

Dry block heaters » QB series

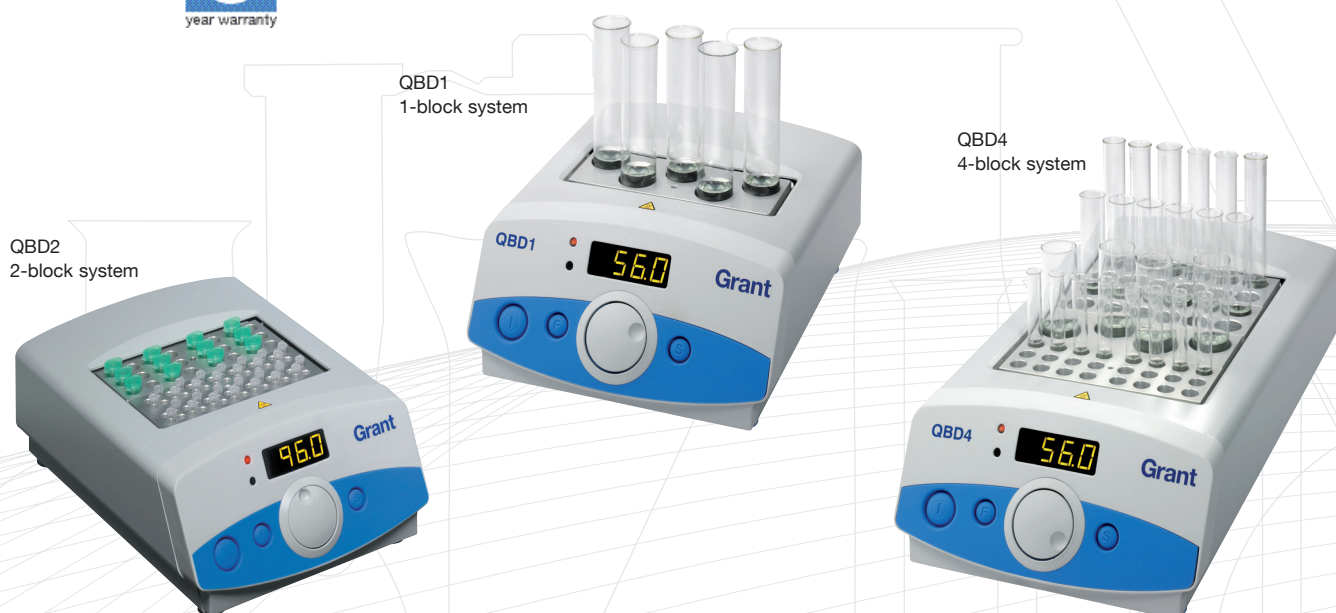
QB Dry block heating systems

for test tubes, microtubes and microplates ambient +5°C to 200°C

Dry block heating systems combining superb temperature control and uniformity with high quality design and great versatility. A premium product range at an affordable price.

- **Accurate, reproducible, rapid and safe heating of your samples** – due to advanced temperature control combined with high quality, precision-engineered blocks providing excellent 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 basic through to more sophisticated applications**

3
year warranty



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 PCR 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
- Clinical - acylcarnitines derivatisation, MRSA and PBP2 latex testing, heating flush/media used in egg recovery, fertility to keep test tubes at correct temperature during egg collection

Dry block heaters » QBD2 mid range/general purpose showcase

showcase – mid range/general purpose example

Model QBD2* stability and uniformity $\pm 0.1^\circ\text{C}$, range ambient $+5$ to 130°C

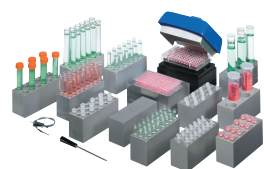
A versatile general purpose system with two removable/interchangeable blocks and a comprehensive specification to suit most dry block heating applications in the laboratory.

- Stability and uniformity $\pm 0.1^\circ\text{C}$
- Digital temperature control for optimum precision
- Heating range ambient $+5^\circ\text{C}$ to 130°C , with rapid heat-up time
- 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
- External probe available for accurate temperature control in a tube

Microplate or microtube blocks for 0.2 ml tubes, strips and 96-well microplates used in molecular biology and biotechnology applications



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



Custom blocks – for virtually any tube or vessel

High power heater for fast heat-up – from 25°C to 100°C in only 15 minutes

Over temperature cut-out protects your samples and your workplace



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



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








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

Compact footprint and sloping fascia optimise benchspace and ensure clear visibility during set-up and in use





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

* see summary table on pp. 8.3-8.4 for accessories and for other models in the range

