







Digital Dry Bath

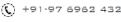
The microprocessor controlled Digital Dry Baths offer control over both temperature and time, eliminating the need for an external thermometer or timer.

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 |
|--------------|--------|----------------------------|------------------------------|--------------|--|------|
| HBGO-S | | Heating | 25°C,30°C, 37°C,45°C,60°C | - | 5mL × 30+15mL × 8 | p.32 |
| HB120-S | | 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 Microplate Bead/water bath | p.32 |
| HB105-S1/ S2 | A sale | Heating | 25°C-105°C | - | 0.2mL × 30 0.5mL × 20 1.5mL × 20 2mL × 20 | p,32 |
| HB150-S1/ S2 | | Heating | 25°C-150°C | - | 15mL × 12 50mL × 4 Bead/water bath | p.32 |
| H100-Pro | | Heating | 25°C-100°C | 1- | | p,33 |
| HC110-Pro | | Heating&Cooling | -5°C-110°C | .5 | 0.5mL × 24 1.5mL × 24 2mL × 24 5mL × 5 | p.37 |
| HCM100-Pro | | Heating& Cooling&Mixing | 0°C-100°C | 200-1500rpm | 15mL × 8 50mL × 4 0.2mL × 96 Microplate | p.36 |
| HM100-Pro | | Heating&mixing | 15°C-100°C | 200-1500rpm | | p.36 |
| Mini H100 | | Heating | 25°C-100°C | - | 0,2mL×40 | p.35 |
| Mini HC100 | | Heating&Cooling | 0°C-100°C | 1- | 0.5mL × 24 1.5mL × 15 2mL × 15 5mL × 6 15mL × 4 | p.35 |
| Mini HCL100 | 3 | Heating&Cooling | 0°C-100°C | - | 50mL×2 | p.35 |
| DWB20-S | | Heathing | 25°C-80°C | - | 20L | p.39 |

DLAB Dry Bath Series

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 / HB60-S / H100-Pro /







HB105-S2



HB150-S1



HB150-S2



HB120-S



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 function allows accurately monitor the heating time
- · External temperature sensor PT1000,
- · Historical data tracing via USB interface



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

Features

- · Low profile space saving design
- · Timer function support available
- Discrete heating temperature levels: 25 °C, 30 °C, 37 °C, 45 °C, 60 °C (HB60-S)
- 5/10mL × 38 dual purpose heating block (HB60-S)



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.



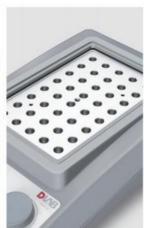
| Specifications | H100-Pro | HB105-S1 HB105-S2 | HB150-S1 HB150-S2 | HB120-S | HB60-S |
|----------------------------------|------------------|------------------------------|------------------------------|------------------|-----------------------------|
| Temperature range[$^{\circ}$ C] | Room temp+5-100 | Room temp+5-105 | Room temp+5-150 | Room temp+5-120 | Room temp+5-60 |
| Temperature Setting range [℃] | 15-100 | 25-105 | 25-150 | 25-120 | 5 gears:25, 30, 37,45,60 |
| Temperature control accuracy[℃] | ±0.5 | 25-90: ±0.3 90-105: ±0.6 | 25-90: ±0.3 90-105: ±0.6 | ±0.5 | ±0.5 |
| Temperature uniformity@ 37℃[℃] | ±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~99h30min | 0min~99h59min | 0min~99h59min | 0min~99h30min | 0min~99h30min |
| External sensor | :- | Yes | Yes | - | |
| Display | TFT | LED | LED | LED | LED |
| Power supply | 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[℃] | 10-40 | 10-40 | 10-40 | 10-40 | 10-40 |
| Operating humidity[% RH] | < 80 | < 80 | <80 | <80 | <80 |











