

CellPhase®

Non-invasive Sensors
for pH and DO



Introducing a full line of disposable, non-invasive optical sensor systems for measuring pH and DO. The CellPhase "coaster" system uses "peel-and-stick" sensor patches that are disposable and sterilizable. These patches may be applied to virtually any clear reactor vessel including flasks and bags. Available in single, dual or quad channel systems.

Specifications

- DO range: 0-100% air nominal
- pH range: 5.5-8.5 nominal
- Sensing platform: 3-inch diameter
- Standard USB PC interface, draws power from USB
- Software included
- Laptop computer optionally included
- Single, dual or quad channel systems available

Key Features

- Non-invasive
- Compact
- Easy, labor saving design - virtually calibration-free
- Ideal for laboratory use, unattended operation
- Real-time, continuous monitoring, logging, display
- USB interface

The CellPhase "coaster" actually resides outside the fluid, illuminating a special, one time use, chemically treated luminescent patch placed within the fluid. This causes, in response, luminescent light energy to be generated which, when collected and properly analyzed, provides precise information about the desired parameter to be measured in the fluid. This non-invasive technique ensures that the sensing instrument requires no sterilization and only minimal cleaning between uses. Coupled with a calibration procedure that can be performed in under 60 seconds with a single keystroke, operator labor is reduced by orders of magnitude.

*CellPhase is a registered trademark of Fluorometrix Corporation.



Home of the Multi-Task Genie™ Family



Australian Distributors
www.chromtech.net.au E-mail : info@chromtech.net.au Tel : +61 3 9762 2034 Fax : +61 3 9761 1169

Vortex-Genie® Mixers



THE ORIGINAL

Vortex-Genie® 1

- Violent single high-speed vortexing
- Easy-to-use Touch On operation
- Large, 6mm orbit for aggressive vortexing of difficult samples
- May be used with Pop-off Cup (shown) or optional 3-inch Platform
- Vortex-Genie quality at an even more economical price!

Vortex-Genie® 2

- OUR MOST POPULAR MODEL
- Variable speed for precise mixing from gentle to vigorous
- Broad range of attachments for most tubes, plates and other containers
- Hands-Free or Touch On control
- May be used in cold rooms and incubators

SPECIFICATIONS

Vortex-Genie Model	Vortex-Genie 1	Vortex-Genie 2
Supplied	Pop-off Cup	3-inch Platform, Pop-off Cup
Speed (RPM)	3200 (2700 for 50Hz models)	600-3200 (2700 for 50Hz models)
Timer - Touch On: Hands-Free:	N/A	N/A
Weight	4 Kg (8.8 lb)	4 Kg (8.8 lb)
Dimensions (base) (D x W x H)	165 x 122 x 165mm (6.5 x 4.8 x 6.5in)	165 x 122 x 165mm (6.5 x 4.8 x 6.5in)
CATALOG NUMBERS		
120V, 60Hz	SI-0136	SI-0236 (Model G560)
230V, 50Hz - Australian Plug	SI-0196	SI-0297 (Model G560E)

See page 3 for accessories.

U.S. Pats. 4,781,487
5,707,861



ETL Listed Conforms to UL Std. 3101-1
ETL Listed Certified to CAN/CSA C22.2



Magnetic Stirrers



Large Volume Stirring

Four Position Stirring



- Powerful "rare earth" magnets automatically pull stir bars into position and stay coupled even under the most demanding stirring conditions
- Rugged ABS/Polycarbonate housing and the famous Vortex-Genie® heavy-duty motor provide years of reliable service
- Non-skid feet
- Both analog control and digital feedback (true speed) versions are available for MegaMag Genie
- True Speed readout (RPM) with feedback control on digital version of the MegaMag Genie is adjustable in 10 RPM increments. Also includes adjustable digital timer
- Can be used in cold rooms and incubators

SPECIFICATIONS

	MegaMag Genie / Digital MegaMag Genie	QuadMag Genie
Stirring Speed	200-1300 RPM	150-1500 RPM
Time	1-99 min or continuous (digital only)	N/A
Maximum Stirring Positions	1	4
Maximum Stirring Capacity	38 L	2 L each position
Stir Bar Maximum Length	7.6cm (3in)	5.1cm (2in)
Material	N/A	ABS/Polycarbonate Non-skid Top Pad (1)
Top Surface Dimensions (D x W x H)	305 x 305mm (12 x 12in)	305 x 305mm (12 x 12in)
Overall Dimensions (D x W x H)	310 x 305 x 130mm (12.25 x 12 x 5.1in)	310 x 305 x 130mm (12.25 x 12 x 5.1in)
Weight	3 Kg (6.6 lb)	3 Kg (6.6 lb)
CATALOG NUMBERS		
120V, 60Hz	SI-2236 / SI-3236	SI-4236
230V, 50Hz - Australian Plug	SI-2296 / SI-3296	SI-4296



