

Instrumentation and Software for Research

SCAN FOR WEBSITE

SELF ADMINISTRATION

PACKAGES

Overview
Oral for Rat and Mouse
Intravenous for Rat
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COMPONENTS & ACCESSORIES

Sound Attenuating Cubicles 10
Modular Chambers
Chamber Floors
Swivels & Tethers
Syringe Pumps
Software



OVERVIEW

















Counter-clockwise from left: Single Speed Syringe Pump (PHM-200), Modular Chamber w/Modified Top (ENV-008CT), Programmable Audio Generator (ANL-926), Retractable Lever for Rat (ENV-112CM), Small Smart Interface Cabinet (SG-7308), Dual Range Constant Current Aversive Stimulator (ENV-410C), VeriFEED Pellet Dispenser (ENV-204), and Standard MDF Sound Attenuating Cubicle (ENV-018MD)

RODENT SELF ADMINISTRATION SYSTEMS

A typical self-administration package includes a syringe pump, a modular chamber with a drug infusion "modified" top to allow the tether system to enter the chamber, and a sound attenuating cubicle (SAC) to isolate the animal from environmental disturbances.

The packages in this brochure are just a few of the more common configurations that we have assembled over the years. Customize your own using any of these designs as your guide to meet virtually any research requirement by adding components like pellet dispensers, audio generators, or aversive stimulators.*

Each self administration package is a complete single test station with a SmartCtrl™ interface package.*

*See the Operant Conditioning & General Behavior, Power & Control Interface, and Software brochures for more info

Order the MED-SYST-8-USB interface and software package to run up to eight test chambers or the MED-SYST-16-USB to run up to sixteen.

Interface, computer and software are sold separately.

PACKAGE CONTENTS							
	$\mathbf{A} = \mathbf{MED} - 008 - \mathbf{CT} - \mathbf{B3}$ $\mathbf{B} = \mathbf{MED} - 008 - \mathbf{CT} - \mathbf{B4}$						
#	SKU	DESCRIPTION					
1	ENV-018MD	Extra Tall MDF Sound Attenuating Cubicle	A	В			
1	ENV-008CT	Classic Modular Test Chamber w/Modified Top	Α				
1	ENV-005	Stainless Steel Grid Floor for Rat or Mouse	Α	В			
1	ENV-215M-LED	House Light (hooded)		В			
2	ENV-221M-LED	Stimulus Light (white)	Α	В			
2	ENV-110M	Standard Fixed Lever	Α				
1	ENV-200R3AM	Liquid Receptacle, Dual Cup (18 gauge pipes)	Α				
1	ENV-202M-S	Switchable Liquid Dipper for Rat					
1	DIG-716P1*	SmartCtrl Package (4 In/ 8 Out)	A				
2	PHM-200	Single Speed Syringe Pump					
2	PHM-122-18	Liquid Delivery Kit (for 18 ga tubes)	A				

*NOTE: Power cables for SmartCtrl Package sold separately, contact Sales for details.



ORAL DRUG SELF-ADMIN TEST PACKAGE CUP

MED-008-CT-B3 RAT | FIXED LEVERS | LIQUID CUP

Includes everything you need to get going, with two single speed syringe pumps set to 3.33 RPM standard, other speeds are available from 0.1 to 30 RPM (see page 17).

SUMMARY OF CONTENTS

> Extra tall MDF SAC, a classic chamber (modified top), dual liquid cups, house light and stimulus lights, fixed levers (x2), 4in/8out SmartCtrl package, single speed syringe pumps (x2), and a liquid delivery kit.



ORAL DRUG SELF-ADMIN TEST PACKAGE DIPPER

MED-008-CT-B4 RAT FIXED LEVERS LIQUID DIPPER

Includes everything you need to deliver fluid orally via a liquid dipper. Optional dipper cup sizes are available to vary the amount presented.

SUMMARY OF CONTENTS

> Extra tall MDF SAC, classic chamber (modified top), liquid dipper, house light and stimulus lights, fixed levers (x2), and a 4in/8out SmartCtrl package.

INTRAVENOUS DRUG SELF-ADMINISTRATION TEST PACKAGE BASIC

MED-007-CT-B1	RAT FIXED LEVERS SINGLE SPEED XTALL CHAMBER
	RAT RETRACT. LEVERS SINGLE SPEED XTALL CHAMBER
	RAT FIXED LEVERS SINGLE SPEED STANDARD CHAMBER
MED-008-CT-B2	RAT RETRACT. LEVERS SINGLE SPEED STANDARD CHAMBE

The basic package includes everything you need to get going, with a single speed syringe pump set to 3.33 RPM standard, other speeds are available from 0.1 to 30 RPM (see page 17).

SUMMARY OF CONTENTS

An extra tall MDF SAC, a standard or extra tall chamber w/modified top, house light and stimulus lights, fixed or retractable levers, pellet dispenser with a trough, single speed syringe pump, 4in/8out SmartCtrl package, drug delivery arm, and an Instech VAB setup.

INTRAVENOUS DRUG SELF-ADMINISTRATION TEST PACKAGE DELUXE

MED-007-CT-D1	RAT	RETRACT. LEVERS	VAR. SPEED	XTALL CHAMBER	
MED-008-CT-D1	RAT	RETRACT. LEVERS	VAR. SPEED	STANDARD CHAMI	BER

The deluxe package includes everything you need to get going, with a variable speed syringe pump capable of speeds from 0.1 – 30 RPM, adjustable in 0.1 increments.

SUMMARY OF CONTENTS

> An extra tall PVC SAC, a standard or extra tall chamber w/modified top, house light and stimulus lights, retractable levers, pellet dispenser with a trough and head entry detection, variable speed syringe pump, 8in/8out SmartCtrl package, drug delivery arm, and an Instech VAB setup.

	PACKAGE CONTENTS								
	A = MED-007-CT-B1								
#	SKU	DESCRIPTION	A	В	C	D	E	F	
1	ENV-018MD	Extra Tall MDF Sound Attenuating Cubicle	A	В		D	E		
1	ENV-018V	Extra Tall Expanded PVC Sound Attenuating Cubicle			С			F	
1	ENV-007CT	Extra Tall Modular Test Chamber w/Modified Top	A	В	C				
1	ENV-008CT	Standard Modular Test Chamber w/Modified Top				D	E	F	
1	ENV-005	Stainless Steel Grid Floor for Rat or Mouse	A	В	C	D	E	F	
1	ENV-215M-LED	House Light (hooded)	A	В	С	D	E	F	
2	ENV-221M-LED	Stimulus Light (white)	A	В	С	D	E	F	
2	ENV-110M	Standard Fixed Lever	A			D			
2	ENV-112CM	Retractable Lever		В	С		E	F	
1	ENV-200R2M	Pellet Receptacle Trough	Α	В	С	D	E	F	
1	ENV-204	VeriFEED Pellet Dispenser	Α	В	С	D	E	F	
1	ENV-254-CB	Head Entry Detector			С			F	
1	DIG-716P1*	SmartCtrl Package (4 In / 8 Out)	Α	В		D	E		
1	DIG-716P2*	SmartCtrl Package (8 In / 8 Out)			С			F	
1	PHM-200	Single Speed Syringe Pump		В		D	E		
1	PHM-210	Variable Speed Syringe Pump			С			F	
1	PHM-110-SAI	Orug Delivery Arm Assembly (3/8" ID tubing)				D	E	F	
1	PHM-KVABR1T/MED	Magnetic VAB Tether Kit for Rat (single channel)	G , , , , , , , , , , , , , , , , , , ,					F	
1	PHM-VABR1B/22	Magnetic Vascular Access Button "VAB" (22 gauge)						F	

^{*}NOTE: Power cables for SmartCtrl Package sold separately, contact Sales for details.

NOTE: Pictured with old feeder, now includes VeriFEED pellet dispenser



INTRAVENOUS DRUG SELF-ADMINISTRATION TEST PACKAGES BASIC

MED-307A-CT-B1 MOUSE CLASSIC FIXED LEVERS MED-307A-CT-B2 MOUSE CLASSIC NOSE POKE MED-307W-CT-B1 MOUSE WIDE FIXED LEVERS MED-307W-CT-B2 MOUSE WIDE NOSE POKE

The basic package includes everything you need to get going, with a single speed syringe pump set to 3.33 RPM standard, other speeds are available from 0.1 to 30 RPM (see page 17).

SUMMARY OF CONTENTS

> A standard MDF SAC, a standard or wide chamber w/modified top, house light and stimulus lights, fixed levers or nose pokes, pellet dispenser with a trough, single speed syringe pump, 4in/8out SmartCtrl package, drug delivery arm, and an Instech VAB setup.

INTRAVENOUS DRUG SELF-ADMINISTRATION TEST PACKAGES DELUXE

MED-307A-CT-D1 MOUSE CLASSIC RETRACT. LEVERS MED-307W-CT-D1 MOUSE WIDE RETRACT. LEVERS

The deluxe package includes everything you need to get going, with a variable speed syringe pump capable of speeds from 0.1 – 30 RPM, adjustable in 0.1 increments.

