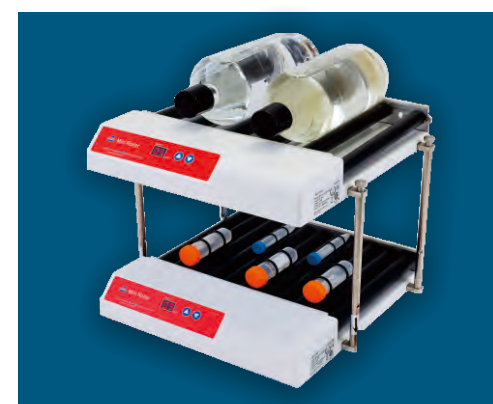




Benchtop Equipment



Crystal Technology & Industries, Inc.

15151 Surveyor Blvd., Suite B, Addison, TX 75001, USA

Tel: 972-934-2525 Fax: 972-934-2526

Web: www.crystalindustries.com

2020

2020 Catalog

Crystal Technology & Industries

Brief Introduction

For over 25 years Crystal Technology & Industries has been driven to deliver more value to the scientific marketplace. Our team of over 40 engineers collaborate closely with top tier research institutions to design & develop products with application specific features at a cost that allows for more research to be accomplished.

This 2020 catalog of bench top equipment products has now expanded to over 60+ items with even more in the final testing phase for 2020.






















All of our products undergo extensive testing to ensure superior quality with failure rates less than 1%. That is why every Crystal Technology product comes with an industry leading 2 year REPLACEMENT WARRANTY.

Sales Area Display

























Our presence is global with dedicated offices/warehouses in North America, Europe & Asia. Yet our goal is total customer satisfaction felt locally. We look forward to serving the scientific community even better in 2020 and beyond.



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Mini Centrifuges



- ◆ Description
- Our mini centrifuges are essential laboratory equipment used in clinical, environmental and industrial research. These personal centrifuges are ideal for quick spins, microfiltration of samples, cell separations and many other routine laboratory procedures.
- ◆ Features
- Ergonomically designed with a small footprint.
 - High grade plastic cover for clear visibility.
 - Smooth and quiet operation.
 - Automatic stop when lid is opened.
 - Digital control delivers precise speed.
 - Fits a variety of tubes with included accessories.

◆ Accessories

Name	Part Number	Pcs/Pack
Adaptors for 0.5ml Tubes	MLXF-1	6
Adaptors for 0.2ml Tubes	MLXF-2	6
Rotor for 16x0.2ml Tubes	MLXF-3	1
Standard Rotor for 6x1.5/2.0ml Tubes	MLXF-7	1



Pink Mini Centrifuge
MLX-104



Ivory-white Mini Centrifuge
MLX-106








Blue Mini Centrifuge
MLX-110

◆ Specifications

Name	Pink Mini Centrifuge	Ivory-white Mini Centrifuge	Blue Mini Centrifuge
Model	MLX-104	MLX-106	MLX-110
For regions other than North America, check the model number in the " Order Information Table "			
Speed	4000rpm	6000rpm	10000rpm
G-force (RCF)	900xg	2000xg	5000xg
Noise Level	≤60dB		
Body Color	Pink	Ivory-white	Blue
Capacity	6x1.5ml / 6x0.5ml / 16x0.2ml		
Accessories included in Standard Packaging	PCR Strip Tube Rotor 16x0.2 ml & Standard Rotor 6x1.5 ml		
Ambient Temperature	5°C~40°C		
Relative Humidity	≤80%		
Power Supply	AC100~240V, 50/60Hz		
Max. Power	8W	10W	30W
Dimensions (WxDxH)	155x140x115mm (6.1x5.5x4.53")		
Net Weight	≤1kg (2.2 lb)		
Safety Feature	Stops When Lid is Opened		
Protection Level	IP21		
Certifications	CE		

◆ Order Information Table

Order Model	Power Supply	Plug Type
MLX-104	AC100-240V, 50 / 60Hz	US 
MLX-106		Eur 
MLX-110		
MLX-104E		UK 
MLX-106E		
MLX-110E		AU 
MLX-104EN		
MLX-106EN		SA 
MLX-110EN		
MLX-104AU		
MLX-106AU		
MLX-110AU		
MLX-104SA		
MLX-106SA		
MLX-110SA		

Tube Revolvers



Tube Revolver with Fixed Speed **TR-01A** (Previous Model HYQ-1130A)



Tube Revolver with Variable Speed and Digital Display **TR-02UA** (Previous Model HYQ-1131A)

◆ Description:

The tube revolver can be used in a variety of laboratory fields such as Molecular Biology, Biochemistry, Clinical, and Histochemistry. The rotisseries are interchangeable so that the unit works with a variety of tube sizes. The four rotisserie paddles can be mixed for a combination of different tubes. Each paddle direction can be independently adjusted from 0-90 degrees. In addition to the speed adjustability and digital display, Model TR-02U can be programmed to operate in a back and forth oscillating mode, simulating the mixing process by hand. Oscillation occurs at every 40 degrees in the rotation. The combination of rotation and oscillation mixes liquid more effectively.

◆ Features:

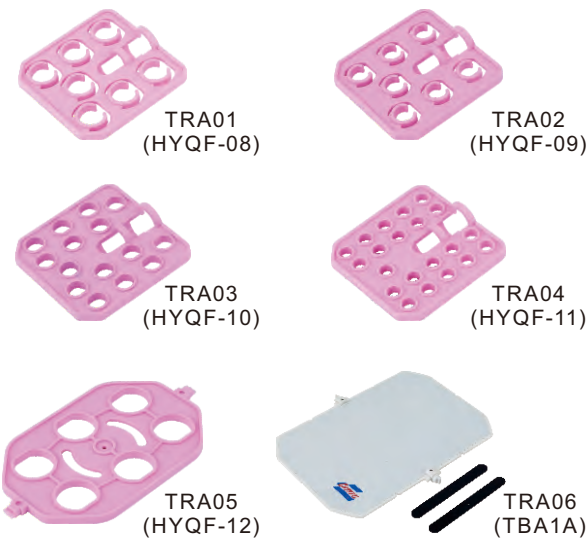
- ☐ Small footprint, “Plug and Play” operation.
- ☐ Includes five different interchangeable rotisseries.
- ☐ Rotation direction can be changed by slightly touching the rotisseries.
- ☐ Paddle angle is adjustable for different mixing purposes.
- ☐ High quality, maintenance-free motor with quiet operation.

◆ Specifications

Name	Tube Revolver with Fixed Speed	Tube Revolver with Variable Speed and Digital Display
Model	TR-01A (Previous Model HYQ-1130A)	TR-02UA (Previous Model HYQ-1131A)
For regions other than North America, check the model number in the “ Order Information Table ”		
Speed	25 rpm	10~40rpm
Speed Accuracy	NA	± 1rpm
Capacity	84x0.5 / 0.8ml Tubes, 60x1.5 / 2.0ml Tubes, 28x5 / 7ml Tubes, 28x10 / 15ml Tubes, 6x50ml Tubes.	
Display	NA	LED
Accessories included in Standard Packaging	TRA01 (2 Pcs), TRA02 (2 Pcs), TRA03 (2Pcs), TRA04 (2 Pcs), TRA05 (1 Pcs).	
Ambient Temperature	4℃~60℃	
Relative Humidity	≤80%	
Power Supply	AC110V, 60Hz	AC100V~240V, 50 / 60Hz
Max. Power	4W	10W
Dimensions (WxDxH)	225x148x195mm (8.86x5.83x7.68")	260x148x195mm (10.24x5.83x7.68")
Net Weight	0.8kg (1.76lb)	1kg (2.2lb)
Protection Level	IP21	
Certifications	CE, RoHS, WEEE	CE, RoHS, WEEE, cCSAus

◆ Accessories

Name	Part Numbe	Pcs / Pack
Rotisserie Paddles for 10ml / 15ml Tubes	TRA01	2
Rotisserie Paddles for 5ml / 7ml Tubes	TRA02	2
Rotisserie Paddles for 1.5ml / 2ml Tubes	TRA03	2
Rotisserie Paddles for 0.5ml / 0.8ml Tubes	TRA04	2
Rotisserie Paddles for 50ml Tubes	TRA05	1
Magnetic Platform for Liquid Mixing in Bags	TRA06	1



◆ Order Information Table

US	Eur	UK	AU	SA	SA	Eur, UK, AU, US
TR-01A	TR-01E*	TR-01EN*	TR-01AU	TR-01SA	TR-02USA	TR-02UA
						TR-02UW
AC110V±11V, 60Hz	AC220V±22V, 50Hz				AC100~240V, 50 / 60Hz	

* Note: For TR-01E, TR-01EN rockers, rocking speed is 22rpm (60Hz), rocking speed is 18rpm (50Hz).

Tube Rotators

◆ Description

The tube rotor is an ideal instrument for numerous applications where high efficiency and consistent mixing are needed. A common place for this instrument is clinical, research and teaching laboratories. Tube rotors are available in an economical fixed speed model and variable speed models with timer. The high-profile tube rotator provides high volume application.



Standard Tube Rotator
TR-03A (90°)



Standard Tube Rotator
TR-03A (135°)



Standard Tube Rotator
TR-03A (180°)



Digital Tube Rotator
TR-04UA (90°)



Digital Tube Rotator
TR-04UA (135°)



Digital Tube Rotator
TR-04UA (180°)

◆ Features

- ☐ Tilt angle is adjustable for accommodating different applications.
- ☐ Variable types of tube holders are available to meet the needs of different tubes.
- ☐ All units are compatible with cold room and incubator environment.
- ☐ TR-04UA and TR-05UA models have speed adjustment, continuous and timer mode with automatic stop.



High Profile Tube Rotator
TR-05UA (95°)



High Profile Tube Rotator
TR-05UA (146°)



High Profile Tube Rotator
TR-05UA (180°)



*Note: Lift the black handle and turn the angle.

◆ Specifications

Name	Standard Tube Rotator	Digital Tube Rotator	High Profile Tube Rotator
Model	TR-03A	TR-04UA	TR-05UA
For regions other than North America, check the model number in the " Order Information Table "			
Speed	24rpm	2~80rpm	5~80rpm
Speed Accuracy	NA	1rpm	
Tilt Angle	90°~180° (Continuous)		95°~180° (Six steps : 95°, 112°, 129°, 146°, 163°, 180°)
Timer	NA	0~99h59min	
Carousel Diameter	Ø250mm (9.84")		15x50ml Tube Holder, Ø290mm (11.42") (Tube carousel)
Capacity	12x50ml/18x15ml/48x2ml/9x50ml & 9x15ml & 12x2ml		15x50ml tubes (27~34mm) / 30x15ml tubes (14~18mm) / 10x10~15ml & 20x5~7ml tubes/ 64x18.5mm culture tubes (drum carousel) / 64x14mm culture tubes (drum carousel)
Display	NA	LCD	LED
Accessories included in Standard Packaging	TRA22 (with 12 pcs of 50ml clamps)		TRA25 (with 15 pcs of 50ml clamps)
Ambient Temperature	5°C~40°C		
Relative Humidity	≤80%		
Power Supply	AC110V/60Hz	AC100~240V, 50/60Hz	
Max. Power	11W	6W	8W
Dimensions (LxWxH)	334x215x405mm (13.2x8.5x16")		440x296x466mm (17.3x11.7x18.3")
Net Weight	3.5kg (7.7 lb)	4kg (8.8 lb)	8.1kg (17.7 lb)
Protection Level	IP21		
Certifications	NA		cCSAus, CE, RoHS, WEEE

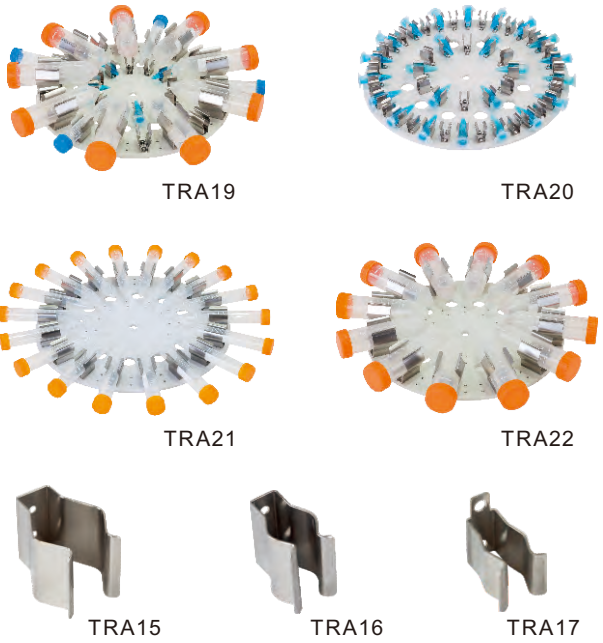
◆ Order Information Table

US		Eur		UK	
TR-03A	TR-04UA	TR-03E*	TR-04UE	TR-03EN*	TR-04UEN
AC110V±11V, 60Hz	AC100~240V, 50 / 60Hz	AC220V±22V, 50Hz	AC100~240V, 50 / 60Hz	AC220V±22V, 50Hz	AC100~240V, 50 / 60Hz
AU		SA		Eur, UK, AU	
TR-03AU*	TR-04UAU	TR-03SA*	TR-04USA	TR-05UW	
AC220V±22V, 50Hz	AC100~240V, 50 / 60Hz	AC220V±22V, 50Hz	AC100~240V, 50 / 60Hz	AC100~240V, 50 / 60Hz	

* Note: For TR-03E, TR-03EN, TR-03AU, TR-03SA rockers, rocking speed is 20rpm.

