

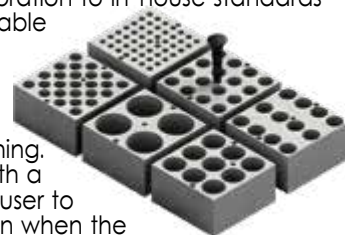
# Dry Baths





## DBD-001N/002N, Dry Bath Incubators

Useful for variety of applications in molecular biology and histology as well as clinical, environmental & industrial settings, including restriction digests, denaturing DNA, BUN, melting agar, coagulation studies, hybridization and Hot Start thermo-cycled reaction. The dry baths feature a broad temperature range, up to 150°C, and excellent uniformity. A microprocessor regulates the high wattage heater to provide precise, accurate control and rapid heating. The Aluminium block chamber ensures an even transfer of heat from the heating element to the block. Temperature is easily set using arrow keys while the value is shown on the large display. The user calibration function allows for easy calibration to in-house standards when required. Interchangeable blocks are available to accommodate a wide variety of tubes, plates & slides. Solid blocks are also available for custom machining. Each dry bath is supplied with a block lifter that enables the user to exchange blocks easily, even when the block is hot.



Model	Type	Description
301-01081-01	BK01	49 x Ø6mm
301-01081-02	BK02	49 x Ø7mm
301-01081-03	BK03	25 x Ø10mm
301-01081-04	BK04	25 x Ø12mm
301-01081-05	BK05	25 x Ø13mm
301-01081-06	BK06	12 x Ø15mm
301-01081-07	BK07	16 x Ø15mm
301-01081-08	BK08	12 x Ø16mm
301-01081-09	BK09	16 x Ø16mm
301-01081-10	BK10	12 x Ø19mm
301-01081-11	BK11	16 x Ø19mm
301-01081-12	BK12	9 x Ø20mm
301-01081-13	BK13	9 x Ø26mm
301-01081-14	BK14	4 x Ø28mm
301-01081-15	BK15	4 x Ø40mm
301-01081-16	BK16	49 x 0.5ml tubes
301-01081-17	BK17	25 x 1.5ml tubes
301-01081-18	BK18	25 x 2.0ml tubes

### Features:

- Large block 96x96x49mm
- Precise microprocessor control.
- Broad temperature range, to 150°C.
- Large digital with dual display.
- User friendly calibration.
- Rapid temperature increasing rate.
- Optional: RS-232 communication.

Model	DBD-001N	DBD-002N	DBD-004N
Display	LED Display		
Heating power	400W	800W	800-850W
Unit dimension (WxLxH)	200x310x110mm	270x310x110mm	270x410x110mm
Controller	Digital microprocessor controller		
Heating chamber	Molded aluminum alloy chamber		
Temperature control range / increment	5°C Above ambient to 150°C / 0.1°C		
Temperature uniformity in working area at 37°C	±0.2°C		
Temperature accuracy in working area at 37°C	±0.2°C		
Temperature calibration / Timer	Yes / 1-999 mins, continuous		
Safety device	Leakage proof for heating chamber, Over temperature protection, SSR failure detection		
Operating temperature	Ambient to 40°C		
Special feature	Used as water bath incubator		
Block material	Aluminum alloy		
Block type	Standard and customized type are available		
Data log	RS232 (Option)		
Weight	approx. 2.6kg	approx. 2.8kg	approx. 6.0kg
Rated voltage	110V or 220V selectable		



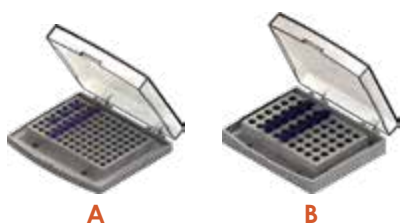
DBC-002

**DBC-002, Cool/Heat Dry Bath Incubator - 10°C to +100°C**

The DBC-002 Dry Bath Incubator is a microprocessor-controlled product using advanced thermoelectric technique. With this technical, more stable and accurate temperature control is achieved. Replacement is convenient with optional metal block of various specifications configured for different types of test tubes.

