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EN 61010-2-10 EN 61326-1 EMC-guidelines: 89/336/EWG Instrument guidelines: 73/023/EWG

Liquid Handling



dPette+

Multifunction Electronic Pipette

dPette

Simple Electric Pipette

Features

- High accuracy, high performance stepper motor ensures accuracy and repeatability, eliminating manual pipetting errors
- A motor driven digital control pipette with multifunction
- 2 buttons handle all operational settings
- Light weight, ergonomic design, small body dimension for easy handling that guarantees fatigue free pipetting
- Pipetting, Mixing, Stepper and Dilution(Only dPette+)
- Pipetting, Mixing(dPette)
- Adjustable speeds for aspiration and dispensing
- Li-ion battery and dual charging modes enable longer operation time
- Self calibration



dPette+ dPette

Specifications

	Volume Range	Increment	Test	Error li	mits in a	ccordance to	ISO8655-2
Channels	volume kange	increment	Volume	accurac	y error	precision error	
Chaimeis	μL		μL	μL	%	s.d.*µL	CV%*
1	0.5-10	0.01	10	±0.10	±1.00	0.05	0.50
I	0.5-10	0.01	1	±0.035	±3.50	0.03	3.00
1	5-50	0.1	50	±0.40	±0.80	0.15	0.30
I	5-50	0.1	5	±0.15	±3.00	0.125	2.50
1	30-300	1	300	±1.80	±0.60	0.60	0.20
I	30-300	l	30	±0.90	±3.00	0.21	0.70
1	1 100-1000 5	_	1000	±6.00	±0.60	2.00	0.20
I		ο	100	±3.00	±3.00	0.60	0.60

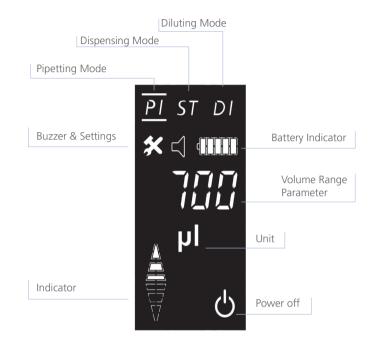
^{*} s.d. = Standard Deviation

Specifications are used as guidelines and the user calibration should refer to the industrial standard ISO 8655

^{*}CV = Coefficient of Variation



dPette is an innovative electronic pipette. It combines the feature of manual pipette as ergonomic and light weight with the feature of electronic pipette as labor-saving and high performance, it offers new pipetting experience to the users.





dPette+

Multifunctional 8-channel Electronic Pipette

Multifunctional eight-channel electronic pipette is an electric-driven pipetting device with digital controls. Our latest electronic technology assures high efficiency, accuracy and precise results for modern regulated laboratory reducing human error regardless of user skill level, and is a better choice for scientific researchers.

Function Wheel

Switch functions such as pipetting, continuous dispensing, and pipetting speed adjustment



360° Rotation

Ingenious Curved Ejector

Tips are pushed out instantaneously from outside to inside to minimize the thrust.

Parameter Knol

Parameter adjustment Parameter confirm Aspirate/ Dispense/Mix



High accuracy and precision, timesaving and efficient

High quality stepper motor and piston control system provide outstanding accuracy and repeatability in results, which reduce manual operation errors.

High level ergonomic and comfortable handle design

Lightweight and compact, to protect the user from repetitive strain injury (RSI).

Simple to use and versatile

Double knobs for simple and versatile control. Dispensing function reduces the pipetting steps and speeds up work.

Dual charging mode

Using the USB charger or charging stand to ensure uninterrupted use.

Three steps to operate dPette+ easy



Long press the parameter knob for 2s to start



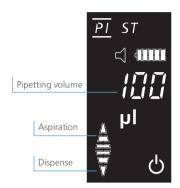
Quickly turn the function wheel to activate, rotate to switch pipetting, continuous



After quickly turning the parameter knob to unlock, turn to adjust the volume, press

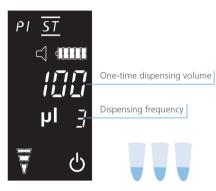
Pipetting function

Parameter knob press → Pipetting, Long press → Mixing



Dispensing function

Set one-time dispensing volume, and automatically get the dispensing times according to the maximum range.



Other function

Pipetting speed adjustment. Buzzer status adjustment.





 $100\mu I \times 3$

Complimentary pipette holder

Supports dual charging mode



Support automatic calibration Connect to the computer, with free software provided

USB charging





Volume Range	Increment	Test Volume	Accuracy error		Precisio	n error
μL	μL	μL	μL	%	SD* μL	CV* %
0 F 10l	0.01	10	±0.20	±2.00	0.1	1.0
0.5-10 μL	0.01	1	±0.08	±8.0	0.05	5.00
10 100 ml	0.1	100	±0.80	±0.80	0.3	0.30
10-100 μL	0.1	10	±0.3	±3.00	0.2	2.00
20.2001	1	300	±1.80	±0.60	0.9	0.3
30-300 μL	l	30	±0.90	±3.00	0.3	1.0



^{*}DLAB specifications are used as guidelines and the user calibration should refer to the industrial standard ISO 8655.





MicroPette plus

121°C FULLY Autoclavable

Features

- Fully autoclavable
- Ergonomic design provides excellent operating experience
- Easy-to-read volume display
- The pipettes cover the volume range from 0.1µL to 5mL
- Easy calibration and maintenance
- Manufactured from innovative materials
- Each MicroPette Plus supplied with an Individual calibration certificate according to ISO8655
- Online calibration is available

MicroPette plus multi-channel

121°C FULLY Autoclavable

Features

- Dispensing head rotates for effortless pipetting convenience
- Individual piston and tip cone assembly allow for easy repair and maintenance
- Compound material-made tip cone secures high sealing performance
- Compatible with most universal tip brands
- Online calibration is available





8 channels

Fully autoclavable

The MicroPette Plus pipettes are fully autoclavable, enable easy cleaning and reduce the risk of contamination. Steam autoclaving can be performed at 121°C, 1 bar for 20 minutes. After autoclaving, the pipette must be cooled down and left to dry for 12 hours before use.

It is recommended to check the performance of the pipette after each autoclaving. Greasing and sealing of the pipette piston after every 10th autoclaving will secure an enhanced function.





AM FCOOTEM

MicroPette

Features

- 121°C HALF Autoclavable
- Pipettes cover a volume range from 0.1µL to 10mL
- Ergonomic design provides excellent operating experience
- Large display window allows for easy volume identification
- Easy calibration and maintenance
- Each MicroPette supplied with an individual calibration certificate according to ISO8655
- Online calibration is available





MicroPette multi-channel



Features

- 8 and 12 channel pipettes are appropriate for 96 well plates
- Dispensing head rotates for effortless pipetting convenience
- Individual piston and tip cone assemblies allowing easy repair and maintenance
- Compound material-made tip cone secures high sealing performance
- Compatible with most universal tip brands
- Online calibration is available







8 channels

Calibration

All pipettes have been quality tested according to ISO8655-2:2002 and are supplied with individual calibration certificates. The quality control includes gravimetric testing of each pipette with distilled water at 22°C

Our website allows users to access online calibration software and achieve accurate and timely calibration.

