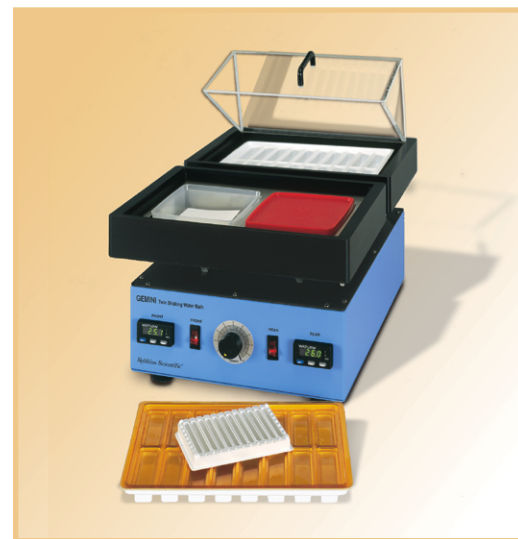


Gemini® Twin Shaking Waterbath

Dual low profile chambers with independent temperature control

Unlike conventional waterbaths, the Gemini Twin Shaking Waterbath is composed of two low profile independently heated chambers. Removable adapters designed for specific containers are placed in the chambers to hold vessels firmly in place during agitation. With a chamber depth of only two inches, the Gemini waterbath allows the operator unimpeded access to containers with hand-held pipettors



The Gemini waterbath's low profile design allows convenient access to incubation containers for adding or removing reagents.

The **Gemini Twin Shaking Waterbath** is composed of two identical, 13.3" x 2.3" x 9.5" chambers mounted on a single platform. The temperature of each chamber is independently regulated with a dedicated digital controller. The desired temperature (ambient +5°C to 99°C) is selected on the digital display with actual temperature continuously displayed during operation. An integral countdown timer makes an audible signal useful for timed incubations. Precise temperature regulation of $\pm 0.2^\circ\text{C}$ is achieved through a finely designed system of controller, quick response, low mass resistance heaters and a sensitive temperature probe.

Gentle to Vigorous Agitation

Ideal for a range of applications that require varying degrees of agitation, the versatile Gemini waterbath can be regulated from gentle movement for blot processing to vigorous agitation needed for tissue digestions. The two chambers are mounted on a single platform which moves smoothly in a front to back motion variable from 10 to 160 strokes per minute.

Clear Acrylic Cover for Visual Monitoring of Samples

Ever find yourself "checking" waterbath samples by removing the cover and disturbing the temperature? The Gemini waterbath is designed with a lightweight, clear acrylic cover that allows samples to be visually monitored during incubations. Plus, the unique, "inverted V" shape delivers condensate to the sides of the chamber away from samples, preventing inadvertent sample contamination.

Removable Chamber Adapters for Dot Blots, Microplates and Membrane Strip Trays

One of the design features of the Gemini waterbath is the use of removable stainless steel adapters designed for specific types of plates, trays, etc. The adapter holds the vessel stationary in the chamber eliminating clumsy weights normally used with conventional waterbaths.

A range of adapters are available for commonly used containers such as standard microplates, Tupperware® boxes used for blot processing and trays for membrane strips used in the Roche AmpliType™ and other DNA typing systems.

Remarkably Fast Heat-up and Temperature Recovery

Each chamber of the Gemini waterbath is heated with a 350 watt, resistance heater to provide exceedingly rapid and uniform heating. Operating temperature can be attained in under 25 minutes from room temperature, far less than conventional waterbaths. Temperature recovery time when changing reagents is also dramatically reduced. After removing the cover for 3 minutes, as little as 20 seconds is required to re-establish set temperature.



A wide range of adapters is available for frequently used incubation containers.

Small, Lightweight and Easy to Clean

The Gemini waterbath was designed for the normally crowded laboratory with limited bench space. With a footprint of only 13"x20" and weighing less than 32 lbs., it is easily transportable and takes up a fraction of the space of a conventional waterbath. The chambers are also designed for easy cleaning. By simply unscrewing four thumbscrews and disconnecting the sensor, the operator can easily remove each chamber to a sink for cleaning.

Easy Calibration with Digital or Mercury Thermometers

In many forensic and clinical DNA diagnostic assays, routine temperature calibration of waterbaths is a necessity. The Gemini waterbath provides two convenient means of calibration. An NIST, partial emersion thermometer can be inserted through a specially designed port on the side of each chamber. Or, simply connect an NIST electronic, digital thermometer (available as an accessory) using the special receptacle provided on the unit.

Gemini Twin Shaking Waterbath

Specifications

Dimensions	Base: 13.3" x 20.0" x 9.0" (33.8x50.8x22.9cm) Chamber Exterior: 13.0" x 9.8" x 2.6" (33.0x24.8x6.7 cm) Chamber Interior: 11.5" x 8.3" x 2.2" (29.2x21.0x5.6 cm)
Chamber Volume (approx.)	1.2L
Weight	32 lbs. (14.5 kg)
Temperature Range	Ambient and ambient +5°C to 99°C
Temperature Regulation	±0.2°C
Capacity	1-4 containers or trays per chamber depending upon container dimensions
Agitation	Reciprocating motion, ½ inch stroke Variable from 10-160 strokes per minute

Ordering Information

Gemini Twin Shaking Waterbath		
Part No.	Description	Unit
1051-20-1	Gemini Twin Shaking Waterbath, 115V	Each
1051-20-2	Gemini Twin Shaking Waterbath, 230V	
<i>Base unit provided with two acrylic chamber covers and power cord. Chamber adapters are ordered separately from list below.</i>		
1051-30-0	Adapter for one Perkin-Elmer AmpliType™ DNA typing tray, 8 well format. Perkin-Elmer part no. N808-0065 Tray dimensions, 8.45" x 6.25" x 1.00"	Each
1051-31-0	Adapter for two Perkin-Elmer QuantiBlot™ hybridization trays. Perkin-Elmer part no. N808-0136. Tray dimensions, 4.90" x 3.6" x 1.45"	Each
1051-32-0	Adapter for one Roche Molecular Systems AMPLICOR™ typing tray, 20 well format. Roche part no. 0758159 (foreign); 83282 (U.S.). Tray dimensions, 10.10" x 7.60" x 1.00"	Each
1051-33-0	Adapter for two Life Technologies Inc. Hybriboat™ containers. Container dimensions, 5.20" x " x 1.45"	Each
1051-34-0	Adapter for three Innogenetics INNO-LiPA™ 8 trough/trays. Tray dimensions, 4.90" x 3.38" x 0.50"	Each
1051-35-0	Adapter for four Innogenetics INNO-LIPA 12 trough/trays. Tray dimensions, 4.90" x 3.38" x 0.50"	Each
1051-36-0	Adapter for two Tupperware® containers with covers. Dish dimensions: 5.15" x 4.80" x 1.50"	Each
1051-37-0	Adapter for four standard microplates. Plate dimensions, 4.90" x 3.22" x 0.60"	Each
1951-38-0	Adapter for one Roche Diagnostics 24-well tray with lid for the determination of Cystic Fibrosis. Roche P/No. 3-140-725	Each
1051-50-0	Stainless steel chamber cover. Provides flat, non-skid surface for performing ambient incubations	Each
1051-51-0	Tupperware® containers with covers. Container dimensions, 5.15" x 4.80" x 1.50"	2/Pack
1051-53-0	Glass slide holder for Tupperware containers, holds 20 slides	Each
1051-52-0	Handheld electronic digital thermometer with Type T thermocoupler—includes NIST traceable certificate of calibration and interface cable	Each

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