MAXOME
LABSCIENCES

INSTRUMENT CATALOGUE
2020-2021

Centrifuge
Micro Centrifuge (Fixed speed)

- Low noise, smooth operation, the use of durable and maintenance freebrushless DC motor, safety and reliable
- The use of advanced technology, wide voltage speed is not affected byvoltage fluctuation, high speed precision
- Can accommodate filtering centrifuge tube, wide application range
- Random configuration two turned and two kinds of casing, multi-use
- Safety in line with international standards
- Use flip the switch function, lifted the lid that turn, open the stop, easy to operate

Model No.	ML-TD-6K	ML-TD-10K
Max. Speed	6000 rpm	10000 rpm
RCF	6000 g	7500 g
Rotor	6 x 1.5ml with (0.2/0.5ml tube adapters)	
PCR Strip Rotor	2 x 8 x 0.2ml PCR Strip/Tube	
Noise	<45 dB	<55 dB

Micro Centrifuge
(Fixed & variable speed with timer)

- Large radius rotor with 8 tube holes, centrifugal force is 1.5 times biggerthan ordinary 6-hole rotor at the same rolling speed
- The cover switch is designed in such a way that it automatically bounce95 degrees which is convenient for one-hand operation
- The rotor is clip-on fixed. It is very convenient for rotors exchanging andpick-and-place
- LED display the rolling speed and timing
- Practice silent and stable. Maintenance- free motor, long life and safe.
- Delicate appearance. Multi-purpose to meet different experiments demands

Model No.	ML-Mini-7K	ML-Mini-10K	ML-Mini-10K+
Speed Control		Fixed	Variable
Speed Range	7000 rpm	10000 rpm	3000 ~ 10000 rpm
Max. RCF	3400 g	7500 g	1000 ~ 7500 g
Sample Capacity	8 x 1.5ml with (0.2/0.5ml tube adapters)		
Timer	99min 59s		
Noise	<55 dB		
Dimensions	175 x 156 x 125 (mm)		
Weight	<1.5 kg		
Power	220V/110V 50-60HZ		

Micro Centrifuge
(Variable speed with timer)

- Max speed of 12000 rpm with 3-in-1 rotor
- Worldwide voltage operation with stable running and high accuracy of speed
- DC motor drive
- Quiet running noise level ≤45
- The rotor is seated on a tapered shaft which facilitates easily removal
- Ideal for quick spin downs and motor filtration
- Accelerates and brakes in seconds
- Adjustable time and speed
- Precise control of speed and run with efficient separation

Model No.	ML-Mini-12K+
Max. Speed	12000 rpm
Max. RCF	7500 g
Rotor capacity	6 x 0.2/0.5/1.5ml & 2 x 8 x 0.2ml PCR strips
Timer	99minutes
Driving Motor	DC motor
Noise	<45 db
Dimensions	196 x 176 x 122 (mm)
Weight	1.5 kg
Power	100-240V @50-60HZ

SPINPLUS CENTRIFUGE

1. LCD display showing
2. Open ltd automatically \ Safety lid-iocK
3. MaK.rotational speed: 100-5GD0 rpm
4. RPM and RCF can be switched in display showing
5. 3 or & of 15 mi conical tubes wJ|h screw caps can be placed
6. Temperature, ensure the sample undamaged. Sound alert & automatic open the lid after the rotor slops
7. Adjustable specddOO * 5000 rpm. Max relative centrifugal force: 2353xg High accuracy of speed and time,excellent performance. More samples Is dealt at one time with high efficiency, S, According different Kinds requirement with multiple options for selecting different hinds of centrifuge
8. 3. (I indude the spacer layer outside chamber for absorbing the noise. reducing the vibration; over speed.

   over-Current! .over-voltage protection and imbalance system ensure the machine Operating Safely, sound alert after operating or error, !he LED display show the corresponding error code

MAXOSPIN PROGRAMMABLE CENTRIFUGE

1. Safety lid-lock. prevents opening lid until rotor stops
2. DC motor free of maintenance
3. Short spin and timing set spin patterns make it more efficient
4. LCD Green displays time and speed convenient to set and road
5. Use the advance and reliable CPU control system, can be control the RPM. RCF and time accurately.
6. Ventilation cooling system and' excellent air heat exchange technology which will be reduced the rotortemperature, ensure the sample undamaged. Sound alert and automatic open the lid after the rotor stops
7. Adjustable speed: 100- 5000 rpm. Max relative centrifugal force:2850xg High accuracy of speed and time,excellent performance. More samples Is dealt at one time with high efficiency,
8. According different Kinds requirement with multiple options for selecting different hinds of centrifuge
9. It induce the spacer layer outside chamber for absorbing the noise.Reducing the vibration; over speed.

   Over-Current, over-voltage protection and imbalance system ensure the machine operating safely. Soundalert after operating or error, the LED display show the corresponding error code

SPECIFICATION DETAILS OF ROTOR

Model	Specifications
ML-MPGC-01	3ml(5ml)(8ml) vacuum tueX18 double row angle rotor Max RCF 2545xg
ML-MPGC-02	3ml(5ml)(8ml) vacuum tubeX18 single row angle rotor Max RCF 2850xg
ML-MPGC-03	3ml(5ml)(8ml) vacuum tubeX24 double row angle rotor Max RCF 2850xg
ML-MPGC-04	3ml(5ml)(8ml) vacuum tubeX12 rotors or 15ml conical tubeX12 rotors Max RCF 2850xg
ML-MPGC-05	50ml conical tubeX6 angle rotor
ML-MPGC-06	3ml(5ml)(8ml) vacuum tubeX6 rotors or 15ml conical tubeX6 rotors Max RCF 2510xg

MAXOSPIN PROGRAMMABLE CENTRIFUGE

Model	MAXOSPIN
Speed Range	increment :100-5000rpm
Max RCF	2850xg
Max.Sample Capacity	8ml/5ml/3mlx24,50mlx6
Time Range	0-99m,59s
Safety	safety lid-lock, imbalance system
Working Noise	<56dB
Acceleration/Deceleration	20s|20s|
Power	200W

Micro Plate Centrifuge (ML-MPC-01)

Product description: Micro-plate Centrifuge ML-MPC-01 is specially designed for the 96-hole micro plates. It can quickly spin down droplets and condensation.it is used before and after thermal cycling to improve PCR yield. Put the Micro plate from the slots of the top vertically (Leakage for liquid will be kept in the micro plate under the action of surface tension).the spin down work is easily finished. Two operation modes humanized configured –short mix and time setting operation. Make the experiment more convenient and efficient.

Features

1. Wide applicable range,it suits for skerted,non skirted,semi slerted and standard PCR paltes.

2. Strong centrifugal power,accelarate to 2800 quickly,from top speed to stop cost around 10 second.

3. Humanised design two modes-Press to operate or time controler.

4. Smart size simple operation. The cover can be fully opened to 95 degree convinient to put the plate.

5. Quick spin down droplets and condensation. Used before and after PCR.

Model No	ML-MPC-01
Speed range	2800rpm
RCF	627g
Sample capacity	2 Plate
Rotor	Fixed vertically
Time range	1S-99 or touch operation
Voltage	DC 24V
Power	40W
Dimention(WXDXH)	190X219X186 mm
Net weight	2.7 Kg

MINI HIGH SPEED CENTRIFUGE

8. Conform to I EC 1010-2-020 safety regulations

9. Separate Short Spin button for fast, convenient quick spins

10. Excellent air-flow mi ni mites h eating-protects temperature-sensitive samples

11. Lid automatiDeify opens at the end of the run to reduce

12. Maintenance-free drive

13. Rotor isautodavable at 12TC, 20 min

14. Chemical resistant inner centrifuge lid

1. Extremely compact with exceptionally small footprint

2. 12x1 -5/2.0 ml capacity rotor

3. Spin up to M,SOD rpm .14.100 X g

4. Deceleration and acceleration of < 13s

5. Clear. easy-to-use digital display of time and speed

6. Remarkably quiet operation

7. Metal rolor

Model	ML-MXspin-01	ML-MXspin-02
Power supply	110V-60HZ or 230V-50HZ>60 H Z	110V-60HZ or 230V 50HZ/60HZ
Power requirement	100W	105W
Max rotational speed	800-13400 –rpm (in 1000 rpm increments)	800-14,600 rpm (in 1000 rpm increments)
Relative centrifugal force (RCF)	12100xg	14100xg
Timer	15sec--99min	15 sec—99min
Acceleration lime to max. speed	13s	13s'
Braking lime from max. speed	12s	12&
Dimensions in cm (WxDxH)	26x26x15	26x26x15
Weight {including rotor)	4.3Kg	4.3kg

HIGH SPEED REFRIGERATED CENTRIFUGE

Centrifuge

Cat No.	Description
ML3024	High Speed Micro Centrifuge
ML3024R	High Speed Refrigerated Micro Centrifuge
ML2012RTK1	0.2ml Rotor Adapter Kit Used with 1.5ml Rotor
ML2012RTK2	0.5ml Rotor Adapter Kit Used with 1.5ml Rotor
MLRT05	Rotor 0.5ml x 36 tubes
MLRT05L	Rotor 5ml x 18 Tubes

- Brushless DC Motor
- Safety devices like door lock, Over Speed & Temperature detection Explosion proof
- Pre Cooling program ensures protection of sample before warming
- Guaranteed 2 C Cooling within 7 minutes for both chamber and samples Quiet Running, Noise level < 54db
- Locked Lid after operation maintains temperature CFC Free refrigerant
- Bright & Sharp Backlight LCD Display
- Anti-Sample Overflow Rotor Design Prevents accidental Leakage
- High Strength Aluminum Alloy Rotor, Fully Autoclavable
- Unique Rotor design ensures self-aligning& high stability

Specifications	ML-D3024	ML-D3024R
Speed	15000 RPM (200-15000 RPM, Inc. 10 RPM)	
Speed Accuracy	+ 20 RPM	
RCF	21380xg, Inc. 10xg	
Temperature Range	n/a	-20oC ~ 40OC
Timer	30s-99min	
Motor	Brushless DC Motor	
Rotor	0.2ml/0.5ml/1.5ml/2ml x 24	
Safety	Door lock, Over Speed & Temperature Detection, Auto Internal Diagnosis	
Advance Features	Speed/RCF Switch, Short Time Run Function, Sound Alert Function	
Dimensions	280(L)x364(B)X266(H)	338(L)x580(B)X324(H)
Weight	12 Kg	30kg

High Speed Refrigerated Centrifuge

Brushless DC Motor.

Safety devices like door lock, Over Speed & Temperature detection Explosion proof Pre Cooling program ensures protection of sample before warming Guaranteed 2 C Cooling within 7 minutes for both chamber and samples Quiet Running, Noise level < 54db.

Locked Lid after operation maintains temperature CFC Free refrigerant.

Bright & Sharp Backlight LCD Display Anti-Sample Overflow Rotor Design Prevents accidental Leakage High Strength Aluminium Alloy Rotor, Fully Autoclavable Unique Rotor design ensures self-aligning & high stability

Technical Parameter:

Model NO	ML-RC-01
Max Speed	18500r/min
Max RCF	23797×g
Max Capacity	4×100ml
Speed control accuracy	±50r/min
Temp setting range	- 20°C ~ 40°C
Temp accuracy	±2°C
Temp range	1min~ 99min59s
Noise level	<65dB(A)
Motor	AC frequency conversion motor
Power Supply	AC220V 50/60Hz 16A
Dimension	420×670×400(mm)
Weight	75kg

VORTEX MIXER

- New vortex mixers suitable for touch or continuous operation
- Stepless speed regulation of motor
- Adapters securely clicked onto appliance in any position
- Sturdy cast casing
- Specially designed silicone feet and steel base for excellent vibration damping
- Eccentric with oilless ball bearings

Model No.	ML-MIX-28	ML-MIX-28+	ML-MIX-40+
Speed Range	2800 rpm (Fixed)	0 ~ 2800 rpm	0 ~ 4000 rpm
Orbit		4.5 mm	
Capacity		50 ml	
Dimensions		110 x 70 (mm)	
Weight		1.2 kg	
Power		AC 90 ~ 230V / 15W	

MAGNETIC STIRRER

- Distinct designed with ceramic surface
- Long using life with no carbon brush motor
- Speed& time regulation, large LCD display
- Strong magnetism to avoid stirrer jumping

Model No.	ML-MS-25	ML-MS-17A
Max. Speed	2500 rpm	1600 rpm
Capacity	250 ml	2 Ltrs.
Platform Size	Ø 88 mm	150 X 150 (mm)
Weight	1 kg	3 kg

- Distinct designed with ceramic surface
- Long using life with no carbon brush motor
- Speed& time regulation, large LCD display
- Strong magnetism to avoid stirrer jumping

Model No.	ML- MS-17D	ML- MS-15D
Capacity	2 Ltrs.	20 Ltrs.
Max. Speed	1500 rpm	
Platform Size	150 x 150 (mm)	155 x 155 (mm)
Power	100-240V	50-60 Hz

MAGNETIC STIRRER WITH DIGITAL DISPLAY

1. Digital display and constant temperature
2. Max Keating temperature 3S0'C{Accuracy ±1"C),uniform temperature distribution
3. Aluminum panel with ceramic cover extremely resistant to corrosion and easy to clean
4. Separate safety circuits with fixed safety temperature of 360T.automatically stopsheating once exceed secure temperature
5. Stable temperate re technology precise controls heating process
6. High quality of motor, maintenance free and explosion-proofed, accurately control speed
7. Strong magnetic lo avoid the magnetic stirring bar escaping.