Online calibration software is FREE to pipette users

Specifications

This list is appropriate for MicroPette and MicroPette plus (Adjustable and Fixed volume)

Single-channel Adjustable Volume Pipettes								
				Error limits in accorda	ance with ISO8655-2			
Volume Range	Increment	Test Volume	(Accura	cy error)	(Precisio	on error)		
			%	μL	%	μL		
		2.5µL	2.50%	0.0625	2.00%	0.05		
0.1-2.5μL	0.05μL	1.25µL	3.00%	0.0375	3.00%	0.0375		
		0.25µL	12.00%	0.03	6.00%	0.015		
		10µL	1.00%	0.1	0.80%	0.08		
0.5-10µL	0.1μL	5µL	1.50%	0.075	1.50%	0.075		
		1µL	2.50%	0.025	1.50%	0.015		
		20µL	0.90%	0.18	0.40%	0.08		
2-20µL	0.5μL	10µL	1.20%	0.12	1.00%	0.1		
		2µL	3.00%	0.06	2.00%	0.04		
		50µL	0.60%	0.3	0.30%	0.15		
5-50µL	0.5µL	25µL	0.90%	0.225	0.60%	0.15		
		5µL	2.00%	0.1	2.00%	0.1		
		100μL	0.80%	0.8	0.15%	0.15		
10-100μL 1μL	1µL	50μL	1.00%	0.5	0.40%	0.2		
		10µL	3.00%	0.3	1.50%	0.15		
		200μL	0.60%	1.2	0.15%	0.3		
20-200µL	1µL	100μL	0.80%	0.8	0.30%	0.3		
·		20µL	3.00%	0.6	1.00%	0.2		
		200μL	0.60%	1.2	0.15%	0.3		
50-200μL	1µL	100μL	0.80%	0.8	0.30%	0.3		
,	,	50μL	1.00%	0.5	0.40%	0.2		
		1000μL	0.60%	6	0.20%	2		
100-1000μL	5µL	500μL	0.70%	3.5	0.25%	1.25		
		100μL	2.00%	2	0.70%	0.7		
		1000μL	0.60%	6	0.20%	2		
200-1000μL	5µL	500μL	0.70%	3.5	0.25%	1.25		
200 1000002	342	200μL	0.90%	1.8	0.30%	0.6		
		5000μL	0.50%	25	0.15%	7.5		
1000-5000µL	50μL	2500μL	0.60%	15	0.30%	7.5		
,		1000μL	0.70%	7	0.30%	3		
		10mL	0.60%	60	0.20%	20		
2-10mL	0.1mL	5mL	1.20%	60	0.30%	15		
		2mL	3.00%	60	0.60%	12		

Specifications are used as guidelines and the user calibration should refer to the industrial standard ISO 8655

50-300μL

5μL

150µL

50µL

8-channel Adjustable Volume Pipettes Error limits in accordance with ISO8655-2 Volume Test Volume Increment : Range (Accuracy error) (Precision error) % % μL μL 0.15 0.15 1.50% 1.50% 10μL 0.5-10µL 0.1μL 2.50% 0.125 2.50% 0.125 5μL 1μL 4.00% 0.04 4.00% 0.04 0.5 0.25 50μL 1.00% 0.50% 1.50% 1.00% 0.25 5-50µL 0.5μL 25μL 0.375 0.1 5μL 3.00% 0.15 2.00% 300µL 0.70% 2.1 0.25% 0.75

1.50% 12-channel Adjustable Volume Pipettes

1.00%

1.5

0.75

0.50%

0.80%

0.75

0.4

Volume			Error limits in accordance with ISO8655-2						
Range	Increment	Test Volume	(Accurac	y error)	(Precision	error)			
			%	μL	%	μL			
	1	10µL	1.50%	0.15	1.50%	0.15			
0.5-10µL	0.1µL	5µL	2.50%	0.125	2.50%	0.125			
		1µL	4.00%	0.04	4.00%	0.04			
	1	50μL	1.00%	0.5	0.50%	0.25			
5-50µL	0.5µL	25µL	1.50%	0.375	1.00%	0.25			
	! ! !	5µL	3.00%	0.15	2.00%	0.1			
	1	300µL	0.70%	2.1	0.25%	0.75			
50-300μL	5µL	150µL	1.00%	1.5	0.50%	0.75			
) 	50µL	1.50%	0.75	0.80%	0.4			

rixed volume Pipettes									
Volume	Volumo		Error limits in accordance with ISO8655-2						
Range	Increment	Test Volume	(Accurac	y error)	(Precision	error)			
			%	μL	%	μL			
5µL	-	5µL	1.3%	0.065	1.2%	0.06			
10µL	-	10μL	0.8%	0.08	0.8%	0.08			
20µL	-	20µL	0.6%	0.12	0.5%	0.1			
25µL	-	25µL	0.5%	0.125	0.3%	0.075			
50μL	-	50μL	0.5%	0.25	0.3%	0.15			
100µL	-	100µL	0.5%	0.5	0.3%	0.3			
200µL	-	200µL	0.4%	0.8	0.2%	0.4			
250µL	-	250µL	0.4%	1.0	0.2%	0.5			
500µL	-	500µL	0.3%	1.5	0.2%	1.0			
1000µL	-	1000µL	0.3%	3.0	0.2%	2.0			
2000µL	-	2000µL	0.3%	6.0	0.15%	3.0			
5000µL	-	5000µL	0.3%	15	0.15%	7.5			

Specifications are used as guidelines and the user calibration should refer to the industrial standard ISO 8655



HiPette

Fully Autoclavable Mechanical Pipette

The new generation of fully autoclavable manual pipette is lightweight, precise, stable and durable. It adopts new pistion structure, metal screw structure, fluorine rubber compound sealing ring and other technologies to reduce the pipetting resistance. At the same time, it can withstand high temperature and high pressure sterilization, resist strong chemical corrosion, and have a long service life. In addition, volume lock helps achieve more precise pipetting operations.







Suitable for low-viscosity liquids, press the plunger to the first stop when aspirating, and press the button to the second stop when dispensing.

Reverse pipetting

It is suitable for high-viscosity liquids, easy to foam or micro samples, with higher pipetting accuracy. Press the plunger to the second stop when aspirating, and press the plunger to the first stop when dispensing.

Range selection

Choose the appropriate range according to the pipetting volume. 30%—100% of the maximum range of the pipette is the best use range.

Specifications

Single-channel Adjustable Volume Pipettes (9 models, covering 0.1μl~10ml.)									
Volume Range	Increment	Test Volume	Accura	cy Error	Precisio	on Error			
volume Kange	Increment	lest volume	%	μL	%	μL			
		2.5μL	1.4%	0.04	0.7%	0.02			
0.1~2.5μL	0.002μL	1.25μL	2.5%	0.03	1.5%	0.02			
		0.25μL	12.0%	0.03	6.0%	0.02			
		10μL	1.0%	0.10	0.4%	0.04			
0.5~10μL	0.01μL	5μL	1.5%	0.08	0.8%	0.04			
		1μL	2.5%	0.03	1.8%	0.02			
		20μL	1.0%	0.20	0.3%	0.06			
2~20μL	0.02μL	10μL	1.2%	0.12	0.6%	0.06			
		2μL	5.0%	0.10	1.5%	0.03			
	0.1μL	100μL	0.8%	0.80	0.2%	0.20			
10~100μL		50μL	1.0%	0.50	0.3%	0.15			
		10μL	3.0%	0.30	1.0%	0.10			
	0.2μL	200μL	0.6%	1.20	0.2%	0.40			
20~200μL		100μL	1.0%	1.00	0.3%	0.30			
		20μL	2.5%	0.50	0.7%	0.14			
		1000μL	0.6%	1.80	0.2%	0.60			
30~300μL	2μL	500μL	1.0%	1.50	0.3%	0.45			
		100μL	2.5%	0.75	0.7%	0.21			
		1000μL	0.6%	6.00	0.2%	2.00			
100~1000μL	1μL	500μL	1%	5.00	0.2%	1.00			
		100μL	3%	3.00	0.6%	0.60			
		5000μL	0.6%	30.00	0.2%	10.00			
1000~5000µL	5μL	2500μL	0.6%	15.00	0.3%	7.50			
		1000μL	1.2%	12.00	0.3%	3.00			
		10000μL	0.6%	60.00	0.2%	20.00			
2000~10000μL	10μL	5000μL	0.8%	40.00	0.2%	10.00			
		2000µL	1.5%	30.00	0.3%	6.00			

^{*} For accurate and reliable pipette calibration HiPette conforms to ISO 8655:2002 standards.