◆ Accessories for Standard Tube Rotator & Digital Tube Rotator (TR-03A & TR-04UA)

Part Number	Name	Capacity
TRA19	Working Plate for Multi-Tubes	9x50ml/9x15ml/ 12x2ml
TRA20	Working Plate for 2ml Tubes	48x2ml
TRA21	Working Plate for 15ml Tubes	18x15ml
TRA22	Working Plate for 50ml Tubes	12x50ml
TRA15	Tube Holders for 50ml Tubes	NA
TRA16	Tube Holders for 5ml / 10ml / 15ml / 20ml Tubes	NA
TRA17	Tube Holders for 2ml Tubes	NA



◆ Accessories for High Profile Tube Rotator (TR-05UA)

Part Number	Name	Capacity
TRA23	1.5 / 2.0ml rotator assembly	50x1.5ml / 50x2ml
TRA24	15ml rotator assembly	30x15ml
TRA25	50ml rotator assembly	15x50ml
TRA26	10 / 15ml + 5 / 7ml assembly	10x10ml / 10x15ml + 20x5ml / 20x7ml
TRA27	Drum for 14mm culture tubes Dia. 14mm	64xΦ 14mm (0.55")
TRA28	Drum for 18.5mm culture tubes Dia. 18.5mm	64xΦ 18.5mm (0.73")
TRA15	Tube Holders for 50ml Tubes	NA
TRA16	Tube Holders for 15ml Tubes	NA
TRA17	Tube Holders for 2ml Tubes	NA



Mini Rollers

◆ Description

The Mini Roller is used for liquid mixing, cell culture, hybridization, and more. It can operate in a variety of environments including the bench top, regular incubators as well as CO₂ incubators. Additional rollers can be added, up to a total of 11. The different spacing of the rollers allows the user to use a variety of different size tubes and bottles.

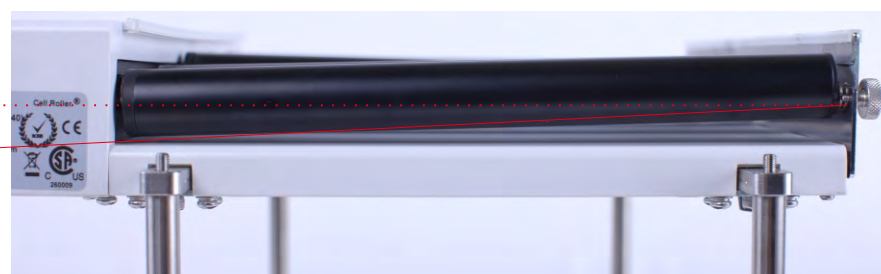
◆ Features

- ☐ Variable speed to accommodate numerous applications.
- ☐ Anti-corrosive and wear-resistant construction for use in humid and CO₂ environments.
- ☐ Easy to add or remove rollers to fit different sized tubes or bottles.
- ☐ Stackable mechanism allows two units to be stacked for space savings.
- ☐ Remote control box makes it easy to operate the unit while it is in an incubator.



Stackable Mini Roller
MR-01UA
(Previous Model HYQ-2240A)

Horizontal Line
18mm
(0.7")
Swing Dimensions



3D Mini Roller **MR-03UA** (MR-03UA provide 3D shaking)



MR-01UA and MR-3UA can be stackable with stacking bars.

◆ Specifications


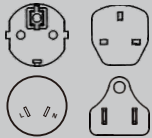

Name	Stackable Mini Roller	3D Mini Roller (Stackable)
Model	MR-01UA (Previous Model HYQ-2240)	MR-03UA
For regions other than North America, check the model number in the “ Order Information Table ”		
Number of Roller Bars	6 Pcs Standard (Optional 11)	11 Pcs
Speed	0.5~80rpm	
Speed Accuracy	±1rpm	
Roller Dimensions (DxL)	Ø28x269mm (Ø1.1x10.6")	Ø25x269mm (Ø0.98x10.6")
Swing Dimensions	NA	18mm (0.71")
Available Tubes or Bottles	Max. Ø120mm (4.72") bottles/tubes	
Max. Load	6.5kg (14.33 lb) with container, 3x1500ml bottles	
Digital Display	Roller Speed Display	
Timing Range (Control Box)	0~999min or continuous operation	
Accessories included in Standard Packaging	MRA02, MRA03, MRA05	
Ambient Temperature	5°C~60°C	
Relative Humidity	≤95%	
Power Supply	AC100~240V, 50/60Hz	
Max. Power	10W	
Dimensions (WxDxH)	378x360x72mm (14.88x14.17x2.83")	
Net Weight	6.5kg (14.33 lb)	
Stacking	Optional	
Protection Level	IP21	
Certifications	cCSAus, WEEE, RoHS, CE	

◆ Accessories

Part Number	Name	Dimensions	Quantity
MRA01 (Previous Model HYQF-20)	Roller	Ø28x269mm (Ø1.1x10.6")	Pack of 2
MRA02 (Previous Model HYQF-21)	O Ring for 50ml tube	Ø23.5x3.55mm (Ø0.93x0.14")	Pack of 20
MRA03 (Previous Model HYQF-22)	O Ring for 15ml tube	Ø13.2x2.65mm (Ø0.52x0.1")	Pack of 20
MRA04 (Previous Model HYQF-23)	Bar for Stacking	Ø12x270mm (Ø0.47x10.63")	Pack of 4
MRA05 (Previous Model HYQF-24)	Control Box	WxD:81x106mm (3.19x4.17")	Pack of 1
MRA07	3D Rocker Roller	Ø25x269mm (Ø0.98x10.6")	Pack of 2



◆ Order Information Table

Order Model	Power Supply	Plug Type
MR-01UA	AC100-240V, 50 / 60Hz	US 
MR-03UA		
MR-01UW		Eur, UK, AU, US 
MR-03UW		
MR-01USA		
MR-03USA		SA 

Mini Vortex Mixers

◆ Description

The mini vortex mixer is the ideal vortex mixer for every lab with its compact size, ease of use, and its economic price point. The 3,000 rpm fixed speed ensures there is no sacrificing any mixing power.

◆ Features

- ☐ Extremely compact and easy operation.
- ☐ Head is made of durable material to ensure long life.
- ☐ Refined steel base is designed to ensure product tability.
- ☐ Powerful vortexing for tubes up to 30mm.
- ☐ Choice of different colored working head.



Mini Vortex Mixer
VM-03UA



Mini Vortex Mixer
VM-03RUA



Mini Vortex Mixer
VM-03GUA



Mini Vortex Mixer
VM-03PUA

◆ Specifications

Name	Mini Vortex Mixer			
Model	VM-03UA	VM-03RUA	VM-03GUA	VM-03PUA
Color	Blue	Red	Green	Purple
For regions other than North America, check the model number in the “ Order Information Table ”				
Speed	3000rpm			
Speed Accuracy	± 10%			
Oscillation Mode	Circumference Oscillation			
Orbital Diameter	Ø4.5mm (Ø0.18")			
Capacity	Max. 80ml			
Accessories included in Standard Packaging	NA			
Tube Diameter	≤Ø30mm (Ø1.18")			
Ambient Temperature	5~40°C			
Relative Humidity	≤80%			
Power Supply	AC100~240V, 50 / 60Hz			
Max. Power	5W			
Dimensions (ΦxH)	96x85mm (3.78x3.35")			
Net. Weight	0.55kg (1.21 lb)			
Protection Level	IP21			
Certifications	CE, RoHS, WEEE			

◆ Accessories

Part Number	Name
VMA11	Red Cap
VMA12	Blue Cap
VMA13	Green Cap
VMA14	Purple Cap



VMA11



VMA12



VMA13



VMA14

◆ Order Information Table

Order Model	Power Supply	Plug Type
VM-03UA	AC100-240V, 50 / 60Hz	US
VM-03RUA		
VM-03GUA		
VM-03PUA		
VM-03UW		Eur, UK, AU, US
VM-03RUW		
VM-03GUW		
VM-03PUW		
VM-03USA		SA
VM-03RUSA		
VM-03GUSA		
VM-03PUSA		

Vortex Mixers

◆ Description

Vortex mixers are essential research lab instruments used for mixing & stirring in a variety of applications. Our strict quality control and manufacturing processes ensure every silentshaker® vortex mixer is precise, accurate and easy to use. These mixers conform to international design specifications and safety regulations to protect the user and environment.

◆ Features

- ☐ Ergonomically designed.
- ☐ Brushless DC motor drive for long life.
- ☐ Three operation modes: touch control, timed, or continuous mode.
- ☐ Constant torque within full range of speed.
- ☐ Counter balance design for minimal body vibration.
- ☐ Universal Head for a wide variety of mixing applications.



VMA06

Use with 96-Well Microplate.



Vortex Mixer with Digital Timer and Analog Speed **VM-01UA**
(Previous Model HYQ-3110A)



Vortex Mixer with Digital Timer & Speed **VM-02UA**
(Previous Model HYQ-3111A)



VMA03



VMA07




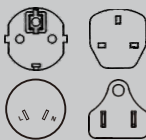

VMA09



◆ Specifications

Name	Vortex Mixer with Digital Timer and Analog Speed Adj.		Vortex Mixer with Digital Timer & Speed
Model	VM-01UA (Previous Model HYQ-3110A)		VM-02UA (Previous Model HYQ-3111A)
For regions other than North America, check the model number in the " Order Information Table "			
Operation Mode	Touch Control Timed or Continuous Run		
Orbital Diameter	Ø4.5mm (Ø0.18")		
Speed	0~3000rpm	200~3000rpm	
Speed Accuracy	±10%		
Timer	1~999min		
Platform Dimension	Φ76mm (2.99")		
Max. Load	0.5kg (1.1lb)		
Speed Display	N/A	LED	
Timing Display	LED		
Accessories included in Standard Packaging	1xVMA01		
Ambient Temperature	5°C~40°C		
Relative Humidity	≤80%		
Power Supply	AC100~240V, 50Hz / 60Hz		
Max. Power	24W		
Dimensions (LxWxH)	205x155x108mm (8.07x4.53x4.25")		
Net. Weight	4kg (8.82 lb)		
Protection Level	IP21		
Certifications	NA		

◆ Order Information Table

Order Model	Power Supply	Plug Type
VM-01UA	AC100-240V, 50 / 60Hz	US 
VM-02UA		
VM-01UW		Eur, UK, AU, US 
VM-02UW		
VM-01USA		SA 
VM-02USA		

◆ Accessories

Part Number	Name	Description
VMA01	Single Tube Head	This standard platform head features a concave design for easy single tube stirring.
VMA02	Adaptor	Used with VMA04, VMA05.
VMA03	Shim Clamps	Used with VMA07, VMA08 and VMA09.
VMA04	12mm Tube Holder	Used with Adaptor (VMA02). Holds 7x12mm (0.47") tubes.
VMA05	Customizable Tube Blank	Used with Adaptor (VMA02). Holes can be drilled by the customer for custom applications.
VMA06	SBS Standard Microplate Holder Head	Used instead of standard head. Holds a single microplate.
VMA07	SBS Standard Elisa Plate Holder	Mounted on Shim Clamps (VMA03) to hold Elisa Plate.
VMA08	Combination Tube Holder	Mounted on Shim Clamps (VMA03); Used for 1.5 / 2.0ml, 5 / 7ml, and 10 / 15ml tube.
VMA09	PCR Tube/Plate Holder	Mounted on SBS Standard Elisa Plate Holder (VMA07); Used for PCR Tubes, Strips and Plates.



Note: Customized tube holders are available according to customer's specification.

2D Rockers

◆ Description

The 2D Platform Rocker is excellent for a gentle mix of solutions, reagents, blotting and staining applications. It has a high-quality motor for durability and ultra-quiet operation. Space saving design and simple to operate make this a popular item for any laboratory.

◆ Features

- ☐ All models come with a dimpled non-skid mat.
- ☐ Large platform and hooks for rubber strips accommodate many applications.
- ☐ Units provide high capacity with rack accessory.
- ☐ All units are compatible with cold room and incubator environment.
- ☐ NS-05UA, NS-14UA models have speed adjustment, continuous and timer mode with automatic stop.
- ☐ NS-05UA and NS-04A has tilt angle of 10 degree.
- ☐ NS-14UA model provide additional feature of tilt angle adjustment from 1~15°.



