



DRY BLOCK HEATER/THERMO MIXERS



cs@irisanalytical.com



+1 706 760 4500



www.irisanalytical.com

Dry bath incubators are 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.

- Mini Dry Block Incubator DM-100
- Dry Block Incubator DI-100/DI200
- Digital Dry Bath Incubator DI-300
- Microplate Incubator/Thermo Shaker DM-100/DM-100S
- Dry Block Thermo Mixer/Shaker DS-100/DS-100R
- Dry Block Thermo Shaker DS-200/300

Mini Dry Bath Incubator DM-100 Series

The Portable Dry Bath Incubator DM-100 Series dry bath incubator combine a microprocessor-controlled, a fast heating micro-tube block. The Portable series are suitable for range of uses in life science, molecular biology, environmental and industrial laboratories and a variety of applications including incubation, enzyme reactions, immuno-assays. The small form factor allows these to find a place on even the most crowded laboratory benchtop and easy to move.



- LCD display. It is easy to set up and use
- Small footprint: Portable Dry Bath Incubator DM-100 Series are a personal sized that fits in the palm of your hand
- Simultaneous display of set and actual time, temperature
- Temperature deflection adjusting meet with different demands
- Beep-signal/Stop after program completed
- Interchangeable aluminum alloy sample blocks provide versatility and allow easy cleaning and disinfecting
- With DC12V or DC24V power for total portability

Model	DM-100	DM-100R	DM-200	DM-200L
Temperature Range	RT+5°C to 80°C	0°C to 100°C	RT+5°C to 100°C	RT+5°C to 100°C
Timing Range	0 to 999 min or 0 to 999 sec			
Temp. Accuracy	±0.5°C	±0.5°C	±0.5°C	±0.5°C
Display Accuracy	±0.1°C	±0.1°C	±0.1°C	±0.1°C
Heating Time (25°C to Max. Temp.)	?12min	?20min	?15min	?15min
Cooling Time(25°C to 0°C)	----	?25min(*)	----	----
Temp. Accuracy@40°C	±0.3°C	±0.3°C	±0.3°C	±0.3°C
Heating Lid	----	----	----	Lid(*)
Lid Temperature Range	----	----	----	RT+5°C to 100°C
Dimension	150 x 110 x 100 mm	162 x 110 x 140 mm	152 x 120 x 112 mm	152 x 120 x 115 mm
Net Weight	0.5 kg	1.0 kg	0.85 kg	0.9 kg
Electrical Requirement	110V/60Hz 220V/50Hz	110V/60Hz 220V/50Hz	110V/60Hz 220V/50Hz	110V/60Hz 220V/50Hz
Catalogue No.	1600505-01 1600505-02	1600510-01 1600510-02	1600515-01 1600515-02	1600520-01 1600520-02

Dry Bath Incubator DI-200 Series

The Dry Bath Incubator DI-200 series are a microprocessor-controlled product using advanced thermoelectric technique. With this technique, more stable and accurate temperature control is achieved. Replacement is convenient with option of metal block of various specifications configured for different types of test tubes.



Features:

- LCD display. It is easy to set up and use
- Simultaneous display of set and actual time, temperature
- Temperature deflection adjusting meet with different demands
- Easy to replace the metal blocks and is very simple to clean and sterilize
- Microprocessor controlled incubation time and temperature
- Beep-signal/Stop after program completed
- Peltier design of MK-20 provides efficient thermal control

Model	DI-200		DI-200R	
Temperature Range	RT+5°C to 70°C		-10°C to 100°C	
Timing Range	1min to 99h59min		1min to 99h59min	
Temp. Accuracy	±0.5°C		±0.5°C	
Display Accuracy	±0.1°C		±0.1°C	
Heating Time(25 to100°C)	?12min		?20min	
Cooling Time(20 to-10°C)	----		?30min(*)	
Heating	Heater		Peltier	
Cooling	----		Peltier	
Certificate	CE		CE	
Dimension	300 x 220x180 mm		300 x 220x180 mm	
Net Weight	2.5 kg		5 kg	
Electrical Requirement	110V/60Hz	220V/50Hz	110V/60Hz	220V/50Hz
Catalogue No.	1601005-01	1601005-02	1601010-01	1601010-02
*1) Cooling time ?25min (20°C to-5°C) if the room temperature is lower than 30 °C				
*2) Cooling time ?30min (20°C to -10°C) if the room temperature is lower than 25 °C				

Accessories:

