



Allsheng

Catalogue
2016~2017

ALL FOR LIFE SCIENCE

Hangzhou Allsheng Instruments Co., Ltd.



– All For Life Science –

About ALLSHENG



Hangzhou Allsheng Instruments Co.,Ltd. was established in 2006, Allsheng company is a professional engaged in laboratory instrument, molecular biology instrument and medical equipment for R&D, production, sales and services enterprises. Our company is located in Hangzhou city, China and employs more than 110 persons.

With strong R&D and senior management team, Allsheng products win a good reputation from the market. Benefit from its unique design and superior performance, you can easily find Allsheng's products in Europe, U.S.A., Southeast Asia, Korea, Japan, the Middle East, and so on.

Our Products Focused On:

Biological Sample Pre-Processing Equipments

Nucleic Acid Purification System, Homogenizer System, and Plate Sealer etc.

Molecular Biology Instruments

Micro-Spectrophotometer, Plate Reader and Washer, FISH Hybridization, Fluorometer, Tube Luminometer, Test Strip Reader, etc.

Laboratory Instruments

Dry Bath Incubator, Thermo Shaker Incubator, Orbital Shaker, Centrifuge, Bacti-Cinerator and Beads Sterilizer, Sample Concentration etc..

Medical Equipment

Gel Card Incubator and Centrifuge, Elisa Reader and Washer

Our Advantage:

Customization

Complete certification and patent designed

Compliance with advanced world standards and requirements

Superior after-sale services

ISO9001 / ISO13485 and CE certificates

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Biological Sample Pre-Processing Equipments



01 Bioprep-6/Bioprep-24 Homogenizer

Description

Fast, effective and reproducible homogenization of a wide range of samples, including tissues and cells hard to lyse. They also own extraordinary power for the processing of even impact resistant samples such as bones or cartilage. The Bioprep-6 and Bioprep-24 are ideal solutions for releasing DNA, RNA, Proteins, Enzymes, etc. from very tough samples while still retaining molecular integrity

Features

■ Highlights

1. "3D Rotating High Speed Motion" for quick disruption of those fibrous tissues and resistant cells
2. A wide range of rotation speed settings from 4 to 7 m/s
3. Brushless motor realizing no brush particle generation
4. Easy to remove sample tube holder and fix sample tubes
5. Easy to monitor the disruption process through the clear lid
6. Simultaneously homogenization:
Bioprep-6 6*2ml tubes or 2*5ml tubes
Bioprep-24 24*2ml tubes or 12*5ml tubes
7. Disposable tubes ensure no threat of cross-contamination or sample degradation
8. The Bioprep-6 and Bioprep-24 vigorously and uniformly shakes the tubes providing an efficient, consistent, high-yield and quality homogenization usually in 35s or less

■ Bioprep-6 homogenizer

1. Built upon the innovative design and designed for personal use
2. Broad performance range -- speed settings from 4 to 7 m/s
3. Small footprint -- requires minimal bench space
4. Holds 6x0.5ml/1.5ml/2ml or 2x5ml tubes
5. Patent design for the damping institutions and hold ultra quiet operation, even at the highest speed running

■ Grinding tubes

1. Bioprep-6: Simultaneous processing 6*2ml/1.5ml/0.5ml tubes or 2*5ml tubes
2. Bioprep-24: Simultaneous processing 24*2ml/1.5ml/0.5ml tubes or 12*5ml tubes
3. The grinding tubes must be with high toughness and low temperature resistance

Bioprep-6



Bioprep-24



01 Bioprep-6/Bioprep-24 Homogenizer

How to use beads

1.4mm & 2.8mm Ceramic Beads	3mm & 6mm Metal Beads	1mm & 3mm Glass Beads
Ideal for soft animal, plant or human tissues: <ul style="list-style-type: none"> • brain • liver • skin • leaves • gonad • muscle, etc. 	Ideal for any hard tissue types: <ul style="list-style-type: none"> • hair • teeth • bones • seeds • corn • rice • nail, etc 	Ideal for microorganisms Optimal for: <ul style="list-style-type: none"> • spores • fungi • yeast • e-coli, etc.
We will offer the Lysing Kits which are available with Plastic or Stainless Steel pre-filled sample tubes in future		

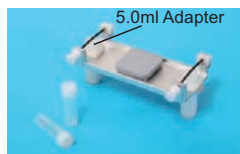
01

Holder and Adapter

Holder for 6*2.0ml and for 2*5.0ml
FOR Bioprep-6



Holder and 2-3*2.0ml Adapter



Holder and 2-5.0ml Adapter



02

Rotor Adapter

Rotor for 24*2.0ml / Rotor for 12*5.0ml
FOR Bioprep-24



24*2.0ml rotor



12*5.0ml rotor

03

Applications:

Any researcher who requires genomic DNA, total RNA or recombinant protein as a starting material will benefit from the unit system.

- Northern blot analysis, qPCR and microarrays
- Optimization of recombinant protein expression
- Library synthesis and Southern blots
- RT-PCR and differential display
- Pathogen screening of soil or water
- Environmental surveys
- Verification of food safety

04

Typical Samples:

1. Bone, brain, tumors
2. Bacteria gram + or -
3. Yeast, fungi, spores
4. Seeds, roots
5. Feces, swabs
6. Soil, sediments



Specification

Type	Bioprep-6	Bioprep-24
Display	LCD	OLED
Speed Range (m/s)	4.00m/s~7.00m/s, increment 0.05m/s	4.00m/s~7.00m/s, increment 0.05m/s
Speed Range (rpm)	2500rpm -- 4350rpm, increment 10rpm	2430rpm -- 4260rpm, increment 10rpm
Cycle Duration	1s -- 90s, increment 1s	1s -- 90s, increment 1s
Pause time	1s -- 90s, increment 1s	1s -- 120s, increment 1s
Cycle	10	10
Programmable	1	50
Samples	6 x 2ml/1.5ml/0.5ml or 2 x 5ml grinding tube	24 x 2ml/1.5ml/0.5ml or 12 x 5ml grinding tube
Acceleration Time	<2s	<4s
Deceleration Time	<2s	<4s
Noise	<65 db	<70 db
Power	144W	500W
Dimensions (W×D×H)	354 × 218 × 206 mm	280 × 360 × 385 mm
Weight (kg)	8.9 kg	25.0kg
Power Supply	AC100~240V, 50/60Hz	AC100~240V, 50/60Hz

Ordering information

No.	Code	Description
01	AS-13010-00	Bioprep-24 Homogenizer AC100~240V, 50/60Hz
02	AS-13020-00	Bioprep-6 Homogenizer AC100~240V, 50/60Hz
03	AS-13011-01	Rotor for 24 x 2.0ml (Bioprep-24)
04	AS-13011-02	Rotor for 6 x 5.0ml (Bioprep-24)--Produced before Dec. 2016
05	AS-13011-30	Rotor for 12 x 5.0ml (Bioprep-24)--Produced after Dec. 2016
06	AS-13021-01	Holder for tubes (Bioprep-6)
07	AS-13021-02	Adapter for 3 x 2.0ml (Bioprep-6)
08	AS-13021-03	Adapter for 5.0ml (Bioprep-6)
09	AS-13021-04	DC24V, 6A Adapter (Bioprep-6)
10	AS-13011-03	2.0ml Grinding tube
11	AS-13011-04	5.0ml Grinding tube
12	AS-13011-05	Φ1.4mm Ceramic beads
13	AS-13011-06	Φ2.8mm Ceramic beads
14	AS-13011-07	Φ3mm Metal beads
15	AS-13011-08	Φ6mm Metal beads
16	AS-13011-09	Φ1mm Glass beads
17	AS-13011-10	Φ3mm Glass beads

02 Auto-Pure32A/Auto-Pure20A/Auto-Pure20B Nucleic Acid Purification System

Description

Auto-Pure32A/Auto-Pure20A/Auto-Pure20B is a bench top device for DNA and RNA purification by using magnetic separation technology from different samples, such as blood, cultured cells or bacteria, tissues, cell-free body fluids and plant samples. The device is capable of using magnetic rods to transfer particles through the various purification phases of binding, mixing, washing and elution, offering a solution with minimized hands-on time. The DNA and RNA purification is of high quality and high molecular weight.

Features

1. Easily to use with 7 inch touch screen
2. Very simple operation (easy to install, operate, maintain) without computer
3. Very fast extraction protocol, 15~40 minutes / cycle depending on sample type and method
4. Universal built-in program for easy using and high purity and excellent yield of nucleic acid
5. UV lamp to avoid cross contamination
6. Open system can optimize purification proposal according to various magnetic beads kits
7. Drawer design to prevent possible injuries
8. Capable of extracting 1~20 samples or 1~32samples per run, and process samples up to 1ml, 3ml and 5ml

Auto-Pure Series



■ Process samples up to 1ml, 3ml or 5ml

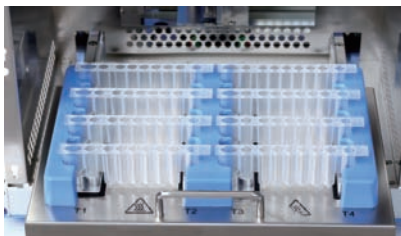
With the Auto-Pure series can process up to 32 samples per run when the working volume is up to 1ml. With the ability to change the instrument configuration, the customers can elevate the sample processing volume up to 3ml or 5ml to obtain higher yields of the purified product, and the throughput up to 20 samples.

Modular designs

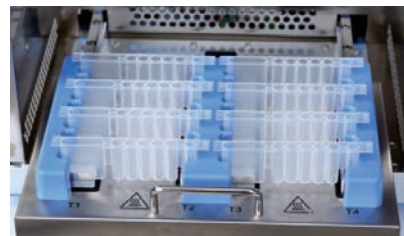
Process samples up to 1ml



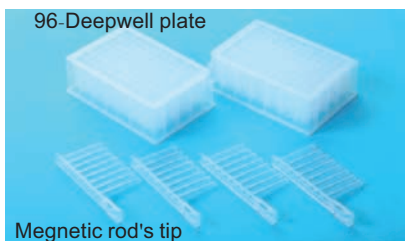
Process samples up to 3ml



Process samples up to 5ml



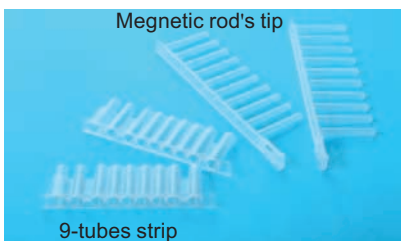
96-Deepwell plate



Magnetic rod's tip

Auto-Pure32A consumable

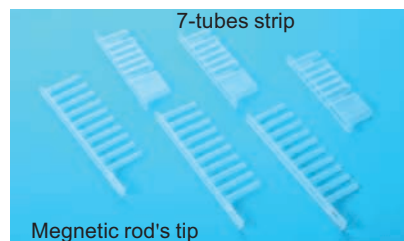
Magnetic rod's tip



9-tubes strip

Auto-Pure20A consumable

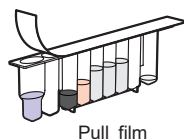
7-tubes strip



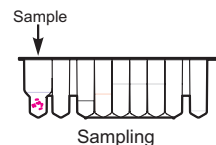
Magnetic rod's tip

Auto-Pure20B consumable

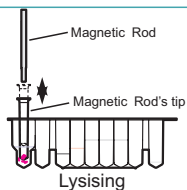
Magnetic Bead Extraction (Auto-Pure20A)

01
Sample

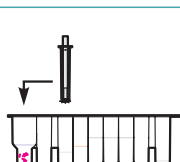
Pull film



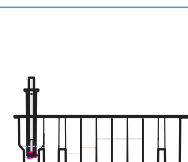
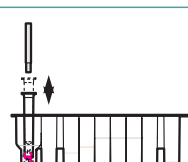
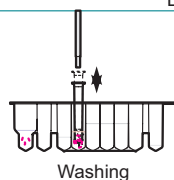
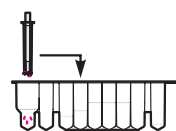
Sampling

02
Lysing
Binding

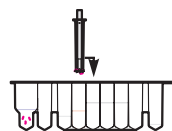
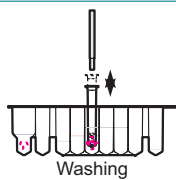
Lysing



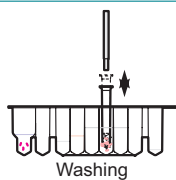
Binding

03
Washing

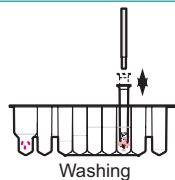
Washing

04
Washing

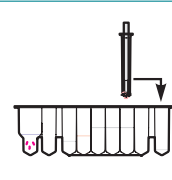
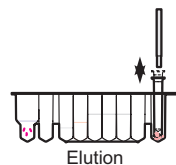
Washing



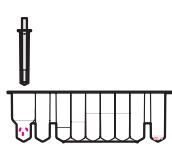
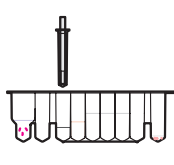
Washing



Washing

05
Elution

Elution



02

Special features for Auto-Pure20A

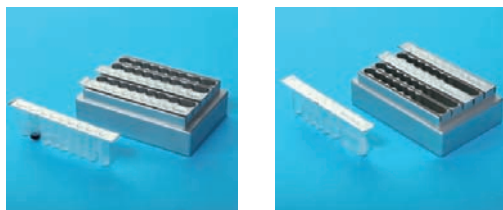
1. Patented design of 9-tubes strip
2. Process samples up to 3ml and Max.sample volume 1.2ml
3. Reducing reagent waste and good for research use



Matching product for Auto-Pure series: SealBio-2
SealBio-2 of Adapter for Auto-Pure tube strips



SealBio-2 Plate Sealer



Adapter for Auto-Pure20 series tube strips

Special features for Auto-Pure20B

1. Patented design for 5ml tubes strip
2. Process samples up to 5ml and Max.sample volume 2ml
4. Patented design for line-mixing the sample, it's good for cell free fetal DNA and next-generation sequencing technology and non-invasive prenatal diagnosis