2D Rocker NS-04A



Digital Rocker NS-05UA



Adjustable Rocker NS-14UA



Mixers

Mixers

◆ Specifications

Name	2D Rocker	Digital Rocker	Adjustable Rocker
Description	Fixed Speed 2D Rocker	2D Rocker w / adjustable Speed and Time	High profile 2D rocker w / adjustable time, speed and angle
Model	NS-04A	NS-05UA	NS-14UA
For regions other than North America, check the model number in the “ Order Information Table ”			
Speed	24rpm	2~80rpm	1~50rpm
Speed Accuracy	NA	±1rpm	
Tilt Angle	±10°		1~15° (adjustable in 1° increment)
Timer	NA	0~99h59min	1s~9999min
Platform Dimensions	307x267mm (12.1"×10.5")		
Max. Load	2kg (4.4 lb)		4.5kg (9.9 lb)
Display	NA	LCD	LED
Accessories included in Standard Packaging	NSA02, 6 Pcs of NSA01		
Ambient Temperature	5℃~40℃		
Relative Humidity	≤80%		
Power Supply	AC110V / 60Hz	AC100~240V, 50 / 60Hz	
Max. Power	4W	10W	13.5W
Dimensions (LxWxH)	380x290x150mm (15x11.4x5.9")		440x296x209mm (17.3x11.7x8.2")
Net Weight	4.5kg (9.9 lb)	6kg (13.2 lb)	14kg (30.9 lb)
Protection Level	IP21		
Certifications	NA		cCSAus, CE, RoHS, WEEE

◆ Accrssories

Part Number	Name	Specifications
NSA01	Rubber Strips	WxD: 180x7mm (7.09x0.28")
NSA02	Dimpled Rubber Mat	WxD: 298x258mm (11.73x10.16")
NSA04	Stacking Tray Assembly	WxDxH: 295x322x109mm (11.61x12.68x4.29")



◆ Order Information Table

Order Model	Power Supply	Plug Type
NS-04A	AC110V±11V, 60Hz	US 
NS-05UA	AC100~240V, 50Hz / 60Hz	
NS-04E*	AC220V±22V, 50Hz	Eur 
NS-05UE	AC100~240V, 50Hz / 60Hz	
NS-04EN*	AC220V±22V, 50Hz	UK 
NS-05UEN	AC100~240V, 50Hz / 60Hz	
NS-04AU*	AC220V±22V, 50Hz	AU 
NS-05UAU	AC100~240V, 50Hz / 60Hz	
NS-04SA*	AC220V±22V, 50Hz	SA 
NS-05USA	AC100~240V, 50Hz / 60Hz	
NS-14UW	AC100~240V, 50Hz / 60Hz	Eur, UK, AU 

* Note: For NS-04E, NS-04EN, NS-04AU, NS-04SA rockers, rocking speed is 20rpm.

Nutating Mixer

◆ Description

The Nutating mixer design is for mixing sample with the combined motions of an orbital shaker and a rocker. The unit provides a gentle yet thorough mixing of the samples. The digital models come with adjustable speed and timer. They are well suited for many routine laboratory applications that require thorough mixing.

◆ Features

- ☐ Tilt angles are pre-set for 3D motion. ☐ All models come with a dimpled non-skid mat.
- ☐ NS-01A and NS-10A models: Compact and economic choice for 3D mixing.
- ☐ NS-11UA and NS-12UA models: Continuous or time set operation with automatic switch off. Audible and visual alarm in time mode.
- ☐ Speed of NS-11UA is 2~60rpm, NS-12UA is 2~80rpm, NS-13UA is 5~100rpm and OS-05UA is 5~120rpm.



3D Nutating Shaker **NS-01A**
(Previous Model BC-4201A)



Nutating Mixer **NS-10A**



20° Digital
Nutating Mixer **NS-11UA**



7° Digital Nutating Mixer
NS-12UA



Multi Modes Nutating Mixer
NS-13UA











Adjustable Nutator / Shaker
OS-05UA

◆ Specifications

Name	3D Nutating Shaker		Nutating Mixer	20° Digital Nutating Mixer
Model	NS-01A		NS-10A	NS-11UA
For regions other than North America, check the model number in the “ Order Information Table ”				
Speed	24rpm			2~60rpm
Speed Accuracy	NA			1rpm
Tilt Angle	20°			
Timer	NA			0~99h59min
Platform Dimensions	260x260mm (10.2x10.2")	307x267mm (12.09x10.51")		
Max. Load	0.8kg (1.76 lb)			
Display	NA			LED
Accessories included in Standard Packaging	NA	NSA02 (Dimpled Rubber Mat), 6 pcs of NSA01 (Rubber Strips)		
Ambient Temperature	5℃~40℃			
Relative Humidity	≤80%			
Power Supply	AC110V / 60Hz			AC100~240V, 50 / 60Hz
Max. Power	20W	11W		9.5W
Dimensions (LxWxH)	260x260x190mm (10.3x10.3x7.5")	440x296x261mm (17.3x11.7x10.3")		440x296x255mm (17.3x11.7x10")
Net Weight	1.8kg (4 lb)	5.9kg (13 lb)		7.4kg (16.3 lb)
Protection Level	IP21			
Certifications	CE, RoHS, WEEE	cCSAus, CE, RoHS, WEEE		

◆ Order Information Table

Order Model	Power Supply	Plug Type
NS-01A	AC110V±11V, 60Hz	US 
NS-01E*	AC220V±22V, 50Hz	Eur 
NS-01EN*		UK 
NS-01AU*		AU 
NS-01SA*		SA 
NS-10W*		Eur, UK, AU 
NS-11UW		
NS-12UW	AC100~240V, 50Hz / 60Hz	Eur, UK, AU 
NS-13UW		
OS-05UW		Eur, UK 

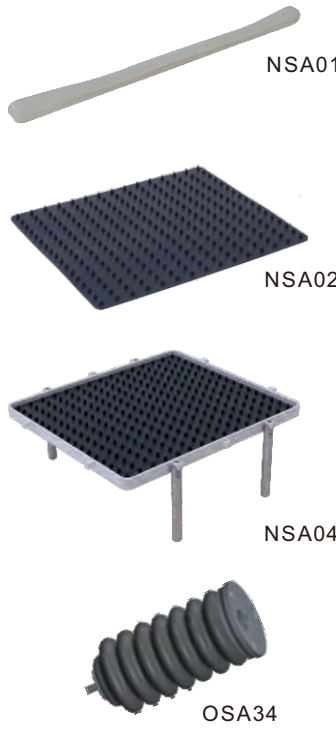
* Note: For NS-01E, NS-01EN, NS-01AU, NS-01SA, NS-10W rockers, rocking speed is 20rpm.

◆ Specifications

Name	7° Digital Nutating Mixer	Multi Modes Nutating Mixer	Adjustable Nutator / Shaker
Model	NS-12UA	NS-13UA	OS-05UA
For regions other than North America, check the model number in the " Order Information Table "			
Speed	2~80rpm	5~100rpm	5~120rpm
Speed Accuracy	1rpm		
Tilt Angle	7°		0~12°
Timer	0~99h59min	0~250s	0~99h59min
Rocking Angle	NA	0~360°	NA
Platform Dimensions	307x267mm (12.09x10.51")		
Max. Load	0.8kg (1.76 lb)	1kg (2.2 lb)	9.8kg (21.61 lb)
Display	LED		
Accessories included in Standard Packaging	NSA02 (Dimpled Rubber Mat), 6 pcs of NSA01 (Rubber Strips)		NSA02 (Dimpled Rubber Mat), 6 pcs of NSA01 (Rubber Strips) 2 pcs of OSA34 (Small Wave Tube)
Ambient Temperature	5℃~40℃		
Relative Humidity	≤80%		
Power Supply	AC100~240V, 50 / 60Hz		
Max. Power	6.5W	5W	12W
Dimensions (LxWxH)	440x296x189mm (17.3x11.7x7.4")	440x296x226mm (17.32x11.65x8.89")	440x296x218mm (17.32x11.65x8.58")
Net Weight	7.3kg (16.1 lb)	6.7kg (14.7 lb)	14kg (31 lb)
Protection Level	IP21		
Certifications	cCSAus, CE, RoHS, WEEE		

◆ Accrrsories

Part Number	Name	Specifications
NSA01	Rubber Strips (For NS-10A, NS-11UA, NS-12UA, NS-13UA, OS-15UA)	WxD: 180x7mm (7.09x0.28")
NSA02	Dimpled Rubber Mat (For NS-10A, NS-11UA, NS-12UA, NS-13UA, OS-15UA)	WxD: 298x258mm (11.73x10.16")
NSA04	Stacking Tray Assembly (For NS-10A, NS-11UA, NS-12UA, NS-13UA, OS-15UA)	WxDxH: 295x322x109mm (11.61x12.68x4.29")
OSA34	Small Wave Tube (For OS-05UA)	φ xH: φ45x105mm (1.77x4.13")



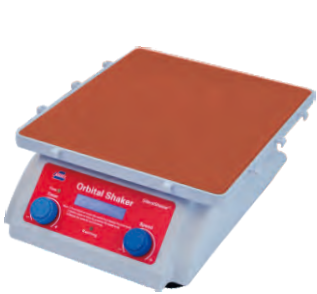
Orbital Shaker

◆ Description

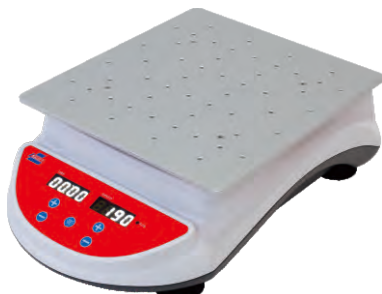
Orbital shaker is designed with closed-loop electronic control system. CTI's Silent Shakers are designed and built for continuous shaking with no vibration or heat output. It can be widely used in biology, chemistry, cell culture, fermentation, hybridization, enzyme and tissue research.

◆ Features

- ☐ Space saving design with variable speed control, timer function.
- ☐ Digital controlled brushless DC motor provides smooth start, long life time and low noise.
- ☐ Automatic recovery from power outage.
- ☐ Various accessories are available for different flasks, tubes, plates and etc.
- ☐ Microplate Shaker (OS-07UA) can quickly and easily fit any standard depth multi-well plate and tubes.
- ☐ High Profile Shaker (SYC-2102A) includes a standard platform (400x400 mm) with non-skid mat.



Mini Orbital Shaker **OS-03UA**



Multi Purpose Shaker **OS-06UA**



Microplate Shaker **OS-07UA**



High Profile Orbital Shaker **SYC-2102A**



◆ Specifications

Name	Mini Orbital Shaker	High Profile Orbital Shaker	Microplate Shaker	Multi Purpose Shaker
Model	OS-03UA	SYC-2102A	OS-07UA	OS-06UA
For regions other than North America, check the model number in the “ Order Information Table ”				
Speed	30~300rpm		150~1000rpm	50~450rpm
Speed Accuracy	±2%		±1%(@≤299rpm), ±2%(@>299rpm)	±1rpm(@≤100rpm), ±1%(@>100rpm)
Orbital Diameter	Ø20mm (0.79")	Ø26mm (1.02")	Ø2.5mm (0.1")	Ø10mm (0.39")
Timer	0~99h59min			
Platfrom Dimensions	307x267mm (12.09x10.51")	400x400mm (15.7x15.7")	275x235mm (10.8x9.3")	310x284mm (12.2x11.2")
Capacity	15x50ml/12x100ml / 12x150ml or 200ml / 12x250ml/4×500ml / 4x1000ml flasks / 2xSmall Tube Racks	36x50ml/24x100ml / 17x150ml or 200ml / 17x250ml/12x500ml / 6x1000ml/4x2000ml / 3000ml/2x5000ml flasks / 3xTube Racks	4x Microplates / 6xMicroplates (with OSA15 Large Platform Assembly) / 2xTube Racks	20x50ml / 8x100ml / 8x150ml or 200ml / 8x250ml / 6x500ml / 4x1000ml / 2x2000ml / 2x3000ml / 1×5000ml flasks / 2xTube Racks
Max. Load	2.5kg (5.5 lb)	10kg (22 lb)	4kg (8.8 lb)	4.5kg (9.9 lb)
Display	LCD	LED		
Accessories included in Standard Packaging	Plastic Platform with non-skid mat	Standard Platform with non-skid mat	Standard Platform with 6 pcs of OSA13 (96-well Microplate Holder)	OSA21 (Universal (Aluminum) Platform)
Ambient Temperature	5°C~40°C			
Relative Humidity	≤80%			
Power Supply	AC100~240V, 50 / 60Hz	AC110V, 60Hz	AC100~240V, 50 / 60Hz	
Max. Power	8.5W	85W	72W	40W
Dimensions (LxWxH)	345x240x111mm (13.6x9.4x4.4")	432x535x190mm (17x21x7.5")	440x296x142mm (17.3x11.7x5.6")	440x296x129mm (17.3x11.7x5.1")
Net Weight	12.5kg (27.6 lb)	38kg (83.78 lb)	15kg (33.1 lb)	
Protection Level	IP21			
Certifications	NA	CE	cCSAus, CE, RoHS, WEEE	