Dry block heaters» QB series » Models and specifications

Dry block heating systems with interchangeable blocks – models						
Temperature range ambient + 5 to 130°C ambient + 5 to 200°C ambient + 5 to 100°C	Precision digital			High performance digital	Economy analogue	
	QBD1	QBD2	QBD4	QBH2	QBA1	QBA2
	1-block system	2-block system	4-block system	2-block system	1-block system	2-block system
 ● = standard	 2 kg h: 100 mm d: 230 mm w: 200 mm	 2.5 kg h: 100 mm d: 280 mm w: 200 mm	 4 kg h: 100 mm d: 380 mm w: 200 mm	 2.5 kg h: 100 mm d: 280 mm w: 200 mm	 2 kg h: 100 mm d: 230 mm w: 200 mm	 3 kg h: 100 mm d: 280 mm w: 200 mm
Temperature range	ambient + 5 to 130			ambient + 5 to 200	ambient + 5 to 100	
Temperature setting range	15 to 130			15 to 200	0 to 100	
Setting resolution	0.1			0.1	2	
Stability @ 37°C,	± 0.1			± 0.1	± 1.0	
Uniformity within the block @ 37°C,	± 0.1			± 0.1	± 1.0	
across similar blocks @ 37°C,	± 0.2			± 0.2	± 1.0	
Temperature display, LED	●			●	–	
Display resolution	0.1			0.1	–	
Heat up time 25° to 100°C	15			15	25	
Three programmable temperature/time segments plus end-of-program segments	–			●	–	
Reaction timer, with audible buzzer	1 to 999 mins			1 to 999 mins	–	
Function timer for delay of heater start-up/switch-off	up to 72 hours			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	●			●	–	
Power W	150	300	600	300	150	300
Supply voltage V	120 or 230			120 or 230	120 or 230	
Safety over temperature cut-out	thermal fuse			thermal fuse	thermal fuse	

Dry block heaters » QB series » Options and accessories

Options and accessories		QBD1	QBD2	QBD4	QBH2	QBA1	QBA2
✕ = not available ● = available							
Interchangeable blocks*							
No. of blocks	140 x 50 x 63 mm	1	2	4	2	1	2
QB-0	Plain block without holes	●	●	●	●	●	●
QB-10	24 x 10 mm ø holes, 50 mm hole depth	●	●	●	●	●	●
QB-12	24 x 12 mm ø holes, 50mm hole depth	●	●	●	●	●	●
QB-13	12 x 13 mm ø holes, 50 mm hole depth	●	●	●	●	●	●
QB-16	12 x 16 mm ø holes, 50 mm hole depth	●	●	●	●	●	●
QB-17H	for 10 x Falcon tubes tall 17mm ø holes , 75mm hole depth	●	●	●	●	●	●
QB-18	12 x 18 mm ø holes, 50 mm hole depth	●	●	●	●	●	●
QB-24	5 x 24 mm ø holes and universal bottles, 50 mm hole depth	●	●	●	●	●	●
QB-50	4 x 50 ml centrifuge tubes, glass universals, 50 mm hole depth	●	●	●	●	●	●
QB-H	56 x 0.2 ml microtube, 14 mm hole depth	●	●	●	●	●	●
QB-E0	24 x 0.5 ml microtube, 30 mm hole depth	●	●	●	●	●	●
QB-E1	24 x 1.5 ml microtube, 35 mm hole depth	●	●	●	●	●	●
QB-E2	24 x 2.0 ml microtube, 35 mm hole depth	●	●	●	●	●	●
QB-DN	Dolphin nose tube 24 x ø 11.13mm to ø 6.1mm	●	●	●	●	●	●
External Pt1000 temperature probe							
	QBEP Standard probe. For in-sample or in-block temperature control; encased in stainless steel sheath, ø 3 mm x 30 mm long, with 350 mm of cable	●	●	●	●	✕	✕
	QBEP-WM Short-form probe. For in-sample or in-block temperature control; encased in stainless steel sheath, ø 3 mm x 14 mm long, with 350 mm of cable	●	●	●	●	✕	✕
Microplate blocks for molecular biology and biotechnology applications							
Double-size blocks 140 x 100 x 75 mm supplied with additional extraction tool							
	QDP-H 96 holes in microplate configuration for 0.2 ml microplates, strips or individual tubes Uniformity ± 0.3°C within tubes across the block; 6.2 mm ø holes, 14 mm hole depth	✕	●	✕	●	✕	●
	QDP-FL Universal block for standard 96-well plates (u-well, v-well, flat bottom, high temperature) Uniformity ± 0.5°C between wells; supplied with hinged, double layer lid to create an insulated incubation chamber	✕	●	✕	●	✕	●
Safety covers (not required with QDP-FL Microtiter blocks)							

* Custom blocks available - please enquire