Matching product for Auto-Pure20 series: FCM-1
FCM-1 Film Cutting Machine



FCM-1

1. Easy to operate; To push the button once and the work station will move back and forth once
2. The motor have a self-locking function, to protect user.
3. Hold an adapter for SealBio-2. After filming and take it onto the machine, then be able to cut the film
4. Push the button one time, the work-station will move one time
5. Specification:
 - 1) Type: FCM-1
 - 2) Power: 10W
 - 3) Cutting time: 2.5s
 - 4) Weight: 1.5kg
 - 5) Dimensions: 346x108x148.5mm

Specification

Type	Auto-Pure32A	Auto-Pure20A	Auto-Pure20B
Throughput	1~32	1~20	1~20
Process volume	50~1000ul	50~3000ul	50~5000ul
Collection efficiency	>95%	>95%	>95%
Magnetic rod number	32	20	20
Purification accuracy	100 copy sample positive rate>95%	100 copy sample positive rate>95%	100 copy sample positive rate>95%
Stability	CV<5%	CV<5%	CV<5%
Plate types	96 Deepwell plate	3ml tube strip	5ml tube strip
Heating for lysis tube	Ambient temperature~120°C	Ambient temperature~120°C	Ambient temperature~120°C
Heating for elution tube	Ambient temperature~120°C	Ambient temperature~120°C	Ambient temperature~120°C
Operation	7 inch color touch screen	7 inch color touch screen	7 inch color touch screen
Extraction steps	Lysis, binding, washing and elution	Lysis, binding, washing and elution	Lysis, binding, washing and elution
Storage Capacity	more than 100 programs	more than 100 programs	more than 100 programs
Protocol Management	Create, edit, delete, protocol mode	Create, edit, delete, protocol mode	Create, edit, delete, protocol mode
Pollution Control	UV light	UV light	UV light
Lighting	Yes	Yes	Yes
Extension interface	4 standard USB port, built-in SD card	4 standard USB port, built-in SD card	4 standard USB port, built-in SD card
Exhaust	Fan	Fan	Fan
Power Supply	450W	450W	450W
Dimensions	400 × 470 × 450 mm	400 × 520 × 450 mm	400 × 520 × 450 mm
Weight	25Kg	28Kg	28Kg

Ordering information

No.	Code	Description
01	AS-17030-00	Auto-Pure32A Nucleic Acid Purification System, AC120V/240V, 50/60Hz
02	AS-17040-00	Auto-Pure20A Nucleic Acid Purification System, AC120V/240V, 50/60Hz
03	AS-17050-00	Auto-Pure20B Nucleic Acid Purification System, AC120V/240V, 50/60Hz
04	AS-17031-01	96-Deepwell plate for Auto-Pure32A
05	AS-17031-02	Magnetic rod's tip for Auto-Pure32A
06	AS-17041-01	Tube strips for Auto-Pure20A (Special design) – 3ml
07	AS-17041-02	Magnetic rod's tip for Auto-Pure20A / Auto-Pure20B
08	AS-17051-01	Tube strips for Auto-Pure20B (Special design) – 5ml
09	AS-17100-00	FCM-1 Film Cutting Machine
10	AS-15020-00	SealBio-2 Plate Sealer
11	AS-15021-03	SBA-3 Weighted sealing platen
12	AS-15021-04	Adapter for Auto-Pure20 series tube strips
13	AS-15021-11	Seal-150 Peelable clear Seal
14	AS-15021-12	Seal-200 Peelable Seal for storage
15	AS-15021-13	Seal-300 Pierce Aluminum heating sealing film

03 SealBio-2 Semi Automated Plate Sealer

Description

SealBio-2 Plate Sealer is a semi-automatic thermal sealer which is ideal for the low to medium throughput laboratory that requires uniform and consistent sealing of micro-plates. Unlike manual plate sealer, the SealBio-2 produces repeatable plate seals. With variable temperature and time settings, sealing conditions are easily optimised to guarantee consistent result, eliminating sample loss. The SealBio-2 can be applied in product quality control of many manufacture enterprises such as plastic film, food, medical, inspection institute, scholastic scientific research and teaching experiment. Offering complete versatility, the SealBio-2 will accept a full range of plates for PCR, assay or storage applications.

Features

■ Highlights

1. Format different micro well plates and heat seals
2. Adjustable Sealing Temperature: 80 - 200°C
3. OLED screen, high light and no visual angle limit
4. Plate adapters allow use of PCR plate or virtually any ANSI microplate

■ Energy Saving Functions

1. When the SealBio-2 is left idle more than 60min, it will automatically switch into stand-by mode during when the temperature of the heating element is reduced to 60°C to save energy
2. When the SealBio-2 is left idle more than 120min, it will switch off automatically for safe. It will switch off the display and the heating element. then, the user can awaken the machine by pushing any button

■ Controls

Sealing time and temperature can be set by using the control knob, OLED display screen, high light and no visual angle limit.

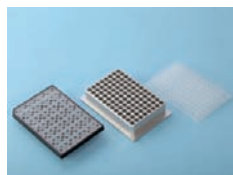
1. Sealing time and temperature
2. Sealing pressure can be adjustable
3. Automatic counting function

■ Security

1. If a hand or objects stuck in the drawer when it's moving, the drawer motor will automatically reverse. This feature prevents injury to the user and the unit
2. Special and smart design on the drawer, it can be detached from the main device. So user can maintain or clean the heating element easily



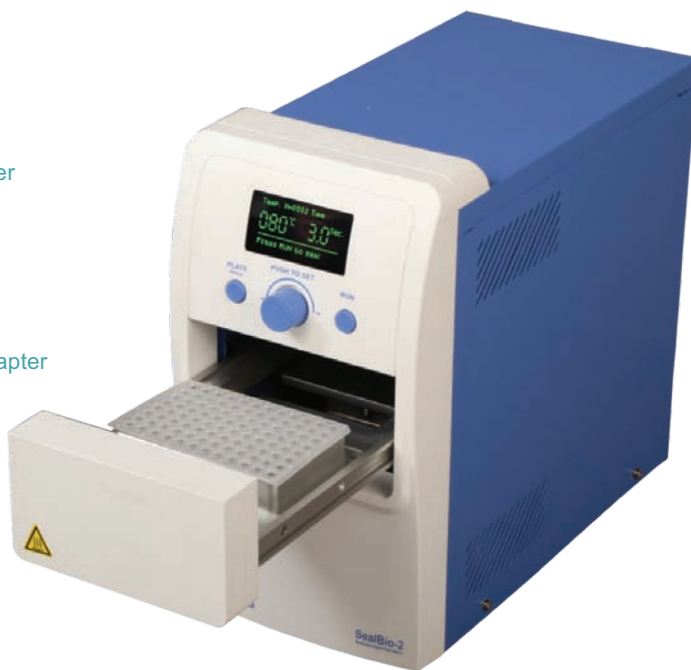
01
SBA-1
Standard plate adapter



02
SBA-2
96-well PCR plate adapter



03
SBA-3
Weighted seal platen



Easy to use



Step.1 Pull the drawer



Step.2 Put the adapter plate



Step.3-1 Put a sealing film



Step.3-2 Put the weighted seal platen if the film is curly



Step.4 Press "RUN"

Remark: When using the weighted seal platen, the recommended sealing time should be increased by 1 second!

Specification

Display	OLED
Sealing temperature	80~200°C (increment 1.0°C)
Temperature accuracy	±1.0°C
Temperature uniformity	±1.0°C
Sealing time	0.5~10s (increment 0.1s)
Seal plate heights	9 to 48mm
Input Power	300W
Dimension (D x W x H)mm	370 × 178 × 330
Weight	9.6kg
Compatible Plate Materials	PP (Polypropylene), PS (Polystyrene), PE (Polyethylene)
Compatible plate types	SBS Standard plates, Deep-well plates, PCR plates (Skirted, semi-skirted and no-skirted formats)
Heating Sealing Films & Foils	Foil-polypropylene laminate, Clear polyester-polypropylene laminate, Clear polymer, Thin clear polymer

Ordering information

No.	Code	Description
01	AS-15020-00	SealBio-2 AC220V or AC120V, 50/60Hz, 300W
02	AS-15021-01	SBA-1 Standard plate adapter
03	AS-15021-02	SBA-2 96-well PCR plate adapter
04	AS-15021-03	SBA-3 Weighted sealing platen
05	AS-15021-11	Seal-150 Peelable clear Seal
06	AS-15021-12	Seal-200 Peelable Seal for storage
07	AS-15021-13	Seal-300 Pierce Aluminum heating sealing film



|| Molecular Biology Instruments



01 Nano-100 / Nano-200 / Nano-300 Micro-Spectrophotometer

Nano-100



Nano-200



Nano-300



Description

1. User-friendly software, easy to use

It is easy to use, free software updates are available

2. Micro-volumes measuring

Only require 0.5~2 μ l sample to accurately determine nucleic acids, proteins

3. Fast and easy measurements

Turn on and instantly measure without lamp warm up time; Easy measurement within 8 sec

4. Long life's Xenon flash lamp

Xenon flash lamp, 10 flashes, up to 10 years, no cells or cuvettes, no dilutions and expensive consumables

5. No consumables required

Direct microvolume measurements from 1~2 μ L of sample. Eliminates the need for expensive accessories

6. No computer required and with touch screen (Nano-200, Nano-300)

Nano-300 is equipped with Android system operation

7. The Nano-100 / Nano-300 are full range of wavelength (200-800nm) detection ability; The Nano-200 is a basic UV spectrophotometer specifically designed (only three types of wavelength 230nm, 260nm and 280nm) for nucleic acids and proteins

01 Nano-100 / Nano-200 / Nano-300 Micro-Spectrophotometer

01

NANO-100 Highlights

1. Turn on and instantly measure without lamp warm up time;
Full scan capability from 200-800nm within 5 sec
2. Detects Nucleic Acids up to 4500ng/ul (dsDNA)
3. 3864-Element linear silicon CCD array

03

NANO-300 Highlights

1. Nano-300 is an improved Micro-Spectrophotometer based on Nano-100 with 200-800nm. It is added a function of bacterium cell concentration detection (OD600)
2. Android system operation, 7 inch touch screen no computer, APP soft, simple interface, easy to use
3. Turn on and instantly measure without lamp warm up time;
Full scan capability from 200-800nm within 6 sec
4. The data can be printed with built-in printer, and can output via SD-RAM Card and USB memory
5. When the Nano-300 is idly left more than 5mins, it will switch off automatically. Then, the user can awake the machine by touching the screen

02

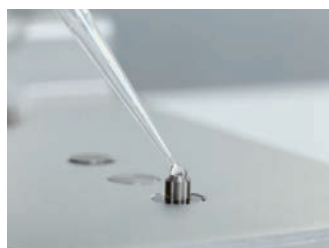
NANO-200 Highlights

1. Nano-200 is a basic micro-volume UV spectrophotometer designed (only 3 types of wavelength: 230nm, 260nm and 280nm) for the measurement of nucleic acids and proteins
2. Touch screen and panel operation with built-in controls and software, without computer
3. The data can be printed with built-in printer, the data can output via SD-RAM Card and USB memory
4. Measure nucleic acids concentration at 260nm, and purity using the 260/280 ratio. Measure purified protein at 280nm

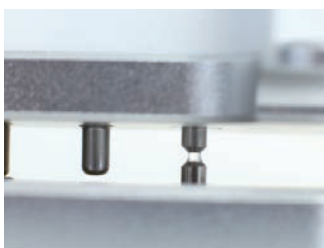


04

Easy Handling:



■ Adding sample

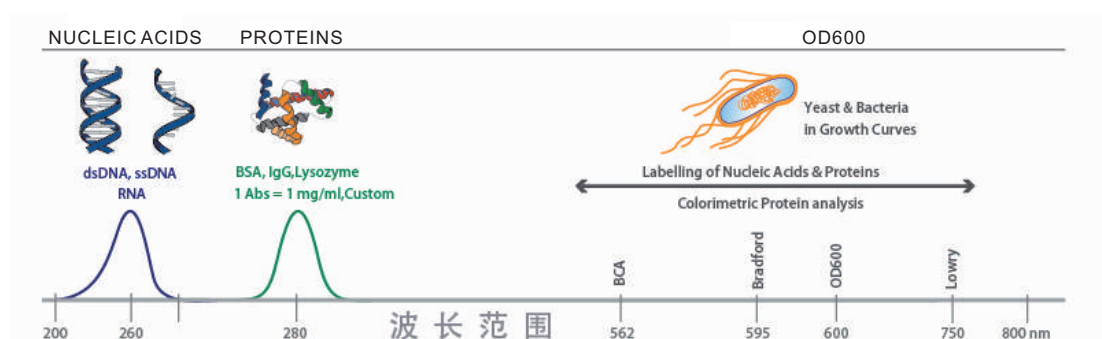


■ Measuring sample



■ quick and easy cleaning

Applications



Specification

Type	Nano-100	Nano-200	Nano-300
Wavelength Range	200-800nm	230nm, 260nm, 280nm	200-800nm
Minimum Sample Size	0.5-2.0μl	0.5-2.0μl	0.5-2.0μl
Path Length	0.2mm (High concentration) 1.0mm (Ordinary concentration)	0.2mm (High concentration) 1.0mm (Ordinary concentration)	0.2mm (High concentration) 1.0mm (Ordinary concentration)
Light Source	Xenon flash lamp	Xenon flash lamp	Xenon flash lamp
Detector Type	3864-Element linear CCD array	Photodiode	3864-Element linear CCD array
Wavelength Accuracy	1nm	—	1nm
Spectral Resolution	≤3nm (FWHM at Hg546nm)	—	≤3nm (FWHM at Hg546nm)
Absorbance Precision	0.003Abs	0.003Abs	0.003Abs
Absorbance Accuracy	1% (7.332Abs at 260nm)	1% (7.332Abs at 260nm)	1% (7.332Abs at 260nm)
Absorbance Range	0.02 - 90A	0.02 - 80A	0.02 - 100A
Detects Nucleic Acid up to	2-4500ng/ul (dsDNA)	10-4000ng/ul (dsDNA)	10-5000ng/ul (dsDNA)
Measurement Time	<8S	<8S	<6S
Data Output	Connect PC	USB, SD-RAM Card	USB, SD-RAM Card
Sample Pedestal Materia	Aluminum alloy and Quartz fiber	Aluminum alloy and Quartz fiber	Aluminum alloy and Quartz fiber
Operating Voltage	24V DC	24V DC	24V DC
Operating Power Consumption	20W	40W	40W
Standby Power Consumption	5W	5W	5W
Dimension (W x D x H)mm	200 x 250 x 166	210 x 268 x 181	210 x 268 x 181
Weight	2.6kg	2.8kg	2.8kg
Software Compatibility	WinXP, Win7, Win8	Win CE	Android System
OD600nm Measurement			
Light Source	—	—	LED
Wavelength Range	—	—	600±8nm
Absorbance Range	—	—	0-4A

Ordering information

No.	Code	Description
01	AS-11010-00	Nano-100 Micro-Spectrophotometer, DC24V 5W
02	AS-11030-00	Nano-200 Micro-Spectrophotometer, DC24V 5W
03	AS-11020-00	Nano-300 Micro-Spectrophotometer, DC24V 5W
04	AS-11021-01	Cuvette for Nano-300

We are developing another new version's micro-spectrophotometer, please waiting...