◆ Usually Accessories

Part Number	Part Number	Specifications	Max. Number For OS-03UA	Max. Number For OS-06UA	Max. Number For OS-07UA	Max. Number For SYC-2102A	
Flask Clamp	IS-A1	50ml	20	20	NA	36	
	IS-A2	100ml	9	8		20	
	IS-A3	150ml	9	NA		20	
	IS-A4	200ml	9			20	
	IS-A5	250ml	9	8		16	
	IS-A6	500ml	4	6		12	
	IS-A7	1000ml	4	4		9	
	IS-A8	2000ml	NA	2		4	
	IS-A9	3000ml		2		4	
	IS-A10	5000ml		1		2	
	IS-50	25ml	20	20		36	
96-Well Microplate Holder	IS-A13	WxD: 136x95mm (5.35x3.74")	NA	5	NA	8	
Test Tube Rack	IS-A11	40xØ14mm (0.55")		2	2	3	
	IS-A12	40xØ16mm (0.63")		2	2		
	IS-A23	40xØ18mm (0.71")		NA	NA		
	IS-A24	27xØ22mm (0.87")					
Adjustable Test Tube Rack	IS-A20	40xØ14mm (0.55")		2	2		
	IS-A21	40xØ16mm (0.63")		2	2		
	IS-A30	40xØ18mm (0.71")		NA	NA		
	IS-A31	27xØ22mm (0.87")					
	IS-A32	27xØ30mm (1.81")					
	IS-A37	24xØ30mm (1.81")					
Mini Universal Spring Platform	IS-A19	WxDxH: 165x165x80mm (6.5x6.5x3.15")		2	NA	1	
	IS-A27	WxDxH: 350x240x80mm (13.78x9.45x3.15")				1	
Fixture for Separating Funnel	IS-A35	Used for separating funnel with volume greater than 500ml.				3	
Infusion Bottle Clamp	IS-A33	500ml				5	12
	IS-A34	1000ml				5	8
Sticky Pad	IS-A47	WxD: 140x140mm (5.51x5.51")	2			4	9



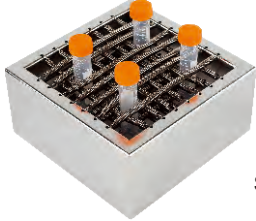
Test Tube Rack



Adjustable Test
Tube Rack



Adjustable Test
Tube Rack (IS-A37)



Mini Universal
Spring Platform
(IS-A19)



Mini Universal
Spring Platform
(IS-A27)



Flask Clamp



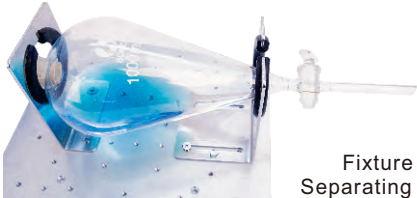
96-Well
Microplate Holder



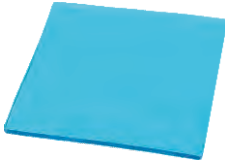
Infusion Bottle
Clamp (IS-A33)



Infusion Bottle
Clamp (IS-A34)



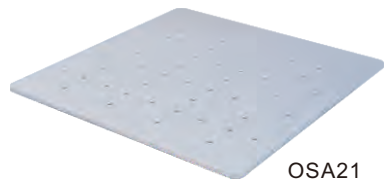
Fixture for
Separating Funnel



Sticky Pad

◆ Accessories for Multi Purpose Shaker (OS-06UA)

Name	Part Number	Specifications	Max. Number
Universal Platform with Adjustable Bars	OSA20	WxDxH: 306x303x145mm (12.95x11.93x5.71")	1
Universal (Aluminum) Platform	OSA21	WxD: 310x284mm (12.2x11.18")	1



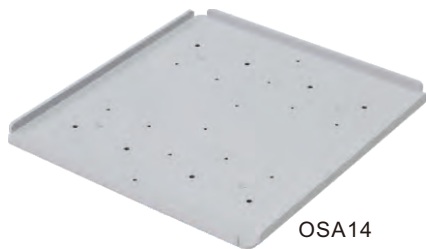
◆ Accessories for Mini Orbital Shaker (OS-03UA)

Name	Part Number	Specifications	Max. Number
Aluminum Platform	OSA23	WxD: 290x230mm (11.42x9.06")	1



◆ Accessories for Microplate Shaker (OS-07UA)

Name	Part Number	Specifications	Max. Mountable Flask Clamps
96-Well Microplate Holder	OSA13	WxDxH: 54x21.8x20.3mm (2.13x0.86x0.8")	4 or 6
Large Platform	OSA14	WxD: 298x274mm (11.73x10.79")	1
Large Platform Assembly	OSA15	WxDxH: 298x274x21.5mm (11.73x10.79x0.85")	1






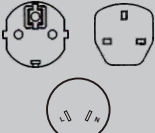


◆ Accessories for High Profile Shaker (SYC-2102A)

Name	Part Number	Specifications	Max. Number
Aluminum Platform	OSA01 (Previous Model: SYC2102-A)	WxDxH: 400x400x5mm (15.75x15.75x0.2")	1
Universal Platform with 4 adjustable bars	OSA02 (Previous Model: SYC2102-B)	WxDxH: 417x402x146mm (16.42x15.83x5.75")	1
Universal Platform with 2 adjustable bars for large flask	OSA03 (Previous Model: SYC2102-C)	WxDxH: 417x417x207mm (16.42x16.42x8.15")	1
Bars	OSA04 (Previous Model: SYC2102-D)	L=400mm (15.75") φ=28mm(1.1")	4



◆ Order Information Table

Order Model	Power Supply	Plug
OS-03UA	AC100V~240V, 50Hz / 60Hz	US 
SYC-2102A	AC100V±22V, 60Hz	
OS-03UE	AC100V~240V, 50Hz / 60Hz	Eur 
SYC-2102E	AC220V±22V, 60Hz	
OS-03UEN	AC100V~240V, 50Hz / 60Hz	UK 
SYC-2102EN	AC220V±22V, 60Hz	
OS-03UAU	AC100V~240V, 50Hz / 60Hz	AU 
SYC-2102AU	AC220V±22V, 60Hz	
OS-03USA	AC100V~240V, 50Hz / 60Hz	SA 
SYC-2102SA	AC220V±22V, 60Hz	
OS-06UW	AC100V~240V, 50Hz / 60Hz	Eur, UK, AU 
OS-07UW		

Bench-Top Incubator Shaker



Bench-Top Incubator Shaker IS-RSDAA

Description

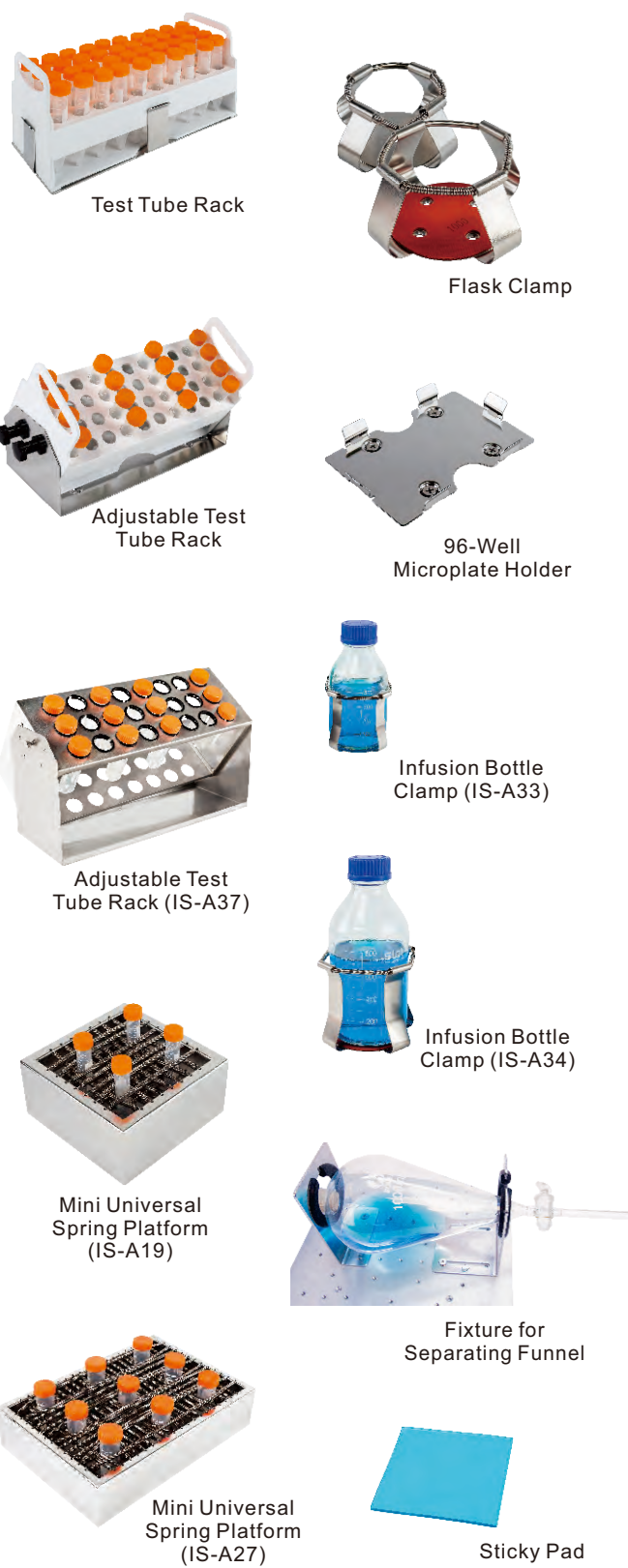
This model is designed with a small footprint for many applications on the bench top. Its sliding platform facilitates easy sample handling. The tempered glass door provides clear visibility.

Specifications

Product Name	Bench-Top Incubator Shaker
Model	IS-RSDAA
Speed	0rpm, 30~300rpm
Speed Accuracy	1rpm
Orbit Diameter	φ 26mm (1.02")
Timer	0~99h
Platform Dimensions	350x300mm (13.78x11.81")
Max. Capacity	50mlx28 / 100mlx15 / 150mlx11 / 200mlx10 / 250mlx9 / 500mlx4 / 1000mlx2
Display	LED
Accessories included in Standard Packaging	100mlx12
Ambient Temperature	5°C~40°C
Relative Humidity	20%~80%
Power Supply	AC110V, 60Hz
Max. Power	745W
Internal Dimensions (WxDxH)	392x330x365mm
Dimensions (WxDxH)	440x535x550mm
Net Weight	50kg
Protection Level	IP21
Certifications	CE

Usually Accessories

Name	Part Number	Specifications	Max. Number
Flask Clamp	IS-A1	50ml	28
	IS-A2	100ml	15
	IS-A3	150ml	11
	IS-A4	200ml	10
	IS-A5	250ml	9
	IS-A6	500ml	4
	IS-A7	1000ml	2
	IS-50	25ml	28
96-Well Microplate Holder	IS-A13	WxD: 136x95mm (5.35x3.74")	6
Test Tube Rack	IS-A11	40xØ14mm (0.55")	2
	IS-A12	40xØ16mm (0.63")	
	IS-A23	40xØ18mm (0.71")	
	IS-A24	27xØ22mm (0.87")	
Adjustable Test Tube Rack	IS-A20	40xØ14mm (0.55")	2
	IS-A21	40xØ16mm (0.63")	
	IS-A30	40xØ18mm (0.71")	
	IS-A31	27xØ22mm (0.87")	
	IS-A32	27xØ30mm (1.81")	
Mini Universal Spring Platform	IS-A19	WxDxH: 165x165x80mm (6.5x6.5x3.15")	1
	IS-A27	WxDxH: 350x240x80mm (13.78x9.45x3.15")	1
Fixture for Separating Funnel	IS-A35	Used for separating funnel with volume greater than 500ml.	2
Infusion Bottle Clamp	IS-A33	500ml	4
	IS-A34	1000ml	2
Sticky Pad	IS-A47	WxD: 140x140mm (5.51x5.51")	6



Order Information Table

Order Model	Power Supply	Plug Type
IS-RSDAW	AC220V, 50Hz	Eur, UK, AU   

Magnetic Stirrer

◆ Description

The magnetic stirrer series are an essential instrument for every laboratory for mixing solution. Each stirrer has a wide range of speed adjustment to meet the demands of different liquid mixing.

◆ Features

MS-01FUA, MS-01TUA and MS-01UA models:

- ☐ Elegant design with high level of waterproof protection.
- ☐ Motorless driven mechanism for quiet and maintenance free operation.
- ☐ Constructed of corrosive resistant material for easy clean-up and long operational life.
- ☐ Sleek low-profile design.
- ☐ Five power level adjustment for mixing liquid with high viscosities (Note: This feature is not available on the MS-01FUA).

MS-01AUA and MS-01DUA models:

- ☐ Have speed adjustment. MS-01DUA has timer mode with automatic stop.
- ☐ ABS platform provides excellent durability and chemical resistance.