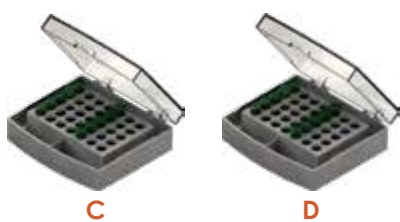
**Features:**

- LCD display easy to setup and use.
- Simultaneous display of set and actual time/temperature.
- Temperature deflection adjusting meet with different demands.
- As it is equipped with various optional blocks, the instrument can adapt to different tubes & wells to cope with experimental needs. It is easy to replace the metal blocks and is very simple to clean and sterilize
- Customized blocks are available to suit your specific demands.
- Microprocessor controlled incubation time and temp.
- Beep-signal/Stop after program completed.
- Peltier design of DBC-002 provides efficient thermal control.



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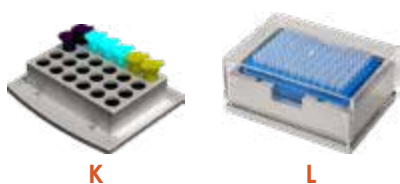
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Model	DBC-002
Temp. Control Range	-10°C~100°C
Timing Range	1min~99h59min
Temp. Control Accuracy	±0.5°C
Display Accuracy	0.1°C
Heating Time (20°C to 100°C)	≤20min
Cooling Time (20°C to -10°C)	≤30min (*)
Heating Part	Peltier
Cooling Part	Peltier
Dimensions (L×W×H) mm	300×212×180
Certificate	CE
Net Weight	5.0kg

\*1) Cooling speed≤25min (20°C to -5°C) if the room temperature is lower than 30°C

\*2) Cooling speed≤30min (20°C to -10°C) if the room temperature is lower than 25°C.

Model	Type	Description
301-1-111101	A	96 x 0.2ml
301-1-111102	B	54 x 0.5ml
301-1-111103	C	35 x 1.5ml
301-1-111104	D	35 x 2.0ml
301-1-111105	E	15 x 0.5ml+20 x 1.5ml
301-1-111106	F	24 x Diameter≤12mm tubes
301-1-111107	G	12 x 15ml Falcon tubes
301-1-111108	H	6 x 50ml Falcon tubes
301-1-111109	I	103 x 67 x 30mm Bath Block
301-1-111110	J	96 x 0.2ml Microplate
301-1-111111	K	24 x 5ml tubes
301-1-111112	L	96-Deep well plate



DBD-H1



DBD-H2



DBD-H4

### DBD-H1/H2/H4, Larger Blocks, Larger Capacities

#### Special thicker blocks guarantee excellent temperature stability

- Digital microprocessor control [PID] for highest accuracy
- Various of interchangeable insert blocks
- Block combined with the close fit of the tubes for efficient heat transfer
- Standard flat covers for protecting the user from heat.

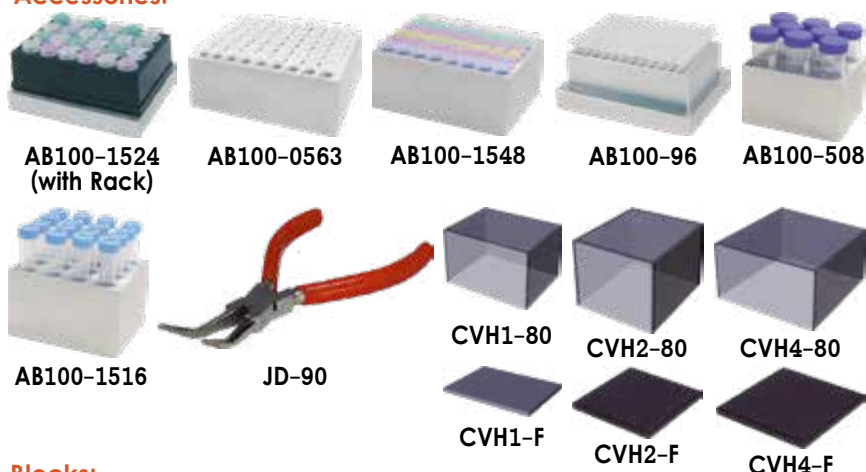
#### Safety features:

- Flashing alarm lamp to warn over-temp.
- Over-temperature cut-out
- Over temperature safety thermostat.