SUMMARY OF CONTENTS

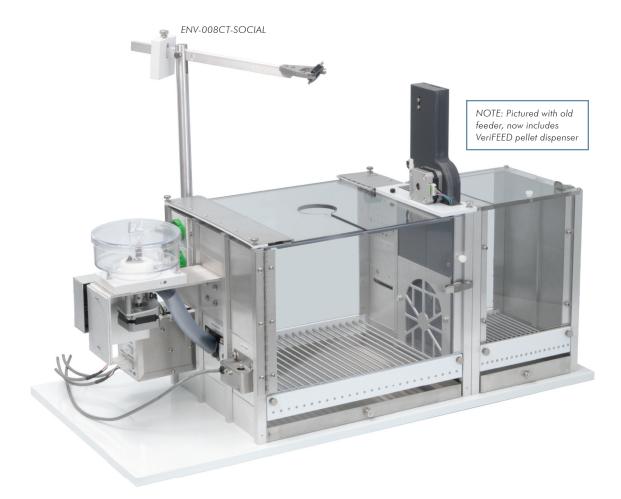
> A PVC SAC, a standard or extra tall chamber w/ modified top, house light and stimulus lights, retractable levers, pellet dispenser with a trough, variable speed syringe pump, 8in/8out SmartCtrl package, drug delivery arm, and an Instech VAB setup.

PACKAGE CONTENTS								
	A = MED-307 B = MED-307 C = MED-307	A-CT-B2	D = MED-307W E = MED-307W F = MED-307W	-CT-I	B2			
#	SKU	DESCRIPTION		A	ВС	D	E	F
1	ENV-022MD	Standard MDF Sound Attenuating Cu	bicle	A	В	D	E	
1	ENV-022V	Expanded PVC Sound Attenuating Cu	bicle		С			F
1	ENV-307A-CT	Classic Mouse Modular Test Chambe	r w/Modified Top	A	ВС			
1	ENV-307W-CT	Wide Mouse Modular Test Chamber v	w/Modified Top			D	E	F
1	ENV-307A-GFW	Stainless Steel Grid Floor for Classic Mou	use Chamber	A	ВС			
1	ENV-307W-GFW	Stainless Steel Grid Floor for Wide Mouse	e Chamber			D	E	F
1	ENV-315M	House Light for Classic Mouse Chamber		A	ВС		E	
1	ENV-315W	House Light for Wide Mouse Chamber				D		F
2	ENV-321M	Stimulus Light Module (white) (classic pan	el)	A	C			_
2	ENV-321W	Stimulus Light Module (white) (wide panel)			D		F
1	ENV-204	VeriFEED Pellet Dispenser		Α	ВС	D	E	F
1	ENV-303M	Pellet Receptacle Trough (classic panel)		Α	ВС			
1	ENV-303W	Pellet Receptacle Trough (wide panel)				D	E	F
2	ENV-310M	Fixed Ultra-Sensitive Lever		Α		П		
2	ENV-310W	Fixed Ultra-Sensitive Lever				D		
2	ENV-312-3M	Retractable Ultra-Sensitive Lever			C	П		
2	ENV-312-3W	Retractable Ultra-Sensitive Lever						F
1	ENV-313M	Illuminated Nose Poke Response			В			
1	ENV-313W	Illuminated Nose Poke Response					E	
1	DIG-716P1*	SmartCtrl Package (4 Input / 8 Output)		Α	В	D	E	
1	DIG-716P2*	SmartCtrl Package (8 Input / 16 Output)			С	Г		F
1	PHM-200	Single Speed Syringe Pump A B D E						
1	PHM-210	Variable Speed Syringe Pump			F			
1	PHM-124MA	Multi-Axis Lever Arm for Mouse Classic Chamber A B C						
1	PHM-124MW	Multi-Axis Lever Arm for Wide Mouse Chamber				F		
1	PHM-VABM1B/25	Magnetic Vascular Access Button "VAI	3 " (25 gauge)	A	ВС	D	E	F
1	PHM-KVABM1T/MED	Magnetic VAB Tether Kit for Mouse (single	e channel)	A	ВС	D	E	F

*NOTE: Power cables for SmartCtrl Package sold separately, contact Sales for details.

SOCIAL SELF ADMINISTRATION

	BASE (L×W×H)	MAIN CHAMBER (L×W×H)	SIDE CHAMBER (L×W×H)	FITS IN SAC
ENV-008CT-SOCIAL	27" x 13.75" x 0.5" (68.58 x 34.93 x 1.27 cm)	11.63" x 9.78" x 7.35" (53.34 x 24.84 x 18.67 cm)	6.1" x 6.3" x 7.35" (53.34 x 24.84 x 18.67 cm)	SAC-302216-27
ENV-307WCT-SOCIAL	27" x 13.75" x 0.5" (68.58 x 34.93 x 1.27 cm)	8.5" x 7.12" x 5" (21.59 x 18.08 x 12.7 cm)	6.1" x 4.9" x 5" (15.5 x 12.4 x 12.7 cm)	ENV-018MD



SOCIAL SELF ADMINISTRATION PACKAGE BASIC

MED-008-CT-SOCIAL RAT STANDARD FIXED+RETRACT. LEVERS SINGLE SPEED MED-307W-CT-SOCIAL MOUSE | WIDE | FIXED+RETRACT. LEVERS | SINGLE SPEED

Originally created for Marco Venniro and Yavin Shaham* as a custom build, the social self-administration chamber is now available as a standard product.

This chamber was crafted to run an operant model in which the rodent engages in lever pressing, rewarded with either social interaction, or a drug infusion. This model is intended for studying the role of operant social reward in addiction, as well as addiction vulnerability.

• A chamber with a modified top for the resident (drug user) rodent is conjoined with a smaller chamber that houses their drug naïve social partner.

• The automatic door linking the two has a customdesigned grate to prevent the rodents from being able to touch, but can still see, smell, and hear each other

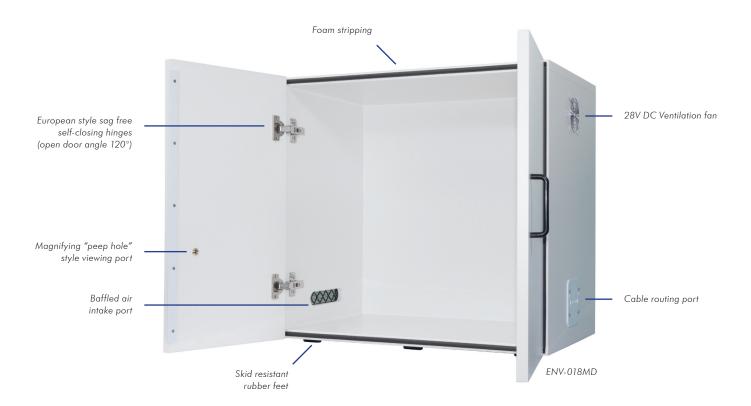
*Venniro, M., Shaham, Y. An operant social self-administration and choice model in rats. Nat Protoc 15, 1542–1559 (2020).

SUMMARY OF CONTENTS

An MDF SAC, a social chamber w/modified top, house light and stimulus lights, fixed lever, retractable levers (x2), pellet dispenser with a cup, single speed syringe pump, sonalert module, 8in/16out SmartCtrl package, drug delivery arm, and an Instech VAB setup.