02 Fluo-100 Fluorometer



01

Fluorometer technical background

Our nano series Micro-Spectrophotometer measure the concentration and purity of the sample, because it is able to measure the absorbance of the whole ingredient (such as DNA, RNA, oligos and so on) of the sample at 260nm, that may make the read inaccurate. While the fluorometer measure the fluorescence intensity of the fluorescent reagent which combine with the target molecule to read the concentration of sample. Generally, the read is lower than Nano series products but much accuracy than it

The sensitivity of Nano series products are above 5ng/ul, and while the fluorometer is 0.5pg/ul in measuring DNA concentration. It is important and necessary for the most applications to read the lower and accuracy concentration of the sample. Using the Fluo-100 fluorometer with the quantitation kit can measure the sample concentration rapidly, sensitively and accurately



02

Fluo-100 Simple, easy to use and applications

The Fluo-100 is a dual-channel fluorometer, it provides high-sensitive fluorescent detection when quantifying nucleic acids and proteins, simple and cost to operate Applications:

1. The sample is scarce and difficult in processing
2. The low quantity of DNA, RNA, or protein after extraction
3. The sample will be used in the expensive experiments: qPCR, PCR cloning, transfection, the next generation sequencing and etc.

03

Fluo-100 Highlights

1. Simple – 4.3 inch touch screen, small and easy to use
2. Easy measurement within 3 sec for DNA, RNA, and protein
3. High sensitivity – Lowest DNA detection limit is 0.5pg/ul
4. Two optical channels – Equipped with two fluorescence channels for nucleic acid, protein quantitation in one detection
5. Linear Dynamic Range--Five orders of magnitude.
6. Opening system--You can match the instrument with the reagent you choose
7. It can save at most 1,000 data and output data by USB port
8. Adapter: 0.5ml qPCR tube adapter
0.2ml qPCR tube adapter

04

Two detection models of Fluo-100

Code	Light	Excitation Filters	Emission Filters
Fluo-100A	UV	365±20nm	420-480nm (60nm)
	Blue	460±20nm	525-570nm (45nm)
Fluo-100B	Blue	460±20nm	525-570nm (45nm)
	Red	625±10nm	670-725nm (55nm)
Fluo-100C	Blue	460±20nm	525-570nm (45nm)
	Green	525±20nm	575-640nm (65nm)

05

Fluo-100 Quantitation kit

High sensitivity of dsDNA Quantitation Kit: 0.2--100ng

High sensitivity of ssDNA Quantitation Kit: 1--200ng

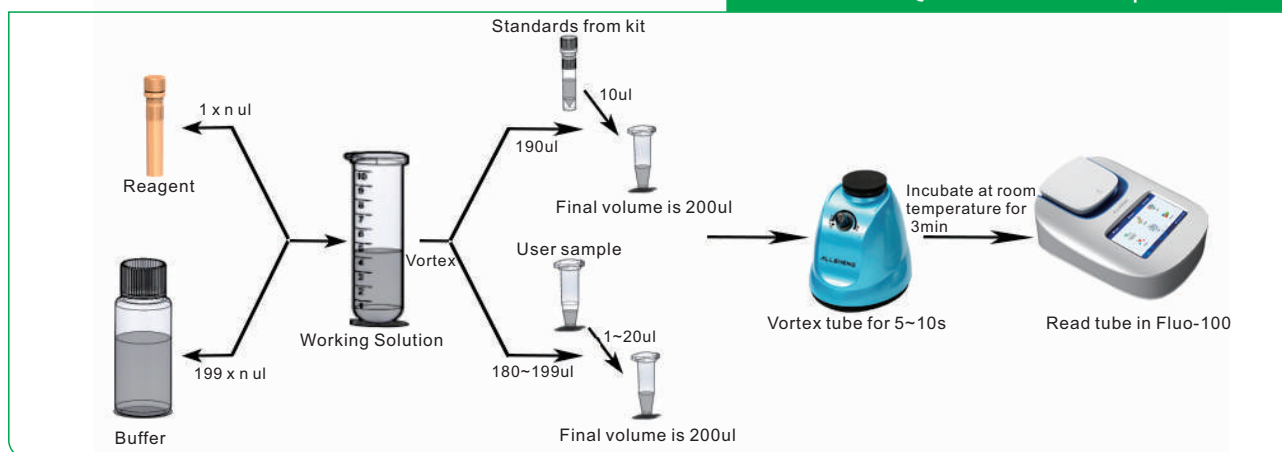
Broad range of dsDNA Quantitation Kit: 100--1600ng

Protein Quantitation Kit is researching

Specification

Light source	LED
Dynamic range	Five orders of magnitude
Linear Dynamic Range	$R^2 > 0.995$
Detector	Photodiode
Repeatability	<1.5%
Stability	<1.5%
Sensitivity	dsDNA: 0.5ng/ml
Measurement speed	3s (Once)
Dimension (W×D×H)mm	194 × 155 × 72.5 mm
Weight (kg)	0.4Kg

Fluo-100 Quantitation kit operation



Application of different fluorescence channel

Channel	Excitation Filters	Normal kits	Applications
UV channel	365±20nm	Hoechst 33258, 4-MU, EnZCheK Caspase	Nuclear acid quantification, Plant GUS reporter gene detection, Poptosis detection
Blue channel	460±20nm	PicoGreen®, oligreen, RiboGreen®, GFP, Protein, Fluorescein, Quant-iT™	dsDNA, ssDNA, RNA quantification, GFP gene detection, Fluorescein detection, Protein detection
Green channel	525±20nm	Rhodamine, Cy3, RFP Vybrant Cytotoxicity	Rhodamine detection, Cy-3 fluorescence labeling detection, RFP gene detection, Cell activity poison detection
Red channel	625±10nm	Cy5, Quant-iT RNA	Cy-5 fluorescence labeling detection, RNA quantification

Ordering information

Code	Description	Code	Description
AS-18010-00	Fluo-100A Fluorometer, DC12V 1A	RS-FL0101-S	High-sensitivity dsDNA Quantitation kits (100 assays)
AS-18020-00	Fluo-100B Fluorometer, DC12V 1A	RS-FL0101-M	High-sensitivity dsDNA Quantitation kits (200 assays)
AS-18030-00	Fluo-100C Fluorometer, DC12V 1A	RS-FL0101-L	High-sensitivity dsDNA Quantitation kits (1000 assays)
AS-18011-01	Adapter for 0.5ml qPCR tube (Standard)	RS-FL0102-S	Broad-range dsDNA Quantitation kits (100 assays)
AS-18011-02	Adapter for 0.2ml qPCR tube (Options)	RS-FL0102-M	Broad-range dsDNA Quantitation kits (200 assays)
		RS-FL0102-L	Broad-range dsDNA Quantitation kits (1000 assays)
		RS-FL0103-S	High-sensitivity ssDNA Quantitation kits (100 assays)
		RS-FL0103-M	High-sensitivity ssDNA Quantitation kits (200 assays)
		RS-FL0103-L	High-sensitivity ssDNA Quantitation kits (1000 assays)

03 AMR-100 Microplate Reader



Description

AMR-100 Microplate Reader is a reliable and robust instrument for a wide variety of research and clinical applications. It reads various kinds of 96-wells plates and equipped with shaking function. It can be used as a stand alone instrument or under PC control with regular or APP software. The software is easy-to-use..

AMR-100 Microplate Reader is a 8-channel absorbance microplate reader that provides not only accurate, reproducible and fast measurements, but also offer innovative design with its easy-to-use control and data analysis software. It is ideal for a variety of ELISA applications in the biology laboratory.

1. Easy of use with 7 inch touch screen together with 3 external keys
2. A broad wavelength range of 340-750nm
3. Able to use individually or connect with PC and export results
4. Absorbance range: 0.0~4.000Abs
5. 8 positions optical filter wheel, equipped with 4 standard optical filters
6. Rapid and accurate measurement of 96-well plates within 6 seconds
7. 8-channel ELISA reader for fast measurements
8. Additional reference channel for optimized light intensity
9. Endpoint, kinetic and multi-label measurements for a variety of applications
10. Shaking with variable time and speed
11. PC software, APP software and built-in software for powerful and validated data analysis

Specification

Display	7 inch touch screen (800x480 dots)
Light source	Quartz-halogen lamp 6V/10W
Wavelength	340-750nm
Optical filter	Equipped with filters: 405,450,492,630nm
Half-bandwidth of filters	3~9nm
Read-out range	0~4.000Abs
Linearity (405nm)	0~2.000Abs $\leq \pm 1\%$, 2~4.000Abs $\leq \pm 2\%$
Resolution	0.001Abs
Accuracy (405nm)	$\pm 1\%$ (0-3Abs); $\pm 2\%$ (3-4Abs)
Precision(405nm)	CV $\leq 0.2\%$ (0-3Abs); CV $\leq 1\%$ (3-4Abs)
Test speed	<6s for 96 wells plate
Incubator	No
Shaking	3 modes shaking: slow, medium and fast
User interface	Integrated software or PC control software
Operation	Touch screen, 3 pcs external keys
Storage	200 programs and 100,000 test records
Ports	3 USB ports, for PC, printer and USB-disk
Power supply	AC100~240V, 50~60Hz, 2A
Dimensions (W x D x H)	440 x 295 x 225 mm
Weight (kg)	10Kg

01

AMR-100 Highlights

1. Easily use with 7 inch touch screen together with 3 external keys
2. It keeps with high visual and logical user interface of software, it can be offered a comprehensive inbuilt calculations, such as blank subtraction, quantitative curve fit, quantitative classification and kinetic calculations, as well as the versatile reporting tool and make data reduction



AMR-100 Operation

Ordering information

No.	Code	Description	No.	Code	Description
01	AS-16050-00	AMR-100 Microplate Reader	10	AS-16051-09	Optical filter 578nm
02	AS-16051-01	Optical filter 340nm	11	AS-16051-10	Optical filter 590nm
03	AS-16051-02	Optical filter 380nm	12	AS-16051-11	Optical filter 595nm
04	AS-16051-03	Optical filter 405m (Standard)	13	AS-16051-12	Optical filter 630nm (Standard)
05	AS-16051-04	Optical filter 415nm	14	AS-16051-13	Optical filter 650nm
06	AS-16051-05	Optical filter 450nm (Standard)	15	AS-16051-14	Optical filter 690nm
07	AS-16051-06	Optical filter 492nm (Standard)	16	AS-16051-25	Halogen lamp
08	AS-16051-07	Optical filter 540nm	17	AS-16051-26	Thermal printer
09	AS-16051-08	Optical filter 570nm	18	AS-16051-27	Thermal paper

04 APW-100 Microplate Washer



Features

1. Low residual liquid, each well $\leq 0.5\mu\text{l}$
2. Compatible for microplates: flat, U, V, C bottom
3. 4.3 inch color LCD display, easy to operate
4. Washing head position can accurate to 0.1mm
5. Wash parameters can be set to make sure the best washing effect
6. Support external U-disk, for program exporting
7. 100 programs can be saved
8. Uniform volume mark make it easy to measure the liquid
9. Automatic alarm for full liquid
10. Strainer in the pipeline and automatic washing functions avoid the liquid blocking the pipeline

Specification

Residual liquid	$\leq 0.5\mu\text{l}$
Washing heads	1x8 or 1x12 heads
Plate types	Flat, U, V, C bottom
Washing method	Central, two points and multi points
Washing volume	50-2000 μl , increase by 50 μl
Washing times	99 times
Washing channels	3
Bottles	3pcs 2.5L washing bottle, 1pcs 2.5L waste bottle
Dispense accuracy	$\leq 2.0\%$ at 300 μl (or $\text{CV} \leq 1.5\%$ for 96 wells)
Soaking and shaking time	19'59"
Data connection	USB
Weight	11.5kg
Power supply	AC100/240V, 50/60Hz

01

Easy Operation

The APW-100 Microplate Washer has 4.3 inch LCD display with friendly interface, U-disk can be used to transfer the datas between the PC and the washer or between two washers, it can also be used to upgrade the software. The washing head can be replaced easily for different kinds of microplates.

02

Safety and reliable feature

The APW-100 Microplate Washer is equipped with liquid position sensor to avoid the washing liquid used up or waste liquid from overflow, minimize the risk and avoid the liquid being sucked into the pump to break the equipment. Besides it has shaking function.

Ordering information

Code	Description
AS-16010-00	APW-100 Microplate Washer, 120V/240V
AS-16011-01	8 needles washing head
AS-16011-02	12 needles washing head
AS-16011-03	Washing liquid bottle
AS-16011-04	Waste liquid bottle

05 TSR-100 / TSR-200 Test Strip Reader



TSR-100



TSR-200

01

Description

TSR-100 and TSR-200 test strip reader are suitable for test the immunochromatographic test strips. By using modern photoelectric technology and photo-diode to detect the intensity of the reflected light, the reader can detect the color of the strip, then calculate the quanting or concentration. It can avoid reading mistake by eyes and make rapid, high sensitivity when using reader to detect the color change of test strip.