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Magnetic Stirrers

MAGSTIR & MULTIMAGSTIR GENIE®

Single Position Stirring



Four Position Stirring



Programmable High/Low Speed Stirring

- High and low speed range including reverse and interval stirring for applications ranging from gentle stirring for cell culture to aggressive mixing for viscous polymers
- Three power levels are available for various sample viscosities
- Low-profile magnetic stirrers use microprocessor control for precise and reproducible operation without heat build-up from internal friction
- Manual mode provides stir, stir reverse, and time functions
- Profiles mode allows users to quickly program speed, ramp rate, stir direction, time (including pause), and power level in up to 9 distinct steps. Up to 4 stirring programs can be saved
- Automatic mode recalls and executes one of up to 4 user-defined profiles

SPECIFICATIONS

	MagStir Genie	MultiMagStir Genie
Stirring Speed	10-1800 RPM	10-1200 RPM
Time	1 second - 99 hours	1 second - 99 hours
Power Levels	Low, Medium, High	Low, Medium, High
Selectable Ramp Rates	5 - 300 rpm/sec	5 - 300rpm/sec
Memory	Up to 4 user-defined profiles	Up to 4 user-defined profiles
Maximum Capacity	5.0 Kg (11 lb)	10.0 Kg (22 lb)
Dimensions (D x W x H)	200 x 160 x 55mm (7.9 x 6.3 x 2.2in)	375 x 325 x 48mm (14.8 x 12.8 x 1.9in)
Weight	1.0 Kg (2.2 lb)	3.2 Kg (7.0 lb)
CATALOG NUMBERS		
120V/100V	SI-0300	SI-3000
230V - Australian Plug	SI-0306	SI-3006

Vortex-Genie® Mixers



Vortex-Genie® 2T

- Same great features as the Vortex-Genie 2 with an integrated timer
- Timer function:
 - Touch On: 1-60 seconds
 - Hands-Free: 1-60 minutes or continuous
- Unit automatically stops at the end of user-programmed time
- May be used in cold rooms and incubators

Digital Vortex-Genie® 2

- Same great features as the Vortex-Genie 2 with digital control and display of speed and time
- Digital display provides accuracy, reproducibility and repeatability
- Timer function:
 - Touch On: 1-99 seconds
 - Hands-Free: 1-99 minutes or continuous
- May be used in cold rooms and incubators

SPECIFICATIONS

Vortex-Genie Model	Vortex-Genie 2T	Digital Vortex-Genie 2
Supplied	3-inch Platform, Pop-off Cup	3-inch Platform, Pop-off Cup
Speed (RPM)	600-3200 (2700 for 50Hz models)	500-3000 (2850 for 50Hz models)
Timer - Touch On:	1-60 seconds	1-99 seconds
Hands-Free:	1-60 minutes or continuous	1-99 minutes or continuous
Weight	4 Kg (8.8 lb)	4 Kg (8.8 lb)
Dimensions (base) (D x W x H)	165 x 122 x 165mm (6.5 x 4.8 x 6.5in)	165 x 122 x 165mm (6.5 x 4.8 x 6.5in)
CATALOG NUMBERS		
120V, 60Hz	SI-T236	SI-A236
<i>See page 3 for accessories.</i>		
230V, 50Hz - Australian Plug	SI-T296	SI-A296

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Australian Distributors ECHnology
 www.chromtech.net.au E-mail : info@chromtech.net.au Tel : +61 3 9762 2034 Fax : +61 3 9761 1169

