

# Hybridization Ovens

Versatile instruments for common hybridization applications



Life Science

## UVP Minidizer Hybridization Oven

The UVP Minidizer Hybridization Oven is a cost-effective device with low space requirements for temperature incubation of membranes during blotting procedures.

The UVP Minidizer operates with a state-of-the-art microprocessor as well as temperature and variable speed controls. The instrument enables consistent saturation of samples, whether it is used for washing or hybridizing.



### UVP Minidizer

Hybridization Oven

- Microprocessor controlled incubation temperature
- LCD display for easy operation
- Rotation speed set at 12 rpm
- Temperature range: Ambient +10 °C to 80 °C max.
- 3/8" thick acrylic door for easy viewing of samples and blocking of  $\beta$ -emission
- Easy to clean interior made of stainless steel
- Cover swings open for easy access to the bottle carousel; the carousel pops out of chamber for easy insertion of bottles
- Carousel capacity: 4 × 35 mm × 150 mm bottles, 8 × 50 ml tubes or 8 × 15 ml tubes

# Technical data

Temperature	
Min. Temperature	10 °C over RT
Max. Temperature	80 °C
Temperature Accuracy	± 0.5 °C to 68 °C
Temperature Uniformity	± 0.1 °C to 68 °C
Display	LCD
Sample Capacity	
Bottles (15 cm)	4
50 ml tubes	8
15 ml tubes	8
Dimensions	
Footprint (W × D)	33 × 20 cm
Height	23 cm
Weight	5.1 kg
Rotation Speed	
Carousel	12 upm
Electrical	
115 V	60 Hz
230 V	50 Hz
100 V	50 Hz
Additional Specifications	
Working conditions	5 °C to 40 °C, max. 2,000 m
Indoor Use	The oven is designed for operation inside a building only
Main supply	Not to exceed 10% of the nominal supply voltage
Maximum power consumption	500 Watts

## UVP Hybridizer Hybridization Oven

The UVP Hybridizer Hybridization Oven provides uniform temperature and rotation controls for thorough mixing of materials.

Oven is ideal for Southern, Northern, and Western blots, in situ hybridization and binding nucleic acids to nitrocellulose or nylon-reinforced transfer membranes or other media. Precise microprocessor rotation speed and variable speed control settings enable consistent sample saturation. A touch-sensitive key pad allows for precise temperature control and an internal circulating fan maintains temperature uniformity. A large LED display shows the current chamber temperature. Internal stainless steel construction enables the environment to be kept clean.

The oven accommodates multiple bottle sizes, arrangements, and positions to meet a variety of mixing requirements. The rotary wheel holds twenty 35 x 150 mm bottles or 35 x 100 mm bottles, ten 35 x 300 mm bottles, or a combination of the various sizes. The rotary wheel can be removed and replaced with a rocker tray or rocker plate to create a rocking motion and to accommodate various types of flasks. The removable protective trays allow for easy cleanup of spilled media.

- Carousel for multiple bottle sizes and off-set bottle positioning
- Variable rotor speed 10 – 15 rpm
- Microprocessor controlled incubation temperature
- LED display for easy operation
- Temperature range: Ambient +10 °C to 99.9 °C maximum
- Easy to clean interior made of stainless steel
- Removable protective tray to allow easy cleanup of spilled media
- Glass door for easy viewing of samples and blocking of  $\beta$ -emission from the hybridization chamber
- Orbital motion tray or rocker tray as optional accessory available
- Carousel capacity: 20 x 35 mm x 150 mm bottles or 10 x 35 mm x 300 mm bottles



## UVP Hybridizer

Hybridization Oven

## UVP Hybrilinker Hybridization Oven

Self-contained unit provides the unique combination of a hybridization oven and a 254 nm ultraviolet crosslinker.

The hybridization unit shares the same features with the UVP Hybridizer and is meant to be used for common blotting procedures.

The ultraviolet crosslinker portion of the UVP Hybrilinker provides uniform shortwave (254 nm) ultraviolet radiation

exposure maintained by five 254 nm UV tubes. UV output is measured by an internal sensor and is controlled by an on-board microprocessor. The crosslinker features an internal interlocking system for added safety. The hybridization oven and crosslinker components have separate power supplies and may operate independently.