Name	Model No.	Plate Size	RPM	Heating	Capacity	Platform
Magnetic stirrer with Digital Display	ML-HSC-19T	19'19cm	0-1600	330^	5 Liter	Ceramic Panel

HOT PLATE STIRRER

- Distinct designed with ceramic surface
- Long using life with no carbon brush motor
- Separate speed & temperature regulation
- Strong magnetism to avoid stirrer jumping

Model No.	ML-MSH-25A
Max. Speed	2500 rpm
Temp. Range	Amb. ~ 350° C
Capacity	2 Ltrs.
Platform Size	150 x 150 (mm)
Dimensions	270 × 156 × 70 (mm)
Weight	2.3 kg
Power	100-240V 50-60 Hz

HOT PLATE STIRRER (DIGITAL)

- Ceramic coated plate, chemically resistant and scratch proof
- Even heat distribution
- Thermal insulation for cool body operation
- Digital set up temperature controller with independent LED display
- Maximum heating plate temperature upto 380°C
- Single multi-turn intelligent knob operation

Model No.	ML-MSH-17D	ML-MSH-15D
Max. Speed	200 ~ 1500 rpm	
Temp. Range	Amb.+5 ~ 380° C	
Capacity	2 Ltrs.	20 Ltrs.
Display	Temperature, RPM & Time	Temperature & RPM
Platform Size	150 x 150 (mm)	155 x 155 (mm)
Adjustable safety cut off	50 ~ 400° C	
Dimensions	310 × 180 × 110 (mm)	
Weight	3.5 kg	
Power	230/115 V 50/60 Hz	

HAND HELD HOMOGENIZER

- Designed smart and light. Can operate in one hand
- Speed adjustable, digital display speed. Speed precisely controlled to avoid   splashing
- Suitable for homogeneous dispersion of a small amount of sample in small container
- High quality stainless steel dispersing head, anti-corrosion, high temperature resistance for disinfecting
- Easy to take off the dispersing head for cleaning
- High speed and high efficiency motor, long life
- Optional H-type stand, height and angle can be adjusted, convenient to take and store

Model No.	BT-MT-13K	BT-MT-30K
Speed Range	13000 rpm	8000 ~ 35000 rpm
Rotor Inline Speed	6.3 ~ 14m/sec	
Noise	60 dB	72 dB
Dimensions	25 x 25 x 160 (mm)	46 x 55 x 230 (mm)
Weight	0.1 kg	0.7 kg
Power	230V / 50Hz	230V / 50Hz
Optional Accessories	A) Head for 0.5 - 50ml	
	B) Head for 1 - 100ml	
	C) Head for 1 - 250ml	
	D) H type Stand	

OVERHEAD STIRRER

- LCD display real-time speed and torque, accurate display of speed actual value/ set point can switch the display torque
- Constant speed, torque is automatically adjusted according to the sample viscosity changes, to maintain the set speed
- The whole full-proof, explosion-proof brushless DC motor to ensure laboratory safety
- Security protection, including overload protection and motor protection, there have been automatically cut off the circuit when overload, short circuit and speed abnormal situation and the police, to ensure safe operation and laboratory safety
- Anti-spilling, smooth start, prevent spilling
- Closed shell liquid has been spilled into the machine to prevent internal corrosion circuit to ensure safe operation. Ultra-long continuous and stable operation
- Open the RS232 data output port via RS232

Model No.	ML-MS-20	ML-MS-40
Speed Range	50 ~ 2200 rpm	
Speed Accuracy	± 3 rpm	
Max. Torque	40 [N.cm]	60 [N.cm]
Max. Viscosity	10000 [mPas]	50000 [mPas]
Max. Stirring Capacity	20 Ltrs.	40 Ltrs.
Drill Chuck Clamping	0.5 - 10 (mm)	
Dimensions	83 x 220 x 186 (mm)	
Weight	2.6 kg	2.8 kg
Power	100-240V 50/60Hz	

ROCKING SHAKER

- Platform made of stainless steel and natural rubber, which is alkali-resistant, non-deformation, easy-clean and spill-prevention
- Speed real-time display and diminishing time display
- The bearing is articulated rotating, secure and no wear, suitable for prolonged use
- Compact designed, take up very little space
- Brushless DC motor, maintenance-free

Model No.	ML-HS-25
Speed Range	10 ~ 80 rpm
Tilt Angle	10°
Timer	1min ~ 99h59min
Platform Size	280 x 228 (mm)
Dimensions	284 × 264 × 100 (mm)
Power	110V/220V

MICRO-PLATE SHAKER

- LED digital display; simple and easy operation panel, can accurately display the time and the speed of shaking parameters
- Speed and time under the microprocessor control, shaking speed accurately, small fluctuation; safe and stable without noise
- Can accommodate 4 standard PCE plate or micro plate, mixed trace amount of sample efficiently
- DC brushless motor, long life, free of maintenance. Can provide gentle and powerful vortex
- Humanized timing function, alarm notification after program completion

Model No.	ML-MIX-1500
Speed Range	300 ~ 1500 rpm
Orbit	3mm (horizontal)
Timer	99h59min
Dimensions	284 x 264 x 110 (mm)
Weight	6 kg

ORBITAL SHAKER

ML-GS-20 Orbital Shaker is Compact and amazingly designed. It can be used for virtually any mixing applications in different area. It uses DC brushless motor and microcomputer control technology, humanized design, simple and convenient operation. The shaker can be applicable in different laboratories: in microbiology, chemistry, immunology, biochemistry, and molecular biology. Low-cost operation, safe, stable without noise.

Optional Platforms for ML-GS-20

ML-PP12-100   ML-PP06-250   ML-UP-12   ML-PP-4

Model No.	ML-GS-20
Speed Range	50 ~ 300 rpm
Orbit	20 mm
Timer	1 min ~ 100 hr
Load Capacity	2.5 kg
Dimensions	284 x 264 x 90 (mm)
Optional Platforms	A) Platform for 12 x 100ml flask B) Platform for 6 x 250ml flask C) Universal Platform D) Platform for Petri Plates

ORBITAL SHAKER

- Touch-screen panel, LED 2-screen digital display actual and setting rpm
- Three-point bearing transmission is adopted suitable for heavy loads and continuous duty
- Shaking smoothly and quietly
- Shaking plate can bear heavy load
- Long service time
- Memory of power cut, uses brushless AC motor
- Choose one set of clamps

Model No.	ML-TS-520D	ML-TS-560D	ML-TS-580D
Speed Range		30 ~ 250 rpm	
Stroke		50 mm	
Timer		999H 999M 999S	
Platform Dimension (mm)	400 x 300	600 x 480	960 x 600
Overall Dimension (mm)	400 x 300 x 220	600 x 480 x 220	960 x 600 x 220
Weight	16 kg	53 kg	98 kg

Optional Flask Clamps for ML-TS-520D, ML-TS-560D &ML-TS-580D

Model/Flask	125ml	250ml	500ml	1Ltr.	2Ltr.	3Ltr	4Ltr.	5Ltr.
ML-TS-520D	20	12	6	4	2	1	1	1
ML-TS-560D	48	30	20	12	8	6	6	4
ML-TS-580D	96	60	40	24	15	15	12	8

3D ROTATING MIXER

- Unique combination of adjustable rotating frame
- A variety of rotation modes, from mild type to somersault type rotation mode
- Provide three types of rotating frame

Model No.	ML-RH-18	ML-RH-18+
Rotating speed	18 rpm	10 ~ 40 rpm
Timer	N/A	1s ~ 999min
Oscillation Angle	N/A	20° ~ 99°
Dimensions	240 x 145 x 210 (mm)	
Weight	1 kg	1.2 kg
Power	220V/110V	100-230V
Attachments Included	A) 2 units for (5 x 15ml + 6 x 5ml) B) 2 units for (3 x 50ml +18 x 0.5ml) C) 2 units for (18 x 1.5/ 2.0ml)	

ROTATING MIXER

- Humanized designed operation keyboard. LED display time and speed
- Several optional turntable supplied, suit for the tubes from 1.5ml to 50ml
- The turntable's gradient can be adjusted from 0 to 90 degree
- Timing function. Time range from 0 to 9999min, LED display remainingtime. Beep alarm when program time ends
- DC brushless motor, speed control accuracy, long life andmaintenance-free

Optional Platforms for ML-YC-80

A) 64 x 1.5ml   B) 18 x 15ml   C) 10 x 50ml

Model No.	ML-YC-80
Speed Range	10 ~ 80 rpm
Gradient Range	0° ~ 90°
Timer	9999min
Dimensions	220 x 236 x 246 (mm)
Weight	4.5 kg
Power	100-240VAC 50/60Hz
Optional Platforms	A) 64 x 1.5ml B) 18 x 15ml C) 10 x 50ml

MICRO-TUBE THERMO SHAKER

- Perfect radius and excellent dimensional technology blend with adjustable mixing speed
- High efficient shaking and temperature control, programmable
- Microprocessor controlled and accurate temperature and speed control, small fluctuation
- Various blocks for option, convenient replacement
- Built-in temperature calibration short mixing function
- DC brushless motor drive, long life, free of maintenance
- Multiple safety protection function, conforms to CE safety standards

Model No.	ML-MTC-100		ML-MTH-100
Temp. Range	0° ~ 100° C		Amb.+5° ~ 100° C
Speed Range	300 ~ 1500 rpm		300 ~ 2000 rpm
Orbit		3 mm	
Heating Time		<20min (20° ~ 100° C)	
Timer		99h 59min	
Temp. Uniformity		<+0.3° C	
Display Accuracy		0.1° C	
Cooling Time	25min	-	
Cooling Speed	7°C /min (From 100°C to 20°C) 1.2°C /min (from ambient to ambient - 20°C)	-	
Dimensions		270 x 190 x 170 (mm)	
Weight	8.3 kg	6.8 kg	
Accessories Supplied (Tube holder for mixing)	A) 96 x 0.2ml	B) 24 x 0.5ml	C) 24 x 1.5/2ml
Optional Blocks	A) 96 x 0.2ml PCR plate E) (20 x 0.5ml) + (15 x 1.5ml) I) 96 x 0.2ml Plate (flat bottom) B) 54 x 0.5ml F) (32 x 0.2ml) + (25 x 1.5ml) J) 12 x 15ml C) 35 x 1.5ml G) (32 x 0.2ml) + (10 x 0.5ml) + (15 x 1.5ml) K) 6 x 50ml D) 35 x 2.0ml H) Water Bath (103 x 67 x 30 mm)		

MICRO-PLATE THERMO SHAKER

- LCD display, set & actual temperature display simultaneously, time & shaking speed
- Two-side heating of micro plates that allows achieving exact correspondence of theset and actual temperature in wells of the micro plates
- The microprocessor controls the time and temperature, good linearity, temp.Oscillation speed accuracy, small fluctuation
- Can configure alarm signal after operation ends
- Power restore function, equipment can restore to operate as the original setautomatically
- DC brushless motor drive, long service life, free of maintenance

Model No.	ML-ST-70-2	ML-ST-60-4
Capacity	2 Plates	4 Plates
Temp. Range	Amb.+5° ~ 70°	Amb.+5° ~ 60° C
Speed Range	30 ~ 1200 rpm	
Orbit	3 mm	
Heating Time	<25min (from 20° to 70° C)	
Timer	99h 59min	
Temp. Uniformity	<+0.5° C	
Temp. Accuracy	<0.3° C	
Dimensions	290 x 270 x 135 (mm)	380 x 390 x 160 (mm)

INCUBATOR SHAKER (BENCHTOP MODEL)

- Integrate incubator & shaker. Compact footprint. Save laboratory space
- Micro-processor controls temperature and shaking speed. Timing functionbuilt in, no temperature overshoot problem Heating cut off over the set value
- Cover can be wide angle opened, convenient to watch and fetch the sample
- Built-in cover switch. When the cover is open, air circulation, heating andshaking will automatically stop Independent temperature alarm system
- Unique speed control circuit to ensure shaker smooth starting and avoidliquid spilling
- Speed of the circulation fan is adjustable to avoid high-speed of thecirculation fan making the sample volatilizing
- Brushless DC motor, long life and maintenance free with low noise

Model No.	ML-ES-60		
Temp. Range	Amb.+5° ~ 60° C	Dimensions	420 x 360 x 320 (mm)
Speed Range	50 ~ 300 rpm	Power	110V/220V 250W
Orbit	20 mm	Optional Platforms	A) Platform for 12 x 100ml flask
Temp. Uniformity	<+0.3° C		B) Platform for 6 x 250ml flask
Temp. Accuracy	0.1° C		C) Universal Platform
Timer	99h 59min		D) Platform for Petri Plates

INCUBATOR SHAKER (FLOOR MODEL)

- Inside material is SUS304 and outside body is powder painting
- Install light to view inside clearly & transparent glass observation window
- The compressor will be delayed to start working if power cut and with timer fordefrost. Using environmental protection cold-media R134a
- With safety switch to stop shaking when opening door. Three-point bearing
- Transparent glass observation window
- Three-point bearing transmission is adopted suitable for heavy loadsand continuous duty
- Shaking smoothly and quietly
- Uses brushless AC motor for long durability and stable performance ofthe shaking system

Model No.	ML-LM-400D		ML-LM-450D
Temp. Range		Amb.+5° ~ 70° C	
Speed Range		20 ~ 250 rpm	
Orbit		50 mm	
Timer		999h 999min 999sec	
Temp. Accuracy		+0.1° C	
Platform Size	400 x 300 (mm)		450 x 450 (mm)
Dimension Inner	455 x 390 x 370 (mm)		500 x 540 x 370 (mm)
Dimension Outer	460 x 450 x 540 (mm)		510 x 650 x 540 (mm)
Weight	30 kg		40 kg
Power	110/220v		50/60Hz

Optional Flask Clamps for ML-LM-400D &ML-LM-450D

Model/Flask	50ml	125ml	250ml	500ml	1Ltr.	2Ltr.		
ML-LM-400D	35	20	12	6	4	2		
ML-LM-450D	64	36	25	16	9	5		

INCUBATOR SHAKER

- Inside material is SUS304 and outside body is powder painting
- Screen-touch panel
- Overheat and over load protector, built-in circulating fan for temperaturestability
- With safety switch to stop shaking when opening door
- Transparent glass observation window.
- Three-point bearing transmission is adopted suitable for heavy loads andcontinuous duty
- Shaking smoothly and quietly
- Uses brushless AC motor for long durability and stable performance ofthe shaking system

Model No.	ML-LM-420D		
Temp. Range	Amb.+5° ~ 70° C	Platform Dimension	400 x 300 (mm)
Speed Range	30 ~ 250 rpm	Dimension Inner	450 x 390 x 370 (mm)
Orbit	25 mm	Dimension Outer	520 x 480 x 610 (mm)
Timer	999h 999min 999sec	Weight	30 kg
Temp. Accuracy	+0.1° C	Power	110/220v 50/60Hz