#### An examples to use:

- DNA Extraction.

#### Accessories:



#### Blocks:

<b>AB100-96</b>	Block/96PCR plate-capacity: 1ea or 8 strip tube-capacity: 12ea
<b>AB100-0563</b>	Block/0.5ml centrifuge tube - capacity: 63ea
<b>AB100-1548</b>	Block/1 .5ml centrifuge tube - capacity: 48ea
<b>AB100-1524</b>	Block/1 .5ml centrifuge tube - capacity: 24ea with tube rack
<b>AB100-1516</b>	Block/1 5ml conical tube - capacity: 16ea
<b>AB100-508</b>	Block/50ml conical tube - capacity: 8ea

#### Other Accessories:

Model Number	Description
<b>JD90</b>	Block transfer tool
<b>CV1-80 (for H1)</b>	High cover for conical tube (W154×D125×H76mm)
<b>CV2-80 (for H2)</b>	High cover for conical tube (W225×D154×H76mm)
<b>CV4-80 (for H4)</b>	High cover for conical tube (W283×D225×H76mm)

Model	DBD-H1	DBD-H2	DBD-H4
<b>Temp. Range</b>	Ambient +5°C ~ 150°C		
<b>Temp. Accuracy</b>	±0.2°C		
<b>Timer</b>	99hour 59min		
<b>Heating Method</b>	cartridge Heater 150W-2ea	cartridge Heater 300W-2ea	cartridge Heater 300W-4ea
<b>Capacity</b>	1Block	2Blocks	4Blocks
<b>Material</b>	Energy plate and sample block: Aluminum Inside and insulating side: Stainless steel		
<b>Weight</b>	3kg (without block)	6kg (without block)	10kg (without block)
<b>Dimensions (mm)</b>	205W×263D×163H	205W×360D×163H	335W×360D×163H
<b>Wattage</b>	310W	610W	1200W
<b>Power</b>	AC 100-240V (220-230V : CE cert), 50/60Hz		



DBS-001

DBSC-001

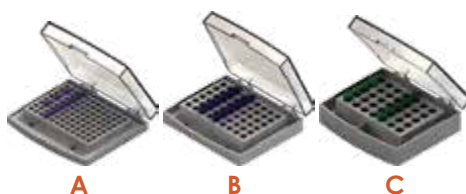
**DBS-001/DBSC-001, Thermo Shaker Incubator**

Designed for simultaneous heating, cooling and mixing of small samples. Both DBS-001 and DBSC-001 can be supplied with interchangeable blocks to match various tubes. Mixing, heating and cooling modes can be used either simultaneously or independently. The main Mixing body can be used with different kinds of blocks.

**Features:**

- LCD display, easy to setup and use.
- Accurate control and display time, temperature and speed.
- Over-heating protection device ensures safety & reliability.
- Low working noise even when working below 1,500rpm.
- Customized blocks are available to suit your specific demands.
- Audible signal to indicate end of run after program completion.
- Gentle, reliable mixing with long-life direct current motor.
- Conforms to CE safety standard.
- Peltier design of DBS-001 provides thermal control in a compact unit.

Model	DBS-001	DBSC-001
<b>Temp. Control Range</b>	RT+5°C~100°C	0°C~100°C if Ambient Temp. ≤20°C 4°C~100°C if Ambient Temp. ≤25°C 10°C~100°C if Ambient Temp. ≤30°C
<b>Temperature Setting Range</b>	5°C~100°C	0°C~100°C
<b>Timing Range</b>	1min~99h59min	
<b>Temp. Control Accuracy</b>	±0.5°C	
<b>Display Accuracy</b>	0.1°C	
<b>Heating Time (20°C to 100°C)</b>	≤15min	
<b>Cooling Time</b>	---	≤30min (from RT. to RT.-20°C) ≤15min (from 100°C to 20°C)
<b>Mixing Speed</b>	200~1500rpm	
<b>Mixing Orbit</b>	2mm	
<b>Dimensions (L×W×H) mm</b>	300×220×170	
<b>Net Weight</b>	7kg	8.5kg



