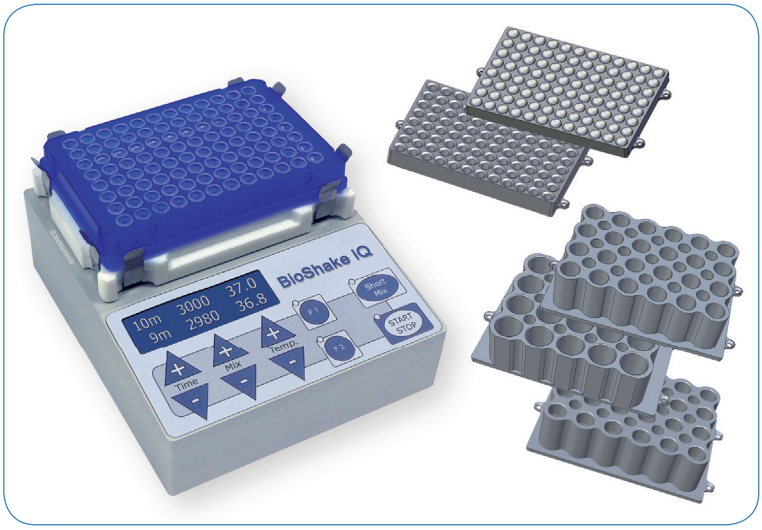
BioShake iQ

High speed thermoshaker for multiple applications

For MICROPLATES, TUBES and GLASS VIALS

HIGHLIGHTS

- Thermoshaker for microplates, tubes, and glass vials
- Fast shaking and mixing up to 3,000 rpm
- Fast and high-precision heating from ambient to 99°C
- 3D-Shake-Control: efficient and very fast controlled orbital mixing movements, eliminating any need for centrifugation after mixing
- Anti-Spill Technology: Perfectly controlled 3-dimensional mixing prevents spilling and lid wetting
- Highly accurate processing and Anti-Vibration Technology eliminate vibrations for a relaxed working environment
- Reproducible results by defined process parameters
- 2 programmable soft keys
- Integrated vortex and short mix functions
- Very small, light, efficient and quiet



INTRODUCTION

The ultra-flat micro thermoshaker with patented 3D-Shake-Control and Anti-Vibration technology supports accurate and efficient mixing and temperature control on the microliter scale of a wide range of SBS-sized 96-, 384-, and 1536-well microplates, tubes, and glass vials.

Heatable up to 99°C
Smallest Housing
CONSTANT mixing orbit
Vibration-FREE
3,000 rpm

The vibration-free shaking movements are remote controlled from 200 to 3,000 rpm.

A large surface of specialized heating element results in an even heat output at temperatures between ambient and 99°C.

By combining the mixing operation with the incubation phase, reaction process times and operator workload are reduced and efficiency of many procedures is increased, resulting in a higher throughput.

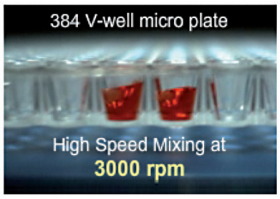
Exchangeable heating adapter modules for special kinds of tubes, vials, and microplates with different bottom geometries ensure effective heat transfer and the flexibility to adapt to your particular application.

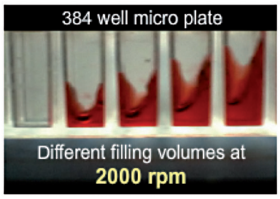
The variable mixing speed up to 3,000 rpm combined with the soft start function allows gentle to vigorous mixing.

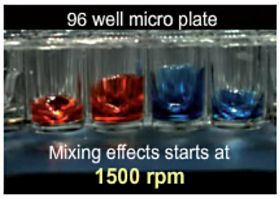
Shaking and temperature control can be configured for continuous or timed operation with buzzer and automatic switch-off.

The high speed thermoshaker BioShake iQ is designed for easy operation. Mixing speed, temperature and time are indicated on the double spaced display for both set and actual values.

Temperatures are selectable from ambient temperature to 99°C in steps of 0.1°C. The temperature regulation accuracy is better than ±0.1°C with a uniformity of temperature distribution better than ±1.0°C at 95°C across the heating surface.







The selection of the optimal frequency for mixing of microplates should always depending on the size of the wells and the volume per well. In this way optimum results can be achieved with a minimum of process time and losses of samples.

TECHNICAL SPECIFICATIONS

Adapter Plates	
Microplates	96-, 384-, and 1536-well microplates / deep well plates / PCR plates
Tubes	0.2 / 0.5 / 1.5 and 2.0 ml standard tubes
Glass vials	2.0 and 4.0 ml glass vials
Temperature	
Temperature regulation range	ambient to 99°C
Temperature setting	0.1°C increment / adjustable from 0°C to 99°C
Temperature regulation accuracy	±0.1°C
Temperature accuracy	±0.5°C at 45°C / ±0.7°C at 75°C / ±1.0°C at 95°C
Heat-up time	ca. 7°C/min / ca. 10 min from ambient to 95°C
Mixing	
Mixing frequency	200 to 3,000 rpm (microplates) / 200 to 1,800 rpm (tubes, glass vials)
Mixing orbit	constant 2 mm
Speed setting resolution	50 rpm increments
Mixing regulation accuracy	± 25 rpm
Short-Mix function	Yes
Timer	
Timer setting	1 min - 99 h / with automatic switch to stand-by
Timer setting resolution | Readability	1 min | Minutes, Seconds
Continuous working | Audible Alarm	Yes | Yes
Programming	
Programs stored | Definable buttons	2 | P1 and P2
Individual program capacity | Internal memory	3 steps | Yes
Display	
Display	2 x 16 digits LCD-display with backlight (blue)
Target values / Actual values	Time, Mixing frequency, Temperature
Electrical	
Controller	Micro controller
Power switch	Yes
Operating Voltages	24 V DC input / 100 Watt
Power supply	External power supply unit / 100-240 V AC, 50-60 Hz
Properties	
Housing Material	Aluminum anodized
Environment operating range	+5°C to 45°C (80 % max. relative humidity)
Dimensions (W x D x H)	142 mm x 170 mm x 80 mm (5.59 in x 6.69 in x 3.14 inches)
Weight	2.7 kg (5.95 lbs)

ORDERING INFORMATION

Made in Germany

Cat. No.	Description
1808-0506	BioShake iQ

Cat. No.	Description
1808-1021	Microplate adapter - Flat bottom
1808-1031	Microplate adapter - 96 well round bottom, universal
1808-1041	Microplate adapter - 96 well standard PCR plate, universal
1808-1051	Microplate adapter - 384 well standard PCR plate, universal
1808-1061	Adapter - 24 x 2.0 ml or 15 x 0.5 ml tubes
1808-1062	Adapter - 24 x 1.5 ml or 15 x 0.5 ml tubes
1808-1063	Adapter - 40 x 0.5 ml or 28 x 0.2 ml tubes
1808-1064	Adapter - 96 x 0.2 ml tubes
1808-1071	Adapter - 24 x 2.0 ml glass vials
1808-1072	Adapter - 20 x 4.0 ml glass vials
	*customized adapters are available on request

QUANTIFOIL Instruments GmbH
Loebstedter Strasse 101 . 07749 Jena . Germany
tel +49.3641.87612.0 . fax +49.3641.87612.99
info@QInstruments.com