Optional Flask Clamps for ML-LM-420D

Flask	50ml	125ml	250ml	500ml	1 Ltr.	2 Ltr.		
Capacity	35	20	12	6	4	2		

INCUBATOR SHAKER (SINGLE PLATFORM)

- Inside material is SUS304 and outside body is powder painting
- Install light to view inside clearly through transparent glass observation window
- The compressor will be delayed to start working if power cut and with timer fordefrost using environmental protection cold-media R134a
- With safety switch to stop shaking when opening door
- Three-point bearing transmission is adopted suitable for heavy loads andcontinuous duty. Uses brushless AC motor for long durability
- Overheat and over low protector, built-in circulating fan for temperature stability

Model No.	ML-LM-570D		ML-LM-570RD
Temp. Range	Amb.+5° ~ 70° C		0° ~ 70° C
Speed Range		20 ~ 300 rpm	
Orbit		25 mm	
Timer		999h 999min 999sec	
Temp. Accuracy		+0.1° C	
Platform Size	480 x 380 (mm)		960 x 600 (mm)
Dimension Inner	600 x 500 x 500 (mm)		1060 x 700 x 530(mm)
Dimension Outer	680 x 690 x 860 (mm)		1400 x 900 x 950 (mm)
Weight	85 kg		98 kg
Power		220V/50Hz	

Optional Flask Clamps for ML-LM-570D/RD

Flask	125ml	250ml	500ml	1 Ltr.	2 Ltr.	3 Ltr.	4 Ltr.	5 Ltr.
Capacity	48	30	20	12	9	6	6	4

INCUBATOR SHAKER (DOUBLE PLATFORM)

- Inside material is SUS304 and outside body is powder painting
- Install light to view inside clearly through transparent glass observation window
- The compressor will be delayed to start working if power cut and with timer fordefrost using environmental protection cold-media R134a
- With safety switch to stop shaking when opening door
- Three-point bearing transmission is adopted suitable for heavy loads andcontinuous duty. Uses brushless AC motor for long durability
- Overheat and over low protector, built-in circulating fan for temperature stability

Model No.	ML-LM-575D		ML-LM-575RD
Temp. Range	Amb.+5° ~ 70° C		0° ~ 70° C
Speed Range		20 ~ 150 rpm	
Orbit		25 mm	
Timer		999h 999min 999sec	
Temp. Accuracy		+0.1° C	
Platform Size	480 x 380 (mm)		960 x 600 (mm)
Dimension Inner	600 x 500 x 500 (mm)		1060 x 700 x 530(mm)
Dimension Outer	680 x 690 x 860 (mm)		1400 x 900 x 950 (mm)
Weight	90 kg		100 kg
Power		220V/50Hz	

Optional Flask Clamps for ML-LM-575D/RD

Flask	125ml	250ml	500ml
Capacity	30 x 2sets	20 x 2sets	12 x 2sets

DRYING OVEN

- Stainless steel inner chamber; foursquare semicircle transition; flexible positioning andremovable shelf, air duct lateral plate and bottom heater covering are easy assembly anddisassembly for convenient cleaning
- Micro-computer high-brightness digital or liquid crystal temperature controller, which hasfunctions of timing and over-temperature protection
- Adjustable fan speed; set blowing rate as needs to meet the multiple requirements ofexperiment
- Independent temperature safety device; auto alarm and heating suspend when maincontroller fails to work, which provide double protection to ensure experiment run safelyand no accident would happen
- Door with wide double-glass observation window, adjustable air-tight buckle lock andsilicon rubber seal which efficiently prevent heat loss

BE Type has the following characteristics other than the above function:

- With adjustor to adjust the fan speed, the user can choose to use the fan, and adjust the speed to ensure hightemperature evenness, or not use the fan to avoid the powder or other small samples moving the inner chamber
- Large LCD screen shows the multiple data, has the function of timing and over-temperature protection
- Independent audible and visible temperature-limiting alarm system, cut off the power automatically when overtemperature limit, ensures experiments run safely and no accident would happen

Model No.	ML-GP-30B	BML-GP-30BE	ML-GP-45B	ML-GP-45BE	ML-GP-65B	ML-GP-65BE	ML-GP-125B	ML-GP-125BE
Controller	PID	LCD	PID	LCD	PID	LCD	PID	LCD
Temp. Range	As Incubator : Amb.+5 ~ 80° C As Drying Oven 80° ~ 250° C							
Temp. Accuracy	As Incubator : ±0.5° C As Oven : ±1° C							
Temp. Resolution	0.1° C							
Capacity	30 Ltrs.		45 Ltrs.		65 Ltrs.		125 Ltrs.	
Dimension Inner (mm)	310 × 310 × 310		350 × 350 × 350		400 × 360 × 450		500 × 450 × 550	
Dimension Outer (mm)	450 × 490 × 685		490 × 530 × 735		540 × 540 × 830		640 × 630 × 930	
Weight	39 kg		42 kg		47 kg		56 kg	
Power	220V/50Hz							

MICRO-PLATE INCUBATOR

- LCD display, set and actual temperature display simultaneously, time and shaking speed
- User friendly touch operation interface, the streamlined fuselage, beautiful appearance,convenient cleaning
- Two-side heating of micro plates that allows achieving exact correspondence of the set and actual temperature in wells of the micro plates
- The microprocessor controls the time and temperature, good linearity, temperatureoscillation speed accuracy, small fluctuation
- Alarm signal after operation end

Model No.	ML-MT-70-2	ML-MT-60-4
Capacity	2 Plates	4 Plates
Temp. Range	Amb.+5° ~ 70° C	Amb.+5° ~ 60° C
Heating Time	<25min (from 20° to 70° C)	
Timer	99h 59min	
Temp. Uniformity	<+0.5° C	
Temp. Accuracy	<0.3° C	
Dimensions	290 x 270 x 135 (mm)	380 x 390 x 160 (mm)

DRY BATH (MINI)

- Unique design, small size, light weight, convenient movement, suitable forvarious occasions
- Simultaneous display of set and actual time, temperature
- Built-in temperature calibration function
- Automatic fault detection and buzzer alarm function 24V DC power supply input, built-in over-temperature protection device, safeand stable
- Various blocks for convenient replacement, cleaning and disinfection

Model No.	ML-MiniB-100	ML-MiniB-100L	ML-MiniC-100	ML-MiniC-100L
Temp. Range	Amb.+5° ~ 100° C		-10° ~ 100° C	
Thermo Lid	No	Yes	No	Yes
Cooling Time	-	30min	-	30min
Timer	999 min			
Temp. Uniformity	<+0.3° C			
Display Accuracy	0.1° C			
Weight	<1kg			
Optional Blocks	A) 40 x 0.2ml B) 24 x 0.5ml C) 15 x 1.5ml	E) 8 cuvettes F) 4 x 15ml (cover cannot be closed) G) 2 x 50ml(cover cannot be closed) D) 15 x 2.0ml		

DRY BATH

- LCD display, simple interface
- High heating speed, uniform heating, accurate temperature control, highstability, low energy consumption and no noise
- Built in temperature calibration function, automatic fault detection and buzzeralarm function
- Built in over-temperature protection device, safe and reliable use, prolong theservice life of the machine
- Product design, compact and tight, small occupied space, freer and easier
- Various blocks for convenient replacement, cleaning and disinfection
- Product design, compact and tight, small occupied space, freer and easier
- Various blocks for convenient replacement, cleaning and disinfection

Model No.	ML-DKT-200-1	ML-DKT-200-2	ML-DKT-200-2A	ML-DKT-200-4
Block	1	2	2(Independent Control)	4
Temp. Range	Amb.+5° ~ 150° C			Amb.+5° ~ 120° C
Heating Time	<30min (from 20° to 150° C)			<30min (from 20° to 120° C)
Timer	99h 59min			
Temp. Uniformity	<+0.3° C			
Display Accuracy	0.1° C			
Dimensions	230 x 220 x 95 (mm)	260 x 220 x 95 (mm)		360 x 220 x 95 (mm)
Optional Blocks	A) 48 x 0.2ml D) 24 x 2ml B) 42 x 0.5mlE) 96 x 0.2ml (Not compatible with DKT200-1) C) 24 x 1.5mlF) Flat (no hole) for 96-well micro-plate			

DRY BATH INCUBATOR

- LCD display, simple interface, double time and temperature setting
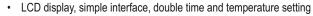- Simultaneous display of set temperature display, time diminishing display
- High heating speed, uniform heating, accurate temperature control, highstability, low energy consumption and no noise
- Built in temperature calibration function, automatic fault detection andbuzzer alarm function
- Built in over-temperature protection device, safe and reliable use, prolongthe service life of the

Model No.	ML-DTC-100	ML-DTH-100
Temp. Range	-10° ~ 100° C	Amb.+5° ~ 100° C
Heating Time	<15min (from 20° to 100° C)	
Timer	99h 59min	
Temp. Uniformity	<+0.3° C	
Display Accuracy		0.1° C
Cooling Time	<30min	N/A
Dimensions	270 x 190 x 170 (mm)	
Weight	2.2 kg	
Optional Blocks	A) 96 x 0.2ml PCR plate	G) (32 x 0.2ml) + (10 x 0.5ml) + (15 x 1.5ml)
	B) 54 x 0.5ml	H) Water Bath (103 x 67 x 30 mm)
	C) 35 x 1.5ml	I) 96 x 0.2ml Plate (flat bottom)
	D) 35 x 2.0ml	J) 12 x 15ml
	E) (20 x 0.5ml) + (15 x 1.5ml)	K) 6 x 50ml
	F) (32 x 0.2ml) + (25 x 1.5ml)	

DRY BATH INCUBATOR

- Fast heating speed. Heating temperature accurate
- Temperature controlling precise
- Built-in temperature deviation calibration function, automatic faultdetection, and beep alarm function
- Built-in over-temperature protection device, safe and reliable
- Compact structure designed, small space occupied. Transparent cover
- Serious of round heating blocks for choosing. Easy exchange and clean fordifferent types of tubes

Model No.	ML-DKT-100
Temp. Range	Amb.+5° ~ 100° C
Heating Time	<10min (from 20° to 100° C)
Timer	9999 min
Temp. Uniformity	<+0.5° C
Display Accuracy	0.1° C
Max. Temp.	105° C
Dimensions	176 x 156 x 121 (mm)
Weight	1.5 kg
Optional Blocks	A) (24 × 0.5ml) + (30 × 1.5ml) D) 39 × 1.5ml B) 96 × 0.2ml E) 39 × 2.0ml C) 59 × 0.5ml F) 18 × 5.0ml

WATER BATH (TRANSPARENT)

- Using innovative design structure, effectively prevent steam leakage
- Intelligent temperature control instrument with high brightness digitaldisplay
- Light - touch type key has the advantages of simple operation and highprecision temperature control
- Shell, interior and cover of the product are all made of transparentengineering plastics, can clearly see the object to be heated

Model No.	ML-DK-98-5P
Temp. Range	Amb.+5° ~ 100° C
Capacity	9.2 Ltrs.
Temp. Accuracy	±0.5° C
Dimension Inner	280 x 220 x 150 (mm)
Dimension Outer	400 x 260 x 190 (mm)
Weight	3.5 kg
Power	200-240V/100-120V

WATER BATH

- Cold-rolling sheet spraying exterior
- Stainless steel inner container and cover
- Intelligent temperature control instrument adopts PID control
- Automatically stops, realization of over - temp. alarm
- Power failure memory, error correction & menu lock
- Constant temperature automatically, heat preservation
- Digital display and high precision temperature control
- Supplied with stainless steel rack & tube rack

Model No.	ML-DK-420	ML-DK-600B
Temp. Range	Amb.+5° ~ 100° C	
Capacity	11 Ltrs.	36 Ltrs.
Temp. Accuracy	±1° C	
Dimension Inner	420 x 180 x 140 (mm)	600 x 300 x 200 (mm)
Dimension Outer	650 x 300 x 350 (mm)	840 x 410 x 350 (mm)
Weight	8.5 kg	18 kg

WATER BATH

- Cold rolling steel spraying exterior
- Stainless steel stretching inner container and roof cover; fabricationprocessed exterior of anti-corrosion and anti-leakage
- Intelligent temperature controller with PID program, digital tube displayand function of timing and over-temperature protection

Model No.	ML-DK-1R2H	ML-DK-2R4H	ML-DK-2R6H	ML-DK-2R8H
Capacity	6 Ltrs.	13 Ltrs.	19 Ltrs.	25 Ltrs.
Temp. Range	Amb.+5° ~ 100° C			
Temp. Accuracy	±0.5° C			
Dimension Inner	300 x 150 x 150 (mm)	325 x 300 x 150 (mm)	500 x 300 x 150 (mm)	635 × 325 × 120 (mm)
Dimension Outer	318 x 168 x 210 (mm)	350 x 318 x 210 (mm)	524 x 322 x 210 (mm)	825 × 380 × 190 (mm)
Weight	4.5 kg	6 kg	7.5 kg	9.5 kg
Power	200-240V/100-120V			

WATER BATH

- Accurate temperature control
- With drainage stopcock for easy cleaning
- PID controlled speed and temperature with LED digital display
- Made with SUS 304 stainless steel body with powder coating

Model No.	ML-BU-410D	ML-BU-420D
Capacity	10 Ltrs.	20 Ltrs.
Temp. Range	Amb.+5° ~ 100° C	
Temp. Accuracy	±0.1° C	
Sensor	PT-100Ω	
Timer	999h 999min 999sec	
Dimension Inner	295 x 235 x 150 (mm)	495 x 295 x 150 (mm)
Dimension Outer	410 x 280 x 170 (mm)	540 x 345 x 260 (mm)
Weight	6 kg	7 kg
Power	220V 60Hz	

CIRCULATING WATER BATH

- Circulator to unify temperature inside
- Accurate temperature control
- With drainage stopcock for easy cleaning
- PID controlled speed and temperature with LED digital display
- Made with SUS 304 stainless steel body with powder coating

Model No.	ML-BH-130D	ML-BH-230D
Capacity	10 Ltrs.	20 Ltrs.
Temp. Range	Amb.+5° ~ 100° C	
Temp. Accuracy	±0.1° C	
Sensor	PT-100Ω	
Timer	999h 999min 999sec	
Dimension Inner	295 x 235 x 150 (mm)	495 x 295 x 150 (mm)
Dimension Outer	340 x 305 x 280 (mm)	532 x 325 x 305 (mm)
Weight	7 kg	9 kg
Power	220V 60Hz	

CIRCULATING WATER BATH

The product use imported stainless steel plate, cold rolled steel and other high-quality materials, and by electroplating polishing, paint and other craftelaborate. Temperature part of the use of electronic temperature control,temperature display directly display the actual temperature of the pot, withstrong corrosion resistance, compact structure, handsome in appearance,economical and practical, energy saving, easy maintenance and long servicelife and so on.