1000

Levo Plus

Pipette Filler

Features

- Compatible with most ofthe plastic and glass pipettes from 0.1 -100mL
- Six different speed modes for aspiration and dispensing different liquids
- Large LCD display showing low battery warning and speed settings
- Enables single-handed operation with minimum effort
- Light and ergonomic design providing easy usability
- High capacity Li-ion battery enable long runtime of operation
- Powerful pump fills a 25mL pipette in<5 seconds
- 0.45µm replaceable hydrophobic filter
- Rechargeable during use

Large LCD display showing low battery warning and speed settings



Select the desired coarse speed by pressing the button +/-



Levo Plus



Hydrophobic filter 0.45µm

Silicone adapter for 0.1-100mL pipette tip, fully autoclavable







Levo ME

Pipette Filler

Levo ME pipette filler has an excellent feature and ergonomic design, suitable for almost all commonly used glass or plastic pipettes.

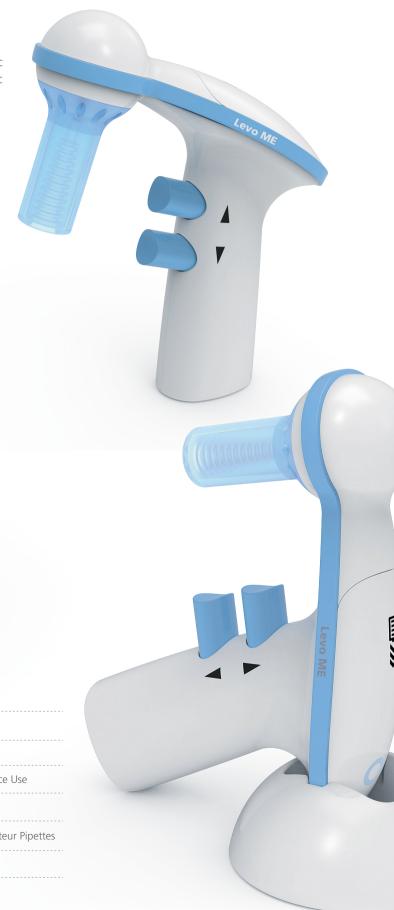
Features

- Enables single-handed operation with minimum effort
- Compatible with most of the plastic and glass pipettes from 0.1-100mL
- Easily adjustable speed control
- 0.45µm replaceable hydrophobic filter
- Stable and reliable performance, elegant appearance
- High capacity Li-ion battery enable long operation time.



Specifications

Aspiration Speed	25ml<7s					
Dispensing Speed	Motor/Gravity					
Battery	Lithium-ion					
Battery Service Life	More than 8 Hours of Intermittence Use					
Charging Time	2-3 Hours					
Pipette Types	Glass or Plastic Pipette (0.1-100mL), Pasteur Pipettes					
Filter	0.45µm Hydrophobic					
Weight	200g					



Levo

Pipette Controller

Features

- Ease of use
- Precise pipetting control
- Robust and light weight
- Compatible with most of the plastic and glass pipettes from 0.1 -100mL
- 3µm replaceable hydrophobic filter
- Easy for cleaning and maintenance



Compress the suction bellows before attaching the pipette

Button to expel residual liquid when using blow-out pipette

Aspiration and dispensing comfortably achieved with a sensitive lever

Levo E

Pipette Pump

Features

- Volume capacity 2mL, 10mL and 25mL
- Colour-coded by volume with green, blue and red
- Thumb wheel guarantees precise operation
- Resistant to acids and alkalis
- Easy for cleaning and maintenance

3μm replaceable Hydrophobic filter

Silicone adapter for 0.1-100mL pipette tip, fully autoclavable

Designed for singlehanded operation, Pipette Pump identifies itself with a thumbwheel, allowing precise aspiration or dispensing. The feature of side lever enables complete liquid dispensing, without a droplet remaining.



Based on the principle of positive displacement, StepMate Stepper is designed for trouble reliable dispensing of liquids, especially for high viscosity, high density and high vapor pressur. The 48-step dispensing allows for enhanced accuracy and usability.

StepMateStepper

Features

- Light and ergonomic solution provides easy usability
- Single-handed operation
- Volume range from 10µL to 5mL
- Up to 48 dispensing steps
- Maintenance free
- Equipped with durable tip
- insertion lever
- Fits seven sizes of disposable polypropylene syringes from 0.5mL to 50mL

Optimized for smooth dispensing of even the smallest volumes

Five easy-to-select settings control dispensing volume

By pushing the slide upwards, the syringe is filled up

How to select dispensing volume

Find the required dispensing volume in the table Use the adjusting wheel to set the required volume Select and insert a suitable tip Follow the maximum dispensing steps

Tip volume

Dispensing Volume

Sel.	1	2	3	4	5
0.50ml	10µl	20µl	30µl	40µl	50µl
1.25ml	25µl	50µl	75µl	100µl	125µl
2.50ml	50µl	100µl	150µl	200µl	250µl
5.00ml	100µl	200µl	300µl	400µl	500µl
12.50ml	250µl	500µl	750µl	1000µl	1250µl
25.00ml	500µl	1000µl	1500µl	2000µl	2500µl
50.00ml	1000µl	2000µl	3000µl	4000µl	5000µl
Steps	48	23	15	11	8

Steps

The stop lever secures the syringe



Stepper tips are particularly suitable for dispensing of fluids with high viscosity, high vapor pressure etc.

Tips are made from high-quality materials (Cylinder: PP, Piston: PE-HD) without soft lubricants or other additives.



Note: The first and last dispensing liquid should be discarded for precision.

Dial setting	1	2	3	4	5	
Number of steps	48	23	15	11	8	



Number	и эксрэ	40	23						
Cat. No.	Syringe volume (mL)		Sam	ıple volı (μL)	ume		Α%	Р%	Description
17900032	0.50	10	20	30	40	50	± 0.8	≤ 0.7	0.5mL, piston PE-HD, cylinder PP, 1 packing, 5 pcs/packing
17900033	1.25	25	50	75	100	125	± 0.8	≤ 0.5	1.25mL, piston PE-HD, cylinder PP, 1 packing, 5 pcs/packing
17900034	2.50	50	100	150	200	250	± 0.8	≤ 0.4	2.5mL, piston PE-HD, cylinder PP, 1 packing, 5 pcs/packing
17900035	5.00	100	200	300	400	500	± 0.4	≤ 0.3	5mL, piston PE-HD, cylinder PP, 1 packing, 5 pcs/packing
17900036	12.50	250	500	750	1000	1250	± 0.3	≤ 0.3	12.5ml, piston PE-HD, cylinder PP, 1 packing, 5 pcs/packing
17900037	25.00	500	1000	1500	2000	2500	± 0.2	≤ 0.3	25mL, piston PE-HD, cylinder PP, 1 packing, 2pcs/packing with 1 pc adapter
17900038	50.00	1000	2000	3000	4000	5000	± 0.2	≤ 0.2	50mL, piston PE-HD, cylinder PP, 1 packing, 2pcs/packing with 1 pc adapter





dTrite Electronic Titrator

The dTrite Digital Burette provides accurate, precise and convenient bottle-top titration, as well as optimum operator safety.