Vortex-Genie® Family Accessories

For use with Vortex-Genie 2 Family of Mixers

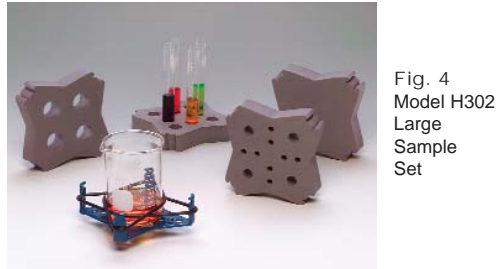
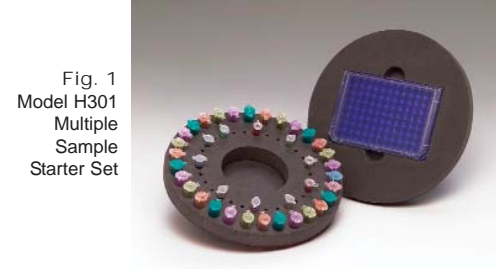
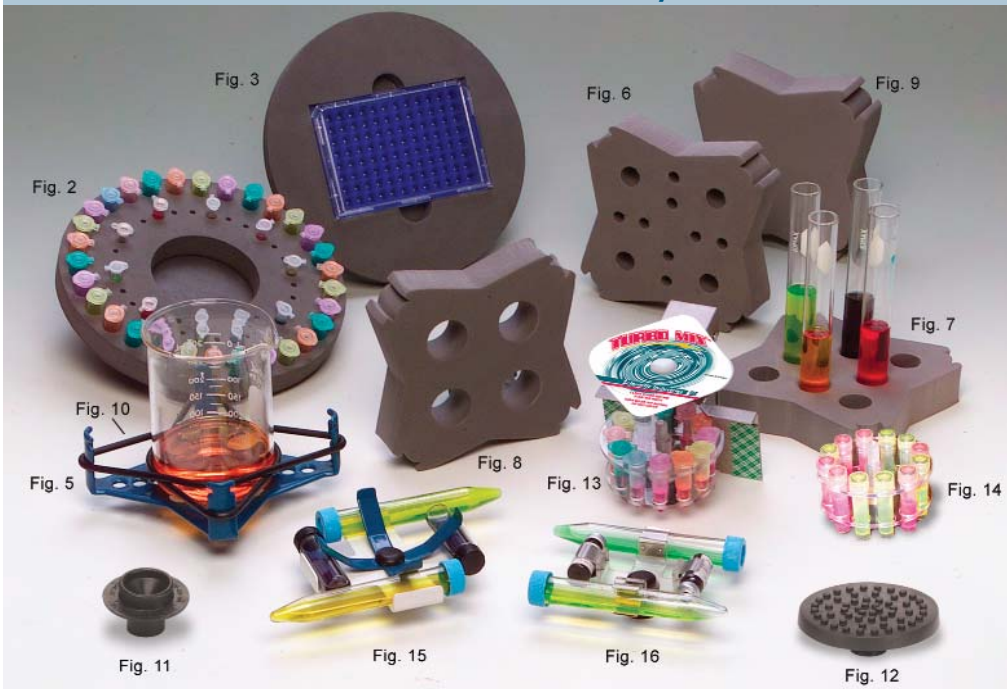


Fig.	Cat. No.	Description	Fig.	Cat. No.	Description
1	504-0233-00	Model H301 Multiple Sample Starter Set	4	503-0282-00	Model H302 Large Sample Set
--	146-6005-00	6-inch Platform (not shown separately)	5	504-0039-00	Recessed Platform
2	504-0234-00	Microtube Foam Insert (2)	6	503-0278-00	9-16mm Tube Foam Inserts (2)
3	504-0235-00	Microplate Foam Insert (2)	7	503-0279-00	14-29mm Tube Foam Inserts (2)
11	146-3011-00	Pop-off Cup	8	503-0280-00	29-37mm Tube Foam Inserts (2)
12	0K-0500-902	3-inch Platform with Rubber Cover	9	503-0277-00	Blank Foam Inserts (2)
13	SI-0563	TurboMix™ Attachment, 1.5ml Tubes	--	503-0283-00	Assorted Foam Inserts (4)
--	SI-0562	TurboMix Attachment, 2.0ml Tubes (not shown)	10	568-0001-00	Elastic Bands (2)
--	0A-0563-010	1.5ml Microtube Holder* (not shown separately)	--	SI-0510	Two-Tier Microplate Foam Insert (not shown)
14	0A-0563-011	2.0ml Screw-cap Microtube Holder*	15	SI-0511	Large Ampule/Tube Attachment
			16	SI-0570	Small Ampule/Tube Attachment

* May be used with TurboMix Attachment or Disruptor Genie®



Rotator/Rocker/Stirrer and Temperature Control



- Chiller, incubator, rotator, rocker and stirrer in one compact unit
- Magnetic platform and various accessories securely hold almost any sample
- Optional 3-D orbital attachment transforms the unit into a temperature-controlled orbital platform shaker
- RS232 interface for data download and/or remote operation

