QB Dry Block Heaters

The dry block heating systems combines digital temperature control for precision, and uniformity. Designed for flexibility and efficiency the block heaters come with a choice of standard and custom blocks. The versatile dry block heater series are ideal for general sample heating, research or chemistry applications.

Accurate, reproducible, rapid and safe heating of your samples – advanced temperature control combined with high quality, precision-engineered blocks provide superior thermal contact

Versatile range of interchangeable heating blocks to fit any sample tube or plate – from our standard range of blocks, or custom-made blocks to suit your application

Full range of models and options – for standard through to more sophisticated applications

3 year warranty

Built in Britain



QBD1



QBD2



QBD4



QBH2

Applications

• Life-science/cancer research – DNA extraction incubations, DNA denaturation, PCR, ELISA and Western blotting, molecular biology

• General – heating samples

QBD2
QB Dry Block Heaters

A versatile, general purpose system with up to four interchangeable blocks for maximum flexibility. Combines superior temperature control and uniformity for precision. High quality design that offers excellent reliability, accuracy and durability.

Wide range of interchangeable blocks – extraction tool supplied as standard for easy and safe removal blocks.



Double size blocks for 0.2ml microplates, strips or individual tubes.



Range of convenient features including alarms, single and dual point calibration, programmed start/stop, 'offset' for known sample temperature variation and choice of external or internal probes.

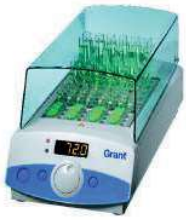
Simple to use dial plus two keys for fast, accurate set-up.

Compact footprint and sloping fascia optimises benchspace and ensures a clear visibility of digital display.

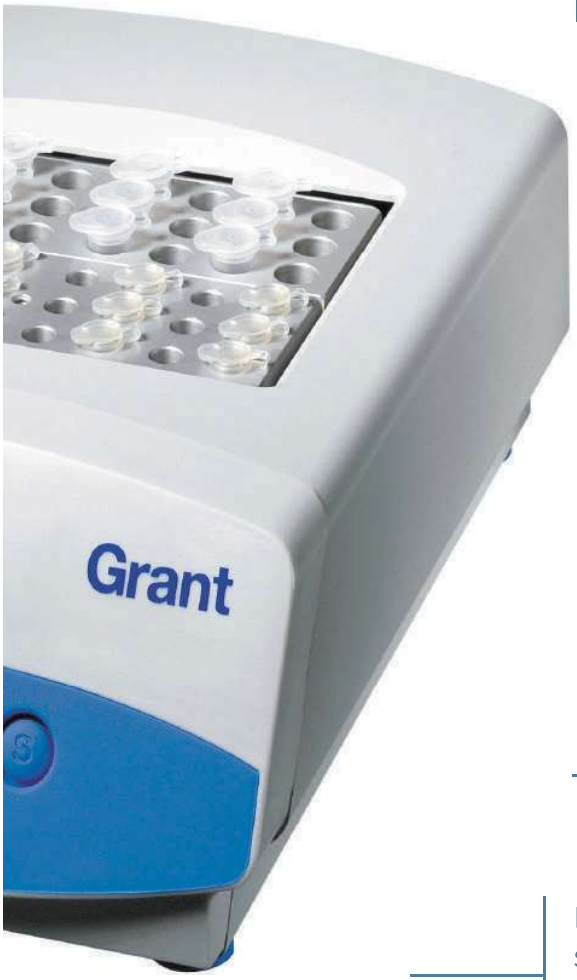


Product highlights

- Temperature range ambient +5°C to 130°C, with rapid heat-up time
- Stability: ±0.1°C
- Uniformity: ±0.1°C
- Digital temperature control for optimal precision
- External probe available for accurate in-sample or in-block temperature control
- Includes block removal tool
- Custom blocks available on request



Optional safety cover – protects samples from contamination and users from accidental contact with hot blocks.



Over-temperature cut-out protects your samples and your workplace.

Custom blocks – for virtually any tube or vessel.

Convenient timer facility, with audible buzzer, for reaction timing and function timing, e.g. delayed heater switch-on/off.

High power heater for fast heat-up. From 25°C to 100°C in only 20 minutes.

High quality, robust construction in streamlined coolwall aluminium and chemical-resistant plastic – durable in demanding environments.

