

**Biozym**  
SCIENCE IS OUR BUSINESS

# ThermoQ

## Dry Bath



**BIOER  
TECHNOLOGY**

# ThermoQ Dry Bath

Fast ramping rate

+ Creative



## Powerful hardware and excellent performance

- Pressure hot-lid design to avoid evaporation when running.
- For the buckle design, heating section can be one-step disassembled easily.
- User-defined hot-lid on-off state: the user can connect set hot-lid state through connecting to computer. The system can auto save status.
- Hot-lid temperature changes according to block temperature, it will be  $\geq$ block Temp.+10°C. When block temp.  $\leq$ 15°C, hot-lid will be auto shut-off.
- Applied for LAMP, PCA, NASBA, RPA, sample preservation, enzyme reaction, nucleic acid and protein denaturation processing, electrophoresis preliminary degeneration and blood serum solidification, etc.
- Five optional blocks, can be changed through easy disassembled tools.
- Metal block avoids block pollution effectively, anti-scalding protection design: hot metal won't be reached in experiment, which enhances experiment safety.
- With the top TE, at least 50000 hours abbr.MTBF.
- For heating & cooling model, heating time from RT. to 100°C  $\leq$ 8mins and cooling time is also very short, less than 8mins(100°C~4°C).
- Internal over temp. Protection device(include block & hot-lid): when over temperature, the heating will be stopped directly, which ensures safe experiment absolutely.
- Two keys for quick setting, it needs only one minute to learn how to use the instrument.
- Two temperature controller for your choice(Heating model, Heating&cooling model). Both of them can be applied to HB and CHB, but the single heating temperature controller only controls heating model, even in CHB main body.
- 24V DC Input Power, suitable for vehicle power supply to keep reagent preservation during long-distance transportation.
- Connect with computer USB port by USB B port. With software control, multi-segment programs setting and more powerful functions.



• USB B port

• The buckle design

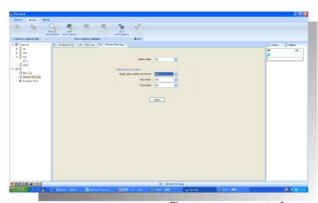
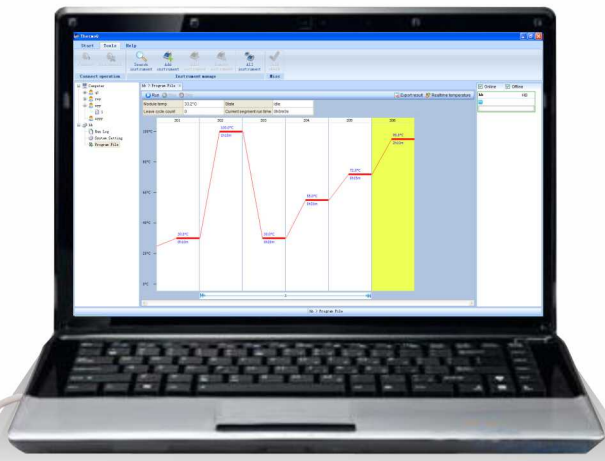


**Biozym**  
SCIENCE IS OUR BUSINESS

[www.bioer.com.cn](http://www.bioer.com.cn)

**+** Updated hardware

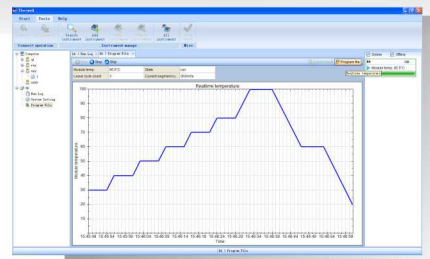
software 



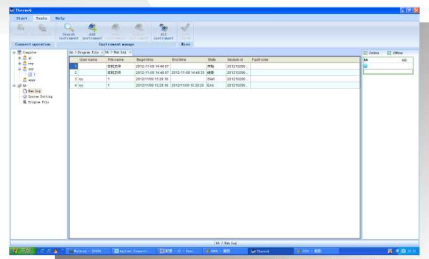
System setting



Hot plug



Real-time temp. Monitoring



Running diary



**Creative software**

- PC software controls instrument running. One computer controls more than one unit.
- Edit function: multipoint temperature time range settings. With new cycle settings, program settings imitate PCR programs, which greatly increase applicability.
- Inspect and monitor during running and can print the whole report after experiment.
- Hot plug: if pull out the connecting wire during running, the running won't stopped. The computers are not occupied during the experiment.
- The computer software records instrument running diary in real time.
- The program auto-memory function: The instrument will auto save the last setting, which can be repeatedly used next time.

