

HYBRIDIZATION OVENS

Hybridization ovens are rapidly 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. The range of models is designed to meet user or laboratory budgets.

Precision heated and multifunctional 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 laboratory workspace.

- Variable speed control (10 to 15 rpm) of the rotary wheel enables consistent saturation of samples
- Microprocessor accurately controls temperature
- Large LED displays the current temperature inside the chamber
- Protective tray is removable to allow easy cleanup of spilled media
- RPM knob adjusts speed control of the rotary wheel for easy removal of samples
- Rotary wheel can hold twenty 35 x 150mm, ten 35 x 300mm bottles or combination
- Rotary wheel design enables off-set bottle positioning for thorough mixing
- Rotary wheel can be removed and replaced with rocker plate (stainless steel 12.5W x 10D in.)

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

HL-2000 HybriLinker™

The **HL-2000** HybriLinker™ Hybridization Oven combines 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.

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

Upper chamber:

- Variable speed control
- Large LED display
- Stainless steel internal construction



Lower chamber (crosslinker - see additional details p. 23):

- 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 LED display continuously displays time or energy settings
- Window on the door allows viewing of the process yet blocks UV radiation

Ordering Information

HL-2000 HybriLinker Hybridization Oven/Crosslinker	95-0031-01 (115V) 95-0031-02 (230V)
Upper Chamber Oven: Temperature Range: Heating Element: Rotary Wheel Variable Speed: Bottle Capacity:	Ambient 10°C to 99.9°C 1250 Watts 10 to 15 rpm Twenty 35 x 150mm Ten 35 x 300mm
Lower Chamber Crosslinker: UV Light Source:	254nm UV
HB-1000 Hybridizer Hybridization Oven	95-0030-01 (115V) 95-0030-02 (230V)
Temperature Range: Heating Element: Rotary Wheel Variable Speed: Bottle Capacity:	Ambient 10°C to 99.9°C 1250 Watts 10 to 15 rpm Twenty 35 x 150mm Ten 35 x 300mm
Rocker Tray (for HL-2000, HB-1000, HM-4000)	98-0067-03

For additional hybridization oven accessories, refer to page 25.

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 (10 to 15 rpm) and other features are the same as the HB-1000
- Multiple bottle sizes and off-set bottle positioning

Upper chamber:

- Uses a roller action to operate the shaker tray (included) or optional acrylic carousel or orbital tray
- Shaker tray, for placement of flasks or other containers, operates at 54 - 106 cycles/min.
- Carousel (acrylic) rests on the rollers and rotates at 10 - 20 rpm; carousel holds up to eight 35 x 150mm or four 35 x 300mm bottles or eight 50ml conicals
- Orbital tray motion ranges from 1 - 30 rpm at 0°, 0.5°, or 1.0°

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
Heating Element:	500 Watts
Shaker Tray Speed:	54 - 106 cycles/min.
Orbital Tray, motorized:	1 - 30 rpm
Carousel:	12 - 20 rpm

Lower Chamber

Temperature Range:	Ambient 10°C to 99.9°C
Heating Element:	1250 Watts
Rotary Wheel Variable Speed:	10 - 15 rpm
Bottle Capacity:	Twenty 35 x 150 mm Ten 35 x 300 mm



HM-4000 Multidizer Two compartments operate independently and offer a variety of motion functions - shake, rock, roll and rotate!

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)	98-0067-03
Orbital Tray (HM-4000)	98-0067-04
Reciprocating Shaker Tray (HM-4000) 10W x 6D in. (254 x 152mm)	98-0067-02
Carousel, Acrylic (HM-4000)	76-0089-01
Carousel, Metal for ten 50ml conicals (replaces the rotary wheel in the HB-1000, HL-2000, HM-4000)	76-0075-01
Carousel Kit for 70 x 300mm bottles	76-0066-01

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.



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)

- Rotation speed set at 12 rpm
- Chamber interior is stainless steel fabrication with a 3/8" thick β -blocking acrylic cover
- Cover swings open for easy access to the bottle carousel; the carousel pops out of chamber for easy insertion of bottles

Ordering Information

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

Temperature Range:	Ambient to 80°C
Heating Element:	500 Watts
Speed:	12 rpm
Bottle Capacity:	Four 35 x 150 mm or Four 50 ml or Eight 15 ml