It combines both magnetic stirrer and titrator functions, making it easier for the operator to achieve satisfactory results in the field of analytical chemistry, food industry, water analysis etc.

Features

- High quality motor with excellent precision and accuracy
- Electronic control provides a fatigue-free operation
- Remote control panel prevents manual disturbance during operation
- Built-in magnetic stirrer for a complete and easy operation

Specifications

Volume Range	0.01mL-99.99mL, Max piston lift is 10mL, resolution is 10μL
Volume Accuracy	R=0.2% CV=0.07%
Velocity	16 stages
Operating Temperature Range	10°C-30°C
Quality Control	DIN EN ISO 8655
Control Type	External control, including the stirrer and the burette program

dFlow

Electronic Bottle-Top Dispenser

Features

- Digital operation
- Electronic control provides a fatigue-free operation
- Remote control panel prevents manual disturbance during operation
- Two operation modes:
- Traditional Dispensing, the liquid is continuously dispensed
- Stepper Function, for dispensing series



Specifications

Volume Range	0.1-99.9mL, Max piston lift is 10mL, resolution is 100μL
Volume Accuracy	Dispenser: R = 10mL ±30μL; CV = 10ml ±10μL Stepper: R = 1mL ±6μL; CV = 1ML ±9μL
Operating Temperature Range	10°C-30°C
Quality Control	DIN EN ISO 8655
Contro Type	External control

DispensMate-Pro DispensMate-S

New Bottle-Top Dispenser

2 optional schemes offer high chemical resistance and robustness in the range of volumes up to 100 ml

DispenMate-Pro:

• Seamless glass piston and socket design, with strong chemical resistance, smooth and low resistance operation.

DispensMate-S:

• Anti-corrosion sealing ring with strong chemical resistance.



reagent waste and prevents dripping when not in operation

Reagent recovery function reduces

Fast, reliable and reproducible volume locking mechanism

6 adapters allow fitting to most common bottles









- High chemical resistance of all dispensing components
- Fully autoclavable at 121°C
- Available in 5 sizes for dispensing volumes from 0.5mL to 100mL
- Reagent recovery function reduces waste and prevents dripping when not in operation
- Fast and reliable volume locking mechanism
- Easy to disassemble and clean, minimum maintenance
- For liquid with vapor pressure up to 500 mbar; viscosity up to 500 mm²/s; temperature up to 40°C; density up to 2.2 g/cm
- Adjustable aspirating tube for different height bottles
- Supplied with most common adapters (S40, GL32, GL38, GL25, GL28)

Specifications

Volume	Graduation A≤±		CV≤		
Range mL	mL	%	μL	%	μL
0.5-5	0.1	0.5	25	0.2	10
1.0-10	0.2	0.5	50	0.2	20
2.5-25	0.5	0.5	125	0.2	50
5.0-50	1.0	0.5	250	0.2	100
10~100	2.0	0.5	500	0.2	200

Accessories

Cat. No.	Description
17400135	S40, Adapter, 45/40mm
17400131	GL32, Adapter, 45/32mm
17400132	GL38, Adapter, 45/38mm
17400133	GL25, Adapter, 32/25mm
17400134	GL28, Adapter, 32/28mm
17400037	Reagent Bottle (Brown,1L ,Optional)
17900158	Filling tube
17000802	Discharge tube

DispensMate

Bottle-Top Dispenser



Smooth piston design provides effortless dispensing

closure cap protects against reagent contact, easy to open/close without taking gloves off.



different size bottles



Accessories

Features

- Excellent chemical resistance, high strength components made of PTFE, FEP, BSG, PP
- Fully autoclavable at 121°C (Liquid accessible parts)
- Available in 4 sizes for dispensing volumes from 0.5mL to 50mL
- Easy for cleaning and maintenance
- The optional variable discharge tube with safety handle allows a fast and precise dispensing
- Vapor pressure max: 500mbar; viscosity max; 500mm2/s; temperature max: 40°C; density max: 2.2g/cm3
- Supplied with most common adapters (S40, GL32, GL38, GL25, GL28)

Specifications

G . N	Volume Graduation		A:	≤±	CV	/≤
Cat. No.	Range mL	mL	%	μL	%	μL
7032100001	0.5-5	0.1	0.5	25	0.2	10
7032100002	1.0-10	0.2	0.5	50	0.2	20
7032100003	2.5-25	0.5	0.5	125	0.2	50
7032100004	5.0-50	1.0	0.5	250	0.2	100

Cat. No. Description

17100553	GL45, Adapter, 45mm
17000069	S40, Adapter, 45/40mm
17400131	GL32, Adapter, 45/32mm
17400132	GL38, Adapter, 45/38mm
17400133	GL25, Adapter, 32/25mm
17400134	GL28, Adapter, 32/28mm
17400037	Reagent Bottle (Brown,1L ,Optional)

Filling tube(m)

Discharge tube(m)

17400021

17100073

SafeVac is designed for laboratory waste recovery and separation of liquid and solid. It can be widely used in cell culture, DNA extraction, microplate waste removal, and any other liquid separation or recovery.

SAFEVAC

Vacuum Aspiration Systems

Features

- Vacuum power with adjustable aspiration rate to achieve up to 15mL/S
- Sensitive level sensor to detect when the bottle is full preventing liquid overflow
- Fully autoclavable all system components that contact liquid
- Easy to disassemble and clean
- Wide range of adapters fit on the handoperator for aspirating liquids from tubes, dishes, microplates, bottles, from single channel to 8-channel tip
- Hydrophobic filter for avoiding air contamination or liquid overflow (this feature is in the catalogue but it is not on website)



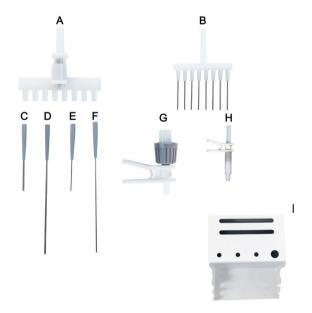


Specifications

Vacuum range	0-600mbar
Dimension[W×D×H]	180×240×450mm
Aspirating speed	1-15mL/S
Autoclave component	tube; waste bottle; operation handle;
Noise Level	≤55dB
Weight	3kg
Input voltage	100-240VAC, 50/60 Hz
Bottle Volume	4L

Sensitive level sensor to prevent liquid overflow

Wide range of adapters fit well with tube, microplate and disk plate for various of tasks, all of which can be fully autoclaved (At 121° C $\,$ 1 bar for 20 minutes. After autoclaving the equipment must be cooled down before use).



Α	8-channel tip detrusion adapter 200ul tip
В	8 channel needle φ1.5mm
С	Single needle φ2.5mm, 40mm
D	Single needle φ2.5mm, 120mm
E	Single needle φ1.5mm, 40mm
F	Single needle φ1.5mm, 120mm
G	tiptip detrusion adapter 200ul tip
Н	tip detrusion adapter 1ml tip
I	SAFEVAC Handle bracket



Self-closing connectors to avoid escape of drops or aerosols from disconnected bottle



Stand for transferring the bottle securely and holding the hand operator

EcoVAC

Economical Vacuum Aspirator

EcoVAC offers a compact & quiet, safe & efficient, and an affordable solution for the aspiration, collection and subsequent disposal of biological liquid waste, suitable for various applications. It is equipped with a 2L liquid bottle as standard, and an optional 1L liquid bottle.