SPECIFICATIONS	
Supplied	Magnetic Platform, 1 Clip Plate each for 10-13mm, 15-17mm, and 28-30mm Tubes, 4 Bag Mounting Strips, Non-Skid Tray, and Stackable Shelf
Rotating	1-35 RPM
Rocking / Rocking Angle	2-70 cycles per minute / ±10 degrees from horizontal
Stirring	1-2000 RPM including stir reverse
Platform Capacity	4.5 Kg (10 lb)
Temperature Range	4-75°C (39-167°F)
Accuracy / Uniformity	±0.2°C / ±0.5°C
Resolution / Stability	0.1°C / ±0.1°C
Chamber Dimensions (D x W x H)	254 x 362 x 260mm (10 x 14.25 x 10.25in)
Overall Dimensions (D x W x H)	495 x 622 x 368mm (19.5 x 24.5 x 14.5in) Depth with Rocker Tray - 305mm (12in)
Chamber Volume	24 L (0.86 ft³)
Weight	36 Kg (80 lb)
CATALOG NUMBERS	
120V, 60Hz	SI-1200
230V, 50Hz - Australian Plug	SI-1206
	U.S. Pat. 5,918,979 U.S. Pat. 6,962,433



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Fig.	Cat. No.	Description
1	SI-1123	1 Clip Plate for 12 each 10-13mm tubes
2	SI-1124	1 Clip Plate for 6 each 15-17mm tubes
3	SI-1125	1 Clip Plate for 3 each 28-30mm tubes
4	SI-1120	6 Clip Plates for 12 each 10-13mm tubes
5	SI-1121	6 Clip Plates for 6 each 15-17mm tubes
6	SI-1122	6 Clip Plates for 3 each 28-30mm tubes
7	SI-1126	Bag Mounting Strips (pack of 16)
8	SI-1127	Expansion Kit - two stainless steel trays, 24 bag mounting strips
9	SI-1130	2 Clip Plates for Hybridization Tubes
10	SI-1131	1 Stackable Shelf for Enviro-Genie
--	SI-1132	Serial Cable for Enviro-Genie (picture not shown)
11	SI-1134	2 Universal Clip Plates
12	SI-1135	1 Magnetic Covered 100 Microtube Box
13	SI-1136	1 Clip Plate for 100ml Volumetric Flasks
14	0A-1100-070	Non-Skid Tray for Roto-Shake Genie
14	0A-1200-001	Non-Skid Tray for Enviro-Genie
15	SI-1150	3-D Orbital Shaker Attachment for Roto-Shake Genie
15	SI-1250	3-D Orbital Shaker Attachment for Enviro-Genie



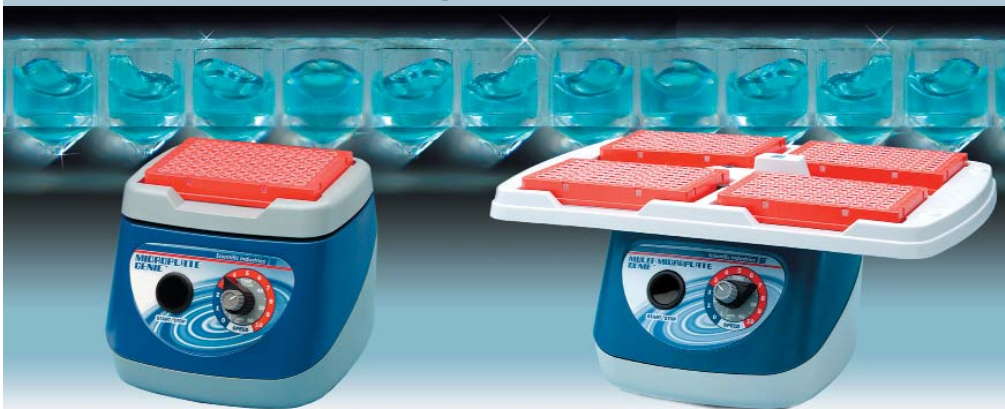
- | Disruptor Genie® | Disruptor Beads™ |
|---|---|
| <ul style="list-style-type: none"> ● Rapid hands-free disruption of up to 12 microtubes (1.5ml or 2.0ml) at one time ● Unique agitation, vortexing, and collision actions for cell disruption and sample resuspension ● Maintains operating speed for up to 15 minutes, or continuous operation, even in cold rooms ● Supplied Pop-off Cup easily attaches for use as a standard single-tube vortex mixer ● Ideal for glass bead procedures using Disruptor Beads ● Less costly than ultrasonic units or homogenizers | <ul style="list-style-type: none"> ● Spherical lead free soda lime glass beads are available in two sizes ● Can be used for disruption of yeast, bacteria, and other samples ● Used in combination with Disruptor Genie or TurboMix™ attachment for Vortex-Genie® 2, Vortex-Genie® 2T or Digital Vortex-Genie® 2 |