Low Profile Magnetic Stirrer
MS-01FUA



Touch-Pad Magnetic Stirrer
MS-01TUA



Key-Pad Magnetic Stirrer
MS-01UA



Analog Magnetic Stirrer **MS-01AUA**



Digital Magnetic Stirrer **MS-01DUA**

◆ Specifications

Name	Low Profile Magnetic Stirrer	Touch-Pad Magnetic Stirrer	Key-Pad Magnetic Stirrer	Analog Magnetic Stirrer	Digital Magnetic Stirrer
Model	MS-01FUA	MS-01TUA	MS-01UA	MS-01AUA	MS-01DUA
For regions other than North America, check the model number in the " Order Information Table "					
Speed	15~1500rpm	80~2000rpm		0~1500rpm	80~1500rpm
Speed Accuracy	NA	10rpm		1rpm	
Automated Reverse Rotation	Reversed Every 30 Seconds	NA			
Max. Length of Stir Bar	≤30mm (1.2")	≤50mm (2")		≤80mm (3.2")	
Timer	NA				0~99h59min
Platform Dimensions	110x110mm (4.3x4.3")	140x140mm (5.5x5.5")		175x175mm (6.9x6.9")	
Capacity	1x500ml Bunsen Beaker or Flask	1x2000ml Bunsen Beaker or Flask		1x10000ml Bunsen Beaker or Flask	
Max. Load	2kg (4.4 lb)	5kg (11 lb)		2.5kg (5.5 lb)	3kg (6.6 lb)
Display	NA	Touch Pad LCD	LED	NA	LCD
Viscosity Level	NA	1~5		NA	NA
Accessories included in Standard Packaging	MSA05, Stirrer Bar Ø7x20mm (0.28x0.79")	MSA04, Stirrer Bar Ø12x30mm (0.47x1.18")		MSA15, Stirrer Bar Ø12x50mm (0.47x1.97")	
Ambient Temperature	5°C~40°C				
Relative Humidity	≤80%				
Power Supply	AC100~240V, 50 / 60Hz				
Max. Power	6W	24W		7.5W	12W
Platform Material	ABS				
Dimensions (LxWxH)	175x125x20.5mm (6.9x4.9x0.8")	160x200x48mm (6.3x7.9x1.9")		355x240x120mm (14x9.4x4.7")	
Net Weight	0.3kg (0.7 lb)	1kg (2.2 lb)		2.5kg (5.5 lb)	3kg (6.6 lb)
Protection Level	IP45	IP24		IP21	
Certifications	CE, RoHS, WEEE			CE	

◆ Accessories

Name	Part Number	Specifications
Stir Bar Retrievers	MSA01	Ø7x300mm (0.28x11.81")
Stirrer Bar	MSA02	Ø8x50mm (0.31x1.97")
	MSA03	Ø10x40mm (0.39x1.57")
	MSA04	Ø12x30mm (0.47x1.18")
	MSA05	Ø7x20mm (0.28x0.79")
	MSA06	Ø6x15mm (0.24x0.59")
	MSA15	Ø12x50mm (0.47x1.97")









Stir Bar Retrievers



Stirrer Bar

◆ Order Information Table

Order Model	Power Supply	Plug Type
MS-01FUA	AC100V~240V, 50Hz / 60Hz	US 
MS-01UA		
MS-01TUA		
MS-01AUA	AC110V±11V, 60Hz	
MS-01DUA		
MS-01AUE		
MS-01DUE	AC220V±22V, 60Hz	Eur 
MS-01AUEN		UK 
MS-01DUEN		
MS-01AUAU		AU 
MS-01DUAU		
MS-01AUSA		SA 
MS-01DUSA		
MS-01FUSA		
MS-01TUSA		
MS-01FUW	AC100V~240V, 50Hz / 60 Hz	Eur, UK, AU 
MS-01UW		
MS-01TUW		
MS-01TUSW		

Digital Stirring Hotplate



Digital Stirring Hotplate
MS-01HA
(Previous Model MS2-P1HA)



7" Ceramic Stirring Hot plate
MS-01H7A



10" Ceramic Stirring Hot plates
MS-01H10A

◆ Description

This product is ideal for general lab applications such as mixing reagents, stirring bacteriological cultures. Its hot plate is made of high grade aluminum alloy with an anodized surface which is resistant to corrosion.

The aluminum body and brushless motor provide maintenance free operation.

◆ Features

- ❑ It takes only 8 minutes to raise the plate's temperature from ambient to 300°C.
- ❑ Brushless DC motor provides accurate stirring speed and maintenance free operation.
- ❑ Strong magnets prevent loss of stirring speed.
- ❑ Warning light flashes when plate is hot.
- ❑ Automatic shut off while plate's temperature exceeds 350°C or no indication of temperature rise after 30 seconds of heating.
- ❑ Anodized plate surface keeps it resistant to corrosion.

◆ Specifications






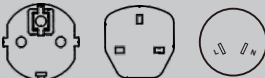
Name	Digital Stirring Hotplate	7" Ceramic Stirring Hotplate	10" Ceramic Stirring Hotplate
Model	MS-01HA (Previous Model MS2-P1HA)	MS-01H7A	MS-01H10A
For regions other than North America, check the model number in the " Order Information Table "			
Speed	80~1500rpm		
Speed Accuracy	10rpm		
Max. Length to Stir Bar	80mm		
Timer	NA		
Platform Dimensions	175x175mm (6.89x6.89")		254x254mm (10x10")
Max. Load	10L		20L
Display	LCD		
Plate Temp.	RT~300°C		RT~540°C
Temperature Deviation	@100°C : ≤ ±10°C		
Temperature Fluctuation	@100°C : ≤ ±5°C		
Temperature Resolution	0.1°C		
Shut off Temperature	360°C		580°C
Stirring Position	1		
Accessories included in Standard Packaging	1xMSA15		
Ambient Temperature	5°C~40°C		
Relative Humidity	≤80%		
Power Supply	AC110V, 60Hz		
Max. Power	1000W		1500W
Platform Material	Aluminum	White glass-ceramics	
Dimensions (LxWxH)	355x240x129mm (13.98x9.45x5.08")		442x299x152mm (17.4x11.77x5.98")
Net Weight	4.5kg (9.92 lb)		6.9kg (15.21 lb)
Protection Level	IP21		
Certifications	NA		
Out Sensor Monitor Function	Yes		

◆ Accessories



Name	Part Number	Specifications
Stir Bar Retrievers	MSA01	Ø7x300mm (0.28x11.81")
Stirrer Bar	MSA02	Ø8x50mm (0.31x1.97")
	MSA03	Ø10x40mm (0.39x1.57")
	MSA04	Ø12x30mm (0.47x1.18")
	MSA05	Ø7x20mm (0.28x0.79")
	MSA06	Ø6x15mm (0.24x0.59")
	MSA15	Ø12x50mm (0.47x1.97")

◆ Order Information Table

Order Model	Power Supply	Plug Type
MS-01HA	AC110V±11V, 60Hz	US 
MS-01H7A		
MS-01H10A		
MS-01HE	AC220V±22V, 50 / 60Hz	Eur 
MS-01HEN		UK 
MS-01HAU		AU 
MS-01HSA		SA 
MS-01H7W		Eur, UK, AU 
MS-01H10W		

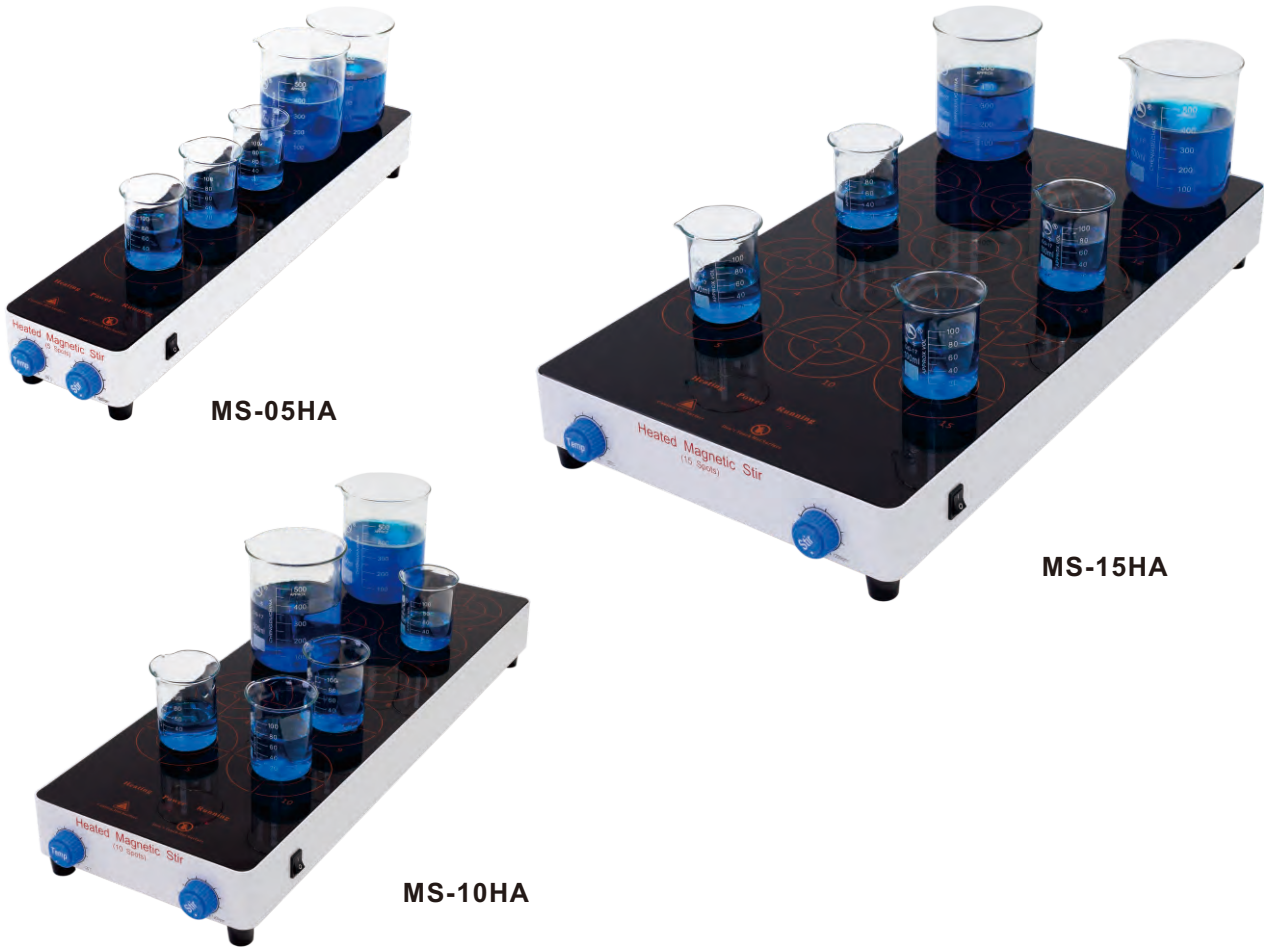
Multi- Position Hot Plate Magnetic Stirrers

Description

Our Multi-Position Hot Plate Stirrers have an elegant space saving design. Simple to use right out of the box with variable speed and temperature. Ideal for any laboratory that uses stirring, mixing & temperature controlled applications.

Features


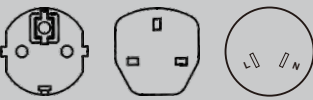

- Utilizing electric film provides fast heating speed & temperature uniformity.
- Heat and stir a variety of beaker or flask sizes.
- High quality brushless DC motor provides excellent durability & quiet operation.
- The exterior is made of aluminum alloy which has high temperature resistance, corrosion protection and good insulation properties.
- Elegant working plate is made of pyroceram.
- Using SCM to control motor speed which is smooth at low speed and strong at high speed.
- Built-in electronic voltage regulator circuit, using silicon controlled to regulate heating.



Specifications

Name	Multi-Position Hot Plate Stirrers		
Model	MS-05HA	MS-10HA	MS-15HA
For regions other than North America, check the model number in the “ Order Information Table ”			
Speed	0rpm,100~1200rpm		
Speed Accuracy	NA		
Max. Length for Stir Bar	≤50mm (1.97")		
Timer	NA		
Platform Dimensions	475x95mm (18.7x3.7")	475x190mm (18.7x7.5")	475x285mm (18.7x11.2")
Temp.Range	RT~120℃		
Capacity	500ml		
Max. Load	500mlxPositions		
Number of Stirring Positions	5	10	15
Accessories included in Standard Packaging	5xMSA04	10xMSA04	15xMSA04
Ambient Temperature	5℃~40℃		
Relative Humidity	≤90%		
Max. Power	220W	450W	660W
Platform Material	Black glass-ceramics		
Dimensions (WxDxH)	130x612x78mm (5.12x24.09x3.07")	214x612x78mm (8.43x24.09x3.07")	310x612x78mm (12.2x24.09x3.07")
Net Weight	4.5kg (9.92 lb)	7.1kg (15.65 lb)	10kg (22.05 lb)
Protection Level	IP21		
Certifications	NA		

Order Information Table

Order Model	Power Supply	Plug Type
MS-05HA	AC110V±11V, 60Hz	US 
MS-10HA		
MS-15HA		
MS-05HW	AC220V±22V, 50 / 60Hz	Eur, UK, AU 
MS-10HW		
MS-15HW		
MS-05HSA		SA 
MS-10HSA		
MS-15HSA		