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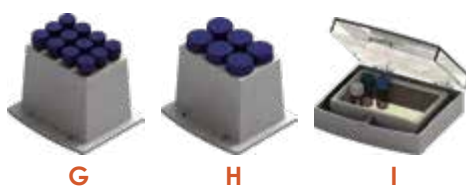
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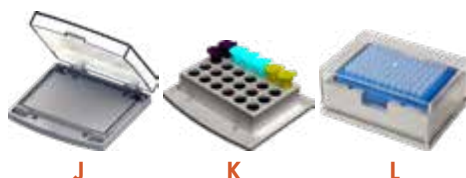
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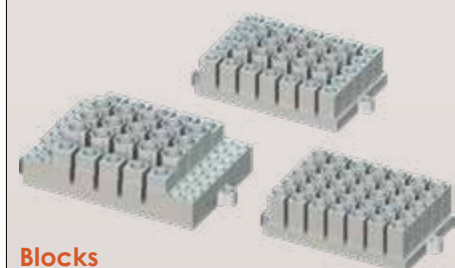


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Model	Type	Description
301-1-111101	A	96 x 0.2ml
301-1-111102	B	54 x 0.5ml
301-1-111103	C	35 x 1.5ml
301-1-111104	D	35 x 2.0ml
301-1-111105	E	15 x 0.5ml+20 x 1.5ml
301-1-111106	F	24 x Diameter≤12mm tubes
301-1-111107	G	12 x 15ml Falcon tubes
301-1-111108	H	6 x 50ml Falcon tubes
301-1-111109	I	103 x 67 x 30mm Bath Block
301-1-111110	J	96 x 0.2ml Microplate
301-1-111111	K	24 x 5ml tubes
301-1-111112	L	96-Deep well plate



Blocks



Tube Holders

## DBS-002/DBS-003, Turbo Thermo Shaker Incubator

The fastest functions-rich, thermo-shaker for multiple applications in the world.

### Highlights:

- Thermo shaker for microplates, tubes, and glass vials.
- Fast shaking and mixing up to 3,000rpm.
- 3D-Shake-Control: efficient and fast controlled orbital mixing movements, eliminating any need for centrifugation after mixing.
- Perfectly controlled 3 dimensional mixing prevents spilling and lid wetting.
- Highly accurate processing and Anti-Vibration Technology eliminate vibrations for a relaxed working environment.
- 2 programmable soft keys, integrated vortex and short mix functions.
- Very small, light, efficient and quiet.
- Adapter plates:

**Microplates:** 96, 384, & 1536-well microplates/deepwell plates/PCR plates.

**Holder:** 0.2ml PCR tubes holder, 0.5ml tubes holder, 1.5/2.0ml tubes holder.  
15ml Micro tubes holder, -50ml Micro tubes holder

**Block:** 10 types Aluminum blocks for user choosing.

Model	DBS-002	DBS-003
Mixing frequency	300~3000rpm	300~1700rpm
Mixing orbit	2mm	3mm
Speed setting resolution	10rpm increment	
Mixing accuracy	±25rpm	
Short-Mix function	Yes	
Temp. Control Range	RT+5°C~100°C	
Temperature Setting	0.1°C increment	
Timing Range	±0.1°C	
Temperature Accuracy	±0.25°C at 37°C ±0.5°C at 95°C	
Heating Time	≤12min	
Time setting	1min~100h	
Time setting resolution	1min	
Continuous working	Yes	
Programs stored	2	
Individual program capacity	3 steps	
Internal memory	Yes	
Operation voltage	24V DC 150W	
Power supply	AC100~240V	
Dimensions (L×W×H) mm	230×170×130	
Weight	4.5kg	