		Р	ACKAGE CONTENTS		
1 SAC-302216-27 MDF SAC 1 ENV-018MD MDF SAC - Extra Tall 1 ENV-008CT-SOCIAL Social Self-Admin Chamber for Rat 2 ENV-307WCT-SOCIAL Social Self-Admin Chamber for Mouse 3 ENV-3015BD2-SOC Auto Door for Social Chamber 4 ENV-3015BD2-SOCIAL Auto Door for Social Chamber 5 ENV-3015BD2-SOCIAL Auto Door for Social Chamber 6 ENV-307A-GFW-SOC Stainless Steel Grid Floor 7 ENV-307A-GFW-SOC Stainless Steel Grid Floor 8 ENV-307A-GFW-SOC Stainless Steel Grid Floor 9 ENV-307A-GFW-SOC Stainless Steel Grid Floor 1 ENV-215M-LED LED House Light Action of Env-221M-LED LED Stimulus Light White 1 ENV-221M-LED LED Stimulus Light White 2 ENV-221M-LED LED Stimulus Light Ped 3 ENV-315W-LED LED House Light 6 ENV-321W LED Stimulus Light Yellow 7 ENV-321W Dual LED Stimulus Light Yellow 8 ENV-321W Standard Fixed Lever for Rat 8 ENV-110M Standard Fixed Lever for Rat 9 ENV-310W Standard Fixed Lever for Mouse 1 ENV-310W Standard Fixed Lever for Mouse 1 ENV-310W Standard Fixed Lever for Mouse 1 ENV-204 VeriFEED Pellet Dispenser 1 ENV-204 Pellet Cup Receptacle for Mouse 1 ENV-300R1AM Pellet Cup Receptacle for Mouse 1 ENV-300R1AM Pellet Cup Receptacle for Mouse 1 ENV-300R1AW Pellet Cup Receptacle for Mouse 1 PHM-200 Single Speed Syringe Pump 2 PHM-110-SAI Drug Delivery Arm 3 PHM-10-SAI Drug Delivery Arm 4 PHM-10-SAI Drug Delivery Arm 5 PHM-10-SAI Drug Delivery Arm 6 PHM-KVABRIT/MED 1 Channel Magnetic VAB Tether Kit 7 PHM-KVABRIT/MED 1 Channel Magnetic VAB Tether Kit 8 PHM-KVABRIT/MED 3 Channel Magnetic VAB Tether Kit 9 PHM-KVABRIT/MED 3 Channel Magnetic VAB Tether Kit 1 PHM-VABRIB/22 Magnetic Vascular Access Button 22ga 1 ENV-223AM Sonalert Module w/Volume Control 2 ENV-323AW Sonalert Module w/Volume Control 3 DIG-716B SmartCtrl Connection Panel (8 In/16 Out) 4 ENV-323AW Sonalert Module w/Volume Control 5 SG-216A-2 3-Pin Mini-Molex Extension, 2' (61 cm)		A = MED-008-CT-S	OCIAL B = MED-307W-CT-SOCIAL		
1 ENV-018MD MDF SAC - Extra Tall 1 ENV-008CT-SOCIAL Social Self-Admin Chamber for Rat 2 ENV-307WCT-SOCIAL Social Self-Admin Chamber for Mouse 3 ENV-01082-SOC Auto Door for Social Chamber 4 ENV-3015BD2-SOCIAL Auto Door for Social Chamber 5 ENV-3015BD2-SOCIAL Auto Door for Social Chamber 6 ENV-307A-GFW-SOC Stainless Steel Grid Floor 7 ENV-307A-GFW-SOC Stainless Steel Grid Floor 8 ENV-307A-GFW-SOC Stainless Steel Grid Floor 9 ENV-307A-GFW-SOC Stainless Steel Grid Floor 1 ENV-307A-GFW-SOC Stainless Steel Grid Floor 1 ENV-215M-LED LED House Light 2 ENV-221M-LED LED Stimulus Light White 2 ENV-221M-LED LED Stimulus Light White 3 ENV-315W-LED LED Stimulus Light Ped 6 ENV-321W LED Stimulus Light Yellow 7 ENV-321W LED Stimulus Light Yellow 8 ENV-321DW Dual LED Stimulus Light Yellow 9 ENV-321DW Standard Fixed Lever for Rat 9 ENV-112CM Retractable Lever for Rat 9 ENV-310W Standard Fixed Lever for Mouse 1 ENV-310W Standard Fixed Lever for Mouse 1 ENV-310W Standard Fixed Lever for Mouse 1 ENV-204 VeriFEED Pellet Dispenser 1 ENV-204 VeriFEED Pellet Dispenser 1 ENV-204 VeriFEED Pellet Dispenser 1 ENV-200R1AM Pellet Cup Receptacle for Mouse 1 ENV-300R1AW Pellet Cup Receptacle for Mouse 1 ENV-300R1AW Pellet Cup Receptacle for Mouse 1 PHM-200 Single Speed Syringe Pump 2 PHM-110-SAI Drug Delivery Arm 3 PHM-110-SAI Drug Delivery Arm 4 PHM-10-SAI Drug Delivery Arm 5 PHM-KVABRIT/MED 1 Channel Magnetic VAB Tether Kit 6 PHM-KVABRIT/MED 1 Channel Magnetic VAB Tether Kit 7 PHM-KVABRIT/MED 1 Channel Magnetic VAB Tether Kit 8 PHM-KVABRIT/MED 3 Channel Magnetic VAB Tether Kit 9 PHM-KVABRIT/MED 3 Channel Magnetic VAB Tether Kit 1 PHM-VABRIT/MED 3 Channel Magnetic VAB Tether Kit 1 PHM-KVABRIT/MED 3 Channel Magnetic VAB Tether Kit 1 PHM-VABRIT/MED 3 Channel Magnetic VAB Tether Kit 2 PHM-VABRIT/MED 3 Channel Magnetic VAB Tether Kit 3 PHM-CADRA	#	SKU	DESCRIPTION A		
1 ENV-008CT-SOCIAL Social Self-Admin Chamber for Rat 1 ENV-307WCT-SOCIAL Social Self-Admin Chamber for Mouse 1 ENV-010B2-SOC Auto Door for Social Chamber 2 ENV-3015BD2-SOCIAL Auto Door for Social Chamber 3 ENV-005 Stainless Steel Grid Floor 4 ENV-307A-GFW-SOC Stainless Steel Grid Floor 5 ENV-307W-GFW-SOC Stainless Steel Grid Floor 6 ENV-307A-GFW-SOC Stainless Steel Grid Floor 7 ENV-215M-LED LED House Light 8 ENV-221M-LED LED Stimulus Light White 9 ENV-221M-LED LED Stimulus Light Red 9 ENV-315W-LED LED Stimulus Light Yellow 9 ENV-321W LED Stimulus Light Yellow 9 ENV-321DW Dual LED Stimulus Light Yellow 9 ENV-321DW ENV-321DW Dual LED Stimulus Light Yellow 9 ENV-310W Standard Fixed Lever for Rat 9 ENV-310W Standard Fixed Lever for Mouse 9 ENV-310-30W Retractable Lever for Mouse 1 ENV-300R1AM Pellet Cup Receptacle for Rat 1 ENV-200R1AM Pellet Cup Receptacle for Mouse 1 ENV-300R1AW Pellet Cup Receptacle for Mouse 1 ENV-300R1AW Pellet Cup Receptacle for Mouse 1 PHM-110-SAI Drug Delivery Arm 1 PHM-KVABR1T/MED 1 Channel Magnetic VAB Tether Kit 1 PHM-KVABR1T/MED 1 Channel Magnetic VAB Tether Kit 1 PHM-KVABR1T/MED 1 Channel Magnetic VAB Tether Kit 2 ENV-233AW Sonalert Module w/Volume Control 3 ENV-233AW Sonalert Module w/Volume Control 4 ENV-323AW Sonalert Module w/Volume Control 5 SG-216B SmartCtrl Interface Module 6 SG-210CB DB-25 SmartCtrl Cable, M/F, 25' (7.6 m) A I SG-210CB DB-25 SmartCtrl Cable, M/F, 25' (7.6 m) A I SG-210CB DB-25 SmartCtrl Cable, M/F, 25' (7.6 m)	1	SAC-302216-27	MDF SAC		
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1 ENV-3015BD2-SOCIAL Auto Door for Social Chamber 1 ENV-005 Stainless Steel Grid Floor A 1 ENV-307A-GFW-SOC Stainless Steel Grid Floor A 1 ENV-307W-GFW-SOC Stainless Steel Grid Floor A 1 ENV-307A-GFW-SOC Stainless Steel Grid Floor A 1 ENV-307A-GFW-SOC Stainless Steel Grid Floor A 1 ENV-215M-LED LED House Light A 2 ENV-221M-LED LED Stimulus Light White A 1 ENV-221RD-LED LED Stimulus Light Red A 1 ENV-315W-LED LED Stimulus Light Yellow A 1 ENV-321W LED Stimulus Light Yellow A 1 ENV-321DW Dual LED Stimulus Light Yellow A 1 ENV-3110M Standard Fixed Lever for Rat A 2 ENV-112CM Retractable Lever for Rat A 2 ENV-310W Standard Fixed Lever for Mouse A 2 ENV-312-3W Retractable Lever for Mouse A 2 ENV-312-3W Retractable Lever for Mouse A 2 ENV-300R1AM Pellet Cup Receptacle for Rat A 2 ENV-300R1AM Pellet Cup Receptacle for Mouse A 3 ENV-300R1AW Pellet Cup Receptacle for Mouse A 4 ENV-300R1AW Pellet Cup Receptacle for Mouse A 5 ENV-300R1AW Pellet Cup Receptacle for Mouse A 6 ENV-300R1AW Pellet Cup Receptacle for Mouse A 7 ENW-300R1AW Pellet Cup Receptacle for Mouse A 8 ENV-300R1AW Pellet Cup Receptacle for Mouse A 8 ENV-300R1AW Pellet Cup Receptacle for Mouse A 8 ENV-300R1AW Pellet Cup Receptacle for Rat A 8 ENV-310 ENV-310 ENV-310 ENV-310 ENV-310 ENV-310 ENV-310 ENV-310 ENV-310 E	1	ENV-307WCT-SOCIAL	Social Self-Admin Chamber for Mouse		