02

Easy to use and high accuracy

1. 6.2 inch touch screen for TSR-100
2. Powerful program design, it is easy to be used
3. Patented design offer good solutions guaranteed and excellent results
4. Each testing result is available to check and it can show the graph of the result
5. Build-in or external thermal printer
6. Rapid instrument calibration

03

Customization acceptable

1. Equipped specialized software of different test strips, increase or decrease detection program according to the manufacturers requirements
2. Support customization according to user needs
3. Test card and test strip for user flexible choice
4. Desktop and portable for user choice:
TSR-100 Desktop test strip reader
TSR-200 Portable test strip reader

05 TSR-100 / TSR-200 Test Strip Reader

04

TSR-100 Highlights

1. 6.2 inch touch screen for easy use
2. Strict calibration system for stable results
3. Automatically identify CT line position, Error correction range $\pm 3\text{mm}$
4. Fast and accurate test reduce human errors, automatic calculate concentration and judgment
5. Accurately identify one or more(up to 5) T lines value and CT ratio
6. Large built-in memory can save 10000 records
7. Build-in thermal printer
8. Powerful software, build-in 2 systems software (one for the end-user, another one for the reagent manufacturer)

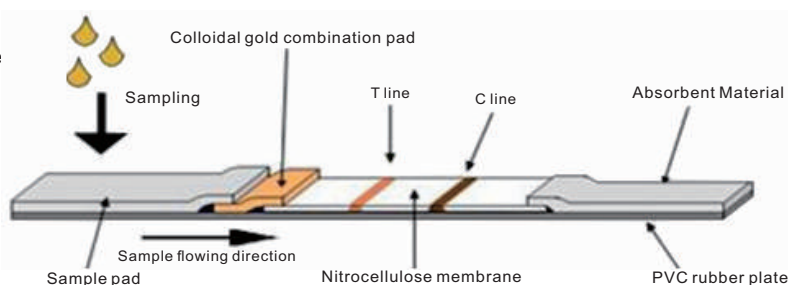
05

TSR-200 Highlights

1. Small size and light weight for easy carrying
2. Simply operation with 1~3 steps quantitative detection
3. Semi-automatic detection with high speed, test time only 5s except prepare sample time
4. Automatically identify CT line position, Error correction range $\pm 3\text{mm}$
5. Accurately identify one or more(up to 4) T lines value and CT ratio
6. Large built-in memory can save 10000 records
7. External thermal printer for printing reports
8. Powerful software, build-in 2 systems software (one for the end-user, another one for the reagent manufacturer)

Detection principle

Standard test strip structure as right picture these equipments detect sample positive or negative (concentration) by measuring reflection of light intensity of T and C line. These are also suitable for some test strip with several T lines. The TSR-100 can test 5 T lines and the TSR-200 can test 4 lines



06

Remark for Test Strip Reader

1. Test strip reader must match the test strip, cooperate with the manufacturer of test strip
2. Support customization according to test strip manufacturer needs
3. Fluorescence detection must be provided excitation wavelength, emission wavelength and life of fluorochrome

07

Adapter for TSR-100



■ Adapter S-100



■ Adapter C-100

07

Adapter for TSR-200



■ Adapter S-200



■ Adapter C-200

Specification

Type	TSR-100	TSR-200
Wavelength	525±30nm (Base the requirement of customer)	525±30nm (Base the requirement of customer)
Detector Type	Photodiode	Photodiode
Test item	Immunochromatographic test cards or wide 2~6mm test strips	Immunochromatographic test cards or wide 2~6mm test strips
Parameter of test item	According to the requirement of test strips	According to the requirement of test strips
Delay-time test	Set delay-time, then, the test strip complete the reaction in the reader, timed automatic detection	Set delay-time, then, the test strip complete the reaction in the reader, timed automatic detection
Detection result	Multi-algorithm, quantitative, Selected results, save and print results	Multi-algorithm, quantitative, Selected results, save and print results
Test Speed	240 strips each hour	240 strips each hour
Repeatability	CV<2%	CV<2%
Stability	Drift values≤3% in 2 hours	Drift values≤3% in 2 hours
Data analysis	Qualitative, quantitative, semi-quantitative, Multi-algorithm	Qualitative, quantitative, semi-quantitative, Multi-algorithm
Display	6.2 inch touch screen	3.2 inch LCD
Connections	2 x USB	2 x USB
Number of T-line	5 lines	4 lines
Printer	Built-in Printer	External printer
Save Type	Built-in SD card (2GB)	Built-in SD card (4GB)
Power Adapter	DC12V 4A	DC9V 1.5A
Power	20W	9W
Dimensions (W x D x H) mm	320 x 195 x 156 mm	225 x 109 x 46mm
Weight	4kg	0.5kg

Ordering information

No.	Code	Description
01	AS-12010-00	TSR-100 Test Strip Reader, DC24V 2A (Standard: Adapter S-100)
02	AS-12011-01	Adapter C-100 for TSR-100
03	AS-12020-00	TSR-200 Portabel Test Strip Reader, DC9V 1.5A (Standard: Adapter S-200)
04	AS-12021-01	Adapter C-200 for TSR-200

06 TDH-500 Hybridization System

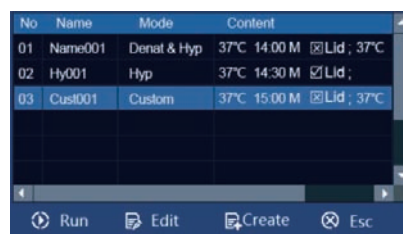
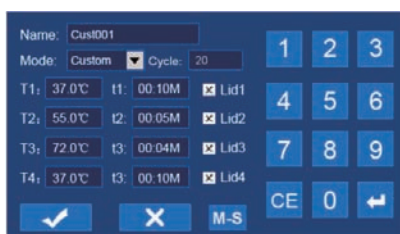
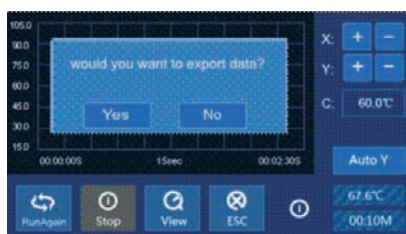


Description

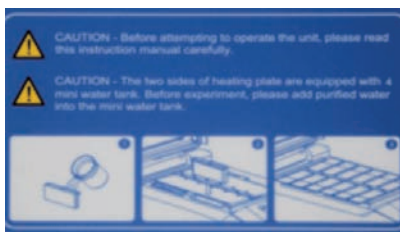
Programmable system and humidifying that automates the steps in a slide-based FISH procedure, and provides walk-away convenience for clinical and research personnel. Up to 12 slides can be easily be added or removed with one hand. Two-side heating of slides that allows achieving exact correspondence of the set and actual temperature and maintaining uniform temperature across all slide positions. To built upon the innovative design, TDH-500 is ideally suited for the needs of cytogenetic laboratories to provide a good instrument.

Features

1. Touch screen easy to read, program and use
2. It can run In-situ PCR experiments
3. Possibility to export cycles data via USB memory
4. Four operation modes: denaturation/hybridization, hybridization fixed temperature, custom, In-situ PCR
5. Can be used as a fixed temperature slide warmer
6. Rapid temperature warm-up and accuracy of $\pm 1^{\circ}\text{C}$
7. Superior temperature uniformity accross all slide positions
8. Perfect humidity control system

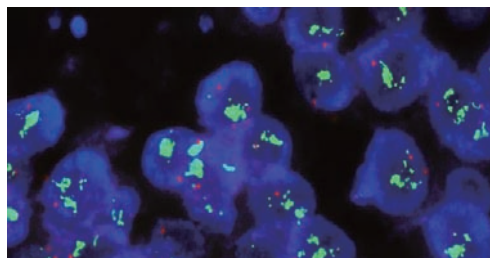
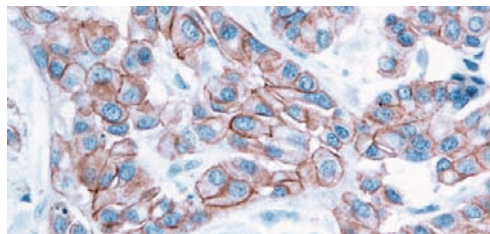


1. Touch screen display, easy programmable setting



2. Perfect humidity control system

3. Possibility to export cycles data



Specification

Temperature Control Range	RT.+5°C-99.9°C
Temperature Accuracy	±1°C
Temperature Uniformity	±1°C
Temp. Display Accuracy	±0.1°C
Timer	1min~99h59min or 1sec~99 min59sec
Heating Time (37°C to 95°C)	≤3min
Cooling Time (95°C to 45°C)	≤7min
Temperature Control Programmable	30°C-100°C
Operation mode	Denaturation/Hybridization, Hybridization fixed temperature, Custom and In-situ PCR
Capacity	12 Slides
Display	Touch Screen
Overall Dimensions (L x D x H)mm	225 x 420 x 143mm
Weight	5.8kg

Ordering information

No.	Code	Description
01	AS-05010-00	TDH-500 AC120V, 3A or AC220V,2A 50/60Hz



III Laboratory Instruments



01 iCEN-24/iCEN-24R High Speed Centrifuge

Features iCEN-24

1. Max. rotor capacity: 24×1.5/2.0ml
2. 3 different rotors are available
3. Max. speed: 14,680 rpm (21,400 × g)
4. Safe and reliable, various safety protections with CE safety standard
5. Soft-brake function to protect sensitive samples
6. Separate short-spin key for quick centrifugation
7. Automatic lid opening at the end of run - prevents sample warming and allows easy access to samples
8. Can be used in cold room

Features iCEN-24R

1. Max. rotor capacity: 24×1.5/2.0ml
2. 3 different rotors are available
3. Max. speed: 14,680 rpm (21,400 × g)
4. Temperature range from -10°C to +40°C
5. FastTemp for rapid pre-cooling of the centrifuge, less than 15min from 20°C to 4°C
6. Safe and reliable, various safety protections with CE safety standard
7. Soft-brake function to protect sensitive samples
8. Separate short-spin key for quick centrifugation
9. Continuous cooling keeps temperature constant, if no centrifugation takes place and the lid remains closed



Centrifuge



iCEN-24



iCEN-24R
Powerful refrigeration capacity

Specification

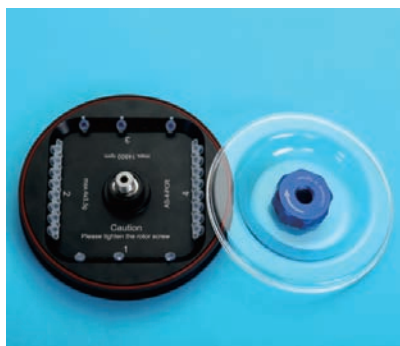
Model	iCEN-24	iCEN-24R
Speed (rpm)	500-15000rpm (increment 100rpm)	500-15000rpm (increment 100rpm)
Acceleration time	15s	15s
Deceleration time	15s	15s
Max. Capacity	24 x 1.5ml/2.0ml	24 x 1.5ml/2.0ml
Number of Rotors	3	3
Max. RCF	21,400 x g	21,400 x g
Soft braking function	YES	YES
Temperature control @ 4°C	----	±2°C
From 20°C to 4°C	----	≤15min
Temperature range	----	-10°C to +40°C
Max. Power	350W	500W
Dimensions (D x W x H) mm	260 × 410 × 225 mm	300 × 500 × 320 mm
Weight with one rotor	14kg	28kg
Timer	1s-99min59s (Short-spin)	1s-99min59s (Short-spin)
Power supply	AC100-120V/AC200-240V 50-60Hz	AC100-120V/AC200-240V 50-60Hz

Ordering information

No.	Code	Description
01	AS-08120-00	iCEN-24 High speed centrifuge, AC100-120V/AC200-240V, 50-60Hz
02	AS-08130-00	iCEN-24R High speed refrigerated centrifuge, AC100-120V/AC200-240V, 50-60Hz
03	AS-08121-01	24×1.5ml/2.0ml rotor
04	AS-08121-02	4-8×0.2ml PCR strip rotor
05	AS-08121-03	12×5ml rotor
06	AS-08041-01	Adapters for 0.5 - 0.6ml tubes
07	AS-08041-02	Adapters for 0.2ml tubes



24 × 1.5ml/2.0ml rotor



4-8 × 0.2ml PCR strip rotor



12 × 5ml rotor

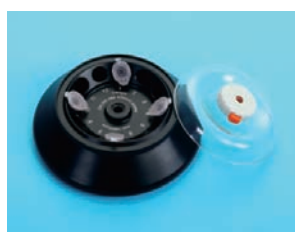
02 Mini-15K High Speed Centrifuge

Features

1. Extremely quiet operation and easy-to-follow LCD display
2. Capacity: 12 x 1.5/2.0ml tubes
3. Low sample heating (only 12°C after 30min, at max.speed)
4. Autoclavable rotor (121°C, 20min), and includes standard rotor made of anodized aluminum
5. RPM/RCF setting as required
6. Timer can be set up to 99min
7. The small size of the unit makes it convenient for benchtop use or in a hood or in refrigerated environments



01
Operation interface



02
Rotor



Mini-15K

Specification

Model	Mini-15K
Max. rotational speed	14,500rpm
Max. RCF	14,000 x g
Timer	20sec-99min
Acceleration time to max. speed	15s
Braking time from max. speed	15s
Dimensions (D×W×H)mm	270 × 230 × 155mm
Power	100W

Ordering information

Code	Description
AS-08110-00	Mini-15K High speed centrifuge, 50/60Hz, 3A

Accessories

AS-08041-01	Adapters for 0.5 ml tubes
AS-08041-02	Adapters for 0.2 ml tubes

03 Mini-6KC/6KS/6KT and Mini-6K/7K/10K Mini Centrifuge

Features

1. Composite shell, shatter-resistant
2. The electronic braking system for rapid sample processing
3. Quick release rotor tub, allows for easy rotor exchange
4. Mini-6KC / Mini-6KS / Mini-6KT
Two speed options: 4,000 & 6,000rpm
5. Mini-6KC include 2 quick release interchangeable rotors
--8x1.5/2.0ml tube rotor, --4 place PCR Strip rotor
6. Mini-6KS: 3-in-1 rotor design, high capacity and time-saving
--6x1.5/2.0ml tubes, --6x0.5ml tubes, --2-8x0.2ml PCR strip tubes
7. Mini-6KT: Patented rotor design for 48-well 50ul PCR plate
Optional rotor: 4x5ml Eppendorf tube