Model	Type	Description
301-02051-01	A-200	96 x 0.2ml
301-02051-02	B-200	54 x 0.5ml
301-02051-03	C-200	35 x 1.5ml
301-02051-04	D-200	35 x 2.0ml
301-02051-05	E-200	15 x 0.5ml + 20 x 1.5ml
301-02051-06	F-200	24 x Dia Φ.1 ≤2mm tubes
301-02051-07	G-200	32 x 0.2ml + 25 x 1.5ml
301-02051-08	H-200	32x0.2ml + 10x0.5ml + 15x1.5ml
301-02051-09	I-200	103 x 67 x 30mm Bath Block
301-02051-10	J-200	96 x 0.2ml Microplate
301-02031-01	MIX-A	0.2ml PCR Tube Holder
301-02031-02	MIX-B	0.5ml Tube Holder
301-02031-03	MIX-C	1.5/2.0ml Tube Holder
301-02031-04	MIX-D	8 x 15ml Tube Holder
301-02031-05	MIX-E	3 x 50ml Tube Holder

DBG-002

**DBG-002, Sample Concentration**

The instrument consists of a base and stand assembly, sample holder and gas distribution system. Test tubes are held in a block. The gas at 5 to 10 psig passes through the distribution manifold. Depending on the test-tube size and solvent volume they can be individually raised or lowered to the correct height. Needles or glass Pipettes blow gas onto the surface of the solution resulting in rapid evaporation of the solvent.

**Features:**

- High precision and wide range of temperature control.
- Blowing a large number of samples at 1 time.
- Blowing each sample independently.
- Amount of airflow can be adjusted.
- Easy operation; safe and reliable to use.



Model	DBG-002
Temp. Control Range	RT+5°C~150°C
Timer	1min~99h59min
Display	LED
Temp. Control Accuracy @40~100°C	±0.5°C
Temp. Control Accuracy @100~150°C	1°C
Display Accuracy	0.1°C
Heating Time(40°C~150°C)	≤30min
Standard Blocks	2
Nitrogen Consumption	0~10L/min
Dimensions (L×W×H) mm	280×240×110
Needle Length	150mm

Model	Type	Description	Dimensions (mm)
301-01081-01	BK01	49×Φ6mm	96×96×49
301-01081-02	BK02	49×Φ7mm	96×96×49
301-01081-03	BK03	25×Φ10mm	96×96×49
301-01081-04	BK04	25×Φ12mm	96×96×49
301-01081-05	BK05	25×Φ13mm	96×96×49
301-01081-06	BK06	12×Φ15mm	96×96×49
301-01081-07	BK07	16×Φ15mm	96×96×49
301-01081-08	BK08	12×Φ16mm	96×96×49
301-01081-09	BK09	16×Φ16mm	96×96×49
301-01081-10	BK10	12×Φ19mm	96×96×49
301-01081-11	BK11	16×Φ19mm	96×96×49
301-01081-12	BK12	9×Φ20mm	96×96×49
301-01081-13	BK13	9×Φ26mm	96×96×49
301-01081-14	BK14	4×Φ28mm	96×96×49
301-01081-15	BK15	4×Φ40mm	96×96×49
301-01081-16	BK16	49×0.5ml tubes	96×96×49
301-01081-17	BK17	25×1.5ml tubes	96×96×49
301-01081-18	BK18	25×2.0ml tubes	96×96×49
301-01081-19	BK19	96×0.2ml tubes	78×114×26
301-01081-20	BK20	96×0.2ml microplate	81×123×19



## DBG-003, Sample Concentration, Each Sample Independently

### Features:

- High precision and wide range of temperature control.
- Blowing at a large number of samples at one time.
- Blowing each sample independently.
- Amount of airflow can be adjusted.
- Easy operation; safe and reliable to use.
- Low Nitrogen consumption of 330ml/min/sample.