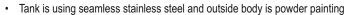| Model No.	ML-WH-4C	ML-WH-6C
Capacity	12 Ltrs.	16 Ltrs.
Temp. Range	Amb.+5° ~ 99° C	
Temp. Accuracy	±0.5° C	
Flow Rate	40W; >4L/min	
Dimension Inner	320 x 320 x 120 (mm)	460 x 300 x 120 (mm)
Dimension Outer	460 x 330 x 240 (mm)	640 x 330 x 250 (mm)
Weight	8 kg	11 kg
Power	200-240V/100-120V	

RECIPROCAL SHAKER WATER BATH

- Accurate temperature control
- Shaking speed is stable and smooth
- With drainage stopcock for easy cleaning
- PID controlled speed and temperature with LED digital display

Model No.	ML-150D	ML-150RD	ML-350D	ML-350RD
Capacity	21 Ltrs.		38 Ltrs.	
Temp. Range	Amb.+5° ~ 100° C	0° ~ 100° C	Amb.+5° ~ 100° C	0° ~ 100° C
Temp. Accuracy	±0.1° C			
Speed Range	30 ~ 200 rpm			
Shaking Stroke	0.5 ~ 1.5 (mm)			
Timer	999h 999min 999sec			
Platform Size	300 x 200 (mm)			
Dimension Inner (mm)	500 x 290 x 150	690 x 330 x 310	500 x 290 x 150	690 x 330 x 310
Dimension Outer (mm)	655 x 350 x 330	830 x 400 x 430	655 x 350 x 330	830 x 400 x 430
Power	220V 60Hz			

Optional Flask Clamps for ML-150D/RD &ML-350D/RD

Model/Flask	125 ml	250 ml	500 ml	1 Ltr.	2 Ltr.	3 Ltr.	5 Ltr.
ML-LM-150D / RD	24	15	8	6	2	2	1
ML-LM-350D / RD	12	6	4	2	2	1	-

LOW TEMP CIRCULATING WATER BATH

- Tank is using seamless stainless steel and outside body is powder painting
- Overheat and over low temperature protector
- Sensor is using the PT-100Ω
- The compressor will be delayed to start working if power cut using environmental Protection cold-media R134a
- With circulator to unify temperature inside
- Device of exterior circulator
- Pump of pressurize sold separately for your option
- Have drainage
- Made with SUS 304 stainless steel body with powder coating
- Tube rack are sold separately for your option

Model No.	ML-BL-710D-20	ML-BL-710-0	ML-BL-720D-20	ML-BL-720-0
Capacity	10 Ltrs.		20 Ltrs.	
Temp. Range	-20° ~ 100° C	0° ~ 100° C	-20° ~ 100° C	0° ~ 100° C
Temp. Accuracy	±0.1° C			
Circulation pump	10 Litres/min Max head 2M			
Temp. Control	PID Temp. control			
Temp. Display	LED Digital Display			
Compressor	¼ Hp	1/6 Hp	3/4 Hp	½ Hp
Heater	1200W		1600W	
Dimension Inner	200 x 300 x 150 (mm)		300 x 360 x 180 (mm)	
Dimension Outer	300 x 400 x 630 (mm)		420 x 480 x 800 (mm)	
Weight	30 kg		50 kg	
Power	110V/220V 50/60Hz			

ORBITAL SHAKER WATER BATH

- Ideal for a wide range of laboratory applications requiring controlledtemperature with orbital shaking motion
- Suitable for long time operation up to weeks and months
- Separate switches for speed ON/OFF and heater ON/OFF, Individual readoutfor RPM and digital readout for temperature.
- Maintenance-free induction brushless motor
- Differential clamps available

Model No.	ML-680D		
Temp. Range	Amb.+5° ~ 100°C	Shaking Stroke	25mm, 0.5" - 1.5" (adjustable)
Temp. Accuracy	± 1°C	Platform Size	470 x 320 (mm)
Capacity	50 Ltrs.	Dimension Inner	560 x 410 x 220 (mm)
Shaking Speed	20 ~ 200rpm	Dimension Outer	720 x 530 x 540 (mm)

Optional Flask Clamps for ML-150D/RD &ML-350D/RD

Model/Flask	125 ml	250 ml	500 ml	1 Ltr.	2 Ltr.	3 Ltr.	5 Ltr.
ML-680D	24	15	12	6	6	2	1

LOW TEMP CIRCULATING WATER BATH

- Using digital control technology, digital temperature settings, digital Display, easy to operate
- PID temperature control with automatic control, temperature stability andspeed
- Circulating pump can be constant outside the loop liquid media
- Using completely closed refrigeration compressors, cooling fast
- Compressor cooling method, with the cooling speed
- High efficiency and small temperature fluctuation characteristics

Model No.	ML-DHC-1005	ML-DHC-1010
Bath Capacity	17 Ltrs.	
Temp. Range	-5° ~ 95° C	-10° ~ 95° C
Temp. Accuracy	±0.5° C	
Dimension Inner	300 x 260 x 220 (mm)	
Weight	42 kg	46 kg
Power	200V 50Hz	

ELECTROPHORESIS UNIT FOR AGAROSE GEL

- Made from high quality Polycarbonate, exquisite and durable
- It is transparent, convenient for observation
- Withdrawal electrode, convenient for maintenance
- Easy and simple to use, save buffer solution
- Special gel casting device for easy and fast gel casting operation
- Power fails when you open the lid for users' safe
- Black band on the gel tray make it convenient to load the samples andobserve the gel
- High resolution separation with simple operation
- Two lines of gel can be run at the same time
- One gel casting device can cast different size of gel

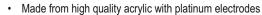| Model No.	ML-DYCP-31BN	ML-DYCP-31CN	ML-DYCP-31DN	ML-DYCP-31E
Gel Dimensions (mm)	60×60	100 x 70, 50 x 70	60×60, 120×60 60×120, 120×120	150×160 200×160
No. of Samples	6, 8, 11	8, 15	6, 8, 11, 13, 18, 25	17, 34
Comb Thickness (mm)	1.0 & 1.5	1.0 & 1.5	1.0 , 1.5 & 2.0	1.5
Buffer Volume	120 ml	260 ml	650 ml	1000 ml
Dimensions (mm)	197 x 96 × 64	260 x 116 x 76	310 ×150 × 90	360 × 1950 × 100
Weight	0.5 kg	1.0 kg	1.0 kg	1.0 kg

ELECTROPHORESIS UNIT FOR SDS-PAGE

- Different combs and spacers is available
- Transparent tank for visibility without obstructions
- Casting and running the gel at the same place
- Two gels can be run simultaneously under identical buffer conditions
- Gel casting device makes gel casting simply and save your precious time
- Molded buffer tank equipped the electrodes with pure platinum
- Easy and convenient to add the sample
- Run one gel or run two gels at the same time
- Special configuration design of the tank and lid avoid the mistakes duringthe operation
- Power fails when you open the lid for users' safety
- High resolution separation with simple operation

Model No.	ML-DYCZ-24DN	ML-DYCZ-24EN	ML-DYCZ-24F
Gel Dimensions (mm)	83 × 75	130 × 100	200 × 175
No. of Samples	10 or 15 samples	12 or 16	16 or 21 samples
Comb Thickness (mm)	1.0 & 1.5	1.0 & 1.5	1.0 & 1.5
Buffer Volume	400 ml	1200 ml	3500 ml
Dimensions (mm)	150 × 100 ×140	190 × 170 × 120	300 × 160 × 300
Weight	1 kg	2 kg	4 kg

WESTERN BLOTTING SYSTEM

- Made from high quality acrylic with platinum electrodes
- Latches on the gel holder cassette for easy handling
- Fast transferring speed and good transferring effect
- A seamless, molded transparent buffer tank prevents leakage & breakage
- Allows easy orientation for rapid, error free set-up
- An efficient design simplifies insertion and removal of the gel holdercassette from supporting body for transfer (electrode assembly)
- Compatible with the lid and the buffer tank of ML-DYCZ-24DN

Model No.	ML-DYCZ-40D
Dimensions	Pore plate combination for 95 × 87 (mm)
Power Requirement	Max. 40w
Working Time	Continuous ≥24 hours
Buffer Volume	400 - 450 (ml)
Dimensions (mm)	150 × 100 × 140
Weight	1 Kg

SEMI-DRY BLOTTER

Semi Dry Blotter consists of a bottom anode unit and a top cathode unit. The graphite electrode is mounted on the top of the bottom unit. The top cathode unit is also fixed with a graphite electrode and sits on the anode. Gel along with membrane and wet filter papers are placed in between the two units. On passing electric current macromolecules present in the gelmove towards anode and stick on to the membrane. This is then analyzedby various techniques to detect proteins / nucleic acids.

Model No.	ML-SDB1-E	ML-SDB2-E
Gel size	10 x 10 (cm)	20 x 20 (cm)
Electrode	Graphite Electrode Assembly	
Non-Conducting Sheets	1 No.	

POWER SUPPLY

- With Time & Timer Control
- LED display for easier read in the dark room
- Automatic parameter limit crossover for protecting the experiment and instrument
- Automatic recovery after power failure
- Four pairs of power outlets for parallel run
- Built-in safety features
- Recommend wide range of electrophoresis and blotting applications
- Agarose & PAGE electrophoresis, Southern, Northern and Western Blotting etc.

Model No.	ML-PS-600
Voltage Range	5 - 600V in 1V steps
Current Range	1 - 500mA in 1mA steps
Timer Range	Built-in timer range - 99H- 59min, fully adjustable
Operating Modes	Constant Voltage, constant current
Display	LED display

SLAB GEL DRYER

- Vacuum dryer for all types of electrophoresis gels
- Efficient
- Fast speed
- No chaps
- To avoid the defects of overheating, blotting or chapping the gel etc., we adopt heat conducting metal soleplate with groove, and there is a piece of poriferous aluminum screen plate on the soleplate, which makes the airflow even and the heating smooth and constant.

Model No.	ML-WD-9410
Drying Surface	440 X 360 (mm)
Input Power	500VA ± 2%
Temp. Range	40° ~ 80°C
Timer	0 ~ 120 (minutes)
Speed	30 - 160 times / minute
Size	570 x 445 x 85 (mm)
Power	AC 220 ± 10% 50 Hz ±2%
Optional Accessories	Vacuum Pump

UV TRANS ILLUMINATOR (ULTRA-SLIM)

- Compact and stylish
- Higher S/N ratio
- Strong UV for excitation
- Uniformity supplies <5% coefficient of variance (CV) across the viewing area
- Optimized for use with mini gels

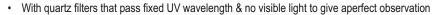| Model No.	ML-UUV-1
Wavelength	302 nm
Viewing Area	150 x 80 (mm)
UV Tubes	T5 6W UVB
Dimensions	247 x 132 x 48.5 (mm)
Weight	1.4 kg
Power	12V - 1.5A

UV TRANSILLUMINATOR

- Uniform lighting design
- Fast turn on speed for UV lamps
- Ultra Safe UV blocking cover: block 99.99% UV transmittance
- Adjustable intensity: from 100% down to 50%
- Uniform lighting design, Ultra High Contrast!
- Strong and stylish metal frame design (NO breakage of UV shield)
- Single & Dual UV wavelengths options

Model No.	ML-MB-16	ML-MB-21	ML-MLB-16	ML-MLB-21
Wavelength	302 nm		302 nm & 365 nm	
Viewing Area	16 x 20 (cm)	21 x 26 (cm)	16 x 20 (cm)	21 x 26 (cm)
UV Tubes	5 x 8W	6 x 8W	9 x 8W	11 x 8W
UV Blocking Cover	Aluminum alloy frame			
Dimensions	280 x 340 x 80 (mm)			
Weight	4.3 kg			
Power	100-240V 50-60Hz			

UV TRANSILLUMINATOR

- With quartz filters that pass fixed UV wavelength & no visible light to give aperfect observation
- High intensity UV tubes
- Electronic high frequency ballast to give instant start and no humming
- Low heat generation and fan cooled interior
- The enclosure is epoxy coated MS and top is stainless steel
- Low (70%) / high (100%) intensity control
- Special polymer transparent safety cover in UV models that protects theuser from UV emissions
- Suitable for academic, research and medical application

Model No.	Wavelength	UV Tubes	Viewing Area
ML-UVT-E1	312 nm	6 x 8W	20 x 20 cm
ML-UVT-E2	365 nm	6 x 8W	20 x 20 cm
ML-UVT-E1+	312 nm	6 x 8W	21 x 26 cm
ML-UVT-E2+	365 nm	6 x 8W	21 x 26 cm
ML-UVT-E3	254 & 365 nm	4 x 8W + 4 x 8W	20 x 20 cm
ML- UVT-E4	254 & 312 nm	4 x 8W + 4 x 8W	20 x 20 cm
ML- UVT-E5	312 & 365 nm	4 x 8W + 4 x 8W	20 x 20 cm
ML- UVT-E3+	254 & 365 nm	4 x 8W + 4 x 8W	21 x 26 cm
ML- UVT-E4+	254 & 312 nm	4 x 8W + 4 x 8W	21 x 26 cm
ML- UVT-E5+	312 & 365 nm	4 x 8W + 4 x 8W	21 x 26 cm

LED TRANSILLUMINATOR

- Compact: 30 mm in height, THINNEST in the world now to enlarge yourlaboratorial space
- User Friendly: Easy to view and cut gel (NO need to wear amber glasses)
- Light: Convenient to move around (for personal)
- Safe: Blue LEDs do not cause burn to your eyes and skins; NO DNAdamage inherent to UV
- Sensitive: Optimized for use with most nucleic acid and protein stains,sensitivity up to 0.5 ng
- Uniform: <10% coefficient of variance (CV) in the central viewing area

Model No.	ML-DUT-48
LED Wavelength	470 nm
Sensitivity	up to 0.5 ng
Uniformity	< 10 % CV (coefficient of variance)
Viewing Area	120 x 70 (mm)
Dimensions	210 x 210 x 30 (mm)
Weight	2.3 kg
Power	24V - 1.25A

WHITE LIGHT ILLUMINATOR

- Uniform illumination design (light guide plate + diffuser)
- For viewing protein gels, coomassie blue or silver stained media
- Compact size for lab
- Low power consumption
- No need to use UV for white light conversion. Long lifetime (~50,000 hrs.)