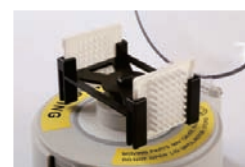
Mini-6KC



Mini-6KS
Patented 3-in-1 rotor design



Mini-6KT



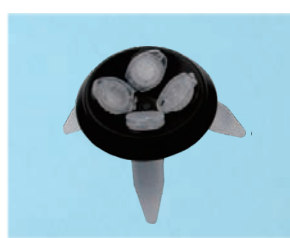
05
Mini-6KT 48-well 50ul PCR
plate rotor



01
Mini-6KC quick release
rotor



02
Mini-6KS 3-in-1 rotor



03
Mini-6KT 4x5ml tube
rotor



04
Mini-6KC/Mini-6KS/Mini-6KT
Two speed options



Mini-6K / Mini-7K / Mini-10K

Specification

Model	Mini-6K	Mini-7K	Mini-10K	Mini-6KC	Mini-6KS	Mini-6KT
Rotor	6×1.5ml/2.0ml rotor 2×8×0.2ml strip rotor	6×1.5ml/2.0ml rotor 2×8×0.2ml strip rotor	6×1.5ml/2.0ml rotor	8×1.5ml/2.0ml rotor 4×8×0.2ml strip rotor	3-in-1 rotor (*)	48-well 50ul PCR rotor or 5×5ml tube rotor
Speed	6,000rpm	7,000rpm	10,000rpm	4,000 & 6,000rpm	4,000 & 6,000rpm	4,000 & 6,000rpm
Max.RCF	2,000 x g	2,300 x g	5,000 x g	1,200 & 2,000 x g	1,200 & 2,000 x g	1,200 & 2,000 x g
Dimensions	175x148x118mm	175x148x118mm	175x148x118mm	135x147x120mm	135x127x120mm	135x147x120mm
Weight	0.7kg	0.7kg	0.7kg	0.7kg	0.7kg	0.7kg
Power	AC100-240V	AC100-240V	AC100-240V	AC100-240V	AC100-240V	AC100-240V

*3-in-rotor ---- 6x1.5/2.0ml, 6x0.5ml tubes and 2-8x0.2ml PCR strip rotor

Ordering information

No.	Code	Description
01	AS-08060-00	Mini-6K, AC100-240V, 50/60Hz
02	AS-08070-00	Mini-7K, AC100-240V, 50/60Hz
03	AS-08080-00	Mini-10K, AC100-240V, 50/60Hz
04	AS-08020-00	Mini-6KC, AC100-240V, 50/60Hz
05	AS-08030-00	Mini-6KS, AC100-240V, 50/60Hz
06	AS-08100-00	Mini-6KT, AC100-240V, 50/60Hz

Accessories

Mini-6K/Mini-7K/Mini-10K		Mini-6KC		Mini-6KS	
AS-08061-01	Allen wrench	AS-08021-01	8 x 1.5/2.0ml rotor	AS-08031-01	6x1.5/2.0ml, 6x0.5ml tubes & 2-8x0.2ml PCR Strip rotor
AS-08061-02	6 x 1.5/2.0ml rotor	AS-08021-02	4 x 8 x 0.2ml strip rotor		
AS-08061-03	2 x 8 x 0.2ml strip rotor	AS-08061-05	Adapters for 0.5/0.6ml tubes	Mini-6KT	
AS-08061-04	Slide rotor	AS-08061-06	Adapters for 0.2ml tubes	AS-08101-01	48 well 50ul PCR plate rotor
AS-08061-05	Adapters for 0.5/0.6ml tubes			AS-08101-02	4x5ml tubes rotor
AS-08061-06	Adapters for 0.2ml tubes			AS-08101-03	Adapter for 5ml normal tubes

04 MPC-25/Mini-P25 Mini-Plate Centrifuge

Features for MPC-P25

1. Unique design for the horizontal rotor centrifuge (Patented)
2. Short-spin and timing of two operations make the tests more convenient
3. Braking time from max.speed: less than 30sec
4. Timer can be set up to 10 minutes
5. Streamline design with more compact shape and transparent PC lid
6. It can accept below formats:
 - PCR standard plates with skirted, non-skirted
 - Elisa Plates
 - 8x0.2ml PCR strip tubes
 - 0.2ml PCR tubes

MPC-P25



01 MPC-P25 Operation



■ PCR plates



■ Elisa plates



■ 2pcs PCR plates with skirt
or without skirt



■ 8 × 0.2ml PCR strip tubes

Specification

Model	MPC-P25
Max. rotational speed	2,200rpm
Max. RCF	480 x g
Capacity	2pcs PCR plates / Elisa plate / 8x0.2ml PCR strip tubes / 0.2ml PCR tubes
Weight	3.6kg
Dimensions (W x D x H)mm	290 x 360 x 140mm
Power supply	AC220V/AC120V, 50/60Hz

02

MPC-P25

Adaptor for PCR plates with skirt and without skirt



03

MPC-P25

Adaptor for 8x0.2ml strip or 0.2ml PCR tubes



Ordering information

No.	Code	Description
01	AS-08090-00	MPC-P25 Mini-Plate Centrifuge, AC120V or AC220V, 50/60Hz
02	AS-08091-01	Adaptor for PCR plates with skirt and without skirt
03	AS-08091-02	Adaptor for 8x0.2ml strip or 0.2ml PCR tubes

Mini-P25



Features for Mini-P25

1. Quickly spin down droplets
2. Use before and after thermal cycling to increase PCR yield
3. Accepts skirted, non-skirted and all standard PCR plates
4. Less than 1/4 the size of most plate centrifuges

Specification

Model	Mini-P25
Max. rotational speed	2,500rpm
Max. RCF	500 x g
Capacity	2pcs PCR plate
Weight	2.1kg
Dimensions (W x D x H)mm	190 x 220 x 186
Powe supply	AC120V/AC220V, 50/60Hz

Ordering information

No.	Code	Description
01	AS-08010-00	Mini-P25 Mini-Plate Centrifuge

01 IB-10HL/IB-20HL Dry Bath Incubator

Features

1. Quick and easy-to-exchange Blocks
2. Special-designed blocks improves temperature homogeneity
3. Heating lid function available for turn on / off
4. Individual sensor-controlled blocks allow for block-specific calibration
5. Wifi-function is available with the APP software
6. IB-20HL hold a software with a strong functions (Thermal cycler's software function)
 - Set and display temperature, time and lid temperature
 - Set 9 programs and 99 cycles
 - Link programs function



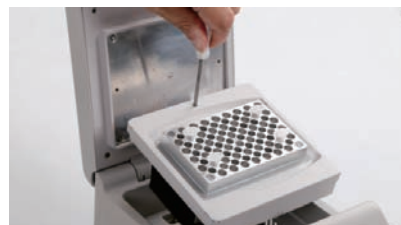
IB-10HL



IB-20HL

Can be set and operation PCR program

Easy to exchange blocks



Specification

Model	IB-10HL	IB-20HL
Temperature control range	RT.+5°C~105°C	-5°C~105°C (If Ambient Temperature≤20°C) 0°C~105°C (If Ambient Temperature≤25°C) 4°C~105°C (If Ambient Temperature≤30°C)
Lid's temperature range	RT.+5°C~110°C	RT.+5°C~110°C
Timer range	0~99h59min / 0~99min59sec	0~99h59min/0~99min59sec
Temp. accuracy for blocks	±0.5°C	±0.5°C
Temp. accuracy for lid	±1°C	±1°C
Uniformity within the block	±0.5°C	±0.5°C
Display accuracy	0.1°C	0.1°C
Heating time	≤15min (from 40°C to 100°C)	Heating speed: (37°C-100°C)≥6°C/min
Cooling time	—	Cooling speed: (100°C-37°C)≥6°C/min
Dimensions (W x D x H)mm	267 × 166 × 167mm	313 × 168 × 196mm
Weight	2.3kg	3.0kg

Ordering information

Code	Description
AS-01270-00	IB-10HL, AC100~240V, 50/60Hz, 120W
AS-01280-00	IB-20HL, AC100~240V, 50/60Hz, 120W

Accessories

IB-10HL		
Code	Block	Description
AS-01271-01	IB10-A	96×0.2ml PCR tubes
AS-01271-02	IB10-B	54×0.5ml tubes
AS-01271-03	IB10-C	35×1.5ml tubes
AS-01271-04	IB10-D	35×2.0ml tubes
AS-01271-05	IB10-E	15×0.5ml+20×1.5ml tubes
AS-01181-28	T4	Block extraction tool
IB-20HL		
Code	Block	Description
AS-01281-01	IB20-A	96×0.2ml PCR tubes
AS-01281-02	IB20-B	54×0.5ml tubes
AS-01281-03	IB20-C	35×1.5ml tubes
AS-01281-04	IB20-D	35×2.0ml tubes
AS-01281-05	IB20-E	15×0.5ml+20×1.5ml tubes
AS-01181-28	T4	Block extraction tool



02 MiniT Series Mini-Dry Bath Incubator

Features

1. LCD display. It is easy to set and use
2. Small footprint: MiniT series are a personal sized that fits in the palm on your hand
3. Simultaneous display actual time, temperature
4. Temperature deflection adjusting meet with different demands
5. Beep-signal/Stop after program completed
6. With DC12V or DC24V power for total portability, beep-signal/stop after program completed
7. Interchangeable aluminum alloy sample blocks provide versatility and allow easy cleaning and disinfecting



MiniT



MiniT-C



MiniT-100



MiniT-100H

Specification

Model	MiniT	MiniT-C	MiniT-100	MiniT-100H
Temperature control range	RT.+5-80°C	0°C-100°C	RT.+5°C-100°C	RT.+5°C-100°C
Timer range	1-999min or 1-999sec	1-999min or 1-999sec	1-999min or 1-999sec	1-999min or 1-999sec
Temp. control 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.)	≤12min	≤20min	≤15min	≤15min
Cooling time (25°C to 0°C)	—	≤25min	—	—
Temp. control accuracy	±0.3°C	±0.3°C	±0.3°C	±0.3°C
Heating Lid	—	—	—	Heating Lid
Lid's temperature range	—	—	—	RT.+5°C-100°C
Dimensions (W x D x H)mm	150 × 110 × 100 mm	162 × 110 × 140 mm	152 × 120 × 112 mm	152 × 120 × 112 mm
Weight	0.5kg	1.0kg	0.8kg	0.9kg
Power supply	DC 12V	DC 12V	DC 24V	DC 24V

03 MiniT-H2C/MiniT-H3 Mini-Dry Bath Incubator

Features

1. Working area dimension: 3 individually controlled
2. LCD display. It is easy to set and use
3. Simultaneously display the set and actual time, temperature, Auto-stop and sound-alert after program completed
4. Temperature deflection adjusting meet with different demands
5. MiniT-H3 has a heating function only and its temperature ranges from RT.+5~100°C
6. MiniT-H2C has cooling/heating functions and its temperature ranges from 0°C~99.9°C



MiniT-H2C/MiniT-H3

Dry Bath
Incubator

Specification

Model	MiniT-H3			MiniT-H2C		
Working area	Block - A	Block - B	Block - C	Block - A	Block - B	Block - C
Temperature Control Range	RT.+5~99.9°C	RT.+5~99.9°C	RT.+5~99.9°C	0~99.9°C	RT.+5~99.9°C	RT.+5~99.9°C
Heating time (25°C to 99.9°C)	≤20min	≤20min	≤20min	≤20min	≤20min	≤20min
Cooling time (25°C to 99.9°C)	--	--	--	≤25min (*)	--	--
Temp. control accuracy	≤0.5°C			≤0.5°C		
Temp. stability @37°C	0.2°C			0.2°C		
Display accuracy	0.1°C			0.1°C		
Timer range	1~ 999h or 1~ 999min or 1~ 999sec			1~999h or 1~999min or 1~999sec		
Block quantity	3			3		
Power supply	DC12V,120W			DC12V,120W		
Dimensions (mm)	360×180×150			360×180×150		
Weight	3kg			3kg		

*1. Tested in ambient temperature <25°C

05 MK-10/MK-20 Dry Bath Incubator

Features

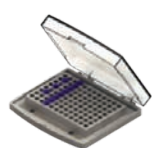
1. LCD display. It is easy to set up and use
2. Simultaneous display of set and actual time, temperature
3. Temperature deflection adjusting meet with different demands
4. Easy to replace the metal blocks and is very simple to clean and sterilize
5. Microprocessor controlled incubation time and temperature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



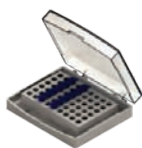
MK-10



MK-20



A



B



C



D



E



F



G



H



I



J



K



L



M

Blocks for MK-10/MK-20

Specification

Model	MK-10	MK-20
Temperature control range	RT.+5°C-100°C	-10°C-100°C
Timer range	1min - 99h59min	1min - 99h59min
Tem. stability @100°C	±0.5°C	±0.5°C
Display accuracy	±0.1°C	±0.1°C
Heating time (25°C to 100°C)	≤12min	≤15min
Cooling time (20°C to -10°C)	--	≤15min (20°C to -5°C) if the room temperature is lower than 30°C ≤15min (20°C to -10°C) if the room temperature is lower than 25°C)
Certificate	CE	CE
Dimensions (L×W×H)mm	300 × 220 × 180mm	300 × 220 × 180mm
Weight	2.5kg	5kg

Ordering information

No.	Code	Description
01	AS-01040-00	MK-10 (Heating), AC220V/120V, 50/60Hz, 150W
02	AS-01050-00	MK-20 (Heating/Cooling), AC220V/120V, 50/60Hz, 200W

Accessories

No.	Code	Type	Description	The highest Temperature	The lowest Temperature
01	AS-01051-01	A	96 x 0.2ml tubes	100°C	-10°C
02	AS-01051-02	B	54 x 0.5ml tubes	100°C	-10°C
03	AS-01051-03	C	35 x 1.5ml tubes	100°C	-10°C
04	AS-01051-04	D	35 x 2.0ml tubes	100°C	-10°C
05	AS-01051-05	E	15 x 0.5ml+20 x 1.5ml tubes	100°C	-10°C
06	AS-01051-06	F	24 x diameter ≤ Φ12mm tubes	100°C	0°C
07	AS-01051-07	G	12 x 15ml Falcon	100°C	0°C
08	AS-01051-08	H	6 x 50ml Falcon	100°C	0°C
09	AS-01051-09	I	103 x 67 x 30ml Bath Block	100°C	0°C
10	AS-01051-10	J	96 x 0.2ml Microplate	100°C	0°C
11	AS-01051-11	K	24 x 5ml tubes	100°C	0°C
12	AS-01051-12	L	96-Deep well plate	80°C	8°C
13	AS-01051-13	M	15 x 5ml Eppendorf tubes	100°C	0°C