Model	Type	Description	Dimensions (mm)
301-06091-01	BD01	12×Φ10mm	192×96×49
301-06091-02	BD02	12×Φ12mm	192×96×49
301-06091-03	BD03	12×Φ13mm	192×96×49
301-06091-04	BD04	12×Φ15mm	192×96×49
301-06091-05	BD05	12×Φ16mm	192×96×49
301-06091-06	BD06	12×Φ19mm	192×96×49
301-06091-07	BD07	12×Φ20mm	192×96×49

Model	DBG-003
Temperature Control Range	RT+5°C~150°C
Temperature control discrepancy	≤±1°C (RT+5°C~100°C) ≤±1.5°C (100°C~150°C)
Heating time (from 40°C to 150°C)	≤30min
Processing timer	1min~99h59min
Maximum input power	400W
Temp. control discrepancy	0.1°C
Deedles length	150mm
Capacity	12 pcs
Dimensions (L×W×H)mm	280×240×500

## DBG-012, Sample Concentration



DBG-012 Sample Concentration consists of a base and stand assembly, sample holder and gas distribution system. The round, stainless steel water bath of DBG-012 is thermostatically controlled and will maintain water temperature from ambient temperature to 99°C.

### Features:

- LED display, 12 positions
- Compact size takes minimal hood space
- Water bath provides gentle heat
- Circular stand turns so each sample is accessible from the front
- Accommodates samples in test tubes 10 to 29mm diameter, Volumes from 1ml to 50ml
- A gas flow meter with valve, controls and indicates gas consumption
- A needle valve adjusts gas flow at each position
- Stainless steel 130mm- gauge needles standard
- All metal parts are made of stainless steel, nickel chromed brass or anodized aluminum
- Plastic parts are laboratory grade and will withstand contact with common organic solvents
- Temperature setting range: Ambient temperature ~ 99°C
- Temperature control accuracy: ±1°C.

Model	DBG-012
Temperature control range	RT.+5°C~99°C
Temp. control accuracy	±1°C
Tube size	10-29mm
Beaker / Tube size	<Φ30mm
Gas flow	0-15L/min
Nitrogen Consumption	330ml/min
Needle Length	128mm
Accommodates samples	12pcs
Inner dimension	Φ260x150mm



### DBD-Dual, Dry Bath Incubator

DBD-Dual dry bath incubator is ideal for incubation and activation of cultures, enzyme reactions, blood urea nitrogen determinations, immunoassays, melting/boiling points, and a wide variety of other laboratory procedures. The economical, superb temperature control and compact dry bath incubators are designed for applications that require repeatable results and superior temperature stability.

The DBD-Dual dry bath incubator is an innovative design accommodating two blocks with independent digital temperature control. Each block can be set to different temperatures – ideal for multiple users or for applications where samples have to be transferred between two temperatures very quickly.

Model	Type	Description
301-01181-01	BH01	96 x 0.2ml tubes
301-01181-02	BH02	45 x 0.5ml tubes
301-01181-03	BH03	35 x 1.5ml tubes
301-01181-04	BH04	35 x 2.0ml tubes
301-01181-05	BH05	15 x 0.5ml+20 x 1.5ml
301-01181-06	BH06	20 x 1.5ml+15 x 2.0ml
301-01181-07	BH07	32 x 0.2ml+22 x 0.5ml+ 9 x 1.5ml
301-01181-08	BH08	20 x 5ml tubes
301-01181-09	BH09	20 x 10ml tubes
301-01181-10	BH10	12 x 15ml tubes
301-01181-11	BH11	6 x 50ml tubes
301-01181-12	BH12	96 x 0.2ml Elisa plate or 4 slides
301-01181-13	BH13	Solid block (no holes)
301-01181-14	BH14	384 well PCR Plate
301-01181-15	BH15	40 x Ø6mm tubes
301-01181-16	BH16	28 x Ø10mm tubes
301-01181-17	BH17	24 x Ø12mm tubes
301-01181-18	BH18	24 x Ø13mm tubes
301-01181-19	BH19	14 x Ø15mm tubes
301-01181-20	BH20	14 x Ø16mm tubes
301-01181-21	BH21	12 x Ø19mm tubes
301-01181-22	BH22	11 x Ø20mm tubes
301-01181-23	BH23	6 x Ø26mm tubes
301-01181-24	BH24	6 x Ø28mm tubes
301-01181-25	BH25	2 x Ø40mm tubes
301-01181-26	BH26	2 x 7 – 12.5 x 12.5 (Cuvette)
301-01181-27	PT1000	External temperature probe
301-01181-28	T4	Block extraction tool

### Features:

- Exceptional temperature uniformity and accuracy thanks to advanced temperature control combined with high quality, precision engineered blocks providing excellent thermal contact.
- Wide range of interchangeable aluminium blocks.
- Heat to 105°C, optional external temperature probe.
- Blocks available as accessories for all applications – tubes, vials and microplates.
- Block extraction tool is supplied, allowing blocks to be removed easily.

