

Hybridization Ovens

Hybridization ovens are replacing hybridization bags and water baths for procedures involved in Southern, Northern and in situ hybridization. UVP's hybridization ovens provide accurate temperature and rotation speed controls plus variable bottle sizes and offset bottle positioning. The dynamic mixing capability is ideal for creating the optimum conditions needed for cDNA library screenings, primer synthesis and nucleic acid hybridization. The interior stainless steel construction is easy to clean.

Precision heated hybridization ovens

HB-1000 Hybridizer

The **HB-1000 Hybridizer Hybridization Oven** provides uniform temperature and rotation controls for thorough mixing of materials.



HB-1000 Hybridizer hybridization oven features fast heat-up capability. Units are stackable for maximizing lab space.

HB-1000 Dimensions:
17.5W x 16H x 15D in.
(445 x 406 x 381mm)

- Variable rotary wheel speed control (10 to 15 rpm) enables consistent saturation of samples
- Microprocessor accurately controls temperature
- Large LCD displays the current temperature inside the chamber
- Protective trays removable to allow easy cleanup of spilled media
- RPM knob adjusts speed control of the rotary wheel
- Carousel holds twenty 35 x 150mm bottles, ten 35 x 300mm bottles or combination
- Offset bottle positioning for thorough mixing
- Carousel is removable for use of the optional rocker tray (stainless steel 12.5W x 10D in.)

Ordering Information

HB-1000 Hybridizer	95-0030-01 (115V)
Hybridization Oven	95-0030-02 (230V)
Heating Element:	1250 Watts
Rotary Wheel Variable Speed:	10 to 15 rpm
Bottle Included:	One 35 x 300mm
Bottle Capacity:	Twenty 35 x 150mm Ten 35 x 300mm

HL-2000 HybriLinker™

HL-2000 HybriLinker™ Hybridization Oven combines an HB-1000 Hybridization oven and UV Crosslinker (254nm UV) in one unit. The Hybridization Oven and Crosslinker operate independently.

HL-2000 HybriLinker Hybridization oven and UV Crosslinker in one unit. The oven has the same features as the HB-1000.



Upper chamber - hybridization oven (same features as HB-1000 including):

- Variable speed control
- Large LCD display
- Stainless steel internal design

Lower chamber - UV crosslinker (see additional details p. 22):

- Shortwave 254nm, 8-watt, ultraviolet tubes
- Preset and manual controls for ultraviolet or time exposures
- Microprocessor measures and controls UV output, ensuring maximum energy efficiency
- Large LCD display continuously displays time or energy settings
- Window on the door allows viewing of the process yet blocks UV radiation

HL-2000 Dimensions: 17.5W x 24H x 15D in. (445 x 610 x 381mm)

Ordering Information

HL-2000 HybriLinker	95-0031-01 (115V)
Hybridization Oven/Crosslinker	95-0031-02 (230V)
Upper Chamber Oven:	
Heating Element:	1250 Watts
Rotary Wheel Variable Speed:	10 to 15 rpm
Bottle Included:	One 35 x 300mm
Bottle Capacity:	Twenty 35 x 150mm Ten 35 x 300mm
Lower Chamber Crosslinker:	
UV Light Source:	254nm UV

Temperature Settings: HB-1000 and HL-2000 Ovens

Temperature:	Ambient +10°C to 99.9°C	
Temperature Stability:	Inside Oven:	±0.3°C to 68°C
	Inside Bottles:	±0.1°C to 68°C
Temperature Uniformity:	Inside Oven:	±0.1°C to 68°C
	Inside Bottles:	±0.1°C to 68°C

See opposite page for **accessories** available with the HB-1000 and HL-2000 hybridization ovens.

HM-4000 Multidizer™

HM-4000 Multidizer Hybridization Oven is designed with two separate chambers offering several motion functions: shaking, orbital rocking and rotating all in one unit. Two chambers operate independently and allow hybridization and blotting procedures requiring different containers, motions or temperature settings.

Lower chamber:

- Variable speed control in lower chamber and other features are the same as the HB-1000
- Multiple bottle sizes and offset bottle positioning

Upper chamber:

- Uses a roller action to operate the shaker tray (included) or optional acrylic carousel or orbital tray
- Shaker tray is designed for placement of flasks or other containers

Ordering Information

HM-4000 Hybridizer	95-0340-01 (115V)
Hybridization Oven	95-0340-02 (230V)

Upper Chamber

Temperature Range:	Ambient +10°C to 80°C (stability/uniformity same as HB-1000)
Heating Element:	500 Watts
Shaker Tray Dimension:	10W x 6D in. (254 x 152mm)
Shaker Tray Speed:	54 - 106 cycles/min.
Carousel Rotation:	12 - 20 rpm

Lower Chamber

Temperature Range:	Ambient +10°C to 99.9°C (stability/uniformity same as HB-1000)
Heating Element:	1250 Watts
Rotary Wheel Variable Speed:	10 - 15 rpm
Bottle Capacity:	Twenty 35 x 150mm Ten 35 x 300mm
Bottle Included:	One 35 x 300mm with HM-4000

Orbital Motional Tray (optional) plugs into the hybridization oven for use with flasks and other vessels. External stand-alone tray available; contact UVP for ordering information.



HB-500 Minidizer™

The **HB-500 Minidizer Hybridization Oven** is designed as a personal desktop unit ideal for use in laboratories with low use and space requirements. LCD displays current temperature.



HB-500 Minidizer
Compact and portable, this unit is designed for low throughput use.

HB-500 Dimensions:

9H x 13W x 8D in.
(229 x 330 x 203mm)



HM-4000 Multidizer Two compartments operate independently with shake, rock, roll and rotate motions

HM-4000 Dimensions:

17.5W x 28.5H x 15D in. (445 x 725 x 381mm)

Hybridization Oven Accessories

Bottle, small, 35 x 150mm	07-0194-01
Bottle, large, 35 x 300mm	07-0194-02
Rocker Tray (HM-4000, HL-2000, HB-1000) 12.5W x 10D in. (318 x 254mm) Tray moves at 7 cycles/min and up to 14 cycles/min on the highest speed	98-0067-03
Orbital Tray (HM-4000, HL-2000, HB-1000) Dimensions: 10.3W x 8D in. (318 x 254mm) Motion: 30 rpm at 2° angle	98-0067-04
Carousel, Acrylic (HM-4000) Rests on rollers, rotate: 10 - 20 rpm Carousel holds up to eight 35 x 150mm; four 35 x 300mm bottles or eight 50ml conicals	76-0089-01
Carousel, Metal fits ten 50ml conicals, replaces rotary wheel (HB-1000, HL-2000, HM-4000)	76-0075-01
Carousel Kit for oversized bottles	76-0066-02

Ordering Information

HB-500 Minidizer	95-0330-01 (115V)
Hybridization Oven	95-0330-02 (230V)

Temperature Range:	Ambient +10°C to 80°C
Temperature Accuracy:	±0.5°C at 78°C
Temperature Uniformity:	±0.1°C at 68°C
Heating Element:	500 Watts
Speed:	12 rpm
Bottle Capacity:	Four 35 x 150 mm or Four 50 ml or Eight 15 ml

- Rotation speed set at 12 rpm
- Easy-clean stainless steel interior
- 3/8" thick β-blocking acrylic cover
- Cover swings open for easy access to the carousel