Model No.	ML-SW-01
Wavelength	White (blue chip + yellow fluorescent powders)
Light Source	LEDs
Viewing Area	17 x 27.5 (cm)
Dimensions	210 x 305 x 15 (mm)
Weight	1.3 kg
Power	12VDC - 0.5A

UV HAND HELD LAMP

- Designed with simplicity, portable, ergonomic, the key switching between Wavelengths is very convenient
- Two series to choose from - 365nm and 254nm or a combination of doubleand twin 365 + 254

Model No.	ML-TU-6
Wavelength	365 nm & 254 nm
UV Window	150 x 50 (mm)
Power	6W
Dimensions	470 x 75 x 51 (mm)
Weight	1100 gm
Power	220V, 50Hz
Optional Accessory	Stand for Hand Held UV Lamp

MINI GEL IMAGER

UV/LED is a small digital camera imager embedded with bothblue light source (470nm) and 302nm (UV) transilluminators. There is no complicated operation, recording your lectrophoresis result is just simple liketaking a picture. Besides that, you can transfer data and print it directly by WiFi.

- Smaller: Smaller dimension, save your working area
- Convenient: WiFi data transfer, easy to download your data and print via WiFi
- Easy-to-use: No complicated operation, and only one power line

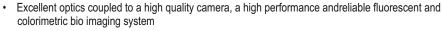| Model No.	ML-MI-01
Light Source	UV 302nm & LED 470nm
Viewing Size	150 x 80 (mm(W*D)
Compatible gel size	50*60mm,105*60mm,125*60mm
Make	Canon G-series type
Effective Pixel	12.1 megapixels
Lens	5x lens, F1.8 (Wide) - F8.0 (Telephoto)
LCD Size	3" TFT Color
Shutter Speed	15 ~ 1/4000 second
Mode	Program (P), Aperture Priority (A), Shutter Priority (S), Manual (M)
ISO	Auto/80/100/125/160/200~12800 (recommend under ISO 800 for operation)
Video Output	NTSC / PAL selectable
Interface	USB (v.2.0)
Storage Media	SD/SDHC memory card
Storage Format	JPEG (ExifVer 2.3)/RAW
Dimensions	250 x 202 x 364 (mm)
Power	DC12V-2A adapter

GEL DOCUMENTATION SYSTEM

- Gel photography imaging and cutting at the same instrument
- Hi-defination digital camera, ~100 % dark room for photography
- Slider with UV/LED transilluminator
- USB interface, no need to take out and insert memory card frequently
- Rotatable LCD monitor for user to easily perform photography
- Cutting gel with UltraSafe UV shield
- No need to change and re-charge batteries on camera

Model No.	ML-SMU-01	ML-SML-01
	Digital Camera Specifications	
Effective pixel	12.2 megapixels	
Lens	Fujinon 15x lens, F3.1 (Wide) - F5.6 (Telephoto)	
Mode	Program (P), Aperture Priority (A), Shutter Priority (S), Manual (M)	
Video Output	NTSC / PAL selectable	
Storage Media	SD/SDHC memory card	
Storage Format	JPEG (ExifVer 2.2)	
	Display Specifications	
Monitor	7"-Wide TFT-LCD	
Rotation	90 °	
Display Area	180.72 x 94.27 (mm)	
Number of Pixels	480(H) x 3(RGB) x 220(V)	
Aspect ratio	16 : 9	
Brightness	250 nits (Typ.)	
Contrast Ratio	500: 1(Typ.)	
Blacklight Unit	LED	
	General Specifications	
Filter	UV-IR cut filter	Amber filter
Trans-illumination	UV (302 nm)	LED (470 nm)
Viewing Size	160 x 200 (mm)	
Gel cutting filter	UV shield	Amber shield
USB port	connect Slider and PC via USB cable	
AV terminal	thermal printer accessory compatible	
Dimensions	385 x 415 x 455 (mm)	
Weight	approx. 20 kg	
Power	100V~240V	

GEL DOCUMENTATION SYSTEM

- Excellent optics coupled to a high quality camera, a high performance andreliable fluorescent and colorimetric bio imaging system
- Featuring a 12 megapixel camera, the camera connects to a PC through a USBand can be controlled from the PC
- The light-tight cabinet has a UV safety switch and a roll-out transilluminator
- The dark room cabinet has features for safety switch that switches off the UV Lights as soon as the door is open. Also, a timer is attached to thetransilluminator, which automatically switches off UV lights in case the userforgets to switch them off. This increases the life of UV tubes

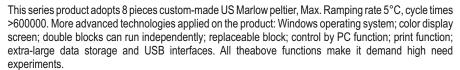| Model No.	ML-GDS20-E	ML-GDS20S-E
Camera Resolution	12.2 megapixels	
Camera Sensor	Sensitive CMOS	
Lens	18 ~ 55 mm	
Lens Focus	Motorized	
Lens Zoom	Manual	
Lens Aperture	Motorized	
Maximum Gel Size	20 x 20 cm	
Trans-illumination	UV 302-312 nm, 6x8W long life tubes	
Epi-White light illumination	Included	
Filter	Band pass for EtBr	
Software for Capture & Editing	Included	
Software for Analysis of Gels	N.A.	Advanced TotalLab 1D

GEL DOCUMENTATION SYSTEM

- Professional gel and bio-imaging system. From colorimetric, to fluorescentimaging, and upgradeable to chemiluminiscence; this gel system has all theoptions
- Featuring a high resolution, sensitive scientific grade CCD camera and amotorized/manual zoom lens, the camera connects to a PC and can becontrolled from the PC
- The light-tight cabinet has a UV safety switch and a roll-out transilluminator
- The dark room cabinet has features for safety switch that switches off the UVlights as soon as the door is open
- Additionally, a timer is provided that switches off UV in case the user forgetsto shut off the transilluminator
- This gel doc system is ideal for research labs and applications wheresensitivity is of prime importance.
- Exposure Control from 0.01s to 100s, superior signal-to-noise ratio, 68 dB
- Excellent dynamic range, 3.5 orders of magnitude, EtBr 590 filter

Model No.	ML-GDS12S-E	ML-GDS16S-E
Camera Resolution	1.4 megapixels, 12 bit	1.4 megapixels, 16 bit
Camera Sensor	Sensitive Scientific CCD	
Lens	6x zoom, 8.5-51 mm, Manual	6x zoom, 8.5-51 mm, motorized
Lens Focus	Manual	Motorized
Lens Zoom	Manual	Motorized
Lens Aperture	Manual	Motorized
Maximum Gel Size	20 x 20 cm	21 x 26 cm
Trans-illumination	UV 302-312 nm, 6x8W long life tubes	
Epi-White light illumination	Included	
Software for Capture & Editing	Included	
Software for Analysis of Gels	Advanced TotalLab 1D	

GRADIENT THERMAL CYCLER

This series product adopts 8 pieces custom-made US Marlow peltier, Max. Ramping rate 5°C, cycle times >600000. More advanced technologies applied on the product: Windows operating system; color display screen; double blocks can run independently; replaceable block; control by PC function; print function; extra-large data storage and USB interfaces. All theabove functions make it demand high need experiments.

Model: ML-GE-96

- Large 5.6-inch high-definition TFT LCD display
- Curve graphic display
- LAN online and wireless Bluetooth printing
- Power-down data protection
- Step-less adjustable hot lid. Lid can be positioned at any angle
- Replaceable modules to meet the requirements of different experiments
  (Different capacity blocks supplied as additional accessory)

Model: ML-GE-96T

- 8" TFT color touch-screen with graphical display provides easy use for settingup and monitoring
- The actual and target temperatures can be viewed and displayed graphicallyin real time
- Built-in 11 standard program file template, can quickly edit the required files
- Internal flash memory for 10000 typical PCR files in free configurable folders
- Automatic restart after power failure
- Compatible with devices such as Mouse and Keyboard and capable totransfer data and perform software updates via USB Drive
- Applicable with the following 0.2ml tube models: non-skirted, semi and fullyskirted plated
- Replaceable modules to meet the requirements of different experiments
  (Different capacity blocks supplied as additional accessory)

Model No.	ML-GE96	ML-GE96T
Display	5.6", 640×480 Pixels, TFT	8", 800×600 Pixels, TFT
Capacity	96 × 0.2 ml	
Temperature Range	0° ~ 100° C	
Max. Heating Rate	5° C/s	
Max. Cooling Rate	4° C/s	
Uniformity	≤±0.2° C	
Accuracy	≤±0.1° C	
Display Resolution	0.1° C	
Temperature Control	Block / Tube	
Ramping Rate Adjustable	0.1 ~ 5° C	
Gradient Uniformity	≤±0.2° C	
Gradient Accuracy	≤±0.2° C	
Gradient Temp. Range	30° C ~ 100° C	
Gradient Spread	1° C ~ 30° C	
Hot Lid Temperature	30° C ~ 110° C	
Number of Programs	1000 +(USB FLASH)10000 +(USB FLASH)	
Max. No. of Step	30	
Max. No. of Cycle	99	
Time Increment/Decrement	1 Sec/° C 9 Min 59 Sec	
Temp. Increment/Decrement	0.1° C - 9.9° C	
Pause Function	Yes	
Auto Data Protection	Yes	
Hold at 4OC	Forever	
Print	Yes	
LAN to computer	Yes	
Communication	USB2.0 , LAN	
Dimensions	380 x 240 x 260 (mm)	
Weight	8.5 kg	
Power	85 - 264VAC , 47 - 63Hz , 600 W	

AUTOMATED COLONY COUNTER

Automated Colony Counter With a touch screen, the ML-CCT-E automatic colony counter can instantly count colonies at thetouch of a button simply place the petri -plate in the counter. Switch on the appropriate light (Trans or epi) and touch a buttonto capture the colony image in high resolution. Use the provided colony counting software, automatically count colonies atthe touch of another button and you can use the touch screen panel separately. Easily remove from touch screen from the counter and carry it to work at you convenience.

A compact cabinet has a trans-illuminated platform to illuminate petri dishes from below. Also, provided standard is alighting system to illuminate the petri dishes from top. Illumination is flicker-free and uniform across complete field-of-view.

A color camera with high-quality optics and superior resolution is built inside. The camera is fully controllable from thetouchscreen or an external PC or laptop.

In ML-CCT-E, we provide a touch screen that is already connected to the camera and without the need of any external PC,the user can observe, click and count the colonies.

The touch screen has ability to connect to a wi-fi network to transfer and email images and count reports.In Colony.PRO colony counter model the user's PC or laptop can be used to connect to the camera using USB, click sharpimages of the plates and carry out the counting using the provided software.

- Compact design - occupies just 30cm x 30cm of lab space
- High resolution - 12 megapixels, gives sharp images
- Selectable light sources – epi (reflected) and transmitted LEDs
- Click and count plates up to 150mm (6") in diameter
- Fast, automatic, repeatable and accurate counting for high throughput Labs
- Control camera, change shutter speed, focus and other parameters Controls from PC
- Split, add, and delete colonies by touch
- Click and count in seconds
- Generate comprehensive analysis reports for publication
- Standard lighting modes are - Dark field, Epi-illumination, Transillumination, Epi+Trans illumination
- Optional modes are RGB & UV lighting

Model No.	ML-CC-1	ML-CC-1T
Interface	Laptop/PC	Touch Screen & Laptop/PC
Effective Pixels	12.2 megapixels	
Bit Depth	8-bit Gray, 24-bit RGB	
Grayscale Levels	256	
Sensor Temperature	Ambient	
Transillumination	12 W, HB LEDs	
Epi Illumination	18 W, HB LEDs	
Capture Software	Yes	
Analysis Software	Yes	

How it works:
- Place the petri dish and switch on the lights (transmitted or reflected or both). Petri dishes up to 6" (15cm) Diameter can be captured
- Start the Colony Capture software and get a real-time live view image of the petri dish
- Adjust camera settings (like shutter speed, aperture, focus) till the best image obtained. This is usually a Onetime exercise, that is, once set, subsequent captures usually do not need any camera adjustment
- Click your images and save them. If there are more petri dishes, capture them too. The images are Automatically named
- The naming convention can be user-defined
- After clicking the petri dishes, the colony counting software will count the colonies in the petri dishes, Generate analysis reports and export them. The software also has features to manually count the colonies With the help of mouse clicks
- The software can identify colonies based on size, edge sharpness, intensity, circularity, etc. It also can Identify overlapping colonies and 'separate' them based on user adjustable detection parameters. In case Some colonies are wrongly identified or are missed, the user can add or delete colonies manually
- Annotations menu is provided to add text and labels on the image
- Sensitivity settings of detection parameters can be saved as named protocols, so that repeatable analysis can be done in subsequent experiments by recalling these saved settings
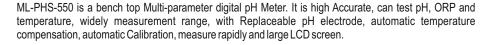
pH METER

- ML-86502 has multi-display on big LCD screen
- Automatic buffer recognition to avoid errors during calibration
- Maximum 5 point calibration
- Hold function to freeze the records
- Reliable probe with temperature compensation
- Convenient to view calibration information of probe
- "Ready" icon on LCD to indicate whether the reading on machine is Stable or not
- 99 memories with real time stamp & could be downloaded to PC using RS 232 Output for analysis
- Automatic or manual temperature compensation allowed
- Analog output for chart recorders

pH METER

ML-PHS-550 is a bench top Multi-parameter digital pH Meter. It is high Accurate, can test pH, ORP and temperature, widely measurement range, with Replaceable pH electrode, automatic temperature compensation, automatic Calibration, measure rapidly and large LCD screen.