Model	DBD-Dual
Temp. Control Range	RT+5°C~105°C
Timing Range	1min~99h59min
Temp. Stability @100°C	±0.4°C
Uniformity: within the block @ 37°C across similar blocks @ 37°C	±0.2°C -
Display Accuracy	0.1°C
Heating Time (25°C to 100°C)	≤15min
Block Quantity	2
Dimensions (L×W×H)mm	365×210×150
Weight	4.5kg
Optional external temperature probe	Yes

## DBD-2000-2HLP, Dry Bath Incubator Programmer

The dry bath incubator incorporate thermal cycle's heating lid technology, twin blocks and touch screen products with a patent.



### Features:

- Exceptional temperature uniformity and accuracy – due to advanced temperature control combined with high quality, precision engineered blocks providing excellent thermal contact.
- Hold a heating lid, 60 user programmable settings.
- Touch screen allows for easy to read & easy programming & easy to use.
- Programmable system and program link functions, it can be run some simple PCR tests.
- Block extraction tool is supplied, allowing blocks to be removed easily.

Model	Type	Description
301-01181-01	BH01	96 x 0.2ml PCR tubes
301-01181-02	BH02	45 x 0.5ml tubes
301-01181-03	BH03	35 x 1.5ml tubes
301-01181-04	BH04	35 x 2.0ml tubes
301-01181-05	BH05	15x0.5ml + 20x1.5ml tubes
301-01181-06	BH06	20x1.5ml + 15x2.0ml tubes
301-01181-07	BH07	32x0.2ml + 22x0.5ml + 9x1.5ml
301-01181-08	BH08	20 x 5ml tubes
301-01181-12	BH12	96 x 0.2ml Elisa plate or 4 slides
301-01181-13	BH13	Solid block (no holes)
301-01181-14	BH14	384 well PCR Plate
301-01181-28	T4	Block extraction tool
301-01211-01	L4	Stainless plate

Model	DBD-2000-2HLP
Temp. Control Range	RT+5°C~100°C
Stability @ 100°C	±0.4°C
Uniformity: within the block @ 37°C across similar blocks @ 37°C	±0.2°C ±0.3°C
Display Accuracy/Display	0.1 °C/Touch Screen
Heating Time (25°C to 100°C)	≤15min
Timing Range	1 min-99h59min
Block Quantity	2
Dimensions (L×W×H)mm	380×210×160
Weight	5.5kg



## K37-24, Gel Cards ID Incubator

### Features:

- Incubator for 24-Gel Cards in racks at 37°C
- 2 independent incubation zones with a capacity for 12 Gel cards
- Digital interface screen for control and visualization of remaining incubation time & real temperature for each zone
- Fixed pre-set temperature of 37°C
- Pre-set incubation time of 15 minutes, which can be adjusted by the user
- Audible programmable alarm to notify end of incubation period.



Model	K37-24
Capacity	24 Gel cards
Temperature	37°C
Timer	15min (Variable)
Power	AC220V or AC120V 50-60Hz, 300W
Dimensions (D×W×H)mm	380x220x115



- 1 Touch screen, easy to read and use
- 2 12 slides with superior temperature uniformity
- 3 Heating lid and lid seals tightly will maintain uniform temperature and humidity.



### SDH-12, Slide Denaturation/Hybridization System

#### Ideal for denaturation/hybridization of fluorescent in-situ hybridization procedure

Programmable system and humidifying that automates the steps in a slide-based FISH procedure, and provides walk-away convenience for clinical and research personnel. The low cost unit accepts a wide range of sample types, is easy to use, and reduces hands-on time by more than 50% while ensuring overall precision and accuracy in all FISH assays. Up to 12 slides can easily be added or removed with one hand. Two-side heating of slides that allows achieving exact correspondence of the set and actual temperature and maintaining uniform temperature across all slide positions.

