











A DAY IN THE LIFE

of the ultimate water bath

8 AM-9 AM	9:15 AM-10:15 AM	10:30 AM-12 PM	1:30 PM-3:30 PM	4 PM-NEXT DAY
Cool and maintain melted agar at 50°C prior to adding ampicillin and/or pouring plates.	Place bath on Belly Dancer shaker for high stringency filter wash at 60°C for 20 minutes.	Pour out hot water, replace with cool water. Restriction enzyme digest at 37°C.	Protein quantitative assay at 55°C.	Place bath on Belly Dancer shaker for overnight hybridization at 42°C.
				
				

Light Weight ▪ Quick Heating ▪ Versatile and Easy to Use



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The Stovall Shaking Water Bath

THREE INSTRUMENTS IN ONE:

Shaking water bath, constant temperature bath, Belly Dancer Shaker.

Used together or separately.

The features—light weight and quick heating—originally designed into the Stovall water baths to facilitate nucleic acid hybridizations have made these baths easy to use and quite versatile for the molecular biologist's laboratory.

Use in combination with the Belly Dancer's® well known, gently undulating motion, the bath provides the ideal instrument for:

- Northern and Southern filter blot hybridizations.
- Filter washes and high stringency filter washes. Simultaneous washing of multiple filters.
- In-situ hybridizations and washes.
- Electrophoretic gel manipulation.
- Acceleration of protein gel destaining.
- Hot staining protocols and recombinant DNA technology.

And because of these same features the baths are well suited for numerous, common protocols not requiring agitation.

- Heat inactivation of serums.
- Restriction enzyme digests.
- Lowry and other protein quantitative assays.
- DNA sequencing applications using sequenase or taq polymerases.



The combination Belly Dancer/Hybridization Water Bath unit consists of the bath along with a Belly Dancer modified to contain the temperature controls within the case.

115V 220V
Cat.# CMBAA115S Cat.# CMBAA220S

A non-dedicated instrument for greater versatility and lab efficiency

Unlike large and expensive environmental chambers and shaking water baths which are dedicated to specific uses, the Belly Dancer/Hybridization Water Bath is a non-dedicated instrument designed to be highly versatile. The bath can be moved around, used with the shaker or independently of it.

By removing the light weight water bath from the combined instrument (the Belly Dancer/Hybridization Water Bath) the Belly Dancer can be used in its ordinary excellence for the multiple non-temperature sensitive stainings, washings and probes involved in gel and blotting techniques.

The Hybridization Water Bath with remote control was designed to extend the versatility of the present Belly Dancers or to transform a bench top rocker or reciprocating shaker into a temperature controlled, shaking water bath.



The unique motion of a Belly Dancer produces this unexpected efficiency: separation and thorough washing of multiple filters in a single container.

FEATURES/BENEFITS

- Light weight for mobility and use on the shaker.
- Quick heating, 3°C rise per minute.
- PID microprocessor heat control. Excellent temperature control and stability: +/- .1°C.
- Simple field calibration when necessary.
- Gentle agitation when used in conjunction with the Belly Dancer shaker.
- Safety thermostat to prevent thermal runaway.
- Quick attach/detach power/data cable assembly.

SPECIFICATIONS

Overall dimensions of bath: 12 1/4" x 12 1/4" x 4" h plus lid
Stainless steel chamber dimensions: 10 3/8" x 10 3/8" x 3 1/4" depth

Weight: 7.5 lbs. with lid, no water

Temperature range: 30°C to 75°C

Temperature ramp up speed: approx. 3°C per minute

Stability of water temperature maintenance at set point: +/- .2°C

Electrical: 115v ac 50/60hz, 6/26 amp sloblo fuse or
220v ac 50/60hz, 4.25 amp sloblo fuse

Belly Dancer/Water Bath

115 volt: CAT.# CMBAA115S
220 volt: CAT.# CMBAA220V CE

Simplicity/Safety/Precise Temperature Control

The combined and the remote control water bath units are designed with utter simplicity of instrumentation and ease of use in mind: an on/off, illuminated switch, a PID microprocessor control with set point control pads and display and actual water temperature display.

For safety, the bath is equipped with a thermal runaway thermostat switch which operates independently from the main temperature controller. This automatic reset limit switch shuts power off if the pan temperature exceeds 80°C, thus preventing system burnout should all water evaporate from the pan and cause a thermal runaway condition.

Also for safety, the 3/16" thick PETG gabled bath lid, which effectively prevents evaporation, will shield .809 MEV of beta radiation, or 43% over the average ME beta radiation of P32.

The high bake ester finish protects the aluminum cases from oxidation and allows easy maintenance. The stainless steel pan is constructed with smooth corner radii for easy, efficient cleaning. And the complete isolation of the water bath from the mechanical works of the shaker motor, and temperature and motor controls assures greater ease of decontamination when radioactive spills occur.

The PID microprocessor heat controller for the bath will maintain actual water temperature within +/- .2°C at all temperatures between 35°C and 72°C. There is no variation of temperature within the bath when agitation is present. The temperature ramp up speed is approximately 3°C per minute.