Features

- Small and compact, it is fits on cabinet, bench and ground.
- The handle operation is simple and flexible. It is easy to switch between manual aspiration and continuous aspiration mode, reducing hand fatigue and improving efficiency.
- The hydrophobic filter prevents aerosol and liquid contamination.
- Brushless motor offers low noise and long life.
- Different adapters are available to match a multitude of laboratory supplies.
- All parts that liquid flow can be autoclaved.
- Provides safe and efficient way to collect and contain biological liquid waste.





Easy to switch between manual aspiration and continuous aspiration: two levels adjustable.

Level 1: Continuous aspiration mode.

Level 2: Continuous liquid aspiration rate increased by 30%.



Specifications

Vacuum range
Aspirating speed
Flow rate [liquid]
Bottle
Motor type
Input voltage
Dimension [W $ imes$ D $ imes$ H]
Weight

0-500mbar
15L/min(air)
17mL/s
2L Standard, 1L Optional
Brushless Motor
100-220VAC, 50/60Hz
180×240×340 mm
2.8kg



Wide range of applications

EcoVac is suitable for any application where the single liquid suction volume is less than 2L. The applicability includes use of various common consumables, which can be widely used in the collection and removal of liquids in experiments of microorganisms, molecules, proteins, cells, etc.

- Aspiration of supernatants to collect the bacteria
- Aspiration of eluent
- Removal of supernatants during nucleic acid extraction
- Removal of culture media







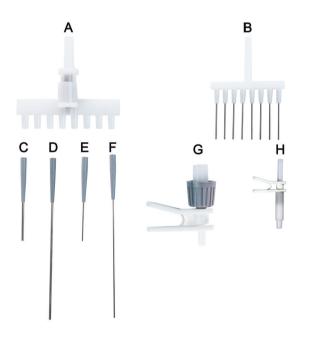


1.5/2ml ep tube

15/50ml centrifuge tube

Petri dish

96-well plate, microtiter plate







J

А	8-channel tip detrusion adapter 200ul tip	В	8 channel needle φ1.5mm
С	Single needle φ2.5mm, 40mm	D	Single needle φ2.5mm, 120mm
E	Single needle φ1.5mm, 40mm	F	Single needle φ1.5mm, 120mm
G	tiptip detrusion adapter 200ul tip	Н	tip detrusion adapter 1ml tip
I	1L bottle adapter	J	1L bottle

Smart VAC

Bench-top Smart Vacuum Aspiration System

The 1L bench-top Smart Vacuum Aspiration System is equipped with rechargeable batteries especially developed for the rapid processing of small volumes of liquid. Wide range of applications can be easily realized by simple operation with one-button control.



- Portable and Space Saver
 - Due to its small size and external vacuum source or power supply, it can be relocated wherever needed, and fits on every bench.
- With rechargeable battery, it can work independently without external power supply Can work continuously for 5h after a full charge.
- Liquid aspiration is fast, the operation process is safe and reliable

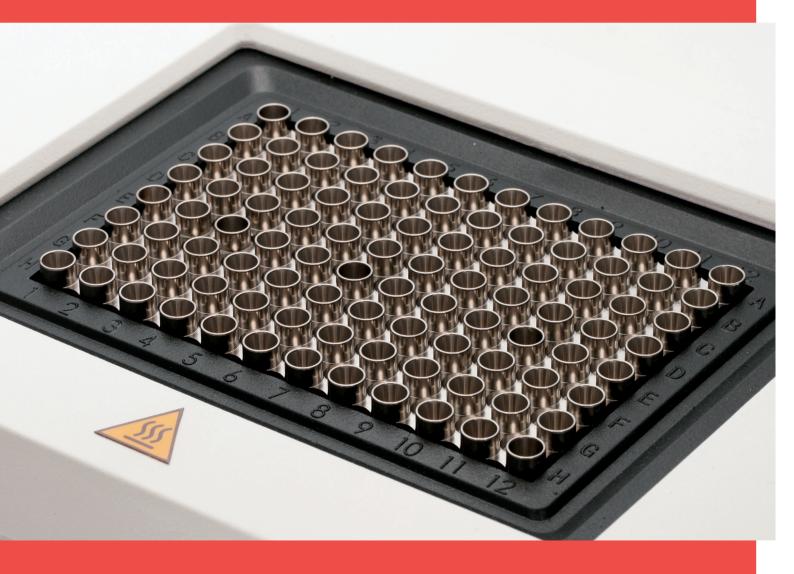
 The aspirating speed is 1.6 L/min; the hydrophobic filter can protect the equipment from contamination.
- Dual functions of aspiration and filtration
 Standard 1L collection bottle (optional 500ml collection bottle) and suction filter bottle can be autoclaved.

Specifications

Maximum vacuum	600mbar
Aspirating speed	1.6 L/min
Bottle volume	Standard 1L, Optional 500ml、suction filter bottle
Adapter	1ml Tip detrusion adapter (Standard),8 channel needle(Optional)
Motor type	Brushless Motor
Power supply	DC 12V,1.0A
Battery capacity	lithium battery 2500mA
Noise Level	53dB







TC1000-G

Thermal Cycler Gradient

TC1000-S

Thermal Cycler Standard

Thermal cycler is essential laboratory instrument in the field of molecular biology research such as sequencing, gene cloning, gene expression, mutagensis applications and applied market like drug discovery, agriculture, food industry, etc.

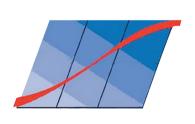


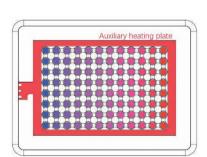


Excellent temperature uniformity



Gradient function







Features

- High performance long life Peltier and independent control circuits for different heating segments implement accurate temperature control
- Auxiliary heating mechanism diminishes the "edge effect" and enhance the temperature uniformity
- Wide touchdown PCR temperature range (-9.9°C~+9.9°C) and Long PCR time range (-9min59s~+9min59s)
- Gradient temperature setting supported, optinizing temperature easily in the single run
- User friendly interface on 7 inch color touch screen enable you edit the program very simple
- The PCR touch screen pen improves the operation experience and reduces the cross contamination risk

More features

- Wide options of consumables common PCR tubes, 8-well PCR strips and 96-well PCR plates can be used
- File customization, multi-file storage
- Power-off protection function, automatic program recovery
- Hot lid auto-off function: If the module temperature is lower than 30°C, the hot lid function will automatically turn off



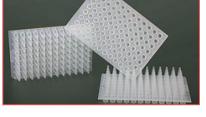
LCD touch panel



Excellent temperature accuracy







Specifications

Sample Capacity
Heating Temperature Range /°C
Lid Temperature Range /°C
Temperature Display Accuracy /°C
Temperature Display Accuracy@55°C
Temperature uniformity@55°C
Max. Heating/Cooling Rate
Gradient Temperature Setting Range /°C
Gradient Range /°C
Adapter block material
Display
Input
User defined file system
Power off protection
Power Supply
Dimension[WxDxH]

Weight

TC1000-G

96X0.2ml PCR tube

96X0.2mL PCR tube, 8X12 PCR plate or 96 well plate
4~105
30~110
±0.1
±0.3
<0.3
5°C/Sec
30~99°C
1~42°C
Aluminum
7" LCD 800x480
Touch panel
Max. 30 segments 99 cycles max. 16 folder and 16 files each folder
Yes
100~120V/200~240V,50/60Hz
280x370x250 mm
11kg

TC1000-S

96X0.2mL PCR tube, 8X12 PCR plate or 96 well plate 4~105 30~110 ± 0.1 ± 0.3 < 0.3 5°C/Sec Aluminum 7" LCD 800x480 Touch panel Max. 30 segments 99 cycle max.16 folder and 16 files each folder 100~120V/200~240V,50/60Hz

280x370x250 mm

11kg

As a necessary choice for quantitative analysis of molecular biology, real-time PCR system has been widely used in various fields such as scientific research, clinical detection and diagnosis, quality and safety testing, and forensic applications.