06 MK200 Series High Temperature Dry Bath Incubator

Features

MK200 series high temperature dry bath incubator, the highest temperature of MK200-1 and MK200-2 can reach 150°C. And the highest temperature of MK200-4 can reach 120°C



MK200-1



MK200-1A



Blocks for MK200 Series



MK200-2



MK200-4

Ordering information

No.	Code	Description
01	AS-01080-00	MK200-1, AC220V/AC120V, 50/60Hz, 200W
02	AS-01090-00	MK200-1A, AC220V/AC120V, 50/60Hz, 200W
03	AS-01100-00	MK200-2, AC220V/AC120V, 50/60Hz, 400W
04	AS-01110-00	MK200-4, AC220V/AC120V, 50/60Hz, 600W

Specification

Model	MK200-1	MK200-1A	MK200-2	MK200-4
Temperature control range	RT.+5°C-150°C	RT.+5°C-150°C	RT.+5°C-150°C	RT.+5°C-120°C
Timer range	1min-99h59min	1min-99h59min	1min-99h59min	1min-99h59min
Tem. stability @100°C	±0.5°C	±0.5°C	±0.5°C	±0.5°C
Temp. control accuracy @40°C	±0.3°C	±0.3°C	±0.3°C	±0.3°C
Temp. control accuracy @120°C	±1°C	±1°C	±1°C	±1°C
Heating time (40°C to 150°C)	≤30min	≤30min	≤30min	≤30min
Display accuracy	0.1°C	0.1°C	0.1°C	0.1°C
Dimensions (L×W×H)mm	280 × 240 × 110mm	280 × 240 × 110mm	280 × 240 × 110mm	380 × 240 × 110mm
Block quantity	1	1	2	4
Display screen	LED	LED	LED	LED

Accessories

No.	Code	Type	Description	Dimensions (mm)
01	AS-01081-01	BK01	49×Φ6mm	96×96×49mm
02	AS-01081-02	BK02	49×Φ7mm	96×96×49mm
03	AS-01081-03	BK03	25×Φ10mm	96×96×49mm
04	AS-01081-04	BK04	25×Φ12mm	96×96×49mm
05	AS-01081-05	BK05	25×Φ13mm	96×96×49mm
06	AS-01081-06	BK06	12×Φ15mm	96×96×49mm
07	AS-01081-07	BK07	16×Φ15mm	96×96×49mm
08	AS-01081-08	BK08	12×Φ16mm	96×96×49mm
09	AS-01081-09	BK09	16×Φ16mm	96×96×49mm
10	AS-01081-10	BK10	12×Φ19mm	96×96×49mm
11	AS-01081-11	BK11	16×Φ19mm	96×96×49mm
12	AS-01081-12	BK12	9×Φ20mm	96×96×49mm
13	AS-01081-13	BK13	9×Φ26mm	96×96×49mm
14	AS-01081-14	BK14	4×Φ28mm	96×96×49mm
15	AS-01081-15	BK15	4×Φ40mm	96×96×49mm
16	AS-01081-16	BK16	49×0.5ml tubes	96×96×49mm
17	AS-01081-17	BK17	25×1.5ml tubes	96×96×49mm
18	AS-01081-18	BK18	25×2.0ml tubes	96×96×49mm
19	AS-01091-01	BK19	96×0.2ml tubes	78×114×26mm
20	AS-01091-02	BK20	96×0.2ml ELISA plate	81×123×19mm

BK19 and BK20 can only be used in MK200-1A

Ordering information

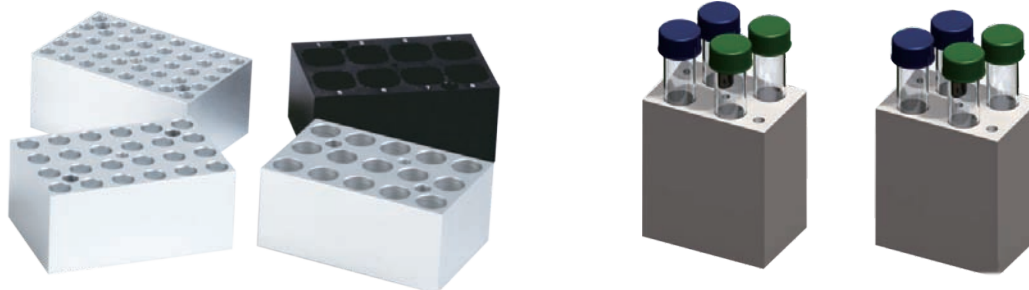
No.	Code	Description
01	AS-01130-00	MiniT mini dry bath, DC12V, 40w
02	AS-01170-00	MiniT-C mini dry bath, DC12V, 60w
03	AS-01150-00	MiniT-100 mini dry bath, DC24V, 40w
04	AS-01160-00	MiniT-100H mini dry bath, DC24V, 50w
05	AS-01220-00	MiniT-H3 3-in-1 mini dry bath
06	AS-01230-00	MiniT-H2C 3-in-1 mini dry bath

Accessories

No.	Code	Type	Description
01	AS-01131-01	A-MinT	40×0.2ml tubes
02	AS-01131-02	B-MinT	24×0.5ml tubes
03	AS-01131-03	C-MinT	15×1.5ml tubes
04	AS-01131-04	D-MinT	15×2.0ml tubes
05	AS-01131-05	E-MinT	8×12.5×12.5ml cuvette block
06	AS-01131-06	F-MinT	4×15ml tubes
07	AS-01131-07	G-MinT	2×50ml tubes
08	AS-01131-99	Can be customized according to customer demand	

Note: MiniT-100H can just use A-MiniT block and can not exchange!

MiniT series and MiniT-H2C/MiniT-H3 blocks



04 K30 Dry Bath Incubator



Specification

Model	K30
Temperature control range	RT.+5°C-100°C
Timer range	1min~99h59min
Temp. control accuracy	±0.5°C
Heating time (20°C to 100°C)	≤15min
Certificate	CE
Dimensions (L×W×H)mm	225×160×197
Weight	3kg

Blocks for K30



Dry Bath Incubator

Ordering information

No.	Code	Description
01	AS-01030-00	K30, AC220V/AC120V, 50/60Hz, 100W

Accessories

No.	Code	Type	Description
01	AS-01031-01	A-30	96×0.2ml tubes
02	AS-01031-02	B-30	29×0.5ml+32×1.5ml tubes
03	AS-01031-03	C-30	61×0.5ml tubes
04	AS-01031-04	D-30	41×1.5ml tubes
05	AS-01031-05	E-30	41×2.0ml tubes
06	AS-01031-06	F-30	61×Φ6mm tubes
07	AS-01031-07	H-30	28×Φ12mm tubes
08	AS-01031-08	I-30	28×Φ13mm tubes
09	AS-01031-09	J-30	21×Φ15mm tubes
10	AS-01031-10	K-30	21×Φ16mm tubes
11	AS-01031-11	L-30	17×Φ18mm tubes
12	AS-01031-12	M-30	14×Φ20mm tubes
13	AS-01031-13	N-30	9×Φ25mm tubes
14	AS-01031-14	O-30	4×Φ32mm tubes

07 MK2000 Series Dry Bath Incubator

Description

Mk2000 series dry bath incubator are ideal for incubation and activation of cultures, enzyme reactions, immunoassays, melting/boiling points and a wide variety of other laboratory procedures

Features

1. Exceptional temperature uniformity and accuracy
2. Wide range of interchangeable aluminium blocks, blocks are accessories for all applications
3. Block extraction tool is supplied, allowing blocks to be removed easily
4. Blocks as accessories for all applications -- tubes, vials and microplates
5. Auto-stop and sound-alert after program completed

Special features of MK2000-2HL

1. Touch screen allows for easy to read and easy programming and easy to use
2. Hold a heating lid, 60 user programmable settings
3. Programmable system, program link functions, it can be runned some simple PCR tests



MK2000-1



MK2000-2



Blocks for MK2000 Series



MK2000-2E
Each block can be set
at different temperatures



MK2000-2HL
Can run some
simple PCR tests

Specification

Model	MK2000-1	MK2000-2	MK2000-2E	MK2000-2HL
Temperature control range	RT.+5°C-105°C	RT.+5°C-105°C	RT.+5°C-105°C	RT.+5°C-100°C
Timer range	1min - 99h59min	1min - 99h59min	1min - 99h59min	1min - 99h59min
Temp. stability @100°C	≤0.5°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	±0.2°C
Across similar block @37°C	----	±0.3°C	----	±0.3°C
Heating time (25°C to 100°C)	≤20min	≤20min	≤20min	≤20min
Display accuracy	0.1°C	0.1°C	0.1°C	0.1°C
Block quantity	1	2	2 (Independent)	2
Dimensions (L×W×H)mm	250×190×130mm	365 × 210 × 150 mm	365 × 210 × 150mm	420 × 225 × 145 mm
Weight	2.5kg	4.5kg	4.5kg	5.5kg

Ordering information

No.	Code	Description
01	AS-01180-00	MK2000-1, AC220V/AC120V, 50/60Hz, 100W
02	AS-01190-00	MK2000-2, AC220V/AC120V, 50/60Hz, 200W
03	AS-01120-00	MK2000-2E, AC220V/AC120V, 50/60Hz, 200W
04	AS-01210-00	MK2000-2HL (Heating lid), AC220V/AC120V, 50/60Hz, 200W

Accessories

Code	Type	Description	Code	Type	Description
AS-01181-01	BH01	96 x 0.2ml PCR tubes	AS-01181-15	BH15	40 x Φ6mm tubes
AS-01181-02	BH02	45 x 0.5ml tubes	AS-01181-16	BH16	28 x Φ10mm tubes
AS-01181-03	BH03	35 x 1.5ml tubes	AS-01181-17	BH17	24 x Φ12mm tubes
AS-01181-04	BH04	35 x 2.0ml tubes	AS-01181-18	BH18	24 x Φ13mm tubes
AS-01181-05	BH05	15 x 0.5ml+20×1.5ml tubes	AS-01181-19	BH19	14 x Φ15mm tubes
AS-01181-06	BH06	20 x 1.5+15 x 2.0ml tubes	AS-01181-20	BH20	14 x Φ16mm tubes
AS-01181-07	BH07	32 x 0.2+22 x 0.5+9 x 1.5ml tubes	AS-01181-21	BH21	12 x Φ19mm tubes
AS-01181-08	BH08	20 x 5ml tubes	AS-01181-22	BH22	11 x Φ20mm tubes
AS-01181-09	BH09	20 x 10ml tubes	AS-01181-23	BH23	6 x Φ26mm tubes
AS-01181-10	BH10	12 x 15ml tubes	AS-01181-24	BH24	6 x Φ28mm tubes
AS-01181-11	BH11	6 x 50ml tubes	AS-01181-25	BH25	2 x Φ40mm tubes
AS-01181-12	BH12	96 x 0.2ml Elisa plate or 4 slides	AS-01181-26	BH26	2 x 7-12.5 x 12.5 cuvette
AS-01181-13	BH13	Solid block (no holes)	AS-01181-27	PT1000	External temperature probe
AS-01181-14	BH14	384 well PCR Plate	AS-01181-28	T4	Block extraction tool
AS-01181-15			AS-01211-01	L4	Stainless plate

MK2000-2HL can just use the BH01~ BH07 blocks, L4 is special for MK2000-2HL

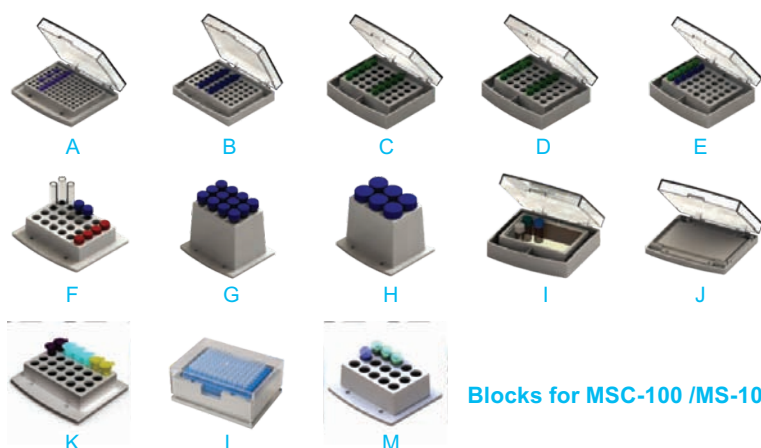
01 MS-100/MS-100 Thermo Shaker Incubator

Description

MS-100/MS-100 thermo shaker incubator designed for simultaneous heating, cooling and mixing of small samples. Both of them can be supplied with interchangeable blocks for microtubes.