1 ENV-005 Stainless Steel Grid Floor A 1 ENV-307A-GFW-SOC Stainless Steel Grid Floor A 1 ENV-307W-GFW-SOC Stainless Steel Grid Floor B 1 ENV-307W-GFW-SOC Stainless Steel Grid Floor B 1 ENV-307A-GFW-SOC Stainless Steel Grid Floor B 1 ENV-215M-LED LED House Light A 2 ENV-221M-LED LED Stimulus Light White A 2 ENV-221M-LED LED Stimulus Light Red A 3 ENV-315W-LED LED Stimulus Light Yellow B 4 ENV-321W LED Stimulus Light Yellow B 5 ENV-321DW Dual LED Stimulus Light Yellow B 6 ENV-321DW Dual LED Stimulus Light Yellow B 7 ENV-110M Standard Fixed Lever for Rat A 8 ENV-112CM Retractable Lever for Rat A 8 ENV-310W Standard Fixed Lever for Mouse B 8 ENV-312-3W Retractable Lever for Mouse B 8 ENV-204 VeriFEED Pellet Dispenser A 8 ENV-204 VeriFEED Pellet Dispenser A 8 ENV-204 VeriFEED Pellet Dispenser A 8 ENV-200R1AM Pellet Cup Receptacle for Rat A 8 ENV-300R1AW Pellet Cup Receptacle for Mouse B 9 PHM-200 Single Speed Syringe Pump A 1 ENV-300R1AW Pellet Cup Receptacle for Mouse B 1 PHM-110-SAI Drug Delivery Arm A 1 PHM-110-SAI Drug Delivery Arm A 1 PHM-KVABRIT/MED 1 Channel Magnetic VAB Tether Kit A 1 PHM-KVABRIT/MED 1 Channel Magnetic VAB Tether Kit B 1 PHM-KVABRIT/MED 1 Channel Magnetic VAB Tether Kit B 1 PHM-VABRIB/22 Magnetic Vascular Access Button 22ga A 1 ENV-223AM Sonalert Module w/Volume Control A 1 ENV-323AW Sonalert Module w/Volume Control A 1 ENV-323AW Sonalert Module w/Volume Control A 1 SG-716B SmartCtrl Interface Module A 1 SG-716B SmartCtrl Cable, M/F, 25' (7.6 m) A 1 SG-210CB DB-25 SmartCtrl Cable, M/F, 25' (7.6 m) A 1 SG-210CB SG-216A-2 3-Pin Mini-Molex Extension, 2' (61 cm)	1	ENV-010B2-SOC	Auto Door for Social Chamber		
1 ENV-307W-GFW-SOC Stainless Steel Grid Floor 1 ENV-215M-LED LED House Light A 2 ENV-221M-LED LED Stimulus Light White A 1 ENV-221RD-LED LED Stimulus Light Red A 1 ENV-315W-LED LED Stimulus Light Yellow BENV-321DW LED Stimulus Light Yellow BENV-321DW Dual LED Stimulus Light Yellow BENV-310W Standard Fixed Lever for Rat A 2 ENV-110M Standard Fixed Lever for Mouse BENV-310W Standard Fixed Lever for Mouse BENV-300R1AM Pellet Cup Receptacle for Rat A 1 ENV-300R1AM Pellet Cup Receptacle for Mouse BENV-300R1AW Pellet Cup Receptacle for Rat A BENV-3	1	ENV-3015BD2-SOCIAL	Auto Door for Social Chamber		
1 ENV-307W-GFW-SOC Stainless Steel Grid Floor 1 ENV-215M-LED LED House Light A 2 ENV-221M-LED LED Stimulus Light White A 1 ENV-221RD-LED LED Stimulus Light Red A 1 ENV-315W-LED LED Stimulus Light Yellow BENV-321DW LED Stimulus Light Yellow BENV-321DW Dual LED Stimulus Light Yellow BENV-310W Standard Fixed Lever for Rat A 2 ENV-110M Standard Fixed Lever for Mouse BENV-310W Standard Fixed Lever for Mouse BENV-300R1AM Pellet Cup Receptacle for Rat A 1 ENV-300R1AM Pellet Cup Receptacle for Mouse BENV-300R1AW Pellet Cup Receptacle for Rat A BENV-3	1	ENV-005	Stainless Steel Grid Floor		
1 ENV-307A-GFW-SOC Stainless Steel Grid Floor 1 ENV-215M-LED LED House Light A 2 ENV-221M-LED LED Stimulus Light White A 1 ENV-221RD-LED LED Stimulus Light Red A 1 ENV-315W-LED LED House Light Stimulus Light Yellow BENV-321DW LED Stimulus Light Yellow BENV-321DW Dual LED Stimulus Light Yellow BENV-310M Standard Fixed Lever for Rat A 2 ENV-112CM Retractable Lever for Rat A 2 ENV-312-3W Retractable Lever for Mouse BENV-310-3W Retractable Lever for Mouse BENV-312-3W Retractable Lever for Mouse BENV-204 VeriFEED Pellet Dispenser A 1 ENV-204 VeriFEED Pellet Dispenser A 1 ENV-300R1AM Pellet Cup Receptacle for Mouse BENV-300R1AW Pellet Cup Receptacle for Rat A BENV-300R1AW Pellet Cup Receptacle	1	ENV-307A-GFW-SOC	Stainless Steel Grid Floor		
1 ENV-215M-LED LED House Light A 2 ENV-221M-LED LED Stimulus Light White A 1 ENV-221RD-LED LED Stimulus Light Red A 1 ENV-315W-LED LED House Light Yellow LED Stimulus Light Y	1	ENV-307W-GFW-SOC			
2 ENV-221M-LED 1 ENV-221RD-LED 2 LED Stimulus Light Red 3 LED V-315W-LED 3 LED House Light 4 LED Stimulus Light Yellow 5 ENV-321W 6 LED Stimulus Light Yellow 7 ENV-321DW 7 Dual LED Stimulus Light Yellow 8 LED Stimulus Light Yellow 9 LED Stemulus Light Yellow 9 LED Stimulus Light Yellow 9 LED Stemulus Light Ye	1	ENV-307A-GFW-SOC	Stainless Steel Grid Floor		
1 ENV-315W-LED LED House Light 2 ENV-321W LED Stimulus Light Yellow 1 ENV-321DW Dual LED Stimulus Light Yellow 2 ENV-110M Standard Fixed Lever for Rat 3 ENV-112CM Retractable Lever for Rat 4 ENV-310W Standard Fixed Lever for Mouse 2 ENV-312-3W Retractable Lever for Mouse 4 ENV-204 VeriFEED Pellet Dispenser 5 ENV-204 VeriFEED Pellet Dispenser 6 ENV-200R1AM Pellet Cup Receptacle for Rat 6 ENV-300R1AW Pellet Cup Receptacle for Mouse 7 PHM-200 Single Speed Syringe Pump 8 PHM-110-SAI Drug Delivery Arm 9 PHM-110-SAI Drug Delivery Arm 1 PHM-110-SAI Drug Delivery Arm 1 PHM-KVABR1T/MED 1 Channel Magnetic VAB Tether Kit 1 PHM-KVABR1T/MED 1 Channel Magnetic VAB Tether Kit 1 PHM-VABR1B/22 Magnetic Vascular Access Button 22ga A 1 ENV-223AM Sonalert Module w/Volume Control 1 ENV-323AW Sonalert Module w/Volume Control 1 DIG-716B SmartCtrl Interface Module 1 SG-716B SmartCtrl Interface Module 1 SG-716B SmartCtrl Connection Panel (8 In/16 Out) 2 GR-25 SmartCtrl Cable, M/F, 25' (7.6 m) 3 Pin Mini-Molex Extension, 2' (61 cm)	1	ENV-215M-LED	LED House Light		
1 ENV-315W-LED LED House Light 2 ENV-321W LED Stimulus Light Yellow 1 ENV-321DW Dual LED Stimulus Light Yellow 2 ENV-110M Standard Fixed Lever for Rat 3 ENV-112CM Retractable Lever for Rat 4 ENV-310W Standard Fixed Lever for Mouse 2 ENV-312-3W Retractable Lever for Mouse 4 ENV-204 VeriFEED Pellet Dispenser 5 ENV-204 VeriFEED Pellet Dispenser 6 ENV-200R1AM Pellet Cup Receptacle for Rat 6 ENV-300R1AW Pellet Cup Receptacle for Mouse 7 PHM-200 Single Speed Syringe Pump 8 PHM-110-SAI Drug Delivery Arm 9 PHM-110-SAI Drug Delivery Arm 1 PHM-110-SAI Drug Delivery Arm 1 PHM-KVABR1T/MED 1 Channel Magnetic VAB Tether Kit 1 PHM-KVABR1T/MED 1 Channel Magnetic VAB Tether Kit 1 PHM-VABR1B/22 Magnetic Vascular Access Button 22ga A 1 ENV-223AM Sonalert Module w/Volume Control 1 ENV-323AW Sonalert Module w/Volume Control 1 DIG-716B SmartCtrl Interface Module 1 SG-716B SmartCtrl Interface Module 1 SG-716B SmartCtrl Connection Panel (8 In/16 Out) 2 GR-25 SmartCtrl Cable, M/F, 25' (7.6 m) 3 Pin Mini-Molex Extension, 2' (61 cm)	2	ENV-221M-LED	LED Stimulus Light White		