Real-Time PCR System

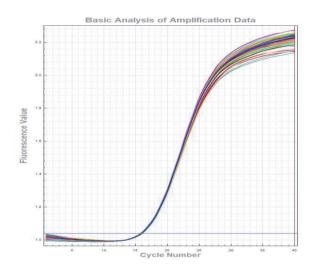
Accurate 96

Features

- Up to 6 fluorescence detection channels allowing multiplex PCR.
- Effectively reduce multi-color crosstalk and edge effect, no ROX correction required to reduce sample and reagent use
- Innovative scanning method and time-resolved signal separation technology to improve detection sensitivity
- Unique edge temperature compensation technology to minimize "edge effect"
- User-friendly software
- Innovative technology with long-lastig LED light provides reliability results

Channel 6	Channel 5	Channel 4
NED/Cy3/TAMRA 543±20/584±20	ROX/Texas Red 571±20/610±20	FAM/SYBR 480±10/518±10
VIC/HEX/TET/JOE 532±10/564±20	CY5/Quasar 670 640±20/692±40	FAM/SYBR 480±10/518±10
Channel 3	Channel 2	Channel 1





Technical Parameters

Temperatur	e control system	Detection system			
Sample capacity	0.1ml PCR tubes×96, 8×12 PCR plate or 96 well plate ×1	Excitation light source	5/6 monochrome high efficiency LEDs		
Reaction volume	10-50 μl	Detection device PMT			
Thermal cycle technology	Peltier	Detection mode	Time-resolved signal separating technology		
Max. Heating/Cooling rate	6.0° C/s	Excitation/detection 455-650nm/510- wavelength range			
Heating temperature range	4 − 100 °C	Fluorescent channels	4/6 channels		
Temperature accuracy	± 0.2°C	Supported dye FAM/SYBR Green,VIC ROX,Cy5,Cy3(only fo			
Temperature uniformity	±0.2°C @60°C , ±0.2°C @95°C	Sensitivity	Single copy gene		
Temperature gradient setting range	30–100°C	Resolution	1.33 folds copy number difference can be distinguished in single-plex qPCR		
Temperature gradient difference setting range	1 − 36°C	Dynamic range	10 orders of magnitude copies		

HB120-S Dry bath

Features

• A wide range of temperature control up to 120°C

• Timer control up to 99+ hours

• Various types of optional blocks are available

Overheating protection

• Lid for protection and heat preservation

Specifications

Functions Temperature range Temperature setting range Temperature control accuracy [at 37°C] Temperature uniformity Max. heating rate Overheating protection Timer Display Adapter block material Voltage, Frequency Power Dimension[WxDxH] Weight

HB120-S
Heating
Room temp120°C
15°C~120°C
± 0.5°C
± 0.5°C
5.5°C/min
140°C
0min-99h59min
LED
aluminum
100-120V/220-240V,50Hz/60Hz
160W
175 x 290 x 85mm
3kg





Cat.No.

Standard: 18900219

Standard: 18900253(1.5mL) 18900220(2mL) Thin: 18900276(1.5mL)

Standard:18900221

Standard:18900546

Standard:18900222

Standard:18900224

Thin:18900279

18900523



Adapter block selection

Overheating protection

Timer

Standard:18900218 Thin:18900274

Thin:18900275

18900277(2mL)

Thin:18900278

Standard:18900223

Thin:18900504



Capacity

0.2mLx54

0.5mLx40







Diameter

Depth

6.4mm

15mm

8.2mm

26.4mm



Block types







17mm

48mm



50mLx8

tube x 45

29.8mm 48mm



0.2mL+0.5mL+1.5/2mL 18+18+18





8 PCR strips and 96 PCR microplate





Two-in-one block, bead bath/water bath



HB60-S

Dry bath

Features

- Excellent temperature control accuracy and uniformity to protect samples and ensure precision result of tests
- Timer function and continuous function are available to meet different applications
- Fast heating rate to improve the efficient workflow
- Especially suitable for sample preparation of semiautomatic biochemistry analyzer
- 5ml and 10ml mixed heating block
- Overheating protection





C (1)

Overheating protection



Timer



LED display

Specifications

Heating temperature range

Temperature accuracy
Temperature uniformity
Max. heating rate
Safety temperature
Time setting range
Operation type
Capacity
Display
Voltage [VAC]
Frequency [Hz]
Power [W]

Dimensions[W \times D \times H]

Weight[kg]

HB60-S

5 gears: 25°C, 30°C, 37°C, 45°C, 60°C ± 0.5°C ± 0.3°C 5.5°C /min

> 80 °C -----0min -99h59min

Continuous/ timer operation
5ml×30+10ml×8pcs

LED 200~240

50/60 160 175×290×85mm

2.5



Block types

Capacity

Diameter Depth



5/10mLx38

Ф13m/15.25mm 33mm



HB105-S1/HB105-S2 HB150-S1/HB150-S2 Dry bath

Features

- A wide range of temperature control up to 105°C/150°C.
- Overheating protection.
- Sound reminder function.
- External temperature sensor PT1000
- Block equipped with a lid for heat preservation and prevent pollution.

• Knob adjustment is easy to operate.

Cat.No.	Block types	Capacity	Diameter Depth
18900459		0.2mL×30	6.4×15mm
18900410		0.5mL×20	8.2×26.4mm
18900461		1.5mL×20	11×34.7mm
18900462		2mL×20	11×34.7mm
18900412		5/15mL×12	17×48mm
18900413	33	50mL×4	29.8×48mm
18900522		bead bath	one block, /water bath t to S1
18900523	4	bead bath	one block, /water bath t to S2





18900520



Aluminum beads



Cuadifications				110400.00
Specifications	HB105-S1	HB105-S2	HB150-S1	HB150-S2
Temperature range[°C]	Room temp+5~105	Room temp+5~105	Room temp+5~150	Room temp+5~150
Temperature setting range [°C]	25~105	25~105	25~150	25~150
Temperature control accuracy[°C]	25-90: ±0.3 90-105: ±0.6	25-90: ±0.3 90-105: ±0.6	25-90: ±0.3 90-150: ±0.6	25-90: ±0.3 90-150: ±0.6
Temperature uniformity@37°C [°C]	±0.2	±0.2	±0.2	±0.2
Power [w]	100	200	100	200
Time setting range	0~99h59min	0~99h59min	0~99h59min	0~99h59min
External sensor	Yes	Yes	Yes	Yes
Display	LED	LED	LED	LED
Power supply	110/220V, 50/60Hz	110/220V, 50/60Hz	110/220V, 50/60Hz	110/220V, 50/60Hz
External dimension[mm]	290x210x120	290x210x120	290x210x120	290x210x120
Weight[kg]	3.2	3.2	3.2	3.2
Operating temperature[°C]	+10~40	+10~40	+10~40	+10~40
Operating humidity [% RH]	<80	<80	<80	<80

Mini Dry bath is portable, compact and convenient. It is useful for rapid and uniform heating of biological samples, in applications like preservation and denaturation of nucleic acids and proteins, etc.