SPECIFICATIONS			
	Disruptor Genie 1.5ml	Disruptor Genie 2.0ml	Disruptor Beads
Supplied	1.5ml Microtube Holder (tubes not included) and Pop-off Cup	2.0ml Microtube Holder (tubes not included) and Pop-off Cup	0.1mm diameter beads for bacteria 0.5mm diameter beads for yeast
Dimensions (base) (D x W x H)	165 x 122 x 190mm (6.5 x 4.8 x 7.5in)	165 x 122 x 190mm (6.5 x 4.8 x 7.5in)	
Weight	4.3 Kg (9.5 lb)	4.3 Kg (9.5 lb)	375g (8 fl. oz.)
CATALOG NUMBERS			
120V, 60Hz	SI-D236	SI-D237	SI-BG01 (0.1mm)
230V, 50Hz - Australian Plug	SI-D296	SI-D297	
ETL Listed Conforms to UL Std. 3101-1 ETL Listed Certified to CAN/CSA C22.2			
		U.S. Pats. 5,707,861 4,781,487	



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Microplate Mixers



MICROPLATE GENIE & MULTI-MICROPLATE GENIE

- Small vortexing orbit of 1.0mm for thorough mixing regardless of sample viscosity
- High speed and small orbit combine to offer true vortexing action in each well of the microplate
- Accepts most microplate types within the recommendations of the Society for Biomolecular Screening (SBS), even in 384-well formats
- Multi-MicroPlate Genie may be used to shake up to 4 microplates. An optional accessory tray is available to double capacity to shake up to 8 microplates at one time
- Both models may be used in cold rooms and incubators for temperature sensitive applications
- Built-in timer operates from 1 - 60 minutes or continuous for hands-free use

SPECIFICATIONS

	MicroPlate Genie	Multi-MicroPlate Genie
Stirring Speed	750-3200 RPM (750-2700 RPM for 50Hz models)	750-3200 RPM (750-2700 RPM for 50Hz models)
Time	1-60 minutes or continuous	1-60 minutes or continuous
Vortexing Orbit	1.0mm diameter	1.0mm diameter
Maximum Capacity	1 microplate, any type with standard SBS footprint	4 microplates (8 microplates with optional tray)
Dimensions (D x W x H)	165 x 180 x 140mm (6.5 x 7.0 x 5.5in)	335 x 240 x 165mm (13.2 x 9.4 x 6.5in)
Weight	2.75kg (6.1lb)	3.7kg (8.1lb)
CATALOG NUMBERS		
120V, 60Hz	SI-0400	SI-4000
230V, 50Hz - Australian Plug	SI-0406	SI-4006
Multi-MicroPlate Accessory Tray	N/A	SI-4010



ETL Listed Conforms to UL Std. 3101-1
ETL Listed Certified to CAN/CSA C22.2



Combination Rotator and Rocker



Rotate, Rock, or 3-D Orbit Any Container!

- Combines rotating and rocking in one compact unit
- Magnetic platform and various accessories securely hold almost any sample
- Optional 3-D orbital attachment transforms the unit into an orbital platform shaker
- A variety of attachments/accessories are available to provide maximum application versatility
- Maintains set speed between 0-38°C for use in cold rooms or incubators



SPECIFICATIONS

Supplied	Magnetic Platform, 1 Clip Plate each for 10-13mm, 15-17mm, and 28-30mm Tubes, 4 Bag Mounting Strips, and Non-Skid Tray
Rotating	5-35 RPM
Rocking	10-70 cycles per minute
Rocking Angle	±10 degrees from horizontal
Platform Capacity	4.5 Kg (10 lb)
Dimensions (D x W x H)	252 x 508 x 267mm (9.9 x 20 x 10.5in) Depth with Rocker Tray - 305mm (12in)
Weight	11.8 Kg (26 lb)
Temperature	0-38°C (32-100°F) 95% maximum relative humidity
CATALOG NUMBERS	
120V, 60Hz	SI-1100
230V, 50Hz - Australian Plug	SI-1106

See page 7 for accessories U.S Pat 5,918,979



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