2 ENV-321W 1 ENV-321DW 2 Dual LED Stimulus Light Yellow 3 ENV-110M 3 Standard Fixed Lever for Rat 4 A 2 ENV-112CM 3 Retractable Lever for Rat 4 A 5 ENV-310W 5 Standard Fixed Lever for Mouse 6 ENV-312-3W 8 Retractable Lever for Mouse 7 ENV-204 8 VeriFEED Pellet Dispenser 9 ENV-200R1AM 9 Pellet Cup Receptacle for Rat 9 ENV-300R1AW 1 ENV-2000 9 Single Speed Syringe Pump 1 PHM-10-SAI 9 PHM-110-SAI 9 Drug Delivery Arm 1 PHM-110-SAI 9 PHM-110-SAI 1 PHM-KVABR1T/MED 1 Channel Magnetic VAB Tether Kit 1 PHM-KVABR1T/MED 1 Channel Magnetic VAB Tether Kit 1 PHM-VABR1B/22 1 ENV-223AM 1 Sonalert Module w/Volume Control 1 ENV-323AW 1 Sonalert Module w/Volume Control 2 ENV-323AW 3 Sonalert Module w/Volume Control 3 ENV-323AW 5 Sonalert Module w/Volume Control 6 SG-716B 7 SmartCtrl Interface Module 7 SG-210CB 7 DB-25 SmartCtrl Cable, M/F, 25' (7.6 m) 7 A ENV-25 (61 cm) 8 ENC-216A-2 8 SG-216A-2 8 A	1	ENV-221RD-LED	LED Stimulus Light Red		
1 ENV-110M Standard Fixed Lever for Rat 2 ENV-112CM Retractable Lever for Rat 3 ENV-310W Standard Fixed Lever for Mouse 2 ENV-312-3W Retractable Lever for Mouse 4 ENV-204 VeriFEED Pellet Dispenser 5 ENV-200R1AM Pellet Cup Receptacle for Rat 6 ENV-300R1AW Pellet Cup Receptacle for Mouse 7 PHM-200 Single Speed Syringe Pump 8 PHM-110-SAI Drug Delivery Arm 9 PHM-110-SAI Drug Delivery Arm 1 PHM-110-SAI Drug Delivery Arm 1 PHM-KVABR1T/MED 1 Channel Magnetic VAB Tether Kit 1 PHM-KVABM1T/MED 1 Channel Magnetic VAB Tether Kit 1 PHM-VABR1B/22 Magnetic Vascular Access Button 22ga A 1 ENV-223AM Sonalert Module w/Volume Control 1 ENV-323AW Sonalert Module w/Volume Control 2 ENV-323AW Sonalert Module w/Volume Control 3 SG-716B SmartCtrl Interface Module 4 SG-716B SmartCtrl Connection Panel (8 In/16 Out) 5 SG-210CB DB-25 SmartCtrl Cable, M/F, 25' (7.6 m) 6 SG-216A-2 3-Pin Mini-Molex Extension, 2' (61 cm)	1	ENV-315W-LED	LED House Light		
1 ENV-110M Standard Fixed Lever for Rat A 2 ENV-112CM Retractable Lever for Rat A 1 ENV-310W Standard Fixed Lever for Mouse 2 ENV-312-3W Retractable Lever for Mouse 1 ENV-204 VeriFEED Pellet Dispenser A 1 ENV-200R1AM Pellet Cup Receptacle for Rat A 1 ENV-300R1AW Pellet Cup Receptacle for Mouse 1 PHM-200 Single Speed Syringe Pump A 1 PHM-110-SAI Drug Delivery Arm A 1 PHM-110-SAI Drug Delivery Arm A 1 PHM-KVABR1T/MED 1 Channel Magnetic VAB Tether Kit A 1 PHM-KVABR1T/MED 1 Channel Magnetic VAB Tether Kit A 1 PHM-VABR1B/22 Magnetic Vascular Access Button 22ga A 1 ENV-223AM Sonalert Module w/Volume Control A 1 ENV-323AW Sonalert Module w/Volume Control B 1 SG-716B SmartCtrl Interface Module A 1 SG-210CB DB-25 SmartCtrl Cable, M/F, 25' (7.6 m) A 1 SG-210CB 3-Pin Mini-Molex Extension, 2' (61 cm) A	2	ENV-321W	LED Stimulus Light Yellow		
2 ENV-112CM Retractable Lever for Rat 1 ENV-310W Standard Fixed Lever for Mouse 2 ENV-312-3W Retractable Lever for Mouse 1 ENV-204 VeriFEED Pellet Dispenser A 1 ENV-200R1AM Pellet Cup Receptacle for Rat A 1 ENV-300R1AW Pellet Cup Receptacle for Mouse I PHM-200 Single Speed Syringe Pump A 1 PHM-110-SAI Drug Delivery Arm A 1 PHM-KVABR1T/MED 1 Channel Magnetic VAB Tether Kit A 1 PHM-KVABR1T/MED 1 Channel Magnetic VAB Tether Kit I PHM-VABR1B/22 Magnetic Vascular Access Button 22ga A 1 ENV-323AW Sonalert Module w/Volume Control A 1 ENV-323AW Sonalert Module w/Volume Control A 1 SG-716B SmartCtrl Interface Module A E 1 SG-210CB DB-25 SmartCtrl Cable, M/F, 25' (7.6 m) A E 1 SG-216A-2 3-Pin Mini-Molex Extension, 2' (61 cm) A	1	ENV-321DW	Dual LED Stimulus Light Yellow		
1 ENV-310W 2 ENV-312-3W 3 Retractable Lever for Mouse 3 ENV-204 4 VeriFEED Pellet Dispenser 5 A 6 ENV-200R1AM 6 Pellet Cup Receptacle for Rat 7 ENV-300R1AW 7 Pellet Cup Receptacle for Mouse 8 ENV-300R1AW 8 Pellet Cup Receptacle for Mouse 9 PHM-200 9 Single Speed Syringe Pump 9 A 1 PHM-110-SAI 9 Drug Delivery Arm 1 PHM-110-SAI 9 Drug Delivery Arm 1 PHM-KVABR1T/MED 1 Channel Magnetic VAB Tether Kit 1 PHM-KVABM1T/MED 1 Channel Magnetic VAB Tether Kit 1 PHM-VABR1B/22 1 ENV-223AM 1 Sonalert Module w/Volume Control 2 Sonalert Module w/Volume Control 3 ENV-323AW 5 Sonalert Module w/Volume Control 6 SG-716B 7 SG-716B 7 SG-716B 7 SG-210CB 7 SG-210CB 7 SG-216A-2 7 Standard Fixed Lever for Mouse 8 ENV-323W 8 Pellet Cup Receptacle for Rat A 8 A 8 A 8 A 8 A 8 B 8 Tether Kit 8 B 8 Sonalert Module w/Volume Control 8 Sonalert Module w/Volume Control 9 Sonalert Module w/Volume Control	1	ENV-110M	Standard Fixed Lever for Rat		
2 ENV-312-3W Retractable Lever for Mouse 1 ENV-204 VeriFEED Pellet Dispenser A 1 ENV-200R1AM Pellet Cup Receptacle for Rat A 1 ENV-300R1AW Pellet Cup Receptacle for Mouse 1 PHM-200 Single Speed Syringe Pump A 1 PHM-110-SAI Drug Delivery Arm A 1 PHM-110-SAI Drug Delivery Arm A 1 PHM-KVABR1T/MED 1 Channel Magnetic VAB Tether Kit A 1 PHM-KVABM1T/MED 1 Channel Magnetic VAB Tether Kit A 1 PHM-VABR1B/22 Magnetic Vascular Access Button 22ga A 1 ENV-223AM Sonalert Module w/Volume Control A 1 ENV-323AW Sonalert Module w/Volume Control A 1 SG-716B SmartCtrl Interface Module A B 1 SG-716B SmartCtrl Connection Panel (8 In/16 Out) A B 1 SG-210CB DB-25 SmartCtrl Cable, M/F, 25' (7.6 m) A B 5 SG-216A-2 3-Pin Mini-Molex Extension, 2' (61 cm) A	2	ENV-112CM	Retractable Lever for Rat		
1 ENV-204 VeriFEED Pellet Dispenser 1 ENV-200R1AM Pellet Cup Receptacle for Rat 1 ENV-300R1AW Pellet Cup Receptacle for Mouse 1 PHM-200 Single Speed Syringe Pump 1 PHM-110-SAI Drug Delivery Arm 1 PHM-110-SAI Drug Delivery Arm 1 PHM-KVABR1T/MED 1 Channel Magnetic VAB Tether Kit 1 PHM-KVABM1T/MED 1 Channel Magnetic VAB Tether Kit 1 PHM-VABR1B/22 Magnetic Vascular Access Button 22ga A 1 ENV-223AM Sonalert Module w/Volume Control 2 ENV-323AW Sonalert Module w/Volume Control 3 DIG-716B SmartCtrl Interface Module 4 SG-210CB DB-25 SmartCtrl Cable, M/F, 25' (7.6 m) 5 SG-216A-2 3-Pin Mini-Molex Extension, 2' (61 cm) A R	1	ENV-310W	Standard Fixed Lever for Mouse		
1 ENV-200R1AM Pellet Cup Receptacle for Rat 1 ENV-300R1AW Pellet Cup Receptacle for Mouse 1 PHM-200 Single Speed Syringe Pump A 1 PHM-110-SAI Drug Delivery Arm 1 PHM-110-SAI Drug Delivery Arm 1 PHM-KVABR1T/MED 1 Channel Magnetic VAB Tether Kit 1 PHM-KVABM1T/MED 1 Channel Magnetic VAB Tether Kit 1 PHM-VABR1B/22 Magnetic Vascular Access Button 22ga A 1 ENV-223AM Sonalert Module w/Volume Control 2 ENV-323AW Sonalert Module w/Volume Control 3 ENV-323AW Sonalert Module w/Volume Control 4 SG-716B SmartCtrl Interface Module 5 SG-716B SmartCtrl Connection Panel (8 In/16 Out) 6 SG-210CB DB-25 SmartCtrl Cable, M/F, 25' (7.6 m) 7 SG-216A-2 3-Pin Mini-Molex Extension, 2' (61 cm)	2	ENV-312-3W	Retractable Lever for Mouse		