Model No.	ML-86502	ML-PHS-550
pH range	0.00 ~ 14.00	
pH Accuracy	±0.02	±0.01
pH Resolution	0.01	
mV range	±1999 mV	
mV Accuracy	±0.2 mV	±1 mV
mV resolution	±0.1 mV	1 mV
Temp. Range	0 ~ 80° C	0 ~ 100° C
Temp. Accuracy	±0.5° C	±1° C
Temp. Resolution	0.1° C	±1° C
Operating Temp. & RH	0° ~ 50° C, Humidity <80%	5° ~ 60° C, Humidity <85%
Dimension	317 x 168 x 58 (mm)	310 x 250 x 187 (mm)
Calibration	5 Point	2 Point
Power	9V	
Accessories Included	Adaptor/ Probe/ Buffer/ Cable/ Software CD/ Probe stand	Adaptor/ Probe/ Buffer/ Cable

VISIBLE SPECTROPHOTOMETER (Single Beam)

- The monochromator with a holographic flashing grating is used. It has the Advantage of high wavelength precision, good monochromaticity and low Stray light
- Automatic switching of tungsten halogen lamp and deuterium lamp
- A sample compartment for 0.5cm-10cm cells
- Computer control system, precise automatic T/A changeover
- Automatic zero and full scale adjustment
- Direct concentration read-out and concentration factor setting function
- Equipped with RS232 port. Printer can be connected and data can be Sent to PC by special software

Model No.	ML-VS-E		
Wavelength Range	325 ~ 1000 nm	Spectrum Bandwidth	2nm / 1nm
Wavelength Accuracy	< 2nm	Stray Light	<0.5% (at 360nm, NaN02)
Wavelength Repeatability	<1nm	Light Current Drift	0.5% / 3 min
Transmittance Accuracy	±0.5%	Dark Current Drift	0.2% / 3 min
Transmittance Repeatability	<0.2%	Cell Holder Dimensions	10 mm

MAXOME

- High wavelength Precision; highly accurate & stable
- Compact & Good Looking Shape
- ABS for the accurate measurement of the value & C Figures show measured Values, four of LCD
- Imported materials deuterium lamp tungsten lamp
- Sample chamber can be placed 5mm~100mm samples
- A key value of automatic calibration ABS

UV-Vis Spectrophotometer (Single Beam)

- Large LCD Screen
- Can display & save 50 groups of data, 5 groups per screen
- Data can be restored after sudden power cut
- Auto setting wavelength with wavelength scan software
- Tungsten & deuterium lamp can be turned ON & OFF individually to extend lifetime
- Automatic wavelength calibration & dark current setting

Model No.	ML-UVS-SB-E	ML-UVS-SBA-E
Wavelength Range	195 ~ 1000 nm	190 ~ 1000 nm
Accuracy	±0.5 nm	+1 nm
Stray Light	< 0.3%T @ 220nm, 360nm	< 0.3% T
Photometric Range	0 ~ 200%T, -0.301 ~ 2.000 A, 0 ~ 1999 C	-0.3 ~ 3.5, 0 ~ 220% T
Spectral Bandwidth	2 nm	
Key pad	4 Keys, Soft touch membrane type	
Serial Interface	RS 232C interface	USB port & parallel port for printer
Light Source	Philip halogen, deuterium lamp	Tungsten, deuterium lamp
Detector	Silicon Photodiode	
Optics	Single beam optics with resolution 1200 grooves/mm grating	
Sample Holder	4 position adjustable sample holder	
Weight & Dimensions	11.5 kg; 540 x 470 x 320 (mm)	16.95 kg; 420 x 280 x 180 (mm)
Power	AC 230 V +10%, 50 Hz	

UV-Vis SPECTROPHOTOMETER (Double Beam)

- Wide wavelength range, satisfying requirements of various fields
- Automatic changeover between W & D2 lamp
- Rich measurement method: wavelength scan, time scan, multiwavelength determination, multi-order derivative determination, etc meet different measurement requirements

Model No.	ML-UVS-DBS-E	ML-UVS-DB8-E
No. of cell holders	Single cell	Eight cells
Optical System	Double Beam (1200 Lines/mm Grating)	
Wavelength Range	190 ~ 1100 nm	
Mode	Basic/Quantitative/Wavelength Scan/DNA, Protein Test/Kinetic	
Scanning Speed	Fast / Medium / Low	
Band Width	1 nm	
Wavelength Accuracy	± 0.3 nm	
Wavelength Repeatability	0.2 nm	
Photometric Accuracy	± 0.3 %T	
Photometric Repeatability	0.2 %T	
Photometric Display Range	0 ~ 200 % T, -0.3 ~ 3.0 A, 0 ~ 9999 C	
Stability	0.001 A/h @ 500 nm	
Baseline Flatness	±0.001 A	
Stray Light	< 0.05 % T @ 220 nm, 360 nm	
Data Output Port	USB	
Printer Port	Parallel Port	

UV-Vis SPECTROPHOTOMETER (Double Beam)

- Auto wavelength selection & correction based on D2 peaks, double beam Optics. Individual control over D2 & visible lamps to extend lifetime
- Pre-aligned optic allow easy lamp change operation, automatic change-over Of wavelength
- Large sample compartment to accommodate various path length cuvettes
- Configurable scan wavelength from 0.1nm to 5nm for accurate/faster analysis
- Analysis supports the following modes: photometric, quantization, multi-Wavelength, scan spectrum, time scan kinetics, DNA/Protein analysis

Model No.	ML-UVS-DB+
Wavelength Range	190 ~ 1100 nm
Spectral Bandwidth	1 nm
Wavelength Display & Setting	0.1 nm increments
Wavelength Accuracy	± 0.1 nm at D2 peak 656.1 nm
Wavelength Repeatability	± 0.1 nm
Wavelength Slew Rate	About 6000 nm/min
Scan Speed	3000 to 2 nm/min
Stray Light	Less than 0.022% at 220 nm (NaI, NaNO2)
Photometric Range	-3.50 ~ 3.50 Abs, 0% ~ 300% T
Photometric Accuracy	± 0.0022 Abs at 0.5 Abs
	± 0.0041 Abs at 1.0 Abs
	± 0.0065 Abs at 2.0 Abs
Baseline Stability	Less than 0.0005 Abs/Hr @ 700 nm
Light Source	Pre-aligned Halogen Lamp & Deuterium Lamp
Monochromator	Blazed holographic grating in Czerny-Turner Mounting
Detector	Dual Silicon photodiode
Weight & Dimensions	25 kg; 430 x 560 x 195 (mm)
Power	AC 230 V +10%, 50 Hz

UV-Vis SPECTROPHOTOMETER (Double Beam)

- Large LCD Screen
- Data can be restored after sudden power cut
- Auto setting wavelength
- Tungsten & deuterium lamp can be turned ON & OFF individually to Extend lifetime
- Automatic wavelength calibration & dark current setting
- With wavelength scan software

Model No.	ML-UVS-DBV-E
Wavelength Range	190 ~ 1100 nm
Scope of Conc. Display	0 ~ 1999
Spectral Bandwidth	0.5/1/2/4 nm
Optical System	Double Beam, Grating 1200 lines/ mm
Photometric Range	-0.3 ~ 3.5, 0 ~ 220% T
Wavelength Accuracy	± 0.3 nm
Wavelength Repeatability	0.2 nm
Wavelength Setting	Auto
Photometric Accuracy	± 0.3 nm
Photometric Repeatability	0.2 nm
Stray Light	< 0.5% T at 220 nm & 360 nm
Stability	+ 0.0001
Detector	Silicon photodiode
Display	LCD
Standard Cell Holder	4-position 10mm cell changer
Light Source	Tungsten and Deuterium lamp
Output	USB Port & Parallel port (printer)
Weight & Dimensions	30 kgs; 625 x 430 x 206 (mm)
Power	AC 220V/50-60Hz

MICRO-SPECTROPHOTOMETER

ML-Nano-100 is the perfect instrument for almost lab dealing with sample analysis or preparation. It can accurately measure DNA, RNA and Oligonucleotide calculations, protein assays etc.. The system utilizes CCD detector, a Xenon light source for Long lamp lifetimes together with simply software. Simple pipette 0.5~2ul sample onto the pedestal, laying down the Sampling arm, it can automatically complete the measurement within 5 seconds.

- Direct, easy measurements in less than 5 seconds: just pipette & wipe
- Full spectral output
- Measures DNA, RNA (A260) and Protein (A280), concentrations and sample Purity (260/280 ratio)
- Large concentration range without dilutions
- User-friendly software that includes Custom Methods and data export capabilities
- Low-cost operation--no plates or other consumables

Model No.	ML-Nano-100
Wavelength Range	200 ~ 800 nm
Minimum Sample Size	0.5 ~ 2.0 ul
Detection Limits	3 ~ 4500 ng/ul(dsDNA)
Path Length	0.2mm (For high concentration measurement)1.0mm (For ordinary)
Light Source	Xenon flash lamp
Detector Type	3864-element linear silicon CCD array
Wavelength Accuracy	1nm
Spectral Resolution	d" 3 nm (FWHM at Hg 546 nm)
Absorbance Precision	0.003 Abs
Absorbance Accuracy	1% (7.332Abs at 260 nm)
Absorbance Range	0.02 - 90 (10 mm equivalent)
Measurement Time	< 5s
Dimensions	200 x 262 x 154 (mm)
Weight	2.5 kg
Sample Pedestal Material	Aluminum alloy and Quartz fiber
Operating Voltage	24V DC
Operating Power Consumption	12 - 18 W
Standby Power Consumption	5 W
Software Compatibility	Windows 7, Windows XP

PCR THERMAL CYCLER

Model No.	ML-3200
Sample Capacity	32 well
Temp. Range	4 ~ 100° C
Temp. Resolution	±0.1° C
Heating Rate	≥3° C/Sec
Cooling Rate	≥2° C/Sec
Temp. Accuracy	±0.5° C
Temp. Uniformity	≥0.5° C @ 55° C ~ 95° C 110 (each program may contain up to 13 segments
Cycle Numbers	with 3 step cycle for each program)
Special Feature	Time & Temperature extending
Dimensions	280 × 230 × 180 (mm)
Power	A.C. 220V (50Hz)

NUCLEIC ACID ANALYZER

ML-Nano-200 is a Nucleic Acid Analyzer designed for analyzing the concentration and pure of Nucleic Acid (DNA/RNA). Simply pipette 0.5~2ul sample onto the pedestal, laying down the sampling arm, Nano-200 can automatically complete the Measurement within 5 seconds.

- Direct, easy measurements in less than 5 seconds
- Require only 0.5~2ul samples
- No cells or cuvettes and no warm up
- Optional data output via built-in printer, SD-RAM Card, USB memory
- Touch screen and panel operation, without computer
- No dilutions for samples

Model No.	ML-Nano-200
Wavelength Range	230 nm, 260 nm, 280 nm
Minimum Sample Size	0.5 ~ 2.0 ul
Path Length	0.2mm (For high concentration measurement)1.0mm (For ordinary)
Light Source	Xenon flash lamp
Absorbance Precision	0.003 Abs
Absorbance Range	0.02 - 80 (10 mm equivalent)
Detection Limit - Nucleic acid	10 ~ 4000 ng/ul (dsDNA)
Detection Limit - Protein	0.1 ~ 100 mg/ml
Measurement Time	< 5s
Dimensions	210 x 280 x 166 (mm)
Sample Pedestal Material	Aluminum alloy and Quartz fiber
Operating Voltage	24V DC
Operating Power Consumption	12 - 18 W

MICRO-PLATE READER

It is an Automatic ELISA plate analyzer with user friendly and sophisticated on board Software.
- Built in Shaker with variable speed & duration
- Option to run multiple blank in Cut-Off mode
- Ability to read bichromatic readings from any strip in single plate and extensive Curve plotting
- Unique circuitry for long life of lamp, robust system with built-in stabilizer
- Results printing in matrix mode format. Facility to enter clinic name

Model No.	ML-PR1-E
Human Machine Interface	Touch Panel/Keypad
Linear measurement range	0.000 to 3.500 Absorbance Units (A).
Photometric Accuracy	± 2% or 0.007 whichever is higher, from 0 to 1.5 A; ± 3% from 1.5 A to 3.5 A
Drift	<0.005 A/hr
Photometric Linearity	2.5 A
Optical Measurement	8 Channel
Filters	Narrow band Interference 405nm, 450nm, 492nm, 630nm & Four Optional
Half Bandwidth Selection	10nm ± 2nm Automatic by Stepper Motor
Light Source	Tungsten halogen lamp, 20 Watts
Display	6" Graphics LCD, Negative Blue
Curve Plotting	STN Graphical Representation on Printer
Plate Carrier Movement	Precisely through the stepper motor
Printer	Built in Thermal Printer 52 columns
Memory	Battery backup for 250 tests and more than 2500 results.
Analysis Mode	Absorbance (Normal & Differential) Cut - off Multi - Standard % Absorbance Single Standard
Connectivity	RS 232 / USB
Operation Position	On horizontal flat, rigid and vibration free surface
Operating Conditions Temp./Humidity	From + 18° C to 35° C; Up to 80%
Storage Conditions Temp./Humidity	From - 10° C to 40° C; Up to 80%
Enclosure	ABS Fire Retardant
Dimensions	36 x 36 x 22 (cm)
Weight	10 kg
Power	75 Watts, 115 - 230 Volts ± 10%, 50 / 60 Hz.