### Upper chamber (Oven):

- The upper chamber is the hybridization unit and has the same features as the UVP Hybridizer

### Lower chamber (Crosslinker):

- Shortwave 254 nm, 8 Watt, UV-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
- Orbital motion tray or rocker tray as optional accessory available
- Carousel capacity:
  - 20 × 35 mm × 150 mm bottles or
  - 10 × 35 mm × 300 mm bottles



**UVP Hybrilinker**  
Hybridization Oven

## UVP Multidizer Hybridization Oven

The UVP Multidizer 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.

The upper chamber can be used with a reciprocating shaker tray, an orbital rocker tray, or an acrylic carousel. The lower chamber shares the same features with the UVP Hybridizer.



## UVP Multidizer

Hybridization Oven

### Lower chamber (Oven):

- The lower chamber has the same features as the UVP Hybridizer

### Upper chamber (Oven):

- Uses a roller action to operate the shaker tray (included) or optional acrylic carousel or orbital tray
- Shaker tray, for replacement 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 eight 35 × 150 mm or four 35 × 300 mm bottles or eight 50 ml conicals
- Orbital tray motion ranges from 1–30 rpm at 0°, 0.5° or 1.0°
- Temperature range: Ambient +10 °C to 80 °C maximum

# Technical data

Oven	UVP Hybridizer	UVP Hybrilinker	UVP Multidizer	
Number of Hybridization chambers	1	1 plus Crosslinker	2	
<b>Temperature</b>			<b>Lower Chamber</b>	<b>Upper Chamber</b>
Min. Temperature	10 °C over RT	10 °C over RT	10 °C over RT	10 °C over RT
Max. Temperature	99.9 °C	99.9 °C	99.9 °C	80 °C
Temperature Accuracy	± 0.3 °C to 68 °C	± 0.3 °C to 68 °C	± 0.3 °C to 68 °C	± 0.3 °C to 68 °C
Temperature Uniformity	± 0.1 °C to 68 °C	± 0.1 °C to 68 °C	± 0.1 °C to 68 °C	± 0.1 °C to 68 °C
Display	LED	LED	LED	LED
<b>Rotation Speed</b>				
Rotor Speed	10–15 upm	10–15 upm	10–15 upm	12–20 upm
<b>Sample Capacity</b>				
Bottles (30 cm)	10	10	10	4
Bottles (15 cm)	20	20	20	8
<b>Reciprocating Shaker</b>				
Shaker tray	–	–	–	YES
Shaking speed	–	–	–	54–106 upm
<b>Crosslinker</b>				
UV-Crosslinker	–	YES, 5 × 8 W 254 nm bulbs	–	–
Max. UV energy setting	–	999,900 microjoules per cm <sup>2</sup>	–	–
Preset or user-selected UV time exposure settings	–	Internal interlocking safety system	–	–
Display	–	Tactile membrane keypad	–	–
<b>Dimensions</b>				
Footprint (W x D)	40 cm × 38 cm	40 cm × 38 cm	45 cm × 38 cm	45 cm × 38 cm
Height	45 cm	61 cm	72 cm	72 cm
Weight	19.5 kg	27.2 kg	34.0 kg	34.0 kg
Interior hybridization chamber	35.6 × 27.3 × 27.3 cm	35.6 × 27.3 × 27.3 cm	35.6 × 27.3 × 27.3 cm	35.6 × 27.3 × 27.3 cm
Interior Crosslinker	–	28.8 × 9.5 × 29.2 cm	–	–
<b>Electrical</b>				
	115 V, 60 Hz	115 V, 60 Hz	115 V, 60 Hz	115 V, 60 Hz
	230 V, 50 Hz	230 V, 50 Hz	230 V, 50 Hz	230 V, 50 Hz
	100 V, 50 Hz	100 V, 50 Hz	100 V, 50 Hz	100 V, 50 Hz
<b>Heating element</b>				
	1.250 W	1.250 W	1.250 W	500 W
<b>Additional Specifications</b>				
Working conditions	5 °C to 40 °C, max. 2,000 m	5 °C to 40 °C, max. 2,000 m	5 °C to 40 °C, max. 2,000 m	5 °C to 40 °C, max. 2,000 m
Usage	The oven is designed for operation inside a building only			
Main supply	Not to exceed 10 % of the nominal supply voltage			
Maximum power consumption	1,210 W	1,150 W	950 W	950 W
<b>Orbital motion tray</b>				
Rotation speed	30 upm @ 2° corner	30 upm @ 2° corner	30 upm @ 2° corner	30 upm @ 2° corner
Maxium load	1.36 kg	1.36 kg	1.36 kg	1.36 kg
<b>Rocker tray</b>				
Shaking speed	7–14 upm	7–14 upm	7–14 upm	7–14 upm
Shaking angle	12°	12°	12°	12°
<b>Second Rotisserie</b>				
	–	–	YES	YES

