

# Hybex™ Microarray Incubation System\*

## Incubate up to 16 Microarrays...Ready for Processing



The Hybex™ System simplifies incubation and processing of microarrays to reduce costly errors and enhance the reproducibility of results. The system is comprised of the Hybex™ Microsample Incubator and two humidified chambers with removable slide racks for incubating and processing 16 arrays.

### Eliminates Cassettes and Waterbaths

The Hybex System replaces multiple, clumsy cassettes with a two-piece chamber that holds eight arrays in two removable racks. Instead of plunging hands repeatedly into hot water to place and remove cassettes, Hybex chambers are simply inserted into a small heating unit.

### Using Hybex is Simple



1. Place arrays in racks.



2. Attach chamber cover.



3. Place in heating unit.



Hybex eliminates cassettes and waterbaths.

### What Hybex users say...

*"We've had nice results using the Hybex unit from SciGene. It's simple, relatively inexpensive, and has great temperature control."* — Ron, Rutgers University

*"You don't have to worry about a waterbath being balanced or liquid getting inside the normal hybridization cassette chambers. Temperature and humidity within the Hybex chambers are tightly controlled."* — Rebecca, UCSF

### Eliminates Handling Arrays When Washing and Drying

Manually transferring arrays from waterbath cassettes into racks takes time and creates opportunities to damage samples. With Hybex, slides remain in the incubation racks when performing coverslip removal, washing and drying. Arrays are not touched post-hybridization.

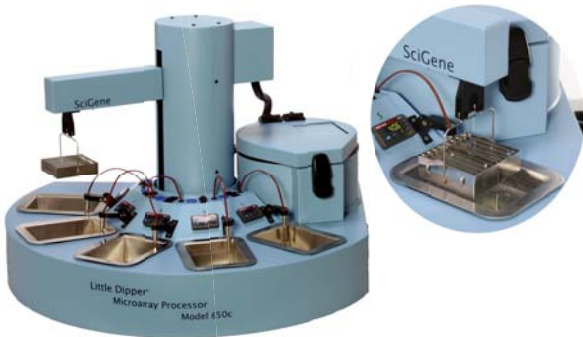


Hybex slide racks lock together to process 8 arrays. (Shown with optional waterbath)

# Hybex™ Microarray Incubation System

## Integrates with the Little Dipper™ Microarray Processor

For a complete array processing solution, Hybex slide racks can be seamlessly transferred to the Little Dipper™ Microarray Processor for automatic washing and drying. This robotic instrument moves and agitates Hybex racks containing 8 arrays through five temperature controlled baths into an integral centrifuge for drying. The Little Dipper eliminates process variability between operators that use a patchwork of dishes, hotplates and thermometers to wash arrays.



*The Little Dipper Microarray Processor automates washing and drying.*

## Perform Enzyme Incubations with Heat Blocks

The Hybex heating unit provided as part of the system can be transformed into a tube / PCR plate heater with the use of removable blocks. The heated lid eliminates cap condensation which can alter

sample composition when performing IVT and other everyday enzyme incubations. Blocks are available for PCR tubes/plates, 0.6 ml and 1.5 ml tubes.



*PCR, 0.6 ml and 1.5 ml tube blocks are available.*

## Consistently Delivers Accurate Temperatures

Laboratory waterbaths used for incubating arrays fluctuate temperature and cannot be easily calibrated. The Hybex Microarray Incubator precisely controls incubation temperatures to  $\pm 0.2^{\circ}\text{C}$  from set point. To ensure consistent day-to-day results, the unit is easily calibrated with an optional NIST certified digital thermometer.



*Calibration with a digital thermometer ensures accurate temperatures.*

## Specifications

### Electrical

Cat.# 1057-36-1 115/220V AC; 50/60 Hz; 250W  
 Cat.# 1057-36-2 220/240V AC; 50/60 Hz; 250W

### Dimensions (HxWxD)

Outside (cover closed) 8 x 6 x 12 inches  
 (20 x 14 x 30 cm)

### Weight

Net 5.2 lbs (2.4 kg)  
 Gross (in shipping carton) 4.1 to 6.0 lbs (1.9 to 2.7 kg)

### Performance and Controls

Temperature Range Ambient +5°C to 99°C  
 Temperature Regulation  $\pm 0.2^{\circ}\text{C}$  from set point  
 Heat up Time > 5°C per minute  
 Temperature Controller Digital PID, single loop  
 Temperature Display Toggles Actual or Set temperature  
 Thermometer Output Thermocouple

## Ordering Information

Catalog No.	Description	UoM
1057-36-1	Hybex™ Microarray Incubation System; 115V	EA
1057-36-2	Hybex™ Microarray Incubation System, 220V	EA

Each system comes complete with;  
 — Hybex Microsample Incubator heating base  
 — Microarray Incubation Chambers (2)  
 — Removable, 4 position slide racks (4)  
 — Replacement absorbent pads (25)  
 — Assembly tools and processing handles

### Optional Equipment

1057-31-0	PCR Tube Block, holds 96 x 0.2 ml PCR tubes or single plate	EA
1057-33-0	0.6 ml tube heat block, holds 60 tubes	EA
1057-34-0	1.5 ml tube heat block, holds 32 tubes	EA
1057-35-0	Waterbath insert, 625 ml	EA
1057-37-0	Additional Microarray Incubation Chamber with two slide racks, assembly tool and handle	EA
1051-52-0	Digital thermometer Includes cable and NIST certificate	EA

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