MICRO-PLATE WASHER

- Specially designed Manifold assembly to prevent any scratching on bottom of well
- User programmable soak time, wash cycles and dispensing volume
- On Board two plate incubator at 37° C with programmable timer
- Waste bottle full warning with audible alarm
- Built-in stabilizer
- Continuous aspiration to prevent overflow
- Removable manifold
- Ability to wash single strip of 8 wells
- Auto detection of bottom of well and collision prevention

Model No.	ML-PW1-E
Manifold	8 Way Manifold Autoclavable
Dispensing Method Volume	Specially designed Peristaltic Pump 50 - 500 µl
Aspirating Method	Continuous through diaphragm pump while dispensing hence preventing overflow
Residual Volume	< 5 µl
Memory	8 KB Nonvolatile RAM Battery backup, supporting 35 Open channels
Programming Modes	Plate, Strip, Bottom & Overflow Wash, Rinsing, Priming, Disinfect
Shaking Time Speed	1 to 59 Seconds; 8 Steps
Incubator	For two ELISA Plates, 37ÚC
Operating Position	On horizontal, rigid, flat and vibration free surface
Operating Conditions Temp./Humidity	From + 18° C to 35° C; Up to 80%
Storage Conditions Temp./Humidity	From - 10° C to 40° C; Up to 80%
Dimensions	35 x 35 x 13 (cm)
Weight	6 kg
Power	50 Watts; 115-240 Volts ± 10%, 50 /60 Hz

LAMINAR FLOW (Mini Cabinet)

- HEPA Filter with efficiency: 99.999% at 0.3um
- Microprocessor control system, LED Display, air speed adjustable
- Tabletop type 304 stainless steel, easy to carry and save space
- Main Body: Cold-rolled steel with anti-bacteria powder coating
- Front Window: 5mm toughened glass, anti-ultraviolet radiation
- There are two types

ML-CJ-600P can only protect products

ML-CJ-600N can protect operator and environment

Model No.	ML-CJ-600P	ML-CJ-600N
HEPA Filter	99.999% efficiency at 0.3um	
Pre-filter	Polyester fiber, washable	
Airflow Velocity	0.3 ~ 0.6m/s	>0.5m/s
Dimension Outer	550 x 450 x 700 (mm)	
Dimension Inner	480 x 340 x 370 (mm)	
Display	LED Display	
Noise	<50 dB	
Max Opening	310 (mm)	
Fluorescent Lamp	1 x 8 W	
UV Lamp	1 x 8 W	
Consumption	110 W	
Weight	40 kg	
Power	220 V 50/60Hz	

LAMINAR FLOW

- Adopt low consumption centrifugal fan, equipped with reasonable duct Design, make airflow more uniform & stable
- The bench board is made of mirror stainless steel, easy to clean & corrosion Resistant
- Equipped with primary & high efficiency filter to meet customer's purification Degree requirement
- Adopt microcomputer controller, adjustable fan velocity
- Weight-balance front door design, can be positioned up & down
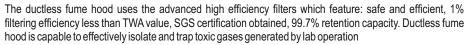
Specification (Horizontal Model)

Model No.	ML-HS840	ML-HS1300
Air Velocity	0.25 ~ 0.45M/S (Adjustable)	
Noise	<62 dB	
Luminance	>300 LX	
Operator(s)	1 person	2 Persons
Dimension Inner	500 × 700 × 430 (mm)	500 × 1250 × 450 (mm)
Dimension Outer	1610 × 860 × 580 (mm)	1610 × 1450 × 580 (mm)
Weight	80 kg	120 kg
Power	220 V	

Specification (Vertical Model)

Model No.	ML-CJ-1D	ML-CJ-1S
Air Velocity	0.25 ~ 0.45M/S (Adjustable)	
Noise	<62 dB	
Luminance	>300 LX	
Operator(s)	1 person	2 Persons
Dimension Inner	500 × 700 × 430 (mm)	500 × 1250 × 450 (mm)
Dimension Outer	1610 × 860 × 580 (mm)	1610 × 1450 × 580 (mm)
Weight	80 kg	120 kg
Power	220 V	

DUCTLESS FUME HOOD

The ductless fume hood uses the advanced high efficiency filters which feature: safe and efficient, 1% filtering efficiency less than TWA value, SGS certification obtained, 99.7% retention capacity. Ductless fume hood is capable to effectively isolate and trap toxic gases generated by lab operation

- Inspect & display air velocity, saturation of filters, indoor environment, temperature & humidity
- Transparent acrylic containment with Galvanized steel plates
- The fume hoods can ensure the speed of fans/blowers by micro computer Control system
- The unique real-time monitoring function could detect the change of indoor air Circumstance. The filter saturation sensors could "on-line" monitor the workingstatus of filters and alarm when filters are saturated

Model No.	ML-DF80	ML-DF100	ML-DF130	ML-DF160
Dimension Outer (mm)	800 x 690 x 1140	1000 x 690 x 1140	1300 x 920 x 1220	1600 x 920 x 1220
Dimension Inner (mm)	760 x 640 x 830	960 x 640 x 830	1230 x 760 x 890	1530 x 760 x 890
Air Capacity	202 (m³/h)		1354 (m³/h)	2030 (m³/h)
Air Velocity Setting	0 ~ 202 (m³/h)		0 ~ 1354 (m³/h)	0 ~ 2030 (m³/h)
Lifespan of Fans	<60000 hrs.			
Fan Power	<47 W		<144 W	<216 W
Fan Noise	<30 dB		<45 dB	<50 dB
Avg. Air Face Velocity	0.4 ~ 0.6 (m/s)			
Filters	1	2	3	
Fans	1	2	3	
Power	220 ~ 242 V			
Rated Current	<0.25 A		<0.7 A	<1.2 A
Operation Hole	Trapezium			

CLEAN BENCH / PCR WORK STATION (DESKTOP)

- Adopt low consumption centrifugal fan, equipped with reasonable duct Design, make airflow more uniform & stable
- The bench board is made of mirror stainless steel, easy to clean & corrosion Resistant
- Equipped with primary & high efficiency filter to meet customer's purification Degree requirement
- Adopt microcomputer controller, adjustable fan velocity
- Weight-balance front door design, can be positioned up & down

Model No.	ML-CB-D	ML-PCR-WS
Air Velocity	0.25 ~ 0.45 m/s	
UV Tubes	-	2 Nos. (8 W)
Illumination	>300 lux	
Noise	<62dB	
Dimension Inner	410 × 670 × 440 (mm)	
Dimension Outer	580 × 700 × 610 (mm)	
Weight	40 kg	
Power	220 V	

PRECISION BALANCE

- LCD with backlight
- Response in 3 seconds
- Linear calibration
- Selectable weighing units and count mode

Model No.	ML-PB-310	ML-PB-610	ML-PB-1010	ML-PB-2010	ML-PB-2202	ML-PB-3202	ML-PB-4202
Capacity	300 g	600 g	1100 g	2100 g	2200 g	3200 g	4200 g
Readability	0.01 g						
Pan Size	Ø 130 (mm)				180 x 180 (mm)		
Response Time	< 3 sec.						
Display	Backlit LCD Display						
Calibration	Single Key with external weights						
Measuring Unit	gm, lb, oz						

Touch Screen Analytical Balance 0.1mg with internal caliberation (ML- TAB-01)

- 5.7 inch color touch screen and convenient graphic menu.
- With powerful software function such as weighing, parts counting, percentage weighing, check weighing, animal weighing, tantalization, density weighing, formula weighing and target weighing.
- Multli-Users management can store 5000 set of test data, can display the sensor temperature compensation in real time to ensure the accuracy of the instrument.
- Excellent wireless sensing operation function, can set the operation of automatic correction, to avoid the contamination of the instrument by chemical reaction.
- Electromagnetic balance sensor.
- Internal/External calibration.
- RS232C and USB output.

Model No	ML-TAB-01
Max capacity	200g
Readability	0.1mg
Pan Size	90mm
Calibration	Internal calibration

PRECISION BALANCE

- LCD with backlight
- Response in 3 seconds
- Linear calibration
- Selectable weighing units and count mode
- Standard RS232 with PC software (optional)
- Fit with inner chargeable DC battery (optional)
- Fit with dual extra display (optional)

Model No.	ML-PB-63	ML-PB-103	ML-PB-203	ML-PB-303	ML-PB-323	ML-PB-423	ML-PB-523
Capacity	60 g	100 g	200 g	300 g	320 g	420 g	520 g
Readability	0.001 g						
Repeatability	0.002 g	0.002 g	0.003 g	0.003 g	0.002 g	0.002 g	0.003 g
Linearity	0.002 g	0.002 g	0.002 g	0.003 g	0.002 g	0.002 g	0.002 g
Pan Size	Ø 80 (mm)				Ø 110 (mm)		
Response Time	< 3 sec.						
Display	Backlit LCD Display						
Calibration	Single Key with external weights						
Measuring Unit	gm, lb, oz						
Housing	270 x 190 x 265 (mm)						
Weight	4.5 kg						
Power	100-120VAC 150mA, 220-240VAC 100mA, 50/60 Hz						

ANALYTICAL BALANCE

- Analytical balance with internal calibration and GMP-GLP record print-out
- Brilliant backlit LCD display with simple navigation windows and menus to guide You through balance function
- User selectable filter, stability indicator and auto-zero tracking for use in difficult Environments
- RS 232C and USB connectors to connect with PC
- Optional LAN connection, wireless Wi-Fi connection allows to extend Communication
- Weigh-below hook for below-balance weighing applications with in-built density Measurement software

Model No.	ML-AB-50AC	ML-AB-100AC	ML- AB-220AC	ML-AB-300AC
Capacity	50 g	100 g	220 g	300 g
Readability	0.1 mg			
Repeatability	0.2 mg			
Linearity	0.2 mg			
Pan Size	Ø 90 (mm)			
Response Time	<5 ~ 8 sec.			
Calibration	Auto			

ANALYTICAL BALANCE

- Dynamic Weighing Mode – Allows the user to weigh small animals and filters out Animal movements to provide a stable weight indication
- Parts Counting with Optimization – Allows the user to count based on a calculated Piece weight
- Percentage Mode – Allows the user to display the weight of a sample as a Percentage of a reference weight
- Tantalization Mode – Allows the user to sum a series of sample weights
- Easy Access, Frameless Draught shield with Removable Doors – All side doors Disassemble in seconds, and together with a stainless steel base, make it fast and Easy to clean
- Standard 1500V isolation USB port, ease to connect with PC

Model No.	ML-AB-24	ML-AB-124EC	ML-AB-175EC	ML-AB-224EC
Capacity	20 g	120 g	35 g	220 g
Readability	0.1 mg	0.1 mg	0.1 mg	0.1 mg
Repeatability	0.2 mg	0.2 mg	0.2 mg	0.2 mg
Linearity	0.2 mg	0.2 mg	0.2 mg	0.3 mg
Pan Size	Ø 40 (mm)		Ø 80 (mm)	
Response Time	3 sec.			
Display	Backlit LCD Display			
Calibration	Single Key with external weights.			
Measuring Unit	Milligram, Gram, Carat, Ounce			
Housing	210 x 280 x 350 (mm)			
Weight	7.4 kg			
Power	100-120VAC 150mA, 220-240VAC 100mA, 50/60Hz			

ULTRASONIC CLEANERS

- Useful for Cleaning to Remove Dity,Grease,Waxes and Oil from all Lab Instruments by Ultrasonic Frequency
- Microprocessor Control:Timer,Temperature and Ouput Control
- Multi-Frequency Sonication Body
- HF-Frequency:40kHz
- Temperature Range from Ambient to 80°C
- Convenient Preset Function:Heating and Timer
- Drain-value
- Maximum 99 miutes of Cleaning Time
- Very Strong Cleansing Degassing Function

Model	MLC-3S	MLC-5S	MLC-6S	MLC-10S	MLC-14S	MLC-22S	MLC-30S
Capacity	3L	5L	6L	10L	14L	22L	30L
Frequency	40kHz						
HF-peak out	120W	120W	180w	240W	300W	600W	600W
Heat temp	ambient to 80°C						
Heating Power	75W	75W	150w	225W	225W	375W	375W
Timer	1-99min.						
Display	LED						
Drain-value	None	Have					
Tank Size inner(mm)	240×140×100	240×140×150	300×155×150	300×240×150	300×240×200	500×300×150	500×300×200
Power Consumption	195w	195w	330w	465w	525w	975w	975w
Electrical Reqts	1Phase,AC 120V,60Hz or AC 230V,50/60Hz						
Packing QTY	1	1	1	1	1	1	1
Pakcing size	35x25x33cm	35x25x33cm	41x25x35cm	43x36.5x40	43x36.5x45	63x42x41cm	63x42x44cm
Weight	4.5	4.5	6	10	12	17	20
FOB	151.6	173.3	195	292.5	325	541.6	693.3

CO2 Incubator

- Water jacket and air jacket structure are available, polished stainless-steel chamber,surface painted.
- Large LCD screen and PID controller design. PID microprocessor is used to control temperature and air,meanwhile,the temperature of box ,water and door are separately controlled by three probes to ensure accuracy. (Air jacket is equipped with two probes to control door temperature and main body temperature.)
- Flexible touch switch, each working status has LCD indication.
- Alarm function for over-heating, lack of water, unaspirated, ensuring the safe operation of the equipment.
- Equipped with sterile air filtration devices and UV light system to reduce pollution.
- Natural evaporation for humidification, so that the chamber can maintain good humidity and the humidity can be displayed on screen.
- Adopt gilded infrared probe in the detection of CO2 for precise measurement. The sensor life expectancy is up to 15 years. With alarm function for over concentration, slow concentration rising and unaspirated.
- Equipped with leakage protection and auxiliary thermostat.

Options
- RS485/232 connector
- CO2 pressure releasing valve
- Wireless alarm system (SMS alarm system)
- HEPA filter system
- Automatic humidification system
- 90^{0}C High temperature sterilization

Model	MLI-85/MLI-85T	MLI-165/MLI-165T	MLI-270/MLI-270T
Chamber Volume	85L	165L	270L
Temperature Range	RT+3~60^{0}C		
Display Resolution	0.1^{0}C		
Temperature Stability	≤ ±0.2^{0}C		
Temperature Uniformity	≤ ±0.3^{0}C		
CO2 Range	0~20%		
CO2 Control Resolution	±0.1%(imported sensor)		
Humidity Method	Natural Vaporization		
Electricity	AC220V,50HZ		
Power Consumption	600W	900W	1400W
Chamber Size (W×D×H)cm	40×42.5×50	50×51×65	60×60×75
Exterior Size (W×D×H)cm	55×57×80	63×69×100	72×75×110
Net/Gross (kg)	59/92	83/120	132/165

Bio Incubator (BOD)

- Polished Stainless steel chamber, surface painted, the space between shelves can be freely adjusted, easy for cleaning.
- Equipped with power supply outlet and lamp inside,easy to observe the culture in the workroom.
- The incubator door is designed as a double door, the inner door is made of tempered glass for easy observation.
- Automatic control for hot and cold.
- Large LCD screen, menu operation,multi segment program control technology, high precision.
- RS485 connector to connect computer and printer, temperature and time data can be displayed on computer and print.
- External printer records temperature and time data in real time.
- Equipped with leakage protection.
- Equipped with auxiliary thermostat (for heating).