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



Mini HCL100 Mini HC100 Mini H100

Dry Bath

Features

- Light in weight
- LCD display of both temperature and time.
- Rapid calibration support
- Overheating protection
- Optional blocks with different capacities are available
- Safe and stable
- USB interface to save the data
- Mini HCL100 with hot lid provided to preserve the generated heat

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Temperature setting range[°C]
Temperature range [°C]
Temperature control accuracy[°C]
Temperature display accuracy[°C]
Minimum time taken for heating(25°C-100°C)
Minimum time for cooling (20°C-0°C)
Max. Heating Rate
Max. Cooling Rate
Time setting range
Display
No. of programs in memory
Rapid calibration
USB interface
Error code reminder
External dimension [mm]
Overall weight [kg]
Power supply
Power[w]
Operating temperature[°C]
Operating humidity [% RH]

0-100 Room temperature-23~100 ± 0.5 0.1 ≤20min ≤25min 8°C /min 3°C /min 0-999min/0-999sec LCD 9(2steps for each) Support Support Support 110x162x140 ≤1 DC12V,100-240V, 50/60Hz

60 +10-40 ≤80

Mini HCL100

0-100
Room temperature-23~100
±0.5
0.1
≤20min
≤25min
8°C /min
3°C /min
0-999min/0-999sec
LCD
9 (2steps for each)
Support
Support
Support
110x162x140
≤1
DC12V,100-240V, 50/60Hz
60
+10-40
≤80

Mini HC100

25-100
Room temperature+5~100
±0.5
0.1
≤20min
/
6.5°C /min
/
0-999min/0-999sec
LCD
9(2steps for each)
Support
Support
Support
110x162x140
≤1
DC12V,100-240V, 50/60Hz
60
+10-40

≤80

Mini H100



Precise temperature control for

 Compatible with various tubes
 Quick interchange of blocks with magnet adhesion technology

Block equipped with a lid for heat

HC110-Pro
Thermo control
with cooling

heating and cooling
• Flexible adapter selection

• Programmable

without any tools

• Three-point temperature

preservation

calibration

Features

Cat.No.	Blocks	Speed	Capacity	Diameter x Depth
18900401		1500rpm	24x0.5mL	8.1x26mm
18900402		1500rpm	24x1.5mL	10.9x30.8mm
18900403		1500rpm	24x2mL	10.9x30.8mm
18900404	(· · · · · · · · · · · · · · · · · · ·	1500rpm	8x5mL (round bottom)	13.6x42mm
18900405	2222	1400rpm	8x5mL (cone bottom)	17x51.5mm
18900406	7 7 7 7 7 . 7 7 7 7 .	800rpm	8x15mL	16.9x80mm
18900407		600rpm	4x50mL	29.6x80mm
18900420		1500rpm	0.2mLx96 PCR plate	-

1500rpm



Excellent temperature accuracy



Programmable



Block self recognition



Specifications

18900423

Functions

Temperature range

Temperature setting range specifications
Temperature control accuracy[@20–45°C]
Temperature uniformity[@20–45°C]

Max. heating rate

Max. heating rate

Max. cooling rate

Time setting range

Program

Overheating protection

Display

Adapter block material

Voltage, Frequency

Power

Dimension[WxDxH]

(without the heating block)

Weight

HC110-Pro

microplate

Heating & cooling

Heating: room temp. - 110°C Cooling: room temp. - below room temp. 25°C

-5~110°C ± 0.5°C ± 0.5°C

5.5°C/min

2.5°C/min (100°C-room temp.) 0.5°C/min (below room temp.)

0~99h30min
9
150°C
TFT
aluminum
100–240V,50/60Hz
200W
200×235×120mm
7.3kg

veigin

HCM100-Pro

Thermo Mix

HM100-Pro

Thermo Mix with heating

H100-Pro

Thermo control

Features

- Excellent mixing result
- Stable and wide range of speed adjustment
- Precise temperature control for heating and cooling
- Flexible adapter selection
- Programmable
- Compatible with various tubes
- Quick interchange of blocks with magnet adhesion technology without any tools
- Block equipped with a lid for heat preservation
- Three-point temperature calibration

Blocks self recognition



Thermo Mix series allow for precise and efficient heating cooling and mixing, as well as excellent temperature accuracy and uniformity, compatible for a wide range of applications, such as gene synthesis, gene purification, gene and protein denaturation, enzymatic reaction, bacterial growth, etc.





Specifications

Functions

Temperature range

Temperature setting range specifications Temperature control accuracy[@ 20-45°C] Temperature uniformity[@ 20-45°C]

Max. heating rate

Max. cooling rate

Mixing frequency Mixing orbit Time setting range Program Overheating protection Display

Adapter block material Voltage, Frequency Power

Dimension[W×D×H] (without the heating block)

Weight

HCM100-Pro

Heating, cooling & mixing Heating: room temp. - 100°C Cooling: room temp. below room temp. 15°C 0.1~100°C

± 0.5°C

± 0.5°C

5.5°C/min

5°C /min(100°C-room temp.)

0.5°C/min(below room temp.) 200-1500rpm 3mm 0~99h30min 9 150°C TFT aluminum 100-240V,50/60Hz 200W 200×235×120mm

7.3kg

HM100-Pro

Heating & mixing Heating: room temp. - 100

> 15~100°C ± 0.5°C

> > ± 0.5°C

5.5°C/min

H100-Pro

Heating

Heating: room temp+5 °C. -100°C

15~100 °C

 ± 0.5 °C

± 0.5°C

5.5°C/min

200-1500rpm 3mm 0~99h30min 0~99h30min 9 9 150°C 150°C TFT TFT aluminum aluminum 100-240V,50/60Hz 100-240V,50/60Hz 200W 200W

200×235×120mm 200×235×120mm

> 7.3kg 7.3kg





RE200-Pro

20L Industrial Digital Rotary Evaporator

Large Scale LCD Digital evaporator is mainly used for continuous distillation of a large number of volatile solvents under reduced pressure. It offers an excellent distilling solution in a wide range of applications.

Features

- Large LCD digital display with heating temperature, rotation speed, clockwise and Anti-clockwise, time information
- One-click automatic motor lifting (stroke 180mm), smooth and silent
- Water/oil heating bath with wide temperature range from room temp.to 180°C
- Speed range from 10 to 150rpm, and interval operation in clockwise and anticlockwise directions for drying process
- Three-layer high-efficiency condensing tube with large condensation area and strong evaporation capacity, ensuring efficient sample recovery
- Patented connector for evaporating flask easy&quick installation
- PTFE double sealing ring with excellent sealing performance
- A switching valve for continuous collection without compromising the system vacuum and solvent distillation









Overheating protection



Chemical resistance



Double-layer high-efficiency condener

large condensation area and strong evaporation capacity, ensuring efficient sample recovery.



Switching valve design

A switching valve for continuous collection without compromising the system vaccum and solvent distillation.



Heating bath

- Water&oil bath;
- Enhanced lifetime through exclusive use of corrosion-free stainless-steel;
- The heating bath adopts special heat insulation structure design, so that the surface temperature is far lower than the temperature in the bath, to avoid personnel burns.

Specifications		RE200-Pro		
	Temperature range	Room temp. ~180°C (both water and oil)		
	Control Accuracy	Water: ±1°C Oil: ±3°C		
performance	Rotation Speed	10~150rpm		
	Evaporation capacity	Max.4.0L/h (water vapor volume)		
	Ultimate vacuum	Less 2.6hpa		
	Temperature control method	Micro processer PID control		
	Display	LCD (temperature/speed/clockwise and Anti-clockwise/time)		
function	Stroke Displacement	Automatic 180mm		
	Safety features	Motor over-current protection, Residual Current Device, lifting overload protection, Boil-dry protection, over-temperature protection		
	Sample flask	Round flask 20L		
constitute	Receiving flask	Round flask 10L with drain valve		
Constitute	Condenser	Two-section vertical triple serpentine condenser, cooling surface 1.2m²		
	Heating bath size	φ450×240mm		
Specification	Takeover caliber	Cooling/suction nozzle outer diameter 16mm, vacuum pump nozzle outer diameter 16mm		
Dimensio	on[D×W×H]	1160mm×600mm×1860mm		
Powe	er supply	220V/4600W/50/60Hz		

RE100-Pro Digital Rotary Evaporator



LCD Digital Rotary Evaporator is an essential instrument in chemical laboratories for the efficient and gentle removal of solvents from samples by evaporation. It offers an excellent distilling solution in a wide range of applications.