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. Easy to replace the metal blocks and is very simple to clean and sterilize
6. Peltier design of MSC-100 provides thermal control in a compact unit



Blocks for MSC-100 /MS-100



MS-100



MSC-100

Specification

Model	MS-100	MSC-100	TMS-200	TMS-300
Temperature Control Range	RT.+5°C-100°C	0°C~100°C (if Ambient temp.≤20°C) 4°C~100°C (if Ambient temp.≤20°C) 10°C~100°C(if Ambient temp.≤20°C)	RT.+5°C-100°C	RT.+5°C-100°C
Temperature uniformity	≤0.5°C	≤0.5°C	≤0.5°C	≤0.5°C
Timer range	1min~99h59min	1min~99h59min	1min~99h59min	1min~99h59min
Temp. control accuracy	±0.5°C	±0.5°C	±0.25°C(≤37°C) ±0.5°C (≤95°C)	±0.25°C(≤37°C) ±0.5°C (≤95°C)
Display accuracy	±0.1°C	±0.1°C	±0.1°C	±0.1°C
Mixing Speed	200-1500rpm*	200-1500rpm*	300-3000rpm	300-2500rpm
Heating Time (25-100°C)	≤12min	≤15min	≤12min	≤12min
Cooling Time	----	≤30min (from RT. to RT.-20°C) ** ≤5min (from 100°C to 20°C) **	----	----
Mixing Orbit	2mm	2mm	2mm	3mm
Dimensions (mm)	300 x 220 x 170	300 x 220 x 170	230 x 170 x 165	230 x 170 x 165
Weight	7kg	8.5kg	5.5kg	5.5kg

*Temperature and oscillation speed limit according to the type of block

**Tested in ambient temperature <25°C

02 TMS-200/TMS-300 Thermo Shaker Incubator

Features

1. Thermo shaker for microplates, tubes, and glass vials
2. Fast shaking and mixing up to 3,000rpm
3. Perfectly controlled 3-dimensional mixing prevents spilling and lid wetting
4. 2 programmable soft keys, integrated vortex and short mix functions
5. Very small, light, efficient and quiet
6. 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



TMS-200



TMS-300



Blocks for TMS-200/TMS-300

Ordering information

No.	Code	Description
01	AS-02010-00	MS-100 Thermo Shaker, AC220V/AC120V, 50/60Hz, 50W
02	AS-02020-00	MSC-100 Thermo Shaker, AC220V/AC120V, 50/60Hz, 250W
03	AS-02050-00	TMS-200 Thermo Shaker, AC100V-240V, 50/60Hz, 150W
04	AS-02060-00	TMS-300 Thermo Shaker, AC100V-240V, 50/60Hz, 150W

Accessories

MS-100 / MSC-100					
No.	Code	Type	Description	Max. Temp.	Max. speed
01	AS-01051-01	A	96 x 0.2ml tubes	100°C	1500rpm
02	AS-01051-02	B	54 x 0.5 tubes	100°C	1500rpm
03	AS-01051-03	C	35 x 1.5 tubes	100°C	1500rpm
04	AS-01051-04	D	35 x 2.0 tubes	100°C	1500rpm
05	AS-01051-05	E	15 x 0.5ml+20 x 1.5ml tubes	100°C	1500rpm
06	AS-01051-06	F	24 x dimensions≤12mm tubes	100°C	1200rpm
07	AS-01051-07	G	12 x 15ml Falcon	100°C	750rpm
08	AS-01051-08	H	6 x 50ml Falcon	100°C	750rpm
09	AS-01051-09	I	103 x 67 x 30mm Bath Block	100°C	1500rpm
10	AS-01051-10	J	96 x 0.2ml Microplate	100°C	1500rpm
11	AS-01051-11	K	24 x 5ml tubes	100°C	1200rpm
12	AS-01051-12	L	96-Deep well plate	80°C	800rpm
13	AS-01051-13	M	15 x 5ml Eppendorf tubes	100°C	1200rpm
TMS-200 / TMS-300					
No.	Code	Type	Description	Max. speed	
01	AS-02051-01	A-200	96 x 0.2ml tubes	1700/1500rpm	
02	AS-02051-02	B-200	54 x 0.5ml tubes	1700/1500rpm	
03	AS-02051-03	C-200	35 x 1.5ml tubes	1700/1500rpm	
04	AS-02051-04	D-200	35 x 2.0ml tubes	1700/1500rpm	
05	AS-02051-05	E-200	15 x 0.5ml+20 x 0.5ml tubes	1700/1500rpm	
06	AS-02051-06	F-200	24 x dimensions≤12mm tubes	1500/1200rpm	
07	AS-02051-07	G-200	32 x 0.2ml+25 x 1.5ml tubes	1700/1500rpm	
08	AS-02051-08	H-200	32 x 0.2ml+10 x 0.5ml+15 x 1.5ml tubes	1700/1500rpm	
09	AS-02051-09	I-200	103 x 67 x 30mm Bath Block	1500/1200rpm	
10	AS-02051-10	J-200	96 x 0.2ml Elisa plate	1700/1500rpm	
11	AS-02051-11	K-200	24 x 5ml tubes	1500/1200rpm	
12	AS-02031-01	MIX-A	96 x 0.2ml PCR tube holder	3000/2000rpm	
13	AS-02031-02	MIX-B	24 x 0.5ml tube holder	3000/2000rpm	

In the table fittings of TMS-200/TMS-300 above:

The number in red means Max. speed when this block in TMS-200, and the number in black means Max. speed when this block in TMS-300

03 MB100-2A/MB100-4A Thermo Shaker Incubator for plates MK100-2A/MK100-4A Incubator for plates

Description

MB100-2A/MB100-4A, MK100-2A/MK100-4A are designed for 1-4 standard 96 well plates in the thermostat mode. MK100-2A, MK100-4A have only incubation functions. MB100-2A, MB100-4A have incubation and shaking functions. A distinctive feature for the MB100-2A, MB100-4A and MK100-2A, MK100-4A is two-side heating of microtest plates that allows achieving exact correspondence of the set and actual temperature in wells of the microtest plates

Features

1. Heating plates above and below the microplates
2. Exact correspondence of the designed and actual temperature
3. LCD display. It is easy to set up and use
4. MB series have incubation and shaking functions

MB100-2A/MK100-2A



MB100-4A/MK100-4A



Specification

Model	MK100-2A	MB100-2A	MK100-4A	MB100-4A
Temperature control range	RT.+5°C--70°C	RT.+5°C--70°C	RT.+5°C--70°C	RT.+5°C--70°C
Timer range	1min-99h59min	1min-99h59min	1min-99h59min	1min-99h59min
Temp. control 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	----	100-1200rpm	----	100-1500rpm
Mixing Orbit	----	2mm	----	2mm
Heating Time (20 to 70°C)	≤20min	≤20min	≤20min	≤20min
Platform Capacity	2 plates	2 plates	4 plates	4 plates
Dimensions (mm)	280×270×150 mm	280×270×150 mm	320×350×185 mm	320×350×185 mm
Weight	4kg	6.5kg	8kg	9kg

Ordering information

No.	Code	Description
01	AS-01140-00	MK100-2A, AC100-240V, 50/60Hz, 150W
02	AS-03030-00	MB100-2A, AC100-240V, 50/60Hz, 150W
03	AS-01060-00	MK100-4A, AC120/220V, 50/60Hz, 200W
04	AS-03020-00	MB100-4A, AC120/220V, 50/60Hz, 300W

04 MX100-4A Microplate Shaker

Description

The MX100-4A Is designed for shaking ELISA plate(96 well plates), TCPS and 1.5/2.0ml centrifuge tubes

Features

1. Continuous or timing operation
2. DC brushless motor for gentle and powerful vibration
3. Orbital of 3mm for efficient mixing in small sample vessels
4. Simple spring holders for easy and quick plate installation



MX100-4A

Specification

Model	MX100-4A
Speed Setting Resolution	10rpm
Speed	200~1500rpm @Standard / 200~1000rpm @Deep well plate or tube holder
Timer range	1min~99h59min
Mixing Orbit	3mm
Input Power	AC220V or AC120V
Dimensions (mm)	290 x 270 x 120 mm
Weight	6.5kg

Ordering information

No.	Code	Description
01	AS-04040-00	MX100-4A Microplate shaker
02	AS-02041-01	20x1.5ml tube holder (apolegamy)
03	AS-02041-02	20x0.5m tube holder (apolegamy)

05 MTV-1 Mini Vortex

Description

Mini vortex is the ideal vortex mixer for every lab with its compact size, easy of use, and its economic price point. The 2,500rpm fixed speed ensures there is no sacrificing any mixing power. It requires little working space and is easy-to-use.

Features

1. Touch activated vortex mixer, stable compact design
2. 2,500rpm fixed vortexing speed, powerful vortexing for tubes up to 15ml
3. MTV-1 is with a power adapter and a battery case



Specification

Model	MTV-1
Working style	Continues / Short-Spin
Shaking movement	Orbital
Mixing Orbit	3mm
Speed Range	800~2500rpm
Dimensions (mm)	74 x 91 x 84mm
Input Power	DC6V
Weight	0.35Kg

Ordering information

No.	Code	Description
01	AS-02070-00	MTV-1, DC6V, 0.6W
02	AS-02071-01	DC6V Power Adapter
03	AS-02071-02	Battery box for 4pcs AA batteries

05 MTV-100 Multi-Tube Vortex

Features

1. Pulsing Mode:

Programmable pulsing mode allows users to adjust the pulse-on and pulse-off times between 1~59 seconds in 1 second intervals. This feature enhances the vortex action by creating a vigorous mix

2. Microprocessor Control:

The variable speed microprocessor control provides consistent uniform mixing action

3. LCD Display:

Independent LCD displays for speed and time allow operator to view both settings

4. Applications:

Suspensions, high throughput testing in clinical, environmental, and chemistry labs



Specification

Model	MTV-100
Mixing Orbit	3.6mm
Speed Range	500-2500rpm
Timer range	1min-99h59min
Maximum Weight Capacity	4.5kg
Speed Accuracy	10rpm
Tray Dimensions (L x W)mm	310 x 180 mm
Dimensions (L x W x H)mm	426 x 250 x 480 mm
Weight	21.5kg
Power	60W

Ordering information

No.	Code	Description		
01	AS-02040-00	MTV-100, AC100~240V, 1.5A		
No.	Code	Type	Description	Dimension (mm)
01	AS-02041-01	MTV-B01	50 x Φ 10mm tube racks	245 x 132 x 45mm
02	AS-02041-02	MTV-B02	50 x Φ 12mm tube racks	245 x 132 x 45mm
03	AS-02041-03	MTV-B03	50 x Φ 13mm tube racks	245 x 132 x 45mm
04	AS-02041-04	MTV-B04	50 x Φ 16mm tube racks	245 x 132 x 45mm
05	AS-02041-05	MTV-B05	15 x Φ 25mm tube racks	245 x 132 x 45mm
06	AS-02041-06	MTV-B06	15 x Φ 29mm tube racks	245 x 132 x 45mm
07	AS-02041-00	MTV-B00	Tray pad set (upper & lower)	305 x 178.5 x 25mm

01 OS-100/OS-200 Orbital Shaker

Features

The OS-100 and OS-200 Orbital Shaker are powerful variable speed shaker which provides efficient orbital motion. Speed and time are under microprocessor control. The OS-200/OS-100 shaker can be applicable in different labs: microbiology, chemistry, immunology, biochemistry and molecular biology



PP-1



PP06-250



PP12-100



UP-1



MP-1

01

Platforms for OS-100 / OS-200

Specification

Model	OS-100	OS-200
Shaking Speed	50--300rpm	50--250rpm
Orbit	10mm	20mm
Timer range	1min~99h59min	1min~99h59min
Load capacity	See below table	See below table
Max. capacity	3.0kg	2.5kg
Motor	DC brushless	DC brushless
Operating ambient	4-45°C	4-45°C
Dimensions (mm)	280 x 270 x 110 mm	280 x 270 x 110 mm

Ordering information

No.	Code	Description
01	AS-04030-00	OS-100, AC100-240V, 50/60HZ, 2A
02	AS-04020-00	OS-200, AC100-240V, 50/60HZ, 2A
03	AS-04021-01	PP-1, flat platform with non-slip rubber mat
04	AS-04021-02	PP12-100, platform with clamps for flasks, 100-150ml
05	AS-04021-03	PP06-250, platform with clamps for flasks, 250-300ml
06	AS-04021-04	UP-1, universal platform with adjustable bars for different types of flasks, bottles
07	AS-04021-05	MP-1, platform with springs

02 OS-300 Orbital Shaker



Description

OS-300 Orbital Shaker holds a multi-function shaking system. And the intensive multi-function shaking system surpasses all previous levels of experience! You can set the shaking modes in maximum nine ways of Forward / Backward / Pause / Mix & match upon your various laboratory purposes

Features

1. Professional control electronics and programmable control
 - Microprocessor PID controls, programmable control
 - Self-diagnostic function identifies any errors
2. Brushless DC motor applications for smooth shaking
3. Multi-function Shaking System
 - Run time
 - Forward & Backward, Pause

Specification

Model	OS-300
Shaking speed	50-250rpm
Orbit	10, 15, 20mm available (15mm as factory default)
Program function	Programmable, 9 steps, 9 programs
Load capacity	8kg
Timing Range	1min-99h59min
Load capacity of platform	See below table
Base platform size (mm)	270 × 240 mm
Dimensions (mm)	320 × 350 × 145 mm
Weight	17.5kg
Erlenmeyer flask capacity	See below table

Ordering information

No.	Code	Description
01	AS-04050-00	OS-300, AC90-240V, 50/60Hz, 2A
02	AS-04051-01	Flask Clamps SH100 for 50~100ml
03	AS-04051-02	Flask Clamps SH250 for 200~250ml
04	AS-04051-03	Flask Clamps SH500 for 500ml
05	AS-04051-04	Flask Clamps SH1000 for 1000ml
06	AS-04051-05	S-PP-1 Platform w320 x d290mm
07	AS-04051-06	S-PP-2 Platform w300 x d270mm
08	AS-04051-07	S-UP-1 Platform w340 x d280 x h175m
09	AS-04051-08	S-UP-2 Platform w340 x d280 x h175mm

01 MD200 Series Sample Concentration

Description

MD200-1 / MD200-2 / MD200-1A sample concentration consists of a base and stand assembly, sample holder and gas distribution system

Features

1. Blowing a large number of samples at one time
2. Easy operation, safe and reliable to use, amount of airflow can be adjusted
3. High precision and wide range of temperature control



MD200-1



MD200-1A



MD200-2

Specification

Model	MD200-1	MD200-1A	MD200-2
Temperature control range	RT.+5°C~150°C	RT.+5°C~150°C	RT.+5°C~150°C
Temp. control accuracy @40~100°C	±0.5°C	±0.5°C	±0.5°C
Temp. control accuracy @100-150°C	±1°C	±1°C	±1°C
Temp. accuracy for blocks @40°C	±0.3°C	±0.3°C	±0.3°C
Display Accuracy	0.1°C	0.1°C	0.1°C
Heating Time (from 40-150°C)	≤30min	≤30min	≤30min
Standard Blocks	1	1	2
Needle Length	150mm	80mm	150mm
Nitrogen Consumption	0~15L/min	0~15L/min	0~15L/min
Dimension (mm)	280 × 240 × 500 mm	280 × 240 × 500 mm	280 × 240 × 500 mm

