Showcase - mid range/general purpose example

Model QBD2* stability and uniformity ±0.1°C, temperature range: ambient +5 to 130 130°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: ±0.1°C
- Digital temperature control for optimum precision
- Heating range: ambient +5°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



Optional safety cover

 protects samples from contamination and users from accidental contact with hot blocks.



7.2

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

Simple to use rotory 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.

and 96-well microplates used in molecular biology and biotechnology applications.

Microplate or microtube blocks for 0.2 ml tubes, strips



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 20 minutes.

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



* see summary table on page 7.3-7.4 for accessories and for other models in the range

Dry block heating systems - Technical specifications										
= standard			High performance digital							
		QBD1	QBD2	QBD4	QBH2					
		1 block system	2 block system	4 block system	2 block system					
		h: 120mm d: 240mm w: 200mm weight: 2.2kg	h: 120mm d: 285mm w: 200mm weight: 2.7kg	h: 120mm d: 390mm w: 200mm weight: 3.6kg	h: 120mm d: 295mm w: 200mm weight: 3kg					
Temperature range	°C		ambient +5 to 200							
Temperature setting range	°C		15 to 200							
Setting resolution	°C		0.1							
Stability @ 37°C, =	±°C		0.1							
Uniformity within the block @ 37°C, =	±°C		0.1							
across similar blocks @ 37°C,	±°С		0.2							
Temperature display, LED			•							
Display resolution	°C		0.1							
Heat up time 25°C to 100°C			15 mins							
Three programmable temperature/ time segments plus end-of-program segments	ı		•							
Reaction timer, with audible buzzer			1 to 999 mins							
Function timer for delay of heater start-up/switch-off			up to 72 hrs							
Off-set adjustment			•							
Two-point calibration of internal and external probes	ł		•							
High/low temperature alarms, settal to within 0.5°C of set temperature	ole		•							
Fault indication display			•							
Power	W	150	300	600	300					
Supply voltage	V	120 or 230			120 or 230					
Safety over temperature cut-out			thermal fuse							
Extraction tool for easy and safe blo removal	ock		•							

Dry block heaters » QB series » Options and accessories

Options and accessories										
 = not available • = available 			QBD1	QBD2	QBD4	QBH2				
Interchan	geable block	(S*								
Number of	Number of blocks 140 x 50 x 63mm			2	4	2				
QB-0		Plain block without holes	•	•	•	•				
		For 24 x ø 10mm test tubes, 50mm hole depth	•	•	•	•				
QB-12		For 24 x ø 12mm test tubes, 50mm hole depth	•	•	•	•				
QB-13		For 12 x ø 13mm test tubes, 50mm hole depth	•	•	•	•				
QB-16	******* *******	For 12 x ø 16mm test tubes, 50mm hole depth	•	•	•	•				
QB-17H	00000 00000	For 10 x Falcon tubes tall 17mm ø test tubes, 75mm hole depth	•	•	•	•				
QB-18	******* *******	For 12 x ø 18mm test tubes, 50mm hole depth	•	•	•	•				
QB-24	0000	For 5 x ø 24mm test tubes and universal bottles, 50mm hole depth	•	•	•	•				
QB-50	0000	For 4 x 50ml centrifuge test tubes, glass universals, 50mm hole depth ø 29mm	•	•	•	•				
QB-H	And the second s	For 56 x 0.2ml microtube, 14mm hole depth, ø 6.5mm	•	•	•	•				
QB-E0		For 24 x 0.5ml microtube, 30mm hole depth, ø 8mm	•	•	•	•				
QB-E1		For 24 x 1.5ml microtube, 35mm hole depth, ø 10.8mm	•	•	•	•				
QB-E2		For 24 x 2.0ml microtube, 35mm hole depth, ø 11mm	•	•	•	•				
QB-E5	40000	For 12 x 5.0ml microtube, 53.5mm hole depth, ø 16.7mm	•	•	•	•				
QB-DN		Dolphin nose tube 24 x ø 11.13mm to ø 6.1mm	•	•	•	•				
	Pt1000 temp	erature probe								
QBEP	control	rd probe. For in-sample or in-block temperature ; encased in stainless steel sheath, ø 3 mm x 30 ng, with 350 mm of cable.	•	•	•	•				
	Short-f For in-: in stair	orm probe. sample or in-block temperature control; encased less steel sheath, n x 14 mm long, with 350 mm of cable.	•	•	•	•				
-		molecular biology and biotechnology app								
QDP-H	ouble-size blocks 140 x 100 x 75 mm supplied with additional extraction tool DP-H									
	and the second se	es in microplate configuration for 0.2 ml lates, strips or individual tubes.								
Province.	Uniform	hity \pm 0.3°C within tubes across the block; 6.2 mm s, 14 mm hole depth.	-	•	-	•				
QDP-FL	~									
	Universal block for standard 96-well plates (u-well, v-well, flat bottom, high temperature).									
	Uniformity $\pm 0.5^{\circ}$ 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 85mm.			QBL1	QBL2	QBL4	QBL2				

* Custom blocks available - please email salesdesk@grantinstruments.com for further information

7.4