Pellet Cup Receptacle for Mouse Pellet Cup Receptacle for Mouse PHM-200 Single Speed Syringe Pump PHM-110-SAI Drug Delivery Arm PHM-110-SAI Drug Delivery Arm PHM-KVABRIT/MED Channel Magnetic VAB Tether Kit PHM-KVABMIT/MED Channel Magnetic VAB Tether Kit PHM-VABRIB/22 Magnetic Vascular Access Button 22ga ENV-223AM Sonalert Module w/Volume Control ENV-323AW Sonalert Module w/Volume Control SmartCtrl Interface Module SG-716B SmartCtrl Connection Panel (8 In/16 Out) SG-210CB DB-25 SmartCtrl Cable, M/F, 25' (7.6 m) SG-216A-2 PHM-VABRIB/22 A B B SG-216A-2 Pellet Cup Receptacle for Mouse A B B SHM-200 A B A B SG-210CB DB-25 SmartCtrl Cable, M/F, 25' (7.6 m) A B SG-216A-2 PHM-I10-SAI A B B A B A B B SMART B A B B SMART B A B SMART B A B SMART B SMA	1	ENV-204	VeriFEED Pellet Dispenser		
1 PHM-200 Single Speed Syringe Pump 1 PHM-110-SAI Drug Delivery Arm A 1 PHM-110-SAI Drug Delivery Arm 1 PHM-KVABR1T/MED 1 Channel Magnetic VAB Tether Kit 1 PHM-KVABM1T/MED 1 Channel Magnetic VAB Tether Kit 1 PHM-VABR1B/22 Magnetic Vascular Access Button 22ga A 1 ENV-223AM Sonalert Module w/Volume Control A ENV-323AW Sonalert Module w/Volume Control DIG-716B SmartCtrl Interface Module 1 SG-716B SmartCtrl Connection Panel (8 In/16 Out) A E 1 SG-210CB DB-25 SmartCtrl Cable, M/F, 25' (7.6 m) A E 5 SG-216A-2 3-Pin Mini-Molex Extension, 2' (61 cm) A E	1	ENV-200R1AM	Pellet Cup Receptacle for Rat		
1 PHM-110-SAI Drug Delivery Arm 1 PHM-110-SAI Drug Delivery Arm 1 PHM-KVABR1T/MED 1 Channel Magnetic VAB Tether Kit 1 PHM-KVABM1T/MED 1 Channel Magnetic VAB Tether Kit 1 PHM-VABR1B/22 Magnetic Vascular Access Button 22ga A 1 ENV-223AM Sonalert Module w/Volume Control 1 ENV-323AW Sonalert Module w/Volume Control 2 DIG-716B SmartCtrl Interface Module 3 SG-716B SmartCtrl Connection Panel (8 In/16 Out) 4 ENV-323AW A Sonalert Module w/Volume Control 5 SG-210CB DB-25 SmartCtrl Cable, M/F, 25' (7.6 m) 6 SG-216A-2 3-Pin Mini-Molex Extension, 2' (61 cm)	1	ENV-300R1AW	Pellet Cup Receptacle for Mouse		
1 PHM-110-SAI Drug Delivery Arm 1 PHM-KVABR1T/MED 1 Channel Magnetic VAB Tether Kit A PHM-KVABM1T/MED 1 Channel Magnetic VAB Tether Kit 1 PHM-VABR1B/22 Magnetic Vascular Access Button 22ga A 1 ENV-223AM Sonalert Module w/Volume Control A ENV-323AW Sonalert Module w/Volume Control DIG-716B SmartCtrl Interface Module 1 SG-716B SmartCtrl Connection Panel (8 In/16 Out) A ENV-323AW A ENGRETARY A ENGRETAR	1	PHM-200	Single Speed Syringe Pump		
1 PHM-KVABR1T/MED 1 Channel Magnetic VAB Tether Kit A 1 PHM-KVABM1T/MED 1 Channel Magnetic VAB Tether Kit I PHM-VABR1B/22 Magnetic Vascular Access Button 22ga A 1 ENV-223AM Sonalert Module w/Volume Control A 1 ENV-323AW Sonalert Module w/Volume Control I DIG-716B SmartCtrl Interface Module A 1 SG-716B SmartCtrl Connection Panel (8 In/16 Out) A 1 SG-210CB DB-25 SmartCtrl Cable, M/F, 25' (7.6 m) A 5 SG-216A-2 3-Pin Mini-Molex Extension, 2' (61 cm) A	1	PHM-110-SAI	Drug Delivery Arm		
1 PHM-KVABM1T/MED 1 Channel Magnetic VAB Tether Kit 1 PHM-VABR1B/22 Magnetic Vascular Access Button 22ga A 1 ENV-223AM Sonalert Module w/Volume Control A 1 ENV-323AW Sonalert Module w/Volume Control B 1 DIG-716B SmartCtrl Interface Module A 1 SG-716B SmartCtrl Connection Panel (8 In/16 Out) A 1 SG-210CB DB-25 SmartCtrl Cable, M/F, 25' (7.6 m) A 5 SG-216A-2 3-Pin Mini-Molex Extension, 2' (61 cm) A	1	PHM-110-SAI	Drug Delivery Arm		
1 PHM-VABR1B/22 Magnetic Vascular Access Button 22ga A 1 ENV-223AM Sonalert Module w/Volume Control A 1 ENV-323AW Sonalert Module w/Volume Control Button 22ga A 1 ENV-323AW Sonalert Module w/Volume Control Button 22ga A 2 ENV-323AW Sonalert Module w/Volume Control Button 22ga A 3 ENV-323AW Sonalert Module w/Volume Control Button 22ga A 3 END 232AW Sonalert Module w/Volume Control Button 22ga A 4 ENV-323AW Sonalert Module w/Volume Control Button 22ga A 5 ENV-323AW Sonalert Module w/Volume Control Button 22ga A 5 ENV-323AW Sonalert Module w/Volume Control Button 22ga A 5 ENV-323AW Sonalert Module w/Volume Control Button 22ga A 5 ENV-323AW Sonalert Module w/Volume Control Button 22ga A 5 ENV-323AW Sonalert Module w/Volume Control Button 22ga A 6 ENV-323AW Sonalert Module w/Volume Control Button 22ga A 6 ENV-323AW Sonalert Module w/Volume Control Button 22ga A 6 ENV-323AW Sonalert Module w/Volume Control Button 22ga A 6 ENV-323AW Sonalert Module w/Volume Control Button 22ga A 6 ENV-323AW Sonalert Module w/Volume Control Button 22ga A 6 ENV-323AW Sonalert Module w/Volume Control Button 22ga A 7 ENV-323AW Sonalert Module w/Volume Control Button 22ga A 7 ENV-323AW Sonalert Module w/Volume Control Button 22ga A 7 ENV-323AW Sonalert Module w/Volume Control Button 22ga A 7 ENV-323AW Sonalert Module w/Volume Control Button 22ga A 8 ENV-323AW Sonalert Module w/Volume Control Button 22ga A 8 ENV-323AW Sonalert Module w/Volume Control Button 22ga A 8 ENV-323AW Sonalert Module w/Volume Control Button 22ga A 8 ENV-323AW Sonalert Module w/Volume Control Button 22ga A 8 ENV-323AW Sonalert Module w/Volume Control Button 22ga A 8 ENV-323AW Sonalert Module w/Volume Control Button 22ga A 8 ENV-323AW Sonalert Module w/Volume Control Button 22ga A 8 ENV-323AW Sonalert Module w/Volume Control Button 22ga A 8 ENV-323AW Sonalert Module w/Volume Control Button 22ga A 8 ENV-323AW Sonalert Module w/Volume Control Button 22ga A 8 ENV-323AW Sonalert Module w/Volume Control Button 22ga A 8 ENV-323AW Sonalert Module w/Volume Control Button 22ga	1	PHM-KVABR1T/MED	1 Channel Magnetic VAB Tether Kit		
1 ENV-223AM Sonalert Module w/Volume Control 1 ENV-323AW Sonalert Module w/Volume Control 1 DIG-716B SmartCtrl Interface Module 1 SG-716B SmartCtrl Connection Panel (8 In/16 Out) 1 SG-210CB DB-25 SmartCtrl Cable, M/F, 25' (7.6 m) 2 SG-216A-2 3-Pin Mini-Molex Extension, 2' (61 cm) 3 A E	1	PHM-KVABM1T/MED	1 Channel Magnetic VAB Tether Kit		
1 ENV-323AW Sonalert Module w/Volume Control 1 DIG-716B SmartCtrl Interface Module A E 1 SG-716B SmartCtrl Connection Panel (8 In/16 Out) A E 1 SG-210CB DB-25 SmartCtrl Cable, M/F, 25' (7.6 m) A E 5 SG-216A-2 3-Pin Mini-Molex Extension, 2' (61 cm) A E	1	PHM-VABR1B/22	Magnetic Vascular Access Button 22ga		
1 DIG-716B SmartCtrl Interface Module A E 1 SG-716B SmartCtrl Connection Panel (8 In/16 Out) A E 1 SG-210CB DB-25 SmartCtrl Cable, M/F, 25' (7.6 m) A E 5 SG-216A-2 3-Pin Mini-Molex Extension, 2' (61 cm) A E	1	ENV-223AM	Sonalert Module w/Volume Control		
1 SG-716B SmartCtrl Connection Panel (8 In/16 Out) A E 1 SG-210CB DB-25 SmartCtrl Cable, M/F, 25' (7.6 m) A E 5 SG-216A-2 3-Pin Mini-Molex Extension, 2' (61 cm) A E	1	ENV-323AW			
1 SG-210CB DB-25 SmartCtrl Cable, M/F, 25' (7.6 m) A E 5 SG-216A-2 3-Pin Mini-Molex Extension, 2' (61 cm) A E	1	DIG-716B			
1 SG-210CB DB-25 SmartCtrl Cable, M/F, 25' (7.6 m) A E 5 SG-216A-2 3-Pin Mini-Molex Extension, 2' (61 cm) A E	1	SG-716B	SmartCtrl Connection Panel (8 In/16 Out)		
5 SG-216A-2 3-Pin Mini-Molex Extension, 2' (61 cm)	1	SG-210CB			
	5	SG-216A-2	· · · · · · · · · · · · · · · · · · ·		
	3	SG-216A-3	3-Pin Mini-Molex Extension, 3' (91.4 cm)		