Applications

- General use – incubating samples at set temperatures, heating block for boiling of solutions in tubes
- Life-science-cell digestion, DNA/RNA extraction, post sequencing PCT clean-up-dry down step, boiling in vitro DNA/RNA protein samples, incubating invitro reactions/digestions, extraction of DNA for real-time PCR analysis, denaturing nucleic acid and protein samples
- Industrial – digestion of environmental samples for chemical oxygen demand analysis, soil digests, maintaining temperatures
- Biopharm – conductivity testing

QB Dry Block Heating Systems
Technical specifications

					
		QBD1	QBD2	QBD4	QBH2
		Precision digital dry block heater			High performance digital
Dimensions	h x d x w mm	120 x 240 x 200	120 x 285 x 200	120 x 390 x 200	120 x 295 x 200
Temperature range	°C	Ambient +5 to 130			Ambient +5 to 200
Stability	@37°C ±°C	0.1			
Uniformity within the block	@37°C ±°C	0.1			
across similar blocks	@37°C ±°C	0.2			
Temperature display, LED		•			
Display resolution	°C	0.1			
Heat up time 25°C to 100°C		20 minutes			15 minutes
Three programmable temperature/ time segments plus end-of-program segments		-			•
Reaction timer, with audible buzzer		1 to 999 minutes			
Function timer for delay of heater start-up/switch-off		Up to 72 hours			
Off-set adjustment		•			
Two-point calibration of internal and		•			
external probes		•			
High/low temperature alarms, settable to within 0.5°C of set temperature		•			
Fault indication display		•			
Extraction tool for easy and safe block removal		•			
Safety	over temperature cut-out	Thermal fuse			
Heater power	230V W	150	300	600	300
	120V W	100	200	400	200
Supply voltage	V	120 or 230			
Weight	kg	2.2	2.7	3.6	3

QB Dry Block Heating Systems

Options and accessories

			QBD1	QBD2	QBD4	QBH2
Interchangeable blocks						
Number of blocks		140 x 50 x 63 mm	1	2	4	2
QB-0		Plain block without holes		•		
QB-10		For 24 x ø 10mm test tubes, 50mm hole depth		•		
QB-12		For 24 x ø12mm test tubes, 50mm hole depth		•		
QB-13		For 12 x ø13mm test tubes, 50mm hole depth		•		
QB-16		For 12 x ø16mm test tubes, 50mm hole depth		•		
QB-17H		For 10 x Falcon tubes tall 17mm ø test tubes, 75mm hole depth, designed for 15ml falcon tubes		•		
QB-18		For 12 x ø18mm test tubes, 50mm hole depth		•		
QB-24		For 5 x ø24mm test tubes and universal bottles, 50mm hole depth		•		
QB-50		For 4 x 50ml centrifuge test tubes, glass universals, 50mm hole depth ø29mm, designed for 50ml falcon tubes		•		
QB-H		For 56 x 0.2ml microtube, 14mm hole depth, ø6.5mm		•		
QB-E0		For 24 x 0.5ml microtube, 30mm hole depth, ø8mm		•		
QB-E1		For 24 x 1.5ml microtube, 35mm hole depth, ø10.8mm		•		
QB-E2		For 24 x 2.0ml microtube, 35mm hole depth, ø11mm		•		
QB-E5		For 12 x 5.0ml microtube, 53.5mm hole depth, ø16.7mm		•		
QB-DN		For Dolphin nose tube 24 x ø11.13mm to ø6.1mm		•		
External Pt1000 temperature probe						
QBEP		Standard probe. For in-sample or in-block temperature control; encased in stainless steel sheath, ø3mm x 30mm long, with 350mm of cable.		•		
QBEP-WM		Short-form probe. For in-sample or in-block temperature control; encased in stainless steel sheath, ø3mm x 14mm long, with 350mm of cable.		•		
Microplate blocks for molecular biology and biotechnology applications (Double-size blocks 140 x 100 x 75mm supplied with additional extraction tool)						
QDP-H		96 holes in microplate configuration for 0.2ml microplates, strips or individual tubes. Uniformity ± 0.3°C within tubes across the block; 6.2mm ø holes, 14mm hole depth.	-	•	-	•
QDP-FL		Universal block for standard 96-well plates (u-well, v-well, flat bottom, high temperature). Uniformity ± 0.50°C between wells; supplied with hinged, double layer lid to create an insulated incubation chamber.	-	•	-	•
Safety covers (not required with QDP-FL Microtiter blocks)						
		Made from tough clear acrylic for maximum visibility whilst preventing accidental touching of a hot block or contamination of samples from splashes. Clearance height 85cm.	QBL1	QBL2	QBL4	QBL2