Thermal Control

Digital Dry Bath

The microprocessor controlled Digital Dry Baths offer control over both temperature and time, eliminating the need for an external thermometer or timer.

Used to thaw, boil, incubate and warm samples for different applications in molecular biology, assay preparation,tissue/cell culture, biochemistry, genetics, histology, clinical, environmental and industrial laboratories.

Dry bath provides precise temperature for various experiments. Thermo mix also has mixing function, and widely used in various fields such as molecular biology and cell biology, including gene synthesis, gene purification, gene cloning, gene expression, protein expression analysis , enzyme reaction, bacterial growth and so on.

List of DLAB models:

Model	Image	Function	Temp. Setting Range	Mixing speed	Blocks	Page
HB60-S		Heating	25°C,30°C, 37°C,45°C,60°C	-	5mL×30+10mL×8	p.34
HB120-S/SC		Heating	25°C-120°C	-	0.2mL×54 0.5mL×40 1.5/2mL×40 5/15mL×28 5mL blood collection tube×45 50mL×8 (0.2mL+0.5mL+1.5/2mL)×18 0.2mL×96 PCR Microplate ELISA Microplate Bead/Water bath	p.34
HB105-S1/ S2		Heating	25°C-105°C	-	0.2mL×30 0.5mL×20 1.5mL×20 2mL×20	p.34
HB150-S1/ S2		Heating	25°C-150°C	-	5mL×12 15mL×12 50mL×4 Bead/Water bath	p.34
H100-Pro		Heating	25°C-100°C	-		p.35
HC110-Pro		Heating&Cooling	-5°C-110°C	-	0.5mL×24 1.5mL×24 2mL×24 5mL×8(Round/Cone Bottom) 15mL×8 50mL×4 0.2mL×96 PCR Microplate ELISA Microplate	p.39
HCM100-Pro		Heating& Cooling&Mixing	0°C-100°C	200-1500rpm		p.38
HM100-Pro		Heating&mixing	15°C-100°C	200-1500rpm		p.38
Mini H100		Heating	25°C-100°C	-		p.37
Mini HC100		Heating&Cooling	0°C-100°C	-	0.2mL×40 0.5mL×24 1.5mL×15 2mL×15 5mL×6 15mL×4 50mL×2	p.37
Mini HCL100		Heating&Cooling (with hot lid)	0°C-100°C	-		p.37

DLAB Dry Bath Series
HB105-S1/S2/HB150-S1/S2/HB120-S/SC/HB60-S/H100-Pro

Small footprint. Rapid & accurate temperature control. Overheating protection.
Accommodates various types of tube holders to meet every lab need.

HB105-S1

HB105-S2

HB150-S1

HB150-S2

HB120-S/SC

HB60-S

MiniHCL100

H100-Pro

Features

- Accurate and uniform temperature control
- Digital control and display of time and temperature
- Wide range of temperature control for different applications
- Monitor temperature in real-time, and set timer
- Wide range of heating blocks compatible with most popular lab tubes
- Overheating protection ensures sample and user safety
- Equipped with a lid for heat preservation, and preventing pollution
- User-friendly setting knob for easy and simple operation

HB105-S1 HB105-S2
HB150-S1 HB150-S2

Durable, reliable safe and convenient to use

Features

- Single and double heat block modules available
- Highest temperature up to 150 °C
- Buzzer alert when the time is up
- External temperature sensor PT1000

HB120-S/SC/HB60-S
Easy to use, safe and durable

Features

- Low profile - space saving design
- The max heating temperature is 120°C
- (HB120-S/HB120-SC), and the timer function support available
- Discrete heating temperature levels: 25 °C, 30 °C, 37 °C, 45 °C, 60 °C (HB60-S)
- 5mL×30+10mL×8 dual purpose heating block
- Temperature calibration function inbuilt for users (HB120-SC)

H100-Pro

Digitally accurate with exceptional temperature uniformity

Features

- Customizable user setting program with up to 6 sequential steps
- Temperature calibration function inbuilt for users
- Magnetic heat block mounting eliminating need of any tools
- Interchangeable sample blocks designed to provide versatility, easy cleaning and disinfecting
- Accurate temperature control of each heating block with lid to minimize the heat loss

Applications

Suitable for clinical laboratories, for sample preparation, Enzyme-substrate reactions, biochemistry tests, serum coagulation tests and many other.