SOUND ATTENTUATING CUBICLE PVC

ENV-018V MOUSE+RAT XTALL ENV-022V MOUSE+RAT STANDARD

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

SOUND ATTENTUATING CUBICLE MDF

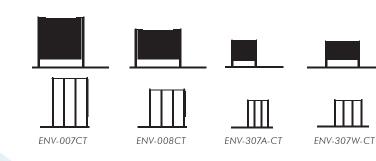
ENV-018MD MOUSE+RAT XTALL ENV-022MD MOUSE+RAT STANDARD SAC-302216-27 RAT XTALL

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

	BASE (L×W×H)	WORKING AREA (L×W×H)	FITS IN SAC
ENV-007CT	21" x 13.75" x 0.5" (53.34 x 34.93 x 1.27 cm)	11.63" x 9.25" x 10.75" (53.34 x 34.93 x 27.31 cm)	ENV-018MD / -018V ENV-022MD / -022V
ENV-008CT	21" x 13.75" x 0.5" (53.34 x 34.93 x 1.27 cm)	11.63" x 9.78" x 7.35" (53.34 x 24.84 x 18.67 cm)	ENV-018MD / -018V ENV-022MD / -022V
ENV-307A-CT	16" x 11.5" x 0.5" (40.64 x 29.21 x 1.27 cm)	6" x 5.25" x 5" (15.24 x 13.34 x 12.7 cm)	ENV-022MD / -022V
ENV-307W-CT	21" x 13.75" x 0.5" (53.34 x 34.93 x 1.27 cm)	8.5" x 7.12" x 5" (21.59 x 18.08 x 12.7 cm)	ENV-022MD / -022V



STANDARD FEATURES:





• Each modular test chamber includes a stainless steel waste pan (grid floors sold separately, see pages 12-13)

- White polyproplyne base, clear polycarbonate door and rear panel
- Rat models have a unique flap top design with a clear polycarbonate center and two hinged stainless steel flaps secured with thumbscrews, which makes changing modules guick and easy
- 6 sturdy aluminum channels (3 per wall) securely hold any modular component

STANDARD MODULAR **CHAMBER** w/MODIFIED TOP

ENV-307A-CT MOUSE CLASSIC ENV-307W-CT MOUSE WIDE

Standard height chamber recommended for most rodent work.

- Designed to reduce distractions for the mouse to improve shaping and performance
- Front loading door that folds down, leaving an extra high lip to contain the animal until removed

EXTRA TALL MODULAR CHAMBER w/MODIFIED TOP

ENV-007CT RAT STANDARD

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

STANDARD MODULAR **CHAMBER** w/Modified top

ENV-008CT RAT STANDARD

Standard height chamber is recommended for most rodent work.

- By combining this chamber with an extra tall sound attenuating cubicle, you will be guaranteed sufficient space for a counter balance arm and drug delivery
- Fits into less expensive SACs and takes up less shelf space than the Extra Tall Modular Chamber (ENV-007)

CHAMBER FLOORS





	RODS	ROD SIZE (OD)	ROD SPACING	FITS CHAMBER	QUICK DISCONNECT HARNESS	WASTE PAN
ENV-005	19	0.187" (0.47 cm)	0.62" (1.57 cm)	ENV-007 / -008	ENV-005-QD	ENV-007A3
ENV-005A	36	0.125" (0.32 cm)	0.32" (0.81 cm)	ENV-007 / -008	ENV-005A-QD	ENV-007A3
ENV-005FPU-M	36	0.125" (0.32 cm)	0.31" (0.79 cm)	ENV-007 / -008	N/A	N/A
ENV-005FPU-R	19	0.19" (0.47 cm)	0.625" (1.59 cm)	ENV-007 / -008	N/A	N/A
ENV-307A-GFW	19	0.125" (0.32 cm)	0.31" (0.79 cm)	ENV-307A	ENV-307A-QD	ENV-307-07
ENV-307W-GFW	24	0.125" (0.32 cm)	0.35" (0.89 cm)	ENV-307W	ENV-307-QD	ENV-307W-07



ENV-009 chamber with ENV-009-GF grid floor

GRID FLOOR

ENV-005 RAT STANDARD
ENV-005A MOUSE STANDARD
ENV-307A-GFW MOUSE CLASSIC
ENV-307W-GFW MOUSE WIDE

Stainless steel grid rods mounted in white polypropylene supports.

- Floor is easily removed via two thumbscrews for cleaning
- Stainless steel waste pan is autoclavable
- Add the quick disconnect harness for aversive stimulation and/or contact lickometer applications



QUICK CHANGE FLOOR W/WASTE PAN

ENV-005FPU-M MOUSE CLASSIC ENV-005FPU-R RAT STANDARD

Combines a removable stainless steel waste pan and floor into one unit.

- Floor can be changed easily between subjects for improved throughput
- Stainless steel grid rods mounted in white polypropylene supports

QUICK DISCONNECT HARNESS

ENV-005A-QD RAT STANDARD ENV-005-QD RAT STANDARD

- Floor can be changed easily between subjects for improved throughput
- Spring-loaded contacts mounted in a polypropylene strip and wired in sequence to a DB-9 connector, when installed, each rod presses firmly against a contact for reliable shock delivery
- Attaches to the rear of the chamber and remains in place when the floor is removed for easy cleaning without wires

NOTE: Will not work with older floors that have been drilled and tapped.

ENV-307A-QD MOUSE CLASSIC ENV-307W-QD MOUSE WIDE

• Use the:

- SG-219G-10 | M/F DB-9 Shock Output Cable to connect with an aversive stimulator
- SG-219G2M | Lickometer Controller Cable to connect with standard contact lickometers
- SG-219G | M/F DB-9 Shock Output Cable to connect with switching lickometers

US Pat. No. 6412441 B1, Canadian Pat. No. 2,368,344, UK Pat. No. 1226750, Australian Patent 772111, France 1,226,750, Germany 602 05 143.6, Italy 1,226,750, The Netherlands 1,226,750, European Pat. No. 1226750, other foreign patents pending.