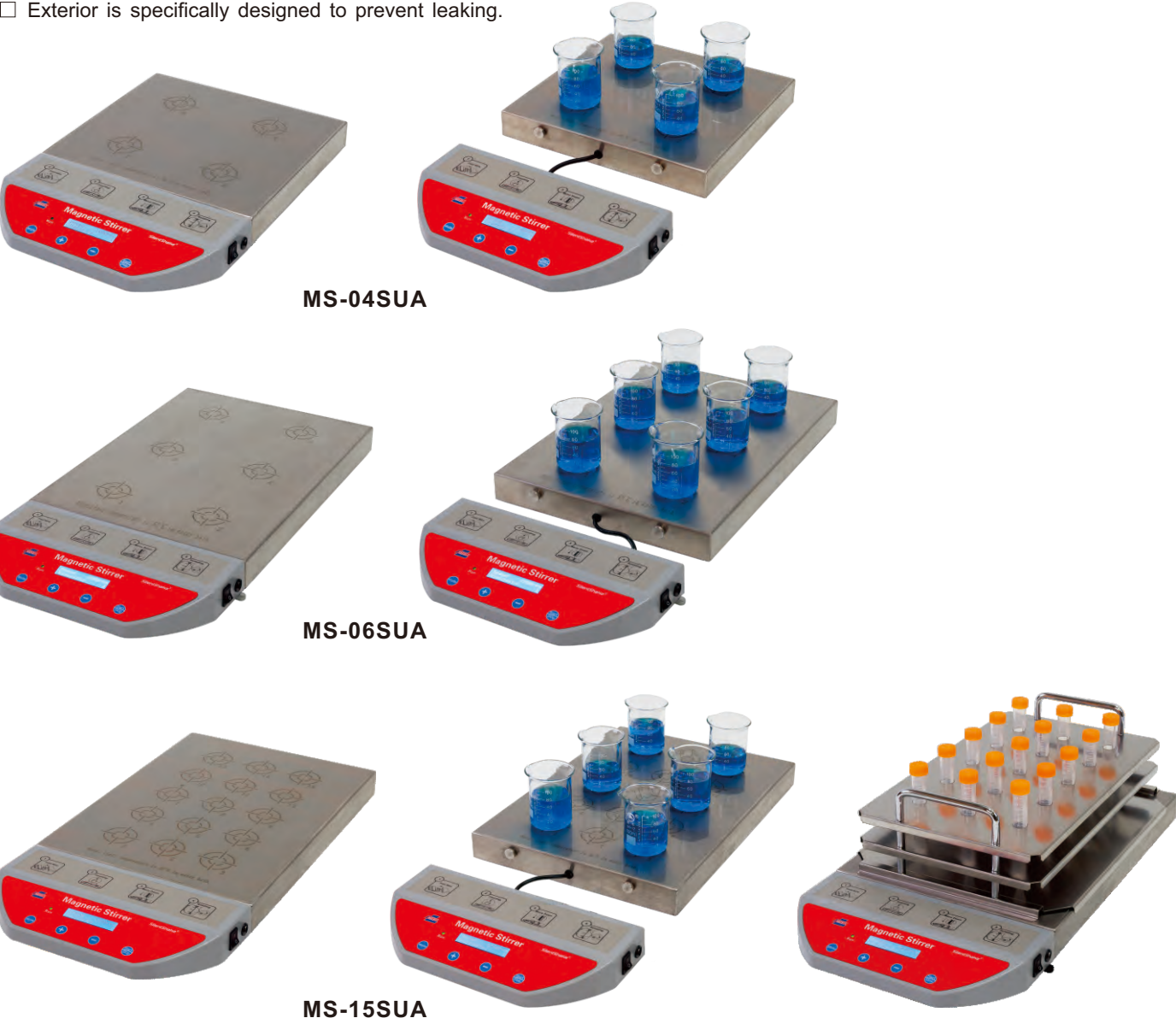
Multi- Position Magnetic S tirrers

◆ Description

This multi-position magnetic Stirrer is designed for the parallel and series experiment. The front control panel has the ability to detach from the main unit. This unique feature allows the main stirring base to be placed & operated in a water bath and CO₂ incubator environments. An ideal and versatile instrument for many lab applications.

◆ Features

- ❑ Super-flat stainless steel plate protects against intrusion and guarantees reliability.
- ❑ Fully closed body is able to stir in a water bath and CO₂ environments.
- ❑ Magnetic coil drive mechanism provides long & quiet operation.
- ❑ Five levels of stirring power provide excellent mixing capability, including liquids with high viscosity.
- ❑ Previous setting will be automatically saved when restarting the unit.
- ❑ Exterior is specifically designed to prevent leaking.



◆ Specifications

Name	Multi-Position Magnetic Stirrers		
Model	MS-04SUA	MS-06SUA	MS-15SUA
For regions other than North America, check the model number in the “ Order Information Table ”			
Speed	80~2000rpm		
Speed Accuracy	±10%		
Max. Length for Stir Bar	≤50mm (1.97")		≤20mm (0.79")
Timer	NA		
Platform Dimensions	250x280mm (9.84x11.02")	385x280mm (15.16x11.02")	
Capacity	1000ml		100ml
Display	LCD		
Viscosity Level	5		
Number of Stirring Positions	4	6	15
Accessories included in Standard Packaging	1xMSA04		1xMSA06
Ambient Temperature	5℃~50℃ (Water), 5℃~40℃ (Control Box in Air)		
Relative Humidity	100% (Body), ≤80% (Control Box)		
Power Supply	AC100~240V, 50 / 60Hz		
Max. Power	30W	45W	
Platform Material	SUS304		
Dimensions (WxDxH)	280x398x40mm (11.02x15.67x1.57")	280x528x40mm (11.02x20.79x1.57")	
Net Weight	6.5kg (14.33 lb)	10kg (22.05 lb)	
Protection Level	IP68S for Host Module, IP21 for Control Line		
Certifications	NA		

◆ Accessories

Name	Part Number	Specifications
Stir Bar Retrievers	MSA01	Ø7x300mm (0.28x11.81")
Stirrer Bar	MSA02	Ø8x50mm (0.31x1.97")
	MSA03	Ø10x40mm (0.39x1.57")
	MSA04	Ø12x30mm (0.47x1.18")
	MSA05	Ø7x20mm (0.28x0.79")
	MSA06	Ø6x15mm (0.24x0.59")
	MSA15	Ø12x50mm (0.47x1.97")
Ø25 Hole Tube Rack for MS-15SU	MSA10	15xØ30mm (1.18") Hole
Ø20 Hole Tube Rack for MS-15SU	MSA11	15xØ20mm (0.79") Hole
Ø16 Hole Tube Rack for MS-15SU	MSA12	15xØ16mm (0.63") Hole



Stir Bar Retrievers



Stirrer Bar



Ø25 Hole Tube Rack for MS-15SU



Ø20 Hole Tube Rack for MS-15SU



Ø16 Hole Tube Rack for MS-15SU

◆ Order Information Table

Order Model	Power Supply	Plug Type
MS-04SUA	AC100V-240V, 50 / 60Hz	US
MS-06SUA		
MS-015SUA		
MS-04SUE		Eur
MS-06SUE		
MS-15SUE		
MS-04SUEN		UK
MS-06SUEN		
MS-15SUEN		
MS-04SUAU		AU
MS-06SUAU		
MS-15SUAU		
MS-04SUSA		SA
MS-06SUSA		
MS-15SUSA		

Multi- Position Magnetic Stirrers

New

MS-04BSUA



MS-06BSUA



MS-15BSUA



(Works in Water Bath)

Description

This multi-position magnetic Stirrer is designed for the parallel and series experiment. The front control panel has the ability to detach from the main unit. This unique feature allows the main stirring base to be placed & operated in a water bath and CO₂ incubator environments. An ideal and versatile instrument for many lab applications.

Specifications

Name	Multi-Position Magnetic Stirrers		
Model	MS-04BSUA	MS-06BSUA	MS-15BSUA
For regions other than North America, check the model number in the “ Order Information Table ”			
Speed	80~2000rpm		
Speed Accuracy	±10%		
Max. Length for Stir Bar	≤50mm (1.97")		≤20mm (0.79")
Timer	NA		
Platform Dimensions	250x254mm (9.84x10")	384x254mm (15.12x10")	385x254mm (15.16x10")
Capacity	1000ml		100ml
Display	LCD		
Viscosity Level	5		
Number of Stirring Positions	4	6	15
Accessories included in Standard Packaging	1xMSA04		1xMSA06
Ambient Temperature	5℃~50℃ (Water), 5℃~40℃ (Control Box in Air)		
Relative Humidity	100% (Body), ≤80% (Control Box)		
Power Supply	AC100~240V, 50 / 60Hz		
Max. Power	30W	40W	20W
Platform Material	SUS304		
Dimensions (WxDxH)	260x264x43mm (10.24x10.39x1.69")	390x264x42mm (15.35x10.39x1.65")	
Net Weight	5.5kg (12.13 lb)	9kg (19.84 lb)	
Protection Level	IP68S for Host Module, IP21 for Control Line		
Certifications	NA		

◆ Accessories

Name	Part Number	Specifications
Stir Bar Retrievers	MSA01	Ø7x300mm (0.28x11.81")
Stirrer Bar	MSA02	Ø8x50mm (0.31x1.97")
	MSA03	Ø10x40mm (0.39x1.57")
	MSA04	Ø12x30mm (0.47x1.18")
	MSA05	Ø7x20mm (0.28x0.79")
	MSA06	Ø6x15mm (0.24x0.59")
	MSA15	Ø12x50mm (0.47x1.97")
Ø25 Hole Tube Rack for MS-15BSU	MSA10	15xØ30mm (1.18") Hole
Ø20 Hole Tube Rack for MS-15BSU	MSA11	15xØ20mm (0.79") Hole
Ø16 Hole Tube Rack for MS-15BSU	MSA12	15xØ16mm (0.63") Hole



Stir Bar Retrievers



Stirrer Bar



Ø25 Hole Tube Rack for MS-15BSU



Ø20 Hole Tube Rack for MS-15BSU



Ø16 Hole Tube Rack for MS-15BSU

◆ Order Information Table

Order Model	Power Supply	Plug Type
MS-04BSUA	AC100V-240V, 50 / 60Hz	US
MS-06BSUA		
MS-015BSUA		
MS-04BSUW		Eur, UK
MS-06BSUW		
MS-15BSUW		
MS-04BSUSA		SA
MS-06BSUSA		
MS-15BSUSA		

Digital Dry Baths

◆ Description

CTI's digital dry baths are microprocessor controlled with an automatic PID temperature control program, providing accurate and uniform temperature distribution across the thermal block. Digital dry baths are ideal tools for a wide variety of life science, clinical and general chemistry applications. Multi-block dry bath are used in various applications, including enzyme reactions, inactivation of sera, Rh studies, blood cross-matching and cholesterol determinations. This unit is controlled by microcomputer which makes the temperature more stable and accurate.



Programmable Digital Dry Bath
DB-01A
(Previous Model GY-2101A)



Digital Dry Bath
DB-02A
(Previous Model GY-2102A)



Multi-block Dry Bath
DB-03A



Multi-block Dry Bath
DB-04A

◆ Features

- ☐ Microprocessor controlled with digital display.
- ☐ High quality aluminum block and heating elements provide excellent temperature uniformity.
- ☐ Safe operation with a reliable overheating alarm and automatic shut off.
- ☐ Easy calibration for accurate temperature control and display.
- ☐ Multi-block dry bath with timing function.
- ☐ Programming function provides multiple temperature control points.
- ☐ Blocks are interchangeable, easy to clean and disinfect.
- ☐ Automatic fault detection and beep alarm function.
- ☐ Aluminum block provides high temperature uniformity.
- ☐ Overheating safety switch.
- ☐ Quick and easy temperature adjustment.
- ☐ A variety of block type available to suit every customers needs.
- ☐ DB-02A is non programable dry bath.

Wide variety of heating blocks
are available.
Multiple block combinations
to fits your requirements.