# Order information

## Hybridization Ovens

Order number	Instrument
<b>UVP Minidizer Hybridization Oven</b>	
849-30004-2	Minidizer Hybridization Oven, 230 V (UK plug and Euro)
849-30004-3	Minidizer Hybridization Oven, 230 V (UK plug)
849-30004-4	Minidizer Hybridization Oven, 115 V (US plug)
849-30004-5	Minidizer Hybridization Oven, 100 V (US plug)
<b>UVP Hybridizer Hybridization Ovens</b>	
849-30001-2	Hybridizer Hybridization Oven, 230 V, UK and Euro plug
849-30001-3	Hybridizer Hybridization Oven 230 V, Euro plug
849-30001-4	Hybridizer Hybridization Oven 115 V, US plug
849-30001-5	Hybridizer Hybridization Oven 100 V, US plug
<b>UVP Hybrilinker Hybridization Ovens</b>	
849-30002-2	Hybrilinker Hybridization Oven 230 V, UK and Euro plug
849-30002-3	Hybrilinker Hybridization Oven 230 V, Euro plug
849-30002-4	Hybrilinker Hybridization Oven 115 V, US plug
849-30002-5	Hybrilinker Hybridization Oven 100 V, US plug
<b>UVP Multidizer Hybridization Ovens</b>	
849-30003-2	Multidizer Hybridization Oven 230 V, UK and Euro plug
849-30003-3	Multidizer Hybridization Oven 230 V, Euro plug
849-30003-4	Multidizer Hybridization Oven 115 V, US plug
849-30003-5	Multidizer Hybridization Oven 100 V, US plug

## Accessories for Ovens

Order number	Accessories
849-30080-0	Large hybridization bottle, 30 × 3.5 cm incl. lid, O-ring and PTFE seal
849-30081-0	Medium hybridization bottle, 15 × 3.5 cm incl. lid, O-ring and PTFE seal
849-30082-0	Small hybridization bottle, 10 × 3.5 cm incl. lid, O-ring and PTFE seal
849-30083-0	Lid for hybridization bottles incl. O-ring and PTFE seal
849-30084-0	Nylon nets 15 × 10 cm
849-30085-0	Nylon nets 23 × 23 cm
849-30058-0	Carousel for four oversized bottles (for Hybridizer, Hybrilinker, and Multidizer Ovens)
849-30059-0	Carousel, Metal for 10 × 50 ml conical vessels (for Hybridizer, Hybrilinker, and Multidizer Ovens)
849-30057-0	Carousel, Acrylic (for Multidizer Oven)
849-30050-0	Rocker tray (for Hybridizer, Hybrilinker & Multidizer)
849-30051-0	Orbital shaker (for Hybridizer, Hybrilinker & Multidizer)

## Accessories for Crosslinkers

Order number	Accessories
849-30220-0	UV tube, 365 nm Longwave
849-30221-0	UV tube, 302 nm Midrange
849-30222-0	UV tube, 254 nm Shortwave
849-00014-0	Sensor, UVX-36 Longwave
849-00013-0	Sensor, UVX-31 Midrange
849-00012-0	Sensor, UVX-25 Shortwave





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The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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