DISPOSABLE PLASTIC SWIVEL SINGLE CHANNEL

PHM-115IP RAT 22 GAUGE PHM-115IP-25 MOUSE 25 GAUGE

- Instech's plastic infusion swivels are designed for researchers that require components touching the fluid path to be replaced after each experiment
- Plastic swivels are shipped sterile and individually packaged
- Not autoclavable



PHM-124B

DRUG DELIVERY ARM 3/8" GIMBAL RING

PHM-110-SAI RAT

- Includes an aluminum block for mounting on most rat modular test chambers
- The back wall on our ENV-007/-008 modular test chambers is pre-drilled for this block, or it can be mounted on a modular panel
- The post adjusts to extend up to 8" (20.3 cm) above the chamber and 7" (17.8 cm) over the center with a pivot-arm and dual action gimbal
- An adjustable counterbalance weight maintains sufficient tension to keep the leash assembly away from the test animal

STAINLESS STEEL SWIVEL SINGLE CHANNEL

PHM-115 RAT 22 GAUGE PHM-124B MOUSE 25 GAUGE

- Includes a universal swivel-to-tether clamp that connects to all of Instech's button, harness, and head block tethers
- Fully autoclavable





VASCULAR ACCESS BUTTON INSTECH

PHM-VABM1B/25 MOUSE PHM-VABR1B/22 RAT

Instech's mouse VAB™ permits quick, aseptic connection and disconnection of a catheterized mouse and an infusion tether. This updated design uses magnets for ease of use and reduction of impact on animal welfare.

- Catheters attach to a 22 or 25 gauge connector under the felt, and Instech's mouse catheters are designed to be a perfect fit with these connectors
- Models are available for jugular vein, carotid artery and femoral vein/artery.
- Access the built-in port of the button using a syringe fitted with a mating PinPort or VAHLS25/30 injector
- A red aluminum cap (VABM1C) is available to protect the button stalk when group housing mice, sold separately.
- Also available in a 2 channel version for simultaneous infusion and sampling

TETHER KIT

PHM-KVABM1T/MED MOUSE PHM-KVABR1T/MED RAT

- Septum permits aseptic technique
- Quick, low profile connection with minimal backflow





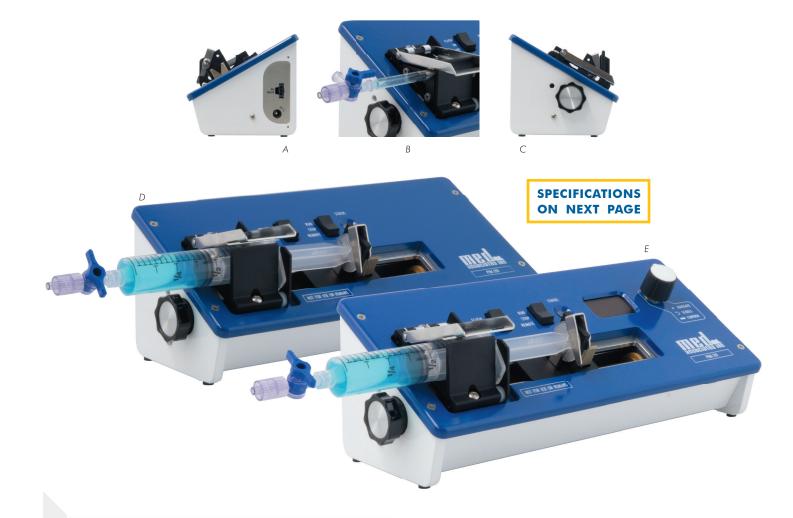
MULTI-AXIS LEVER ARM MODULAR PANEL MOUNT

PHM-124MA MOUSE | 1/4 | CLASSIC

MULTI-AXIS LEVER ARM CEILING MOUNT

PHM-124A MOUSE CEILING MOUNT WIDE

- Generates a light adjustable upward lift to remove tether slack which helps keep the tether out of the animal's reach while allowing unhindered motion of the swivel (sold separately) as it follows the animal
- The classic mouse chamber model is mounted on a modular panel (left), while the wide mouse chamber model is screwed into the ceiling.



The next generation of our time-tested PHM-100 series syringe pump has significant improvements, including a complete redesign of the enclosure, antisiphoning hardware, and a purge/flush feature.

- Can be operated standalone, or activated and de-activated by a Med-PC[®] 28 volt output (3-pin micro-fit molex)
- Time "on" determines the dose
- A built-in limit switch disconnects power when the plunger reaches the end of the syringe
- Stainless steel and aluminum construction

NOTE: A calibration sheet is included with every pump, which supplies a formula for calculating flow rate using any syringe.

IMAGES

A) Right side (MED control and power connections)

- B) 1mL syringe with R-ACC micro syringe adapter (sold separately)
- C) Left side (drive screw adjustment knob)
- D) Single speed syringe pump (PHM-200) shown with 30mL syringe
- E) Variable speed syringe pump (PHM-210) shown with 30mL syringe

SINGLE SPEED SYRINGE PUMP

PHM-200

The motor is single fixed speed, the speed of the motor determines the infusion rate for the syringe.

- Speeds available: 0.1, 0.5, 1, 1.5, 2, 3.33*, 5, 10, 15, 20, 30 RPM
- *NOTE: 3.33 RPM is standard

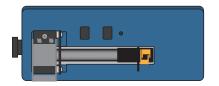
VARIABLE SPEED SYRINGE PUMP

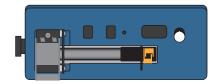
PHM-210

The motor speed is adjustable, the speed of the motor determines the infusion rate for the syringe.

• Adjustable from 0.1 – 30 RPM in 0.1 increments



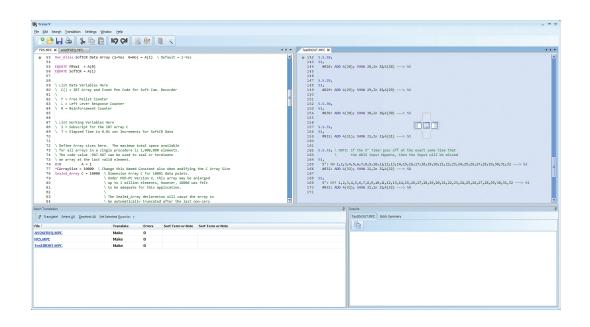




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	PHM-200	PHM-210
COMPARABLE MODELS	PHM-100, PHM-108	PHM-100VS-2, PHM-107
	° Standalone	∘ Standalone
OPERATION	° Remote via Med-PC, using 28 V Output (3-pin micro-fit Molex)	 Remote via Med-PC, using 28 V Output (3-pin micro-fit Molex)
ТҮРЕ	Single Speed	Variable Speed
MOTOR SPEED RANGE	3.33 RPM standard (available: 0.1, 0.5, 1, 1.5, 2, 3.33, 5, 10, 15, 20, 30 RPM)	O.1 - 30 RPM (adjustable in 0.1 RPM increments)
SPEED SELECTOR	N/A (factory set)	1.7" display with rotary encoder
INITIICIONI PATE PANICEI	From 0.2 mL/hr (0.1 RPM + 1mL syringe)	From 0.2 mL/hr (0.1 RPM + 1mL syringe)
INFUSION RATE RANGE ¹	to 32.1 mL/min (30 RPM + 50mL syringe)	to 32.1 mL/min (30 RPM + 50mL syringe)
SYRINGE SIZES ²	1 - 50 mL (small syringes require R-ACC adapter)	1 - 50 mL (small syringes require R-ACC adapter)
SYRINGE TYPE	Plastic or Glass	Plastic or Glass
ELECTRICAL	100V - 240V AC, 50-60 Hz, 25W	100V - 240V AC, 50-60 Hz, 25W
ACCURACY	+/_ 1.5%	+/- 1.5%
LIMIT SWITCH?	YES	YES
REVERSE?	NO	YES
PURGE/FLUSH SPEED	20 RPM	20 RPM
CONSTRUCTION	Stainless Steel, Aluminum	Stainless Steel, Aluminum
OVERALL SIZE	10.5" L x 4.3" W x 3.5" H (26.7 x 10.9 x 8.9 cm)	10.5" L x 4.3" W x 3.5" H (26.7 x 10.9 x 8.9 cm)
ACCESSORIES	R-ACC	R-ACC

- 1) Infusion range is approximate, calculated using example syringes (1mL = 0.174cm² / 50mL = 5.477cm²), different syringes may yield greater or lesser infusion rates.
- 2) Using syringes with plunger flanges greater than 1" OD requires removal of the plunger lock, which disables the syringe reversal feature.

Flow Rate (mL/min) = 0.19538 x Motor RPM x Syringe Cross Sectional Area (cm²)



DRUG SELF INFUSION PROTOCOL

SOF-700RA-10 MOUSE+RAT

- Set test parameters including:
 - Fixed ratio
 - Session time
 - Maximum number of infusions
 - Time out following the infusion
 - Infusion time
 - Enable cumulative record data collection (if available)

- Collected data includes:
 - Total number of lever responses during the fixed ratio
- Number of correct lever responses per minute during the fixed ratio
- Infusion and time out
- Time in the fixed ratio
- Number of infusions

DRUG DISCRIMINATION PROTOCOL

SOF-700RA-24 MOUSE+RAT

- Includes three (3) individual protocols:
 - Food Shaping
 - Training
 - Testing
- Mimics a fixed-ratio (FR) schedule
- Starts by turning on the left & right stimulus lights and house light
- Trial requires the animal to correctly respond with a lever to receive a reward, then time-out

- The program ends when the maximum number of rewards are earned or when the session time ends
- Collected data includes:
 - Total responses
 - Total correct responses
 - Total incorrect responses
 - Percent correct responses
 - Percent incorrect responses