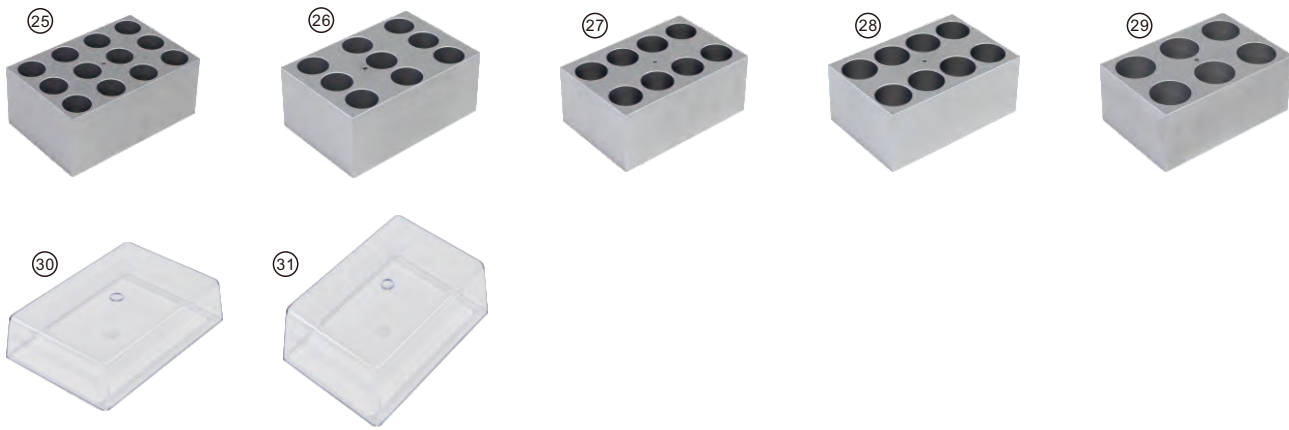
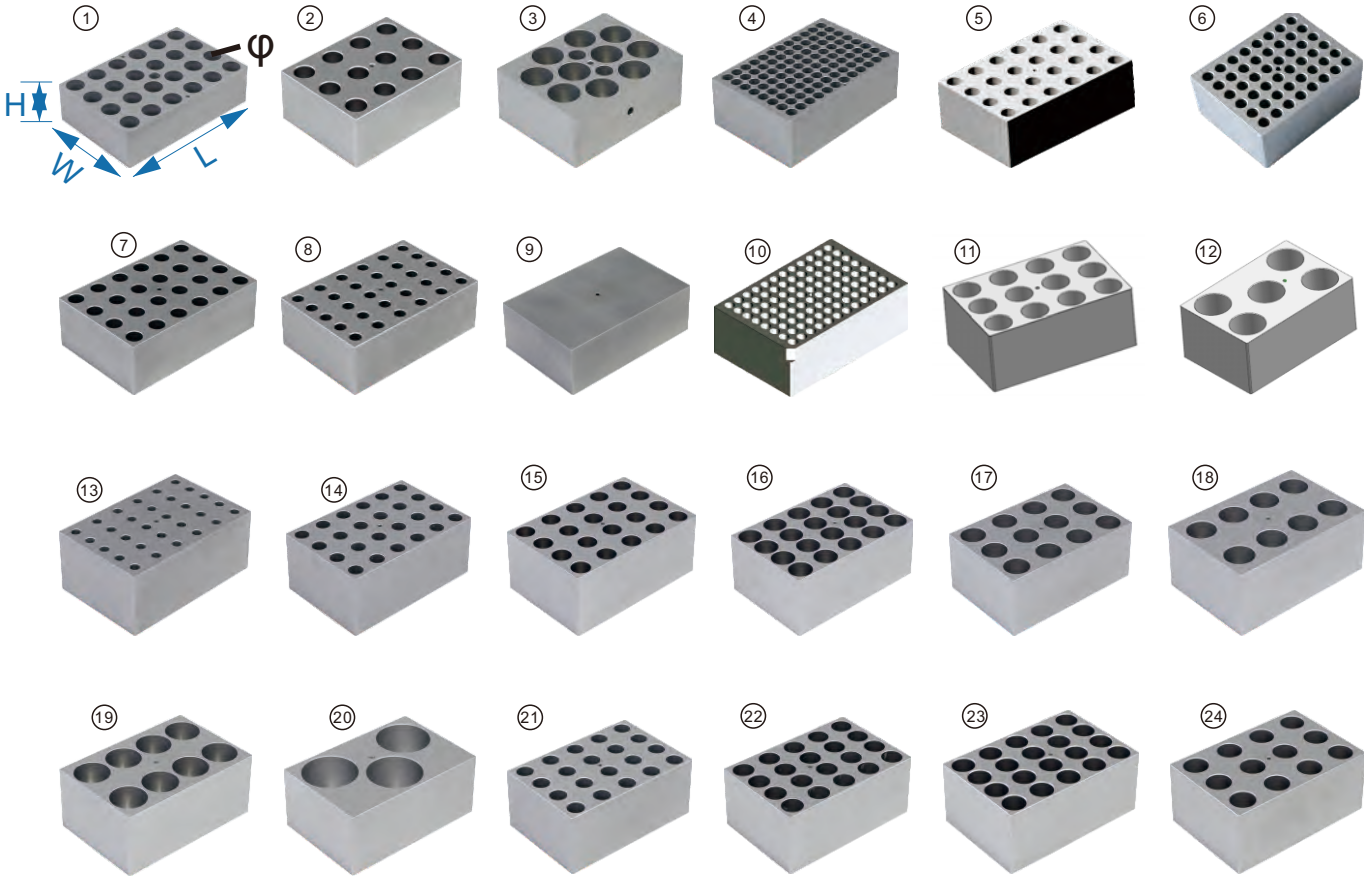
◆ Specifications

Name	Programmable Digital Dry Bath		Digital Dry Bath		Multi-block Dry Bath	
Model	DB-01A (Previous Model GY-2101A)		DB-02A (Previous Model GY-2102A)		DB-03A	DB-04A
For regions other than North America, check the model number in the " Order Information Table "						
Temp. Range	Ambient +5℃~120℃					
Temp. Fluctuation	@50~100℃: ≤±0.15℃ @100.1~120℃: ≤±0.2℃					
Max. temp. difference	@40℃: 0.3℃					
Heating up Time	Ambient temp (20℃) to120℃ : ≤15min				Ambient temp (20℃) to120℃ : ≤25min	
Temp. Uniformity	@40℃: ≤±0.3℃				@40℃: ≤±0.5℃	
Temp. Accuracy	0.1℃					
Timer	99h59min or Continuous		NA		99h59min or Continuous	
Display	LCD		LED		LCD	
No. of Chamber	1				2	4
Accessories included in Standard Packaging	1xDBA05				2xDBA05	4xDBA05
Ambient Temperature	5℃~40℃					
Relative Humidity	≤85%					
Power Supply	AC110V / 60Hz					
Max. Power	100W				150W	300W
Dimensions (LxWxH)	261x148x99mm (10.28x5.83x3.90")				300x220x111mm (11.81x8.66x4.37")	430x220x111mm (16.93x8.66x4.37")
Net Weight	1.2kg (2.65 lb)				3kg (6.61 lb)	4.5kg (9.92 lb)
Protection Level	IP21					
Certifications	CE, RoHS, WEEE					
Programmable	6 Sections		NA		6 Sections	


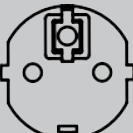
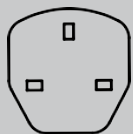

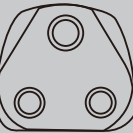
◆ Accessories

Part. No.	Name	Sample Type	Well Dia.	Well Depth.	Hole Bottom Shape	Dimenstions L x W x H	Picture
DBA01	24x5ml Block	5ml Round Bottom Tubes	Φ13.5mm (0.53")	30mm (1.18")	Round Bottom	117.8x77.8x31.5mm (4.64x3.06x1.24")	①
DBA02	12x1.5ml Half Block	1.5ml VWR Microtubes	Φ10.8mm (0.43")	30mm (1.18")	Conical Bottom	77.8x58.9x31.5mm (3.06x2.32x1.24")	②
DBA03	10x10/15ml Half Block	10 / 15ml Round Bottom Tubes	Φ16mm (0.63")	48.5mm (1.9")	Round Bottom	77.8x58.9x50mm (3.06x2.32x1.97")	③
DBA04	96x0.2ml Block	0.2ml PCR or Microtubes	Φ6.4mm (0.25")	19.5mm (0.77")	Conical Bottom	117.8x77.8x40mm (4.64x3.06x1.57")	④
DBA06	24x1.5ml Block	1.5ml VWR Microtubes	Φ11mm (0.43")	36mm (1.42")	Conical Bottom	117.8x77.8x40mm (4.64x3.06x1.57")	⑤
DBA07	48x0.2ml Tubes or 6 PCR Strips Half Block	0.2ml Tubes or 6 PCR Strips	Φ6.1mm (0.24")	19.5mm (0.77")	Conical Bottom	77.8x58.9x40mm (3.06x2.32x1.57")	⑥
DBA08	24x1.5/2.0ml Block	1.5 / 2.0ml VWR / Eppendorf Microtubes	Φ11.5mm (0.45")	37mm (1.46")	Conical Bottom	117.8x77.8x40mm (4.64x3.06x1.57")	⑦
DBA09	30x0.5ml Block	0.5ml PCR Tubes	Φ7.9mm (0.31")	27.6mm (1.09")	Conical Bottom	117.8x77.8x40mm (4.64x3.06x1.57")	⑧
DBA10	Flat Block	96 Well or 384 Well Plate Microscope Slides	/	/	/	117.8x77.8x40mm (4.64x3.06x1.57")	⑨
DBA12	96x0.1 / 2.0ml PCR Block	0.1 / 0.2ml PCR	Φ6.1mm (0.24")	12.5mm (0.49")	Cone-shape Bottom	117.8x77.8x50mm (4.64x3.06x1.97")	⑩
DBA16	12x15ml Block	15ml Centrifuge Tubes	Φ16mm (0.63")	48.5mm (1.91")	Conical Bottom	117.8x77.8x50mm (4.64x3.06x1.97")	⑪
DBA17	5x50ml Block	50ml Centrifuge Tubes	Φ29mm (1.14")	48.5mm (1.91")	Conical Bottom	117.8x77.8x50mm (4.64x3.06x1.97")	⑫
DBA23	30x6mm (0.24") Tubes Block	6mm (0.24") Standard Test Tubes	Φ6.5mm (0.26")	18mm (0.71")	Round Bottom	117.8x77.8x50mm (4.64x3.06x1.97")	⑬
DBA24	24x10mm (0.39") Tubes Block	10mm (0.39") Standard Test Tubes	Φ10.7mm (0.42")	38mm (1.5")	Round Bottom	117.8x77.8x50mm (4.64x3.06x1.97")	⑭
DBA25	20x12 / 13mm (0.47 / 0.51") Tubes Block	12 / 13mm (0.47 / 0.51") Standard Test Tubes	Φ13.9mm (0.55")	48.5mm (1.91")	Round Bottom	117.8x77.8x50mm (4.64x3.06x1.97")	⑮
DBA26	20x15 / 16mm (0.59/0.63") Tubes Block	15 / 16mm (0.59 / 0.63") Standard Test Tubes	Φ17.5mm (0.69")	48.5mm (1.91")	Round Bottom	117.8x77.8x50mm (4.64x3.06x1.97")	⑯
DBA27	12x17 / 18mm (0.67 / 0.71") Tubes Block	17 / 18mm (0.67 / 0.71") Standard Test Tubes	Φ19.1mm (0.75")	48.5mm (1.91")	Round Bottom	117.8x77.8x50mm (4.64x3.06x1.97")	⑰
DBA28	8x20mm (0.79") Tubes Block	20mm (0.79") Standard Test Tubes	Φ21mm (0.83")	48.5mm (1.91")	Round Bottom	117.8x77.8x50mm (4.64x3.06x1.97")	⑱
DBA29	8x25mm (0.98") Tubes Block	25mm (0.98") Standard Test Tubes	Φ26.2mm (1.03")	48.5mm (1.91")	Round Bottom	117.8x77.8x50mm (4.64x3.06x1.97")	⑲
DBA30	3x40mm (1.57") Tubes Block	40mm (1.57") Standard Test Tubes	Φ40.5mm (1.59")	48.5mm (1.91")	Round Bottom	117.8x77.8x50mm (4.64x3.06x1.97")	⑳
DBA36	20x12mm (0.47") Vials Block	12mm (0.47") Vials	Φ12.7mm (0.5")	48.5mm (1.91")	Flat Bottom Hole	117.8x77.8x50mm (4.64x3.06x1.97")	㉑

Part. No.	Name	Sample Type	Well Dia.	Well Depth.	Hole Bottom Shape	Dimenstions LxWxH	Picture
DBA37	20x15mm (0.59") Vials Block	15mm (0.59") Vials	Φ15.8mm (0.62")	48.5mm (1.9")	Flat Bottom Hole	117.8x77.8x50mm (4.64x3.06x1.97")	②②
DBA38	20x16mm (0.63") Vials Block	16mm (0.63") Vials	Φ16.4mm (0.65")	48.5mm (1.9")	Flat Bottom Hole	117.8x77.8x50mm (4.64x3.06x1.97")	②③
DBA39	12x17mm (0.67") Vials Block	17mm (0.67") Vials	Φ17.8mm (0.7")	48.5mm (1.9")	Flat Bottom Hole	117.8x77.8x50mm (4.64x3.06x1.97")	②④
DBA40	12x19mm (0.75") Vials Block	19mm (0.75") Vials	Φ19.8mm (0.78")	48.5mm (1.9")	Flat Bottom Hole	117.8x77.8x50mm (4.64x3.06x1.97")	②⑤
DBA41	9x21mm (0.83") Vials Block	21mm (0.83") Vials	Φ21.8mm (0.86")	48.5mm (1.9")	Flat Bottom Hole	117.8x77.8x50mm (4.64x3.06x1.97")	②⑥
DBA42	8x23mm (0.91") Vials Block	23mm (0.91") Vials	Φ23.8mm (0.94")	48.5mm (1.9")	Flat Bottom Hole	117.8x77.8x50mm (4.64x3.06x1.97")	②⑦
DBA43	8x25mm (0.98") Vials Block	25mm (0.98") Vials	Φ25.8mm (1.02")	48.5mm (1.9")	Flat Bottom Hole	117.8x77.8x50mm (4.64x3.06x1.97")	②⑧
DBA44	6x28mm (1.1") Vials Block	28mm (1.1") Vials	Φ28.8mm (1.13")	48.5mm (1.9")	Flat Bottom Hole	117.8x77.8x50mm (4.64x3.06x1.97")	②⑨
DBA05	Insulation Cover	Heat Preservation for no more than 7ml tubes	/	/	/	/	③⑩
DBA51	High Insulation Cover	For all blocks	/	/	/	/	③①



◆ Order Information Table

Order Model	Power Supply	Plug Type
DB-01A	AC110V±11V, 60Hz	US 
DB-02A		
DB-03A		
DB-04A		
DB-01E	AC220V±22V, 50 / 60Hz	Eur 
DB-02E		
DB-03E		
DB-04E		
DB-01EN		UK 
DB-02EN		
DB-03EN		
DB-04EN		
DB-01AU		AU 
DB-02AU		
DB-03AU		
DB-04AU		
DB-01SA		SA 
DB-02SA		
DB-03SA		
DB-04SA		

Mini Water Baths

◆ Description

This mini Water Bath is a high-precision, intelligent temperature instrument which is widely used in colleges and universities, medical, chemical, pharmaceutical and other scientific research. Coupled with sophisticated micro-computer temperature control system, this instrument provides high precision and accurate temperature control. Automatic overheating device is also available to prevent dry burning and over heating.