• One PC for several instruments

• Anti-scalding protection design



## Technical Parameters

Main body	HB-T1(No hot-lid)	HB-T2(Hot-lid)	CHB-T1(No hot-lid)	CHB-T2(Hot-lid)
Block	A: 20×0.5+15×1.5ml; B: 35×1.5ml; C: 54×0.5ml; D: 96×0.2ml; E: 35×2ml;			
Temp. Range	RT.+5°C~100°C		0°C~100°C	
Temp. Display Resolution	0.1°C			
Heating Time	≤10min(RT.~100°C)		≤8min (RT.~100°C)	
Cooling Time	/		≤8min(100°C~4°C)	
Temp. Uniformity	≤±0.5°C			
Temp.Control Accuracy	≤±0.2°C			
Temp. Fluctuation	≤±0.1°C			
Timing Range	0~99h59min or ∞			
Program Segment Setting Function	Yes			
Cycle Setting Function	Yes			
Program Auto-memory Function	Yes			
QC Report Print Function	Yes			
Max. Segments	9			
Max.Cycles	99			
Hot-lid Operating Temp.	≥Block Temp.+10°C; when block temp.≤15°C, hot-lid won't work			
Hot-lid Heating time	Hot-lid heating rate is faster than block, heating time from RT. to 110°C ≤10min			
Power Supply	AC 100~240V 50~60Hz 90W (by power adapter)		AC 100~240V 50~60Hz 120W (by power adapter)	
Communication Interface	USB B Port			
Operating State Display	Three-color LED display (Red: Heating state, Yellow: Temp. Constant state, Green: Cooling state)			
Temp. Display	Triple LED display			
Alarm	Sensor abnormal alarm, red operating state lamp flickers; Fault alarm if hot-lid won't work			
Over Temp. Protection	Over temp. Protection≤120±5°C (include block & hot-lid)			
Dimension	150×170×145mm (L×W×H)			
Net	≤1.8kg		≤2.0kg	
Certificate	CE, MET; PICC			

\*Hot-lid parameters are only for instrument with hot-lid heating section.  
Parameters are tested in standard environment.

## Order information

Order information	Heating Black	Cooling & Heating Block
Main body	No hot-lid	CHB-T1
	Hot-lid	CHB-T2
Block	20×0.5ml+15×1.5ml	CHB-A
	35×1.5ml	CHB-B
	54×0.5ml	CHB-C
	96×0.2ml	CHB-D
	35×2ml	CHB-E
Optional	Temperature controller	CHB-BA
	Hot-lid heating section	HLD

**Biozym**  
SCIENCE IS OUR BUSINESS

Q: { } A: { }  
V: { } J: { } F: { } G: { } E: { } K: { } L: { } M: { } N: { } O: { } P: { } R: { } S: { } T: { } U: { } V: { } W: { } X: { } Y: { } Z: { }  
E: { } F: { } G: { } H: { } I: { } J: { } K: { } L: { } M: { } N: { } O: { } P: { } R: { } S: { } T: { } U: { } V: { } W: { } X: { } Y: { } Z: { }

✉ Address: 1192 Bin An Rd, Hi-tech(Binjiang)District, Hangzhou, 310053, P.R. China  
 📠 Fax: +86-571-87772210/87774553  
 ☎ Phone: +86-571-87774567(Main Line) Direct Phone: +86-571-87774575(Overseas Dept.)  
 🌐 Website: <http://www.bioer.com.cn>  
 @ Email: [overseas@bioer.com.cn](mailto:overseas@bioer.com.cn)