#### Features:

##### User Programmable Settings

- Touch screen allows for easy to read and easy programming
- 99 user programmable settings
- Five operation modes: denaturation/hybridization, hybridization fixed temperature, custom, In-situ PCR
- Can be used as a fixed temperature slide warmer

##### Easy to user

- Eliminates manual steps & reduces hands-on time during FISH procedures
- Slides do not need to be fully loaded to maintain temperature accuracy
- Slide guide keeps slides in place and allows for one hand removal

##### More stringent temperature control

- Rapid temperature ramp-up and accuracy of  $\pm 1^{\circ}\text{C}$
- Superior temperature uniformity across all slide positions
- Programmable system, it can be runned In-situ PCR experiments

##### Ideal for humidity control

- Perfect lid seals tightly will maintain uniform temperature and ensure humidity across all slide positions.

Model	SDH-12
Temp. Range	RT+5°C~100°C
Temp. Accuracy	$\pm 1^{\circ}\text{C}$
Temp. Uniform	$\pm 1^{\circ}\text{C}$
Processing Timer	1min~99h59min
Heating Time (37°C to 95°C)	$\leq 3\text{min}$
Cooling Time (95°C to 45°C)	$\leq 5\text{min}$
Temp. Control Programmable	30°C~100°C
Capacity	12 Slides
Overall DIM.	L420×W225×H143mm
Net Weight	6kg

DBR-001N



DBR-002N



DBR-004N

## DBR-001N/002N/004N, Dry Bath Incubators

Chemical digestion of the samples is a prerequisite such as: tests, determination of COD, TOC, total phosphate, nitrogen etc.

The required temperature and reaction time are programmed using the membrane keypad on the front of the reactor. When digestion is complete, the reactor automatically switches off & sounds an alarm. DBR-001 COD reactor is designed to meet USEPA 410.4 method. It can be used to digest closed I micro reflux COD vial and other samples which diameter is 16mm. Further, it is safer and easier than traditional open macro reflux method. Unique COD program let DBR-001N/002N/004N to be a truly automatic reactor.

When the reactor is powered on, just click the start/stop button, then it starts to heat to 150°C and keep for 2 hours then stop heating with an audio alarm. Samples are ready to be measured by colorimeter when they cool down.

DBR-001N/002N COD reactor is compatible with any COD detectors which use 16mm COD vials. In additional to COD program, DBR-001N/002N/004N is a microprocessor controlled block heater, with temperature range from 60°C to 200°C and timer from 0 to 999 minutes or continuous operation.

## COD-200 COD Detector



### For The Digestion Of:

- COD (150°C)
- TOC (120°C)
- Total chromium (100°C)
- Total nitrogen (100°C)
- Total phosphate (100°C)

### Features:

- Safer & easier than traditional open reflex method.
- Save lab top space, power & water consumption.
- Reduce waste & maximize safety.
- Unique COD program makes it truly automatic.

Model	DBR-001N	DBR-002N	DBR-004N
Read out	4 Digital LED of set temperature, set time, process temperature, residual time display		
Timer	1~999 minutes with audible alarm and automatic shut off or continuous operation		
Accuracy	±2°C (at 150°C)		
Temperature	60°C~200°C, adjustable		
Block capacity	16x16mm Ø sample vials	32x16mm Ø sample vials	64x16mm Ø sample vials
Structure	Housing: aluminium steel with powder paint coating, Block: Anodized aluminum		
Power	AC110 or AC220V, 50/60Hz, 220Watt	AC110 or AC220V, 50/60Hz, 800Watt	AC110 or AC220V, 50/60Hz, 800Watt
Dimensions	W189xH116xD315mm	W290xH116xD315mm	W270xH110xD405mm
Weight	Net 4.5kg	Net 5.5kg	Net 6.0kg