Options
- Programmable temperature controller
- Built-in Printer
- Φ25mm (50mm) test hole
- RS485/232 connector
- Wireless alarm system (SMS alarm system)

Model	MLBI-175-N	MLBI-275-N	MLBI-375-N	MLBI-475-N	MLBI-800-N	MLBI-1075-N
Chamber Volume	175L	275L	375L	475L	800L	1075L
Temperature Range	0~65 ^{0}C					
Display Resolution	0.1^{0}C					
Temperature Stability	±0.5^{0}C					
Temperature Uniformity	±1^{0}C					
Timing Range	0~99h 59min					
Power Consumption	300W	350W	450W	500W	800W	1000W
Refrigerant	R134a					
Electricity	AC 220V±10%, 50Hz±2%					
Continuous Operation	Long continuous operation					
Exterior Size(W×D×H)cm	61×62×150	74×71×157	75×75×173	86×75×182	113×93×198	101×90×224
Chamber Size(W×D×H)cm	45×42×93	58×51×93.5	59×55×116	70×55×125	96.5×61×137	95×70×160
Net/Gross weight（kg)	75/115	85/128	93/137	105/147	175/240	205/290

DIGITAL ROLLER MIXER

- Rocking and rolling motions for complete mixing
- Display show the speed and time
- Speed range of 10-99rpm
- Seven roller design with small footprint and easy clean
- Digital setting speed and time

Model	MLTRM-7S Digital Roller Mixer
Speed	Adjustable,10-99rpm±10%
Motion	simultaeous roll & tilt±5%
Operating Temp	4^{0}C-40^{0}C
Electcal	80-230V, 50-60Hz, 50W
Packing Size	56x36x18.5cm
Weight:	4.3

Constant Temperature & Humidity Incubator

- Large LCD screen to display more data at same time.Menu-type operation interface, easy to understand and operate.
- Digital display for temperature and humidity ,multi-stage program control technology, high precision.
- PID microprocessor ensures precise control for temperature and humidity .
- There are 99 cycles of program, each cycle is divided into 30 segments, each segment contains 99 hours and 99 minutes of cycle steps, it can happily meet almost all the complicated experiment process.
- Temperature -limiting alarm system ensures experiment runs safely. If the temperature exceeds the limit, the operation will be automatically stopped and alarm will prompt the operator.
- Polished Stainless steel chamber, surface painted, the space between shelves can be freely adjusted, easy for cleaning.
- Equipped with power supply and install a germicidal lamp to facilitate sterilization in the work chamber.
- The incubator door is designed as a double door, the inner door is made of tempered glass for easy observation.
- Imported international brand compressor with cooling system, can effectively extend the life of the compressor.
- JAKEL circulation fan, reasonable air duct structure, effectively guarantee the temperature stability inside the box.
- Imported brand humidity sensor, built-in tank heating humidification system, effectively ensuring the humidity deviation.
- Equipped with leakage protection.
- Equipped with auxiliary thermostat (for heating).
- Equipped with UV disinfection device.

Options
- Built-in Printer
- φ25mm (50mm) test hole
- Wireless alarm system (SMS alarm system)
- RS485 connector

Model	MLHI-175-N	MLHI-275-N	MLHI-375-N	MLHI-475-N	MLHI-800-N	MLHI-1075-N
Chamber Volume	175L	275L	375L	475L	800L	1075L
Temperature Range	0~65 ^{o}C					
Display Resolution	0.1^{0}C					
Temperature Stability	HIGH±0.5^{0}C, LOW±1^{0}C					
Temperature Uniformity	±1^{0}C					
Timing Range	30~95%RH					
Power Consumption	1100W	1400W	1950W	2000W	2300W	2600W
Humidity Stability	±3%RH					
Refrigerant	R134a					
Electricity	AC 220V±10%, 50Hz±2%					
Continuous Operation	Long continuous operation					
Ambient Temperature	5~40^{0}C					
Exterior Size(W×D×H)cm	61×62×150	74×71×157	75×75×173	86×75×182	113×93×198	101×90×224
Chamber Size(W×D×H)cm	45×42×93	58×51×93.5	59×55×116	70×55×125	96.5×61×137	95×70×160
Net/Gross weight (kg)	82/125	95/138	103/147	115/157	185/250	215/300

Nitrogen Concentrator & Sample Concentrator

- Model:MLNK200-2N
- Product description: The nitrogen sample concentrator MLNK200-2N is mainly used for concentrating or preparing sample in batch.

Description

Nictrogen concentrator is mainly used for concentrating or preparing samples in batc.Such as drug screening,Hormone analysis,Liquid Phase and Mass spectrometry in the analysis of sample preparation.it work by blowing nitrogen in the surface of the sample without oxygen.instead of rotary evaporation instrument,Nitrogen sample concentrator cna efficiently concentrate dozens of sample simultaneously.

Features

1. The height of the air chamber plate can be adjusted.the lenght of a needle is 150mm.
2. LED display immidiate temperature and diminishing time.operation is simple and convinient.
3. Built in overheat protection.automatic fault detection adn fault beep alarm device.
4. The entire equipment can be put into ventilation cabinate when the concentration sample is in toxic solvent.
5. Synchronously working with heating by dry bath in the bottom and nitrogen blowing on the surfacr accelerates liquid evaporationand sample concentration.
6. Unique design for air channel control system,enhance air tightness and reduces poteintial leakage;easy to operate,lift/press air needle to realize channel switch;the switching status of each channel is clear at glance.
7. Standard configured air cavity and adjustable bracket.

Parameters

Model No.	MLNK200-IN	MLNK200-2N
Temp. Control Range	R, T, +5^{0}C ~ 150^{0}C	R, T, +5^{0}C ~ 150^{0}C
Temp. Setting Range	5^{0}C ~ 150^{0}C	5^{0}C ~ 150^{0}C
Temp.Stability@40~100^{0}C	$\pm$0.5^{0}C	$\pm$0.5^{0}C
Temp.Stability@100-150^{0}C	$\pm$1^{0}C	$\pm$1^{0}C
Block Temp. Uniformity@100^{0}C	$\pm$0.5^{0}C	$\pm$0.5^{0}C
Block Temp. Uniformity@150^{0}C	$\pm$1^{0}C	$\pm$1^{0}C
Temp. Display Accuracy	$\pm$0.1^{0}C	$\pm$0.1^{0}C
Heating Speed	$\leq$30min (40^{0}C to 150^{0}C)	$\leq$30min (40^{0}C to 150^{0}C)
Time Range	1min-99h59min	1min-99h59min
Needle Plate Max. Lift Stroke	285mm	285mm
Gas-in Joint Outer Dia Meter	Φ7mm	Φ7mm
Nitrogen Pressure	$\leq$0.1MPa	$\leq$0.1MPa
Nitrogen FLow Rate	0~10L/min	0~10L/min
Needle Length	150mm	150mm
Sample Capacity	1 standard block	2 standard block
Voltage	AC 220V/AC 110V, 50/60Hz	AC 220V/AC 110V, 50/60Hz
Power	200W	400W
Fuse	250V, 2A/3A, Φ5x20	250V, 3A/6A, Φ5x20
Dimension (WxDxH)	W.200 x D.230 x H.525mm	W.200 x D.230 x H.525mm
Net Weight	5.1 kgs	6.1kgs

Digital Turbidity Colorimeter & Portable Turbidity

- 4.3 inch colored TFT screen with friendly UI.
- Contain 200 curves and customize high precision test curve according to measurement ranges. Users can set up different piecewise curve and coefficient subject to different concentrations which will literally improve measurement precision
- ARM9 main control chip makes operations easy, response quick and big storage up to 500M
- Advanced power management system can show the battery status in real time and be charged via USB post on PC or vehicle.
- Adopt special and high precision light filter system to ensure the instruments stability and accuracy.
- Cold light source, narrow band interference, with lifetime up to 100,000 hours.

Model No.	ML-PT-2000S	ML-PT-2000H
Description	Smart Turbidity	High-precision Turbidity
Minimum readout (NTU)	0.01	0.001
Measuring Range (NTU)	0~10, 0~100	0~10, 0~100
	0~1000, 0~4000	0~1000, 0~4000
Basic Error	±5% FS	±3% FS
Repeatabiltiy	<0.5%	<0.5%
Zero draft	±0.5% FS	±0.5% FS
Applications	Drinking Water, Surface water & circulating water	Factory Condensate Water, Domestic Sewage

Liquid Nitrogen Container(ML-YDS-100)

Large caliber type (φneck≥80mm)

This series is designed for those who require large capacity storage and low liquid nitrogen consumption in a convenient lightweight package.

- High strength aluminum alloy structure, light weight and resistant;
- Multi-layer thermal isolation design;
- Lockable cover protect stored biological samples;
- Protective jacket to prevent collision;
- Stainless steel canister with goblets for easy handling;
- Low evaporation loss with long holding time;
- 5-year vacuum warranty.

Model No	ML-YDS-100B
Capacity	100L
Diameter of Neck	216mm
Weight	30.6Kg
External Diameter	681Kg
Total Height	790mm
Daily Evaporation Rate	0.97L/d
Static Holding Time	98 days
Rack	6/7 PCs
Size of Rack	142mmX144mm

P8 Series pH/EC/DO/Ion Meter

General Features:
- 7 inch cclored capacitive touch screen with high resolution (1024'600) and high sensitivity.
- Built-in rnicroprocessor chip has Intelligent functions such as automatic caubratlon, ATC, data storage, clock display, use output, function settings, wireless printing, and self-diagnosis information, etc.
- It supports wireless bluerooth printing and PC connection. Real•time data transfer to mobile phone via bluetooth is optional.
- Smart electrode status display to ensure accurate use.
- Can store 1000 sets of test data, which can be saved and transferred to USB memory stick and opened with Excel.

Features:
- pH Mode;
- Auto recogruuon of 2S buffers with three kinds of options: Europe & USA, NIST and China. Support 1, 2, 3 point calibration.
- Conductivity Mode:
- Adopt advanced conducnvttv measurement technology, with conductivity electrode (K:I), it can meet measuring accuracy requirement for range of 0 51,S!cm - 20OmS/cm
- Can switch among conductivity, TDS, salinity and resisnvrtv, Multinomial calculation •for TDS and salinity to ensure the conversion precision of the full scale .
- Auto recognition of 8 conductivity standard solution with 2 kinds of options: Europe & USA, and China.
- DO Mode:
- It has functions of ATC, auto salinity compensation and auto pressure compensation.
- Polarographic DO electrode, short polarization time (3•5 mintues).

- ISE Mode:
- Can test electric potential, pl-i, px, ORP, Ion concentration and temperature.
- Can SWitch 6 kinds of concentration umts. ~g/L, mg/L, g/L, mol/t, mmol/l, px.
- Auto recognition of buffers With three kinds of options: Europe & USA, NIST and China. Support I, 2, 3, 4, 5 point calibration.

pH	Measurement range	(•.L939 - 19.999}pH
	Resolution	0.1/0.01/0.001 pH
	Accuracv	Electrode: :to.OO2 pH, Meter: :to.OI pH
	Input current	:Hxl0 12 A
	Input impedance	~3.xl0 12 Q
	Stability	±0.002 pHj3h
	Temperature compensation	{O -l00j"C, auto or ma:nual
mll	Measurement range	•1999.9mV - 0 -1999.9mV
	Resolution	O.lmV
	Accuracy	±O.03% FS
Conductivity	Measuring range	Conductivity:
		(0.00-20.00lflS/cm
		(20.0-200.0}~S/cm
		{200~'2000't1S1c:m
		{2..00-'20.00}mS/cm
		{ 2O.0-20QO}mS/cm
		{200-2000)mS!cm(K=10)
		TOS:~O - 100}gfL
		S-afinity:(O - 100)PP1
		Res•istivity:[O - 1001Mn•cm
	Resolution	0.Ol/0.11lpS/cm; O.OliO.lmS/cm
	Accuracy	Electrode: to.S% FS .• Meter: ±O.8% FS
	Temp .. compensation range	{O - SOrC, auto
	Electrode constant	0.1/0 . .5/1/5/10/50/100 cm
	Reference Temp.	25'C, 20'C , IIfC

DO	Measuring range	(0- 20.00) mg/l(ppm) (0-100.0)%
	Resolution	0.1/0.01 mg/L{ppm} 1/0.1 %
	Accuracy	Electrode: ±0.1O mg/L, Meter: ±DAO mg/L
	Resporu:e time	5305 (25'C x 90%response)
	Residual current	50.1 mgfl
	Temp compensation	la - 45)'C (automatic)
	Salinity compensation	(0 - 45) ppt (automatic)
	Pressure compensation	(SO - 105) kPa (automatic)
	Automatic calibration	Air saturated bV water; water saturated by air
	Electrode type	Polarographic
Temperature	Range	(-IO-llOrC
	Resolution	O.I'C
	Accuracy	5 - 60•C:±O.4T: others: ±a.B'C
Other Parameters	Display	7-inch colored capacitive touch screen
	Data storage	1000 sets
	POI.~'er	12V (11Q.-220, SQ.-60Hz adapter)
	Communication interface	USB, RS232, Bluetooth
	Dimensions&Weight	240xl70x70mm/600g
Working Conditions	Temperature	15 -30'C
	Humidity	:585%
	IPgrade	IPS4
Meter Kits	1) pH/Conductivity/DO Meter	
	2) Electrode holder	
	3) pH ccrnposlte electrode	
	4) C.onductivity electrode	
	5) 00 electrode	
	6) Temperature probe	
	7) pH buffer solution	
	8) 00 filling solution	
	9) Membrane cap	
	10) Cathode polishing paper	
	11) Power adapter	

UNITED STATE OF AMERICA

Maxome Labsciences
1100, Matamoros Street
Laredo,
TEXAS-78040
United State of America
Email: info@mlabsciences.com
Website: www.mlabsciences.com

INDIA

Maxome Labsciences Pvt. Ltd.
1528, 9th Main,
2nd Block, HBR Layout,
Bangalore - 560043.
Karnataka, INDIA
Email: info@mlabsciences.com
Website: www.mlabsciences.com