◆ Features:

- ☐ Designed with a small footprint.
- ☐ Microprocessor-controlled.
- ☐ Overheating alarm.
- ☐ Models WB-01A & WB-01E are available with a programmable feature.
- ☐ Various types of tube holders are available to meet the needs of every customer.



Programmable Digital Water Bath
WB-01A



Digital Water Bath
WB-02A



With Tube Holder A (WBA10)



With Tube Holder B (WBA11)



With Tube Holder C (WBA13)

◆ Specifications


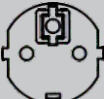
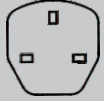


Name	Programable Digital Bath	LED Digital Bath
Model	WB-01A	WB-02A
For regions other than North America, check the model number in the “ Order Information Table ”		
Temp. Range	Ambient +5°C~100°C	
Temp. Fluctuation	@37°C, ≤±0.1°C (Water)	
Temp. Uniformity	±0.3°C (@37°C) (Water)	
Heating up Time	From Ambient (20°C) to 95°C, ≤60min	
Temp. Accuracy	0.1°C	
Timer	99h59min	NA
Capacity	240ml	
Display	LCD	LED
Accessories included in Standard Packaging	1xWBA14	
Ambient Temperature	5°C~40°C	
Relative Humidity	≤80°C	
Power Supply	AC110V / 60Hz	
Max. Power	100W	
Dimensions (LxWxH)	262x143x96mm (10.31x5.63x3.78")	
Sink Dimensions	113x76x39mm (4.45x2.99x1.54")	
Net Weight	1.2kg (2.65 lb)	
Protection Level	IP22	
Certifications	NA	
Programmable	6 Sections	NA

◆ Accessories

Part Number	Name	Hole Size
WBA10	5ml Tube Holder	5ml, 15xØ15.5mm (0.61")
WBA11	1.5ml / 2ml Tube Holder	1.5ml / 2ml, 28xØ11mm (0.43")
WBA12	Microplate Holder	0.2ml, 96xØ7.6mm (0.3")
WBA13	Tube Holder Combination	5ml / 7ml, 1.5ml / 2ml, 0.2ml, 5xØ16.5mm (0.65"), 7xØ11mm (0.43"), 22xØ7.6mm (0.3")
WBA14	Vapor Cover	Fit to the tubes less than 7ml.
DBA51	High Insulation Cover	For all blocks.



◆ Order Information

Order Model	Power Supply	Plug Type
WB-01A	AC110V±11V, 60Hz	US 
WB-02A		
WB-01E	AC220V±22V, 50 / 60Hz	Eur 
WB-02E		
WB-01EN		UK 
WB-02EN		
WB-01AU		AU 
WB-02AU		
WB-01SA		SA 
WB-02SA		

UV Transilluminators

◆ Description

The BioGlow® UV transilluminators are designed to deliver optimal UV intensity and extremely uniform UV emission to guarantee clear and reproducible results. The unit has the dual intensity settings; it can be used to lower the UV intensity to 50% to reduce DNA damage during long exposure times, or switch to high intensity (100%) for viewing weak fluorescent signals or for photo documentation. The 200x240mm UV viewing surface is sized to accommodate large gels or multiple smaller gels. The unit is equipped with a UV blocking cover to protect the user from harmful UV radiation.

◆ Features

- ☐ Choice of High (100%) or Low(50%) intensity.
- ☐ Durable, hinged UV protection cover.
- ☐ Specially processed UV filter reduces background noise.
- ☐ Anti-glare surface ensures uniform UV light distribution.
- ☐ 200mmx240mm filter size to work well with of large gels.



◆ Specifications


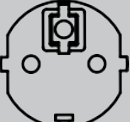
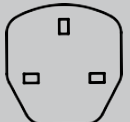

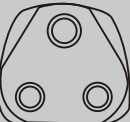
Name	UV Transilluminators		
Model	ZT-10A	ZT-20A	ZT-30A
For regions other than North America, check the model number in the " Order Information Table "			
Wavelength	254nm	312nm	365nm
Capacity	NA		
Filter Size	200x240mm (7.87x9.45")		
Max. Load	NA		
Ambient Temperature	5°C~40°C		
Relative Humidity	≤80%		
Power Supply	AC110V / 60Hz		
Max. Power	50W		
Dimensions (WxDxH)	242x380x114mm (9.53x14.96x4.49")		
Net Weight	7kg		
Protection Level	IP21		
Certifications	CE		

◆ Accessories

Name	Part Number	Description	Quantity
UV Lamp	ZTA01	254nm 8W 220VAC	2
	ZTA02	312nm 8W 220VAC	2
	ZTA03	365nm 8W 220VAC	2



◆ Order Information

Order Model	Power Supply	Plug Type
ZT-10A	AC110V±11V, 60Hz	US 
ZT-20A		
ZT-30A		
ZT-10E	AC220V±22V, 50 / 60Hz	Eur 
ZT-20E		
ZT-30E		
ZT-10EN		UK 
ZT-20EN		
ZT-30EN		
ZT-10AU		AU 
ZT-20AU		
ZT-30AU		
ZT-10SA		SA 
ZT-20SA		
ZT-30SA		

Handheld UV Lamps

Description

The BioGlow® series of Handheld UV provides UV radiation with wavelengths of 365nm or 254nm, or a combination of both 254nm and 365nm. The AA series of UV lamps represent a technical innovation in the evolutionary process of UV lamps, with a unique built-in position device which automatically protects operators from exposure to UV radiation.



Features

- ☐ Reliable components, high UV intensity.
- ☐ Portable, light weight, and ergonomically designed.
- ☐ Single or dual wavelength.
- ☐ Choice of corded or cordless rechargeable* units.
- ☐ Unique automatic safety switch to prevent harmful UV radiation exposure when unit is turned upside down (with AA models only).

*The cordless unit uses 12V rechargeable batteries and includes -a charger (100~240VAC,50/60Hz).

Specifications

AC Model	UV Wavelength	UV Window Size	Number of UV Lamps	Dimensions WxDxH
110V 60Hz				
BG-10A (Previous Model BG-11)	254nm	150x50mm (5.9x1.97")	2	88x415x60mm (3.46x16.34x2.36")
BG-30A (Previous Model BG-31)	365nm		2	
BG-40A (Previous Model BG-41)	365nm&254nm		2(1+1)	


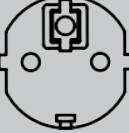
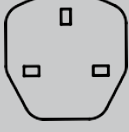

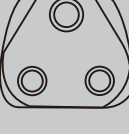
Lithium Battery Model with DC12V		UV Wavelength	UV Window Size	Number of UV Lamps	Dimensions WxDxH
Model with Automatic safety switch	Regular Battery Operated Model				
BG-12-AA (Previous Model BG-12-A)	BG-12A (Previous Model BG-12)	254nm	150x50mm (5.9x1.97")	2	88x415x60mm (3.46x16.34x2.36")
BG-32-AA (Previous Model BG-32-A)	BG-32A (Previous Model BG-32)	365nm		2	
BG-42-AA (Previous Model BG-42-A)	BG-42A (Previous Model BG-42)	365nm&254nm		2(1+1)	

Accessories


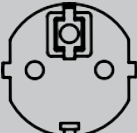
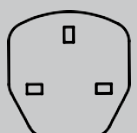

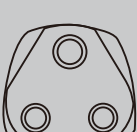
Model	Name	Descripton
BGA01	UV Lamp	254nm 6W 220VAC
BGA02	UV Lamp	365nm 6W 220VAC



Order Information

Order Model	Power Supply	Plug Type
BG-12-AA	Charger: AC100V-240V, 50 / 60Hz Rechargeable Battery: DC12V	US 
BG-12A		
BG-32-AA		
BG-32A		
BG-42-AA		
BG-42A		
BG-12-AE		Eur 
BG-12E		
BG-32-AE		
BG-32E		
BG-42-AE		
BG-42E		
BG-12-AEN		UK 
BG-12-EN		
BG-32-AEN		
BG-32EN		
BG-42-AEN		
BG-42EN		
BG-12-AAU		AU 
BG-12AU		
BG-32-AAU		
BG-32AU		
BG-42-AAU		
BG-42AU		
BG-12-ASA		SA 
BG-12SA		
BG-32-ASA		
BG-32SA		
BG-42-ASA		
BG-42SA		

◆ Order Information

Order Model	Power Supply	Plug Type
BG-10A	AC110V±11V, 60Hz	US 
BG-20A		
BG-30A		
BG-10E	AC220V±22V, 50 / 60Hz	Eur 
BG-20E		
BG-30E		
BG-10EN		UK 
BG-20EN		
BG-30EN		
BG-10AU		AU 
BG-20AU		
BG-30AU		
BG-10SA		SA 
BG-20SA		
BG-30SA		

Microincinerators

◆ Description

The microincinerator is designed to sterilize metal inoculating loops and needles without using an open flame. By using infrared heat inside a ceramic tube, the product protects your laboratory technicians from dangerous gases, flames and splatters. Once it reaches optimum sterilization temperature (900 °C), the loop or needle is sterilized within 5-7 seconds.



ST-14A



ST-14FA

◆ Features

- ❑ Ceramic heating tube reaches high temperature quickly;
- ❑ Long life time and safe to operate;
- ❑ The angle of heating tube can be adjusted to adapt different bench positions and user's liking.

◆ Specifications

Model	ST-14A	ST-14FA
Max.Temp in Operation Mold	900℃ ± 50℃	
Max.Temp in Stand-along Mold	600℃ ± 50℃	
Max. Sample Diameter	Ø14mm	
Depth of Heated Area	130mm	
Sterilization Time	3~5s	
Angle Adjustment	Yes	No
Ambient Temperature	4℃~60℃	
Relative Humidity	≤ 90% Non-condensing	
Power	200W	
Power Supply	AC110V / 60Hz	
Weight	1.2kg	






◆ Accessories

Name	Part Number (Previous Part Number)
Inoculation Loop Holder	STA01 (S1121-1)



STA01
(S1121-1)

◆ Order Information Table

Order Model	Power Supply	Plug Type
ST-14A	AC110V±11V,60Hz	US 
ST-14FA		
ST-14E	AC220V±22V, 50Hz	Eur 
ST-14FE		
ST-14EN		UK 
ST-14FEN		
ST-14AU		AU 
ST-14FAU		
ST-14SA		SA 
ST-14FSA		

Pipette Carousel

◆ Description

Organize your benchtop with the compact, 6-place pipette carousel. The pipette is held in place at the handle, with room for up to 6 single or multi-channel pipettes. The carousel rotates easily for convenient access to the pipette you need.



◆ Features

- ☐ Rotating carousel for easy pipette selection;
- ☐ Holds up to six pipettes;
- ☐ Constructed of durable ABS plastic;
- ☐ Works with many common pipette styles, including Gilson, Rainin, Labnet, Genemate, Tomos and others.

◆ Specifications

Model	YZJ-6
Product Name	Pipette Carousel, 6-place
For Pipette Types	Gilson, Rainin, Labnet, Genemate, Tomos and others
Capacity	Six Pipettes
Height	330mm
Max Outside Diameter	φ 152mm
Package Dimensions	190 x 220 x 165mm

Agarose

◆ Description

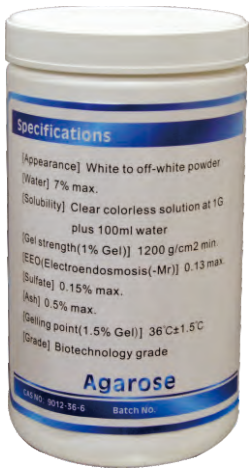
Agarose is a low EEO, multi-purpose, standard melting point agarose that yields high resolution sharp DNA bands with high clarity and low background. Its optimized gel strength enhances ease of gel processing and handling. Manufactured using innovative organic solvent free manufacturing process that is more environment friendly.

◆ Application

- ☐ Ideal for routine DNA and RNA gel electrophoresis and blotting.

◆ Features

- ☐ High purity and Multi-purpose.
- ☐ Low background and high resolution.
- ☐ Optimized gel strength for ease of gel preparation.



◆ Specifications

Model	A-500
Appearance	White to ivory white powder
Water	7% max.
Solubility	Clear colorless solution at 1G plus 100ml water
Gel strength(1% Gel)	1200g/cm 2min.
EEO(Electroendosmosis(-Mr)	0.13 max.
Sulfate	0.15 max.
Ash	0.5 max.
Gelling point(1.5% Gel)	36°C ±1.5°C
Grade	Biotechnology grade
CAS	NO.9012-36-6