Model	Item	Description
DI-100.200-A-01	Dry Block A	Dry Block Type-A for DI-100/200 Series, 96×0.2ml
DI-100.200-B-02	Dry Block B	Dry Block Type-B for DI-100/200 Series, 54×0.5ml
DI-100.200-C-03	Dry Block C	Dry Block Type-C for DI-100/200 Series, 35×1.5ml
DI-100.200-D-04	Dry Block D	Dry Block Type-D for DI-100/200 Series, 35×2.0ml
DI-100.200-E-05	Dry Block E	Dry Block Type-E for DI-100/200 Series, 15×0.5ml+20×1.5ml
DI-100.200-F-06	Dry Block F	Dry Block Type-F for DI-100/200 Series, 24×Dia.??12mm tube
DI-100.200-G-07	Dry Block G	Dry Block Type-G for DI-100/200 Series, 12×15ml Falcon tube
DI-100.200-H-08	Dry Block H	Dry Block Type-H for DI-100/200 Series, 6×50ml Falcon tube
DI-100.200-I-09	Dry Block I	Dry Block Type-I for DI-100/200 Series, 103×67×30 Rectangular bath block
DI-100.200-J-10	Dry Block J	Dry Block Type-J for DI-100/200 Series, 96 wells microplate
DI-100.200-K-11	Dry Block K	Dry Block Type-K for DI-100/200 Series, 24×5.0ml tubes

Digital Dry Bath Incubator DI-300 Series

The Digital Dry Bath Incubator DI-300 series are ideal for incubation and activation of cultures, enzyme reactions, immunoassays, melting/boiling points and a wide variety of other laboratory procedures. DI-300DE is an innovative design accommodating two blocks with independent digital temperature control. Each block can be set at different temperatures - ideal for multiple users or for applications where samples have to be transferred between two temperatures very quickly.



Features:

- Exceptional temperature uniformity and accuracy
- Wide range of interchangeable aluminium blocks
- Heat up to 105°C, optional external temperature probe
- Blocks as accessories for all applications -- tubes, vials and micro plates
- Block extraction tool is supplied, allowing blocks to be removed easily
- Auto-stop and sound-alert after program completed

Model	DI-300		DI-300D		DI-300DE	
Temperature Range	RT+5°C to 105°C		-RT+5°C to 105°C		RT+5°C to 105°C	
Timing Range	1min to 99h59min		1min to 99h59min		1min to 99h59min	
Temperature Stability@100°C	±0.5°C		±0.5°C		±0.5°C	
Uniformity: within the block@37°C	±0.2°C		±0.2°C		±0.2°C	
Across similar block@37°C	----		±0.3°C		----	
Heating Time(25 to100°C)	~15min		~15min		~15min	
Display Accuracy	±0.1°C		±0.1°C		±0.1°C	
Block Quantity	1		2		2	
Net Weight	2.5kg		4.5kg		4.5kg	
Dimension	250 x 190 x130 mm		365 x 210 x150 mm		365 x 210 x150 mm	
Electrical Requirement	110V/60Hz	220V/50Hz	110V/60Hz	220V/50Hz	110V/60Hz	220V/50Hz
Catalogue No.	1601505-01	1601505-02	1601510-01	1601510-02	1601515-01	1601515-01

Microplate Incubator / Thermo Shaker DZ-100/DZ-200

The Microplate Incubator / Thermo Shaker DZ-100/DZ-100S are designed for shaking 1-4 standard 96-well plates in the thermostat mode. These machines use the multi-principle, which allows them to be used as 2 independent devices:



Incubator for lasting incubation without shaking of micro-quantities (insect, plant cell cultures, etc.) in immune plates (DZ-100/DZ-200)

Microplate thermo shaker for immuno chemistry and molecular diagnostics, especially when requires good result reproducibility and precise method regulation are particularly high (DZ-100S/DZ-200S).

A distinctive feature for the DZ-100S/DZ-200S and DZ-100/DZ-200 is two-side heating of micro test plates that allows achieving exact correspondence of the set and actual temperature in wells of the micro test plates.

Features:

1. LCD display. It is easy to set up and use
2. Heating plates above and below the microplates
3. Incubation up to 70°C in 0.1°C steps
4. Shakes and incubates two or four microplates simultaneously
5. Beep-signal and stop of shaking motion after program completion
6. Excellent temperature accuracy and uniformity across the plate

The devices can be used in:

1. Cyto chemistry — for in situ reactions
2. Immunochemistry — for immune fermentative reactions

3. Biochemistry — for enzyme and protein analysis

4. Molecular chemistry — for matrix analysis

Model	DZ-100S		DZ-100		DZ-200S		DZ-200	
Temperature Range	RT+5°C to 70°C		RT+5°C to 70°C		RT+5°C to 70°C		RT+5°C to 70°C	
Setting Range	5°C to 70°C		5°C to 70°C		5°C to 70°C		5°C to 70°C	
Timer	1min to 99h59min		1min to 99h59min		1min to 99h59min		1min to 99h59min	
Temp. Accuracy	±0.5°C		±0.5°C		±0.5°C		±0.5°C	
Display Accuracy	±0.1°C		±0.1°C		±0.1°C		±0.1°C	
Shaking Speed	100 to 1200rpm		----		100 to 1500rpm		----	
Heating Time(20 to 70°C)	?25min		?25min		?25min		?25min	
Platform Capacity	2 plates		2 plates		4 plates		4 plates	
Mixing Orbit	2 mm		----		2 mm		----	
Dimension	280 x 270 x150 mm		280 x 270 x150 mm		320 x 350 x185 mm		320 x 350 x185 mm	
Net Weight	6.5 kg		4 kg		9 kg		8 kg	
Electrical Requirement	110V/60Hz	220V/50Hz	110V/60Hz	220V/50Hz	110V/60Hz	220V/50Hz	110V/60Hz	220V/50Hz
Catalogue No.	1602005-01	1602005-02	1602010-01	1602010-02	1602015-01	1602015-02	1602020-01	1602020-01

Dry Block Thermo Shaker DS-200/300

The Dry Block Thermo Shaker DS-200/300 is a microprocessor-controlled product using advanced thermoelectric technique. With this technique, more stable and accurate temperature control is achieved. Perfectly controlled 3-dimensional mixing prevents spilling and lid wetting. Replacement is convenient with optional metal modules of various specifications configured for different types of microplates, tubes, and glass vials.