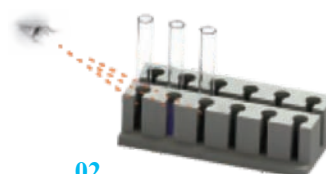
02 KD200 Sample Concentration

Features

1. Professionally-designed block, tester can be observed at the surface location of concentrated samples
2. Depending on the test-tube size and solvent volume they can be individually raised or lowered to the height
3. Easy operation; safe and reliable to use



01
Flow Control Valve



02
KD200 Visual diagram

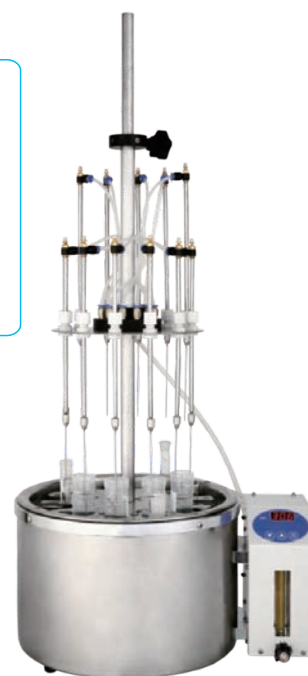
Specification

Model	Kd200
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 to 150°C)	≤30min
Timer range	1min-99h59min
Maximum input power	400W
Temp. control discrepancy	0.1°C
Needle length	150mm
Capacity	12pcs
Dimensions (mm)	280 × 240 × 500 mm

03 WD-12 Sample Concentration

Features

1. Accommodates samples in test tubes 10 to 29mm diameter, Volumes from 1 ml to 50 ml
2. LED display, 12 position, Circular stand turns so each sample is accessible from the front
3. A needle valve adjusts gas flow at each position
4. Water bath provides gentle heat, Temperature setting range: Ambient temperature ~ 99°C
5. All metal parts are made of stainless steel, nickel chromed brass or anodized aluminum



Specification

Model	WD-12
Temperature control range	RT.+5°C~99°C
Temperature control accuracy	±1°C
Tube size	10-29mm
Beaker / Tube size	<Φ30 mm
Gas flow	0-15L/min
Nitrogen Consumption	330ml/min
Needle Length	150mm
Accommodates samples	12pcs
Inner dimension	Φ260 x 150mm

Ordering information

No.	Code	Description
01	AS-06050-00	MD200-1, AC220V/AC120V, 50/60Hz, 200W
02	AS-06060-00	MD200-1A, AC220V/AC120V, 50/60Hz, 200W
03	AS-06070-00	MD200-2, AC220V/AC120V, 50/60Hz, 400W
04	AS-06090-00	Kd200, AC220V/AC120V, 50/60Hz, 400W
05	AS-06080-00	WD-12, AC220V/AC120V, 50/60Hz, 1000W
06	AS-06051-01	150mm Needles (just for MD200-1and MD200-2)
07	AS-06061-01	80mm Needles (just for MD200-1A)
08	AS-06081-01	150mm Needles (just for KD200 and WD-12)
09	AS-06051-02	Flow Control Valve (optional)

Accessories

MD200 series Sample Concentration (BK19 and BK20 are special for MD200-1A)

No.	Code	Type	Description	Dimensions(mm)
01	AS-01081-01	BK01	49 x Φ 6mm	96 x 96 x 49mm
02	AS-01081-02	BK02	49 x Φ 7mm	96 x 96 x 49mm
03	AS-01081-03	BK03	25 x Φ 10mm	96 x 96 x 49mm
04	AS-01081-04	BK04	25 x Φ 12mm	96 x 96 x 49mm
05	AS-01081-05	BK05	25 x Φ 13mm	96 x 96 x 49mm
06	AS-01081-06	BK06	12 x Φ 15mm	96 x 96 x 49mm
07	AS-01081-07	BK07	16 x Φ 15mm	96 x 96 x 49mm
08	AS-01081-08	BK08	12 x Φ 16mm	96 x 96 x 49mm
09	AS-01081-09	BK09	16 x Φ 16mm	96 x 96 x 49mm
10	AS-01081-10	BK10	12 x Φ 19mm	96 x 96 x 49mm
11	AS-01081-11	BK11	16 x Φ 19mm	96 x 96 x 49mm
12	AS-01081-12	BK12	9 x Φ 20mm	96 x 96 x 49mm
13	AS-01081-13	BK13	9 x Φ 26mm	96 x 96 x 49mm
14	AS-01081-14	BK14	4 x Φ 28mm	96 x 96 x 49mm
15	AS-01081-15	BK15	4 x Φ 40mm	96 x 96 x 49mm
16	AS-01081-16	BK16	49 x 0.5ml tubes	96 x 96 x 49mm
17	AS-01081-17	BK17	25 x 1.5ml tubes	96 x 96 x 49mm
18	AS-01081-18	BK18	25 x 2.0ml tubes	96 x 96 x 49mm
19	AS-01091-01	BK19	96 x 0.2ml tubes	78 x 114 x 26mm
20	AS-01091-02	BK20	96 x 0.2ml microplate	81 x 123 x 19mm
KD200				
No.	Code	Type	Description	Dimensions (mm)
01	AS-06091-01	BD01	12 x Φ 10mm	192 x 96 x 49mm
02	AS-06091-02	BD02	12 x Φ 12mm	192 x 96 x 49mm
03	AS-06091-03	BD03	12 x Φ 13mm	192 x 96 x 49mm
04	AS-06091-04	BD04	12 x Φ 15mm	192 x 96 x 49mm
05	AS-06091-05	BD05	12 x Φ 16mm	192 x 96 x 49mm
06	AS-06091-06	BD06	12 x Φ 19mm	192 x 96 x 49mm
07	AS-06091-07	BD07	12 x Φ 20mm	192 x 96 x 49mm

Note: BK19 and BK20 are special for MD200-1A

01 HM-3000 Series Bacti-Cinerator Sterilizer

Features

The Bacti-Cinerator Sterilizer sterilizes micro-organisms utilizing infrared heat produced by a ceramic core element. The ceramic element contains no asbestos and ensures maximum sterility without splatter across the work surface area. Complete sterilization occurs within 5-7sec at optimum sterilizing temperature of 1500°F (815.6°C). The small footprint makes the Bacti-Cinerator Sterilizer an ideal instrument for anaerobic and aerobic chambers alike. Several user friendly accessories are also available for the Bacti-Cinerator sterilizer

Specification

Model	HM-3000A	HM-3000C	HM-3000D	HM-3000E
Center High-temperature	825°C±50°C	825°C±50°C	825°C±50°C	825°C±50°C
Adjustable angle range	----	----	55°	55°
Max-Sterilizer Goods diameter	Φ14mm	Φ35mm	Φ14mm	Φ35mm
Length of Sterilizer	150mm	100mm	150mm	100mm
Dimensions (D x W x H) mm	185 x 98 x 185 mm	162 x 98 x 225 mm	159 x 100 x 260 mm	153 x 100 x 280 mm
Power	170W	320W	170W	320W
Weight	1.3kg	1.3kg	1.5kg	1.6kg



HM-3000A



HM-3000C



HM-3000D



HM-3000E



HM-3000D and
HM-3000E
Adjustable heater

Ordering information

No.	Code	Description
01	AS-07020-00	HM-3000A, AC220V/AC120V, 50/60Hz, 1A
02	AS-07050-00	HM-3000C, AC220V/AC120V, 50/60Hz, 1A
03	AS-07090-00	HM-3000D, AC220V/AC120V, 50/60Hz, 1A
04	AS-07100-00	HM-3000E, AC220V/AC120V, 50/60Hz, 1A
05	AS-07021-01	220V Heater for HM-3000A
06	AS-07021-02	120V Heater for HM-3000A
07	AS-07051-01	220V Heater for HM-3000C
08	AS-07051-02	120V Heater for HM-3000C
09	AS-07021-03	Holder for HM-3000A
10	AS-07051-03	Holder for HM-3000C

02 GBS-5000 Series Glass Bead Sterilizer

Features

Glass Bead Sterilizers are a Quick, Easy and Accurate alternative to traditional methods of sterilization, and compact enough to be placed on any Laminar Air Flow Work benches or any other worksite tables in a clean room atmosphere.



GBS-5000A



GBS-5000B

Specification

Model	GBS-5000A	GBS-5000B
Crucible size	Φ40mm x 80mm	Φ40mm x 140mm
Weight of Glass Bead	150g	300g
Temperature Range	100°C~300°C	100°C~300°C
Temp. Control Accuracy	≤5°C	≤5°C
Heating Time (40°C~300°C)	≤25min	≤25min
Power	120W	250W
Weight	2kg	2.5kg
Dimensions (mm)	130 x 145 x 155 mm	130 x 145 x 215 mm

Ordering information

No.	Code	Description
01	AS-07070-00	GBS-5000A, AC200-AC240V/AC100-AC120V, 50/60Hz
02	AS-07080-00	GBS-5000B, AC200-AC240V/AC100-AC120V, 50/60Hz
03	AS-07071-01	150g Glass beads (Φ3mm)
04	AS-07071-02	300g Glass beads (Φ3mm)

01 MiniT Series Biological Indicator Incubator



MiniT-1



MiniT-3

Description

The MiniT-1 and MiniT-3 Biological Indicator Incubator are designed for temperature incubation of the EO Biological Indicators. Both of them are compact, tabletop incubator.

Features

1. LCD display
2. User can set the incubating temperature and time.
3. Exact correspondence of the set and actual temperature
4. It is easy to set up and use
5. The Incubator has many wells for placement of the biological indicator vials and the wells can be custom-made.

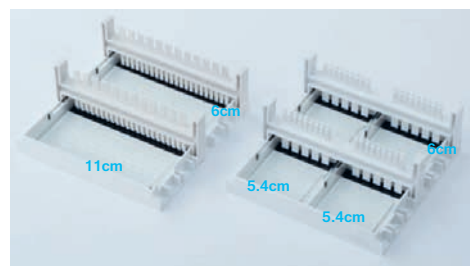
Specification

Model	MiniT-1	MiniT-3
Temp. Control Range	RT.+5°C~80°C	RT.+5°C~100°C
Timer Range	1min-99h59min	1min-99h59min
Temp. Control Accuracy	±0.5°C	±0.5°C
Display Accuracy	±0.1°C	±0.1°C
Heating Time(25 to 57°C)	≤6min	≤6min
Dimensions (mm)	110 x 150 x 80	120 x 152 x 112
Weight	0.5kg	0.85kg

Ordering information

No.	Code	Description	
01	AS-09020-00	MiniT-1, AC100~240V, 50/60Hz, 0.5A	
02	AS-09030-00	MiniT-3, AC100~240V, 50/60Hz, 0.5A	
Accessories			
No.	Code	Type	Description
01	AS-09021-01	A-MiniT-1	15 x Φ10mm
02	AS-09021-02	B-MiniT-1	12 x Φ12mm
03	AS-09021-03	C-MiniT-1	6 x Φ15mm
04	AS-09021-04	D-MiniT-1	6 x Φ16mm
05	AS-09021-05	E-MiniT-1	24 x Φ8.8mm
06	AS-09021-06	F-MiniT-1	18 x Φ9mm
07	AS-09021-07	G-MiniT-1	12 x Φ12.5mm
08	AS-09021-08	H-MiniT-1	6 x Φ16.5mm

01 Mini-ES Mini-Electrophoresis System



Specification

Input Power	AC100~120V, 50~60Hz / AC200~240V, 50~60Hz
Output Power	DC35V / DC50V / DC100V
Bath Dimensions (mm)	110 x 121 x 43mm
Volume of Bath	230ml
Construction of Bath	PC+ABS with high temperature resistance
Timer range	1min~99min
Max.Power	40W
Dimensions (mm)	190 x 130 x 60mm

Accessories

Tooth wide (width x thickness x no.)	3mm x 1mm x 22 / 5.6mm x 1mm x 12 / 3mm x 1mm x 18 / 5.6mm x 1mm x 10
Gel Dimension (W x D)mm	126 x 126mm-1pcs
Gel Migration Board (W x D)mm	110 x 60mm-2pcs / 54 x 60mm-4pcs

Ordering information

No.	Code	Description
01	AS-14010-00	Mini-ES1, AC100~120V, 50~60Hz
02	AS-14020-00	Mini-ES2, AC200~240V, 50~60Hz

02 K37-24 Gel Card Incubator

Description

The K37-24 Gel card incubator can be suitable for many types Gel cards from different manufacturers

Features

1. 2 independent incubation zones with a capacity for 12 Gel cards
2. Incubator for 24-Gel Cards in racks at 37°C
3. Digital interface screen for control and visualization of remaining incubation time and real temperature for each zone



K37-24

03 TD2-12/TD2-24 Gel Card Centrifuge

Description

The Gel card centrifuge holds automatic balance control and user can set speed and centrifugation time. It can be suitable for many types Gel cards from different manufacturers.

Features

1. Digital interface visor control and visualization of centrifuge speed and time remaining for processing
2. Automatic balance control
3. Pre-defined centrifugal parameters for optimum Gel cards processing; acceleration, speed, braking and time
4. Programmable audible alarms for end of centrifuge time periods



TD2-24



TD2-12

Specification

Model	K37-24	
Temperature	37°C	
Temperature uniformity	≤0.5°C	
Temperature stability	≤0.2°C	
Temperature accuracy	<0.5°C	
Capacity	24 Gel cards	
Power	220V 3A 300W	
Dimensions (mm)	220 × 380 × 140 mm	
Model	TD2-12	TD2-24
Speed Range	800~1800rpm	500~1500rpm
RCF. Range	54~272 × g	33~294 × g
Capacity	12 Gel Cards	24 Gel Cards
Timer	1~20min	1~20min
Noise	≤55db	≤55db
Power	AC100-240V 85W	AC100-240V 85W
Dimensions (mm)	440 × 340 × 170 mm	530 × 410 × 180 mm
Weight	7kg	11.5kg

Ordering information

No.	Code	Description
01	AS-10020-00	K37-24, Ac120 / AC220V, 50/60Hz, 3A
02	AS-10030-00	TD2-12, AC100~240V, 50/60Hz, 3A
03	AS-10010-00	TD2-24, AC100~240V, 50/60Hz, 3A

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