Specifications	H100-Pro	HB105-S1 HB105-S2	HB150-S1 HB150-S2	HB120-S	HB60-S
Temperature range[°C]	Room temp+5-100	Room temp+5-105	Room temp+5-150	Room temp+5-120	Room temp+5-60
Temperature Setting range [°C]	15-100	25-105	25-150	25-120	5 gears:25, 30, 37,45,60
Temperature control accuracy[°C]	±0.5	25-90: ±0.3 90-105: ±0.6	25-90: ±0.3 90-150: ±0.6	±0.5	±0.5
Temperature uniformity@ 37°C[°C]	±0.5	±0.2	±0.2	±0.5	±0.3
Power [W]	200	HB105-S1:100 HB105-S2:200	HB150-S1:100 HB150-S2:200	160	160
Time setting range	0min-99h59min	0min~99h59min	0min~99h59min	0min-99h59min	0min-99h59min
External sensor	-	Yes	Yes	-	-
Display	TFT	LED	LED	LED	LED
Voltage,Frequency	110/220V,50/60HZ	110/220V,50/60HZ	110/220V,50/60HZ	110/220V,50/60HZ	110/220V,50/60HZ
External Dimension[WxDxH]	200x235X120	290x210X120	290x210X120	175X290X85	175X290X85
Weight（kg）	7.3	3.2	3.2	3	2.5
Operating temperature[°C]	10-40	10-40	10-40	10-40	10-40
Operating humidity[% RH]	<80	<80	<80	<80	<80

Mini Dry Bath

MiniHCL100/MiniHC100/MiniH100

Portable and option to power by automobile power adapter

Features

- Mini, lightweight, safe with LCD display
- Digital control over both temperature and time
- Built-in user recalibration function guarantees long term temperature accuracy
- Overheating protection
- Optional cooling function
- Interchangeable blocks for a wide variety of test tube sizes
- Mini HCL100 with hot lid to prevent water condensing on the tube cap

Applications

Useful for rapid and uniform heating of biological samples in applications like preservation, denaturation of nucleic acids and proteins, and many other applications.

Specifications	Mini HCL100	Mini HC100	Mini H100
Display	LCD	LCD	LCD
Temperature setting range[°C]	0-100	0-100	25-100
Temperature range [°C]	Room temperature-23~100	Room temperature-23~100	Room temperature+5~100
Temperature control accuracy[°C]	±0.5	±0.5	±0.5
Temperature display accuracy[°C]	0.1	0.1	0.1
Minimum time taken for heating(25°C+100°C)	≤20min	≤20min	≤20min
Minimum time for cooling(20°C-0°C)	≤25min	≤25min	-
Max. Heating Rate	8°C/min	8°C/min	6.5°C/min
Max. Cooling Rate	3°C/min	3°C/min	-
Time setting range	0-999min/0-999sec	0-999min/0-999sec	0-999min/0-999sec
Program Memory	9(2steps for each)	9(2steps for each)	9(2steps for each)
Temperature self-calibration	Support	Support	Support
Error code display	Support	Support	Support
Dimension[WxDxH]	110x162x140mm	110x162x140mm	110x162x140mm
Total Weight [kg]	≤1	≤1	≤1
Voltage,Frequency	100-240V, 50/60Hz or DC12V	100-240V, 50/60Hz or DC12V	100-240V, 50/60Hz or DC12V
Power [w]	60	60	60
Operating temperature[°C]	+10-40	+10-40	+10-40
Operating humidity [% RH]	≤80	≤80	≤80

Thermo Mix

HCM100-Pro/HM100-Pro

Thermo Mix series integrates precise and efficient heating & cooling and mixing function
DLAB HCM100-Pro-Heating/Cooling/Mixing
DLAB HCM100-Pro combines the excellent mixing and accurate temperature control, to make your work efficiently and productively

Module compatibility
Flexible adapter selection, compatible with various tubes

Magnet adhesion technology
Quick interchange of blocks with magnet adhesion technology without any tools

Intuitive display
LCD display for time, speed and temperature parameters

Program keys
Freely programmable
Fast and simple access to the most frequently used temperature and time parameters
Save up to 9 user defined programs

Block self-recognition
The system can automatically identify the heating module to ensure the smooth completion of the experiment

Add-ons
Three ponit temperature calibration for precise temperature control

Temperature protection
Block equipped with a lid for heat preservation

Features

- Fully programmable
- Precise temperature control for heating and cooling
- Real-time display of speed, temperature and time
- Excellent mixing (200-1500rpm)
- Quick interchange of blocks without tools and automatic block recognition
- Compatible with most popular tubes
- Block equipped with a lid for heat preservation
- Temperature self-calibration

Applications

Precise and efficient heating/cooling and mixing is applicable for many applications such as Gene synthesis, gene purification, gene and protein denaturation, enzymatic reaction, bacterial growth, and others.

Thermo Control
HC110-Pro
heating and cooling with digital display

Features

- Compact, programmable and overheating protection for safe sample handling
- Precise temperature control for heating and cooling -5°C to 110°C for all major lab applications
- Interchangeable sample blocks available
- Most common application includes reagent warming/cooling, DNA extractions, enzymatic reactions and reactions that need to processed at or near room temperature.

As low as -5°C
Precise temperature control for heating and cooling between -5°C-110°C.