- Thermo shaker for microplates, tubes, and glass vials
- Fast shaking and mixing up to 3,000rpm
- Perfectly controlled 3-dimensional mixing prevents spilling and lid wetting
- 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 Aluminium blocks for user choosing

Model	DS-200		DS-300	
Mixing Frequency	300 to 3000 rpm		300 to 1700 rpm	
Mixing Orbit	2mm		3mm	
Speed Setting Resolution	10 rpm increment		10 rpm increment	
Mixing Accuracy	±25 rpm		±25 rpm	
Temp. Display Accuracy	±0.1°C		±0.1°C	
Mixing Speed	200 to 1500 rpm		200 to 1500 rpm	
Heating Time(25 to 100°C)	?12min		?12min	
Temperature Accuracy	±0.25°C at 37°C ±0.5°C at 95°C		±0.25°C at 37°C ±0.5°C at 95°C	
Temperature Range	RT+5°C to 100°C		RT+5°C to 100°C	
Time Setting	1min to 99h59min		1min to 99h59min	
Time Setting Resolution	1min		1min	
Short-Mix Function	Yes		Yes	
Continuous Working	Yes		Yes	
Programs	2		2	
Individual Program capacity	3steps		3steps	
Operation Voltage	24V DC150W		24V DC150W	
Dimension	230 x 170 x 165 mm		230 x 170 x 165 mm	
Net Weight	5.5 kg		5.5 kg	
Electrical Requirement	AC 100V	AC 240V	AC 100V	AC 240V
Catalogue No.	1602505-01	1602505-02	1602510-01	1602510-01

Dry Block Thermo Shaker DX-100/DX-100R

Dry Block Thermo Shaker DX-100/DX-100R designed for simultaneous heating, cooling and mixing of small samples, DX-100/DX-100R can be supplied with interchangeable blocks for micro tubes. Mixing, heating and cooling modes can be used either simultaneously or independently. The main body of the Mixing Block can be used with different kinds of blocks.



Features:

1. LCD display. It is easy to set up and use
2. Accurately control and display time, temperature and speed
3. Over-heating protection device ensures safety & reliability
4. Low noise working even under the speed of 1,500rpm
5. Conforms to CE safety standard
6. Peltier design of MSC-100 provides thermal control in a compact unit

Model	DX-100	DX-100R
Temperature Range	RT+5°C to 100°C	0°C to 100°C if Ambient temp. ?20°C 4°C to 100°C if Ambient temp. ?25°C 10°C~100°C if Ambienttemp. ?30°C
Temperature Range	5°C to 100°C	0°C to 100°C
Timer	1min to 99h59min	1min to 99h59min
Temp. Contro Accuracy	±0.5°C	±0.5°C
Display Accuracy	±0.1°C	±0.1°C
Mixing Speed	200 to 1500 rpm	200 to 1500 rpm
Heating Time(25 to100°C)	?15min	?15min
Cooling Time	----	?30min (from RT. toRT.-20°C) ?15min (from 100°C to20°C)
Mixing Orbit	2mm	2mm
Dimension	300 x 220 x170 mm	300 x 220 x170 mm
Net Weight	7 kg	8.5 kg
Electrical Requirement	110V / 60Hz 220V / 50Hz	110V / 60Hz 220V / 50Hz
Catalogue No.	1603005-01 1603005-02	1603010-01 1603010-02

Dry Bath Incubator DR-2000

DR-2000 Programmable dry bath incubator applies the thermal cycle's heating lid technology, Unique dual block design operates via touch screen which is the most advanced and luxury dry block heating product in the world.



Features:

- Touch screen allows for easy to read and easy programming and easy to use
- Hold a heating lid, 60 user programmable settings
- Programmable system, program link functions, it can be runned some simple PCR tests
- Block extraction tool is supplied, allowing blocks to be removed easily

Model	DR-2000	
Temperature Control Range	RT+5°C to 100°C	
Timing Range	1min to 99h59min	
Uniformity: within one block @ 37°C	±0.2°C	
Across similar blocks@ 37°C	±0.3°C	
Temp. Control Accuracy	±0.5°C	
Display Accuracy	0.1°C	
Heating Time (25°C to Max. Temp.)	?15min	
Dimension	420x225x145 mm	
Net Weight	5.5kg	
Electrical Requirement	11V/60Hz	220V/50Hz
Catalogue No.	1603505-01	1603505-02

