENV-215M-LED | PIGEON | STANDARD | 1/8

- Hood can be rotated to direct light down on the working area or up to reflect light off the ceiling
- Lux Output = 55 lx

INCANDESCENT SAC CEILING MOUNTED HOUSE LIGHT

ENV-221CL

- Used in cubicles for general illumination
- May be wired to the fan circuit to be on all the time or connected to a 28V DC output for computer programmed control
- Comes installed with 100 mA lamp
- Replacement bulbs: (packs of 10)
 - Standard (SG-700A) = 100 mA
 - High intensity (SG-702A) = 170 mA
- Lux Output = 60 lx

NOTE: multiple lights may be needed to fully illuminate larger cubicles

INCANDESCENT HOUSE LIGHT w/DIFFUSER

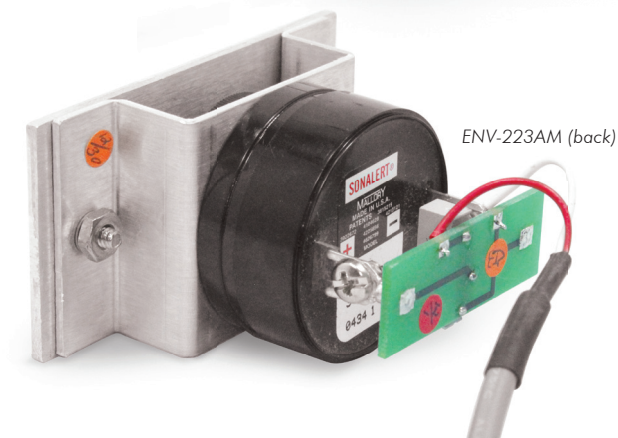
ENV-227M | PIGEON | STANDARD | 1/8

- Use as a house light or stimulus light
- Light is diffused to illuminate the entire chamber
- Clear acrylic beveled diffuser block
- Comes installed with 40 mA lamp
- Lux Output = 40 lx

LED STIMULUS LIGHT WHITE

ENV-221M-LED | PIGEON | STANDARD | 1/8

- Lens is mounted flush with the metal rim to minimize animal chewing
- Colored lens covers: (sold separately)
 - amber, green, white, and red
- Lux Output = 40 lx

**SONALERT MODULE w/ VOLUME CONTROL**

ENV-223AM | PIGEON | STANDARD | 1/4 | 2,900 Hz

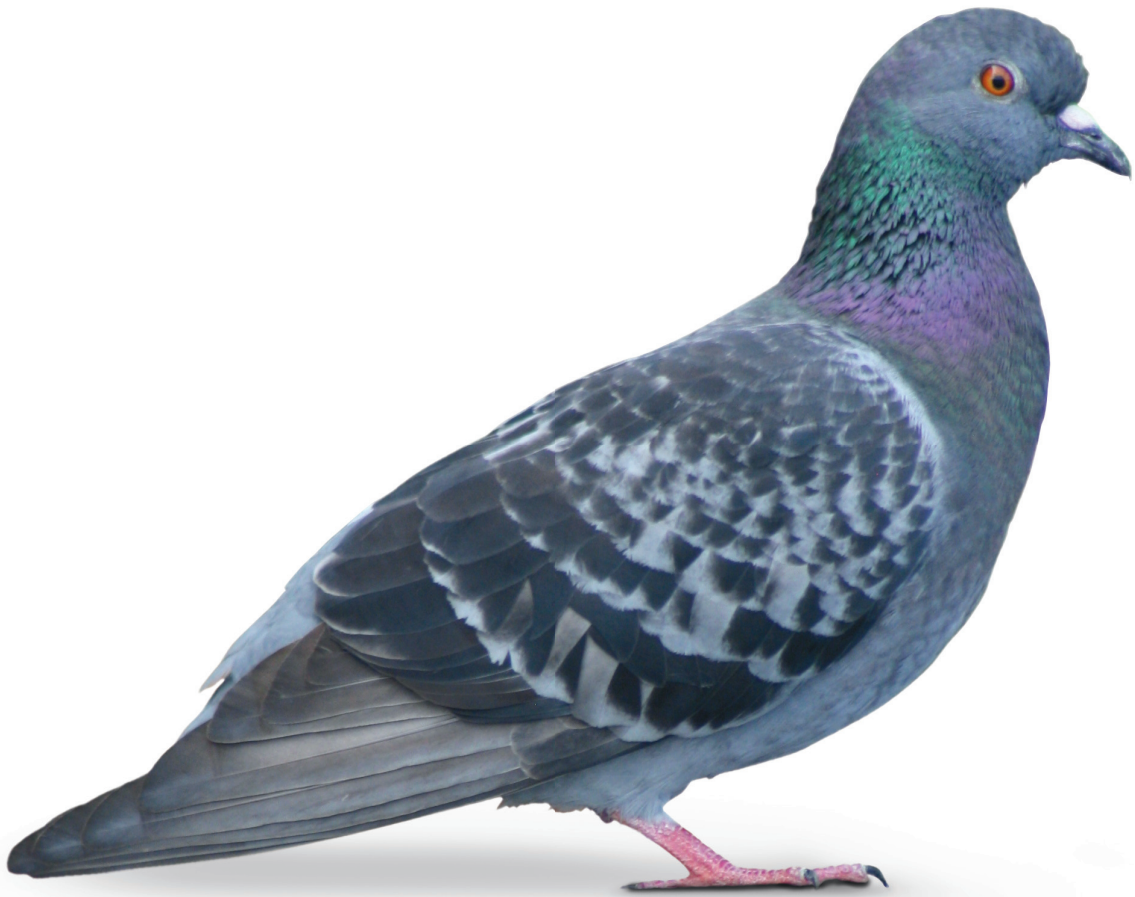
ENV-223HAM | PIGEON | STANDARD | 1/4 | 4,500 Hz

- Simple device designed to deliver a single tone frequency.
- Factory set at 65 dB
- Manually adjustable (using a screwdriver) from approximately 60 – 80 dB

**RESPONSE FEEDBACK CLICKER**

ENV-135M | PIGEON | STANDARD | 3/8

- A very simple 28V mechanical relay that reliably produces a "click" sound
 - Max Frequency = 90 Hz
- Commonly paired with pellet dispenser for a reward cue



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