Mini Dry Bath Mini HC100 / Mini HC100 / Mini H100

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[℃] | 0-100 | 0-100 | 25-100 |
| Temperature range [℃] | Room temperature-23~100 | Room temperature-23~100 | Room temperature+5~100 |
| Temperature cantrol accuracy[℃] | ±0.5 | ±0.5 | ±0.5 |
| pera ture display accuracy[℃] | 0.1 | 0.1 | 0.1 |
| Minimum time taken for heating(25℃+100℃) | ≤20min | ≤20min | ≤20min |
| Minimum time for cooling(20℃-0℃) | ≤25min | ≤25min | . 70 |
| Max. Heating Rate | 8℃/min | 8℃/min | 6.5℃/min |
| Max. Cooling Rate | 3℃/min | 3℃/min | - |
| Time setting range | 0-999min/0-999sec | 0-999min/0-999sec | 0-999min/0-999sec |
| No of programs | 9(2steps for each) | 9(2steps for each) | 9(2steps for each) |
| Temperature self-calibration | Support | Support | Support |
| USB interface | Support | Support | Support |
| Error code reminder | Support | Support | Support |
| External dimension[WxDxH] | 110x162x140mm | 110x162x140mm | 110x162x140mm |
| Overall weight [kg] | ≤1 | ≤1 | ≤1 |
| Power supply | DC12V,100-240V, 50/60Hz | DC12V,100-240V, 50/60Hz | DC12V,100-240V, 50/60Hz |
| Power [w] | 60 | 60 | 60 |
| Operating temperature[℃] | +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



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



- · 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 Applications
- Most common application if for 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 -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 [℃] | 0.1-100 | 15-100 | -5-110 |
| Temperature control accuracy@20-45 [℃] | ±0.5 | ±0.5 | ±0.5 |
| Temperature uniformity@20-45 [℃] | ±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℃/min |
| Max Cooling speed | 5°C/min (100°C-room temp) 0.5°C/min (below room temp) | 8 | 2.5℃/min (100℃-room temp 0.5℃/min (below room temp |
| Mixing speed [rpm] | 200-1500 | 200-1500 | £ <u>2</u> |
| Mixing orbit [mm] | 3 | 3 | - |
| Display | TFT | TFT | TFT |
| Program | 9 | 9 | 9 |
| Overheating protection [℃] | 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



HB120-S

| Standard | 18900218 | 18900219 | 18900253 | 18900220 | 18900221 | 18900222 | 18900224 | 18900223 | 18900546 | - |
|--|------------|----------|------------|----------|---|----------|-------------------------------------|------------|------------------------------------|--|
| Cat.No Thin | 18900274 | 18900275 | 18900276 | 18900277 | _ | : | 18900278 | 18900279 | - | 18900504 |
| Block types | MIIIII | IIIIIII. | //////// | IIIIII | *************************************** | 0000 | ////////// | | mm. | IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII |
| Capacity | 0.2mL × 54 | 0.5mL×40 | 1.5mL×40 | 2mL × 40 | 5/15mL × 28 | 50mL × 8 | 0.2mL+0.5mL +1.5/2mL 18+18+18 | microplate | 5mL blood collection tubex45 | 8PCR strips and 96PCR microplate |
| Capacity | Cat. No.18 | 3900523 | Capaci | ty | Cat. No.18900 | 520 | | | | |
| Two-in-one block, bead bath/water bath Adapt to S2 | | | Aluminum I | peads | | | | | | |

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

| Cat.No | 18900459 | 18900460 | 18900461 | 18900462 | 18900463 | 18900464 | 18900465 | 18900522 | 18900523 | 18900520 |
|----------------|------------|------------|------------|----------|----------|-----------|----------|--|--|-------------------|
| Block types | mm | Ш | | | | | == | A. A | | |
| Capacity | 0.2mL × 30 | 0.5mL × 20 | 1.5mL × 20 | 2mL × 20 | 5mLx12 | 15mL × 12 | 50mL × 4 | Two-in-one block,bead bath/water bath Adapt to S1 | Two-in-one block,bead bath/water bath Adapt to S2 | Aluminum beads |

Mini HCL100/Mini HC100/Mini H100

| Cat.No | 18900414 | 18900415 | 18900416 | 18900428 | 18900417 | 18900426 | 18900427 |
|--------------------|------------|--------------|------------|-----------|----------|-------------|-----------|
| Block types | | | | 20000 | 333 | | 90 |
| Capacity | 0.2mL × 40 | 0.5mL×24 | 1.5mL × 15 | 2mL × 15 | 5mL × 6 | 15mL×4 | 50mL × 2 |
| Diameter ×depth | 6.4×20 mm | 8.2 × 28.4mm | 11.2×31mm | 11 × 31mm | 17×31mm | 16.4 × 45mm | 29 × 45mm |