Specifications	HCM100-Pro	HM100-Pro	HC110-Pro
Functions	Heating,cooling&mixing	Heating&mixing	Heating&cooling
Temperature range [°C]	Below room temp 15- 100	Room temp-100	Below room temp 25- 110
Temperature Setting range [°C]	0-100	15-100	-5-110
Temperature control accuracy@20-45 [°C]	±0.5	±0.5	±0.5
Temperature uniformity@20-45 [°C]	±0.5	±0.5	±0.5
Power [W]	200	200	200
Time setting range	0min~99h30min	0min~99h30min	0min~99h30min
Max Heating speed	5.5°C/min	5.5°C/min	5.5°C/min
Max Cooling speed	5°C/min (100°C-room temp) 0.5°C/min (below room temp)	-	2.5°C/min (100°C-room temp) 0.5°C/min (below room temp)
Mixing speed [rpm]	200-1500	200-1500	-
Mixing orbit [mm]	3	3	-
Display	TFT	TFT	TFT
Program	9	9	9
Overheating protection [°C]	150	150	150
Voltage,Frequency	110/220V, 50/60HZ	110/220V, 50/60HZ	110/220V, 50/60HZ
Dimension [mm]	200x235X120	200x235X120	200x235X120
Weight [kg]	7.3	7.3	7.3
Operating temperature [°C]	10-40	10-40	10-40
Operating humidity [% RH]	<80	<80	<80

Blocks

H100-Pro/HC110-Pro/HCM100-Pro/HM100-Pro

Cat.No	Magnetic	18900401	18900402	18900403	18900404	18900405
	Mechanical fixation	18900344	18900343	18900345	18900637	18900638
Block types						
Capacity		0.5mL×24	1.5mL×24	2mL×24	5mL×8 round bottom	5mL×8 cone bottom
Speed		1500rpm	1500rpm	1500rpm	1500rpm	1400rpm
Diameter×depth		8.1×26mm	10.9×30.8mm	10.9×30.8mm	13.6×42mm	17×51.5mm

Cat.No	Magnetic	18900874	18900406	18900407	18900420	18900423
	Mechanical fixation	—	—	—	18900349	18900350
Block types						
Capacity		1.5mL×24 Chromatography Vial	15mL×8	50mL×4	0.2mL×8 PCR strips or 0.2mL×96 PCR microplate	ELISA microplate
Speed		1500rpm	800rpm	600rpm	1500rpm	1500rpm
Diameter×depth		12×20.5mm	16.9×80mm	29.6×80mm	5.7×13.2mm	127×85mm

HB120-S/HB120-SC （Standard:151×95×50mm， Thin:151×95×36.5mm）

Cat.No	Standard	18900218	18900219	18900253	18900220	18900818	18900221
	Thin	18900274	18900275	18900276	18900277	—	—
Block types							
Capacity		0.2mL×54	0.5mL×40	1.5mL×40	2mL×40	2mL×60 Ampoules tubes	5/15mL×28
Diameter×depth		6.4×15mm	8.2×26.4mm	11×34.7mm	11×34.7mm	12×37mm	17×48mm

Cat.No	Standard	18900222	18900224	18900223	18900746	18900546	—
	Thin	—	18900278	18900279	—	—	18900504
Block types							
Capacity		50mL×8	0.2mL+0.5mL +1.5/2mL 18+18+18	microplate	Deep well Plate	5mL blood collection tubex45	0.2mL×8 PCR strips or 0.2mL×96 PCR microplate
Diameter×depth		29.8×48mm	Each capacity	127×85mm	137×86.5×42mm	13.5×48mm	5.7×13.2mm

Capacity	Cat. No.18900523
Two-in-one block, bead bath/water bath Adapt to S2	

Capacity	Cat. No.18900520
Aluminum beads	

HB105-S1 /HB105-S2 /HB150-S1 /HB150-S2

Cat.No	18900459	18900460	18900461	18900462	18900463
Block types					
Capacity	0.2mL×30	0.5mL×20	1.5mL×20	2mL×20	5mLx12
Diameter×depth	6.4×15mm	7.85×28.4mm	11×34.7mm	11×34.7mm	16.6×46mm

Cat.No	18900464	18900465	18900522	18900523	18900520
Block types					
Capacity	15mL×12	50mL×4	Dual purpose block,bead bath/water bath Adapt to S1	Dual purpose block,bead bath/water bath Adapt to S2	Aluminum beads
Diameter×depth	16.6×73mm	19.2×73.5mm	95×76×56mm	151×95×62mm	—

Mini HCL100/Mini HC100/Mini H100

Cat.No	18900414	18900415	18900416	18900428
Block types				
Capacity	0.2mL×40	0.5mL×24	1.5mL×15	2mL×15
Diameter ×depth	6.4×20 mm	8.2×28.4mm	11.2×31mm	11×31mm

Cat.No	18900417	18900426	18900427
Block types			
Capacity	5mL×6	15mL×4	50mL×2
Diameter ×depth	17×31mm	16.4×45mm	29×45mm

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Pricing on any accessories shown can be found by keying the part number into the search box on our website.

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct.
If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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