Features

- Digital display of both rotation speed and heating temperature allows for optimal control of all distillation processes
- Automatic motor lift releases the evaporating flask to a safe position in case of power failure
- 5L heating bath with wide temperature range from room temp. to 180°C, Water/oil heating mode can be changed only through a switch
- Overheating protection temperature at 220°C
- Boil-dry protection, automatically power off if heating without water/oil in the heating bath
- Speed range from 20 to 280rpm, and interval operation in clockwise and anticlockwise directions for drying process
- Patented condenser (cooling surface 1700cm²) with excellent cooling effect
- Ejection mechanism ensures easy removal of evaporating flask
- Patented double spring sealing ring made of PTFE provides an excellent sealing performance
- Remote function provides PC control and data transmission
- Optional glassware with explosion proof film available.



Large LCD display



USB connector



Chemical resistance



Overheating protection



Compatible with all range of glassware

Specifications

Motor Type				
Speed Range				
Display				
Clockwise and Anti-clockwise				
Heating Temperature Range				
Control Accuracy				
Heating Power				
Stroke Displacement				
Timer				
Time Setting Range				
Dimension[D×W×H]				
Weight				
Permissible Ambient Temperature				
Permissible Relative Humidity				
Protection Class				
USB Interface Voltage/Frequency				

Power

RE100-Pro

RE100-Pro
Brushless DC motor
20-280rpm
LCD(speed, temperature, time)
Yes
Room temp. to 180°C
water: ±1°C oil: ±3°C
1300W
automatic 150mm
Yes
1-999min
465×457×583mm
15kg
5-40°C
80%RH
IP20
Yes
100-120/200-240V 50/60 Hz
1400 W

LED Digital Rotary Evaporator is a basic chemical laboratory instrument suitable for evaporation, distillation and separation of chemicals. It can be used as a multifunctional system in combination with vacuum pump, vacuum controller and circulating refrigerators to provide excellent distillation solutions in many laboratory applications.

Features

- 5L heating bath with a wide temperature range (room temp.to180°C). Independent temperature control makes it can be used separately. Water/oil heating mode can be changed only through a switch
- Manual lift combined with auxiliary lift for precise positioning of the glassware
- PID control ensures high temperature accuracy at ±1°C (water)
- Overheating protection temperature at 220°C
- Boil-dry protection, automatically power off if heating without water/oil in the heating bath
- Speed range from 20 to 200rpm, timing interval operation in clockwise and anticlockwise directions for drying process
- Patented condenser (cooling surface 1200/1700cm² for selection), double helix condensing tube + center circular arc design to speed up the flow rate of liquid with excellent cooling effect
- Ejection mechanism ensures easy exchange of evaporating flask
- Adjustable immersion angle
- Patented double spring sealing ring which is made of PTFE provides an excellent sealing performance
- Remote function provides PC control and data transmission
- Compatible with the entire range of RE100-Pro glassware
- Optional glassware with explosion proof film available
- OHot warning above 50°C



USB connector



Chemical resistance



Overheating protection



Compatible with all range of glassware

RE100-S LED Digital Rotary Evaporator



Specifications

Motor Type
Speed Range
Display
Clockwise and Anti-clockwise
Heating Temperature Range
Control Accuracy
Heating Power
Stroke Displacement
Interval Time Setting Range
Dimension [D \times W \times H]
Weight
Permissible Ambient Temperature
Permissible Relative Humidity
Protection Class

USB Interface Voltage/Frequency

Power

RE100-S

Brushless DC motor				
20-200rpm				
LED (speed, temperature, time)				
Yes				
Room temp. to 180°C				
water: ±1°C oil: ±3°C				
1200 W				
Manual 110mm + auxiliary100mm				
1~999s				
Main Unit: 440×320×450mm Heating Bath: 300x300x240mm				
Heating Bath: 300x300x240mm				
Heating Bath: 300x300x240mm Main Unit: 7kg Heating Bath: 3kg				
Heating Bath: 300x300x240mm Main Unit: 7kg Heating Bath: 3kg 5~40°C				
Heating Bath: 300x300x240mm Main Unit: 7kg Heating Bath: 3kg 5~40°C 80%RH				
Heating Bath: 300x300x240mm Main Unit: 7kg Heating Bath: 3kg 5~40°C 80%RH IP20				

Condenser









Vertical	ertical					
Cat. No.	Glassware type	Volume	Cooling surface			
18900165	Evaporating flask(NS29/32) Receiving flask(KS35/20)	1000mL	1700cm ²			
18900173	Evaporating flask(NS24/40) Receiving flask(KS35/20)	1000mL	1700cm ²			
18900166	(COATED)Evaporatingflask(NS29/32) Receiving flask (KS35/20)	1000mL	1700cm²			
18900174	(COATED)Evaporatingflask(NS24/40) Receiving flask (KS35/20)	1000mL	1700cm²			
18202410	evaporating flask (NS 29/32) Receiving flask (KS 35/20)	1000mL	1200cm ²			

Diagonal			
Cat. No.	Glassware type	Volume	Cooling surface
18900163	Evaporating flask(NS29/32)Receiving flask(KS35/20)	1000mL	1700cm ²
18900171	Evaporating flask(NS24/40)Receiving flask(KS35/20)	1000mL	1700cm²
18900164	(COATED)Evaporatingflask(NS29/32) Receiving flask (KS 35/20)	1000mL	1700cm²
18900172	(COATED)Evaporatingflask(NS24/40) Receiving flask (KS35/20)	1000mL	1700cm²

Heating Bat		
Cat. No.	Description	Volume
18900201	Rotary Evaporator, 220V	5L
18900202	Rotary Evaporator, 110V	5L
6033100210	LED heating bath, 100V-120/200-240V,50/60HZ	5L

Heating Bath Lid

Cat. No.

Description

18900547

heating Bath lid for RE100-S, improve distillation efficency & ensure personnal safety from liquid splash







Glassware





Evaporating flask					
Cat. No.	Volume	Size			
18300116	50mL	NS 29/32			
18300117	100mL	NS 29/32			
18300118	250mL	NS 29/32			
18300119	500mL	NS 29/32			
18300120	1000mL	NS 29/32			
18300121	2000mL	NS 29/32			
18300655	50mL	NS24/40			
18300201	100mL	NS 24/40			
18300202	250mL	NS 24/40			
18300203	500mL	NS 24/40			
18300204	1000m	NS 24/40			
18300205	2000mL	NS 24/40			

Receiving flask					
Cat. No.	Volume	Size			
18300107	100ml	KS 35/20			
18300108	250ml	KS 35/20			
18300109	500ml	KS 35/20			
18300110	1000ml	KS 35/20			
18300111	2000ml	KS 35/20			





Distilling	snider	with 5	flacks	(without f	ask)
	Shinei	WILLI	Habri	(without i	ask)

Cat. No.	Volume	Size
18900194	/	NS 29/32, NS24/29
18900177	/	NS 29/42 NS24/40







Cat. No.	Volume	Size
18100998	/	NS 29/32
18300206	/	NS 24/40

Connector		
Cat. No.	Volume	Size
18300094	/	NS 29/32, NS24/29
18300095	/	NS 29/32, NS19/26
18300096	/	NS 29/32, NS14/23
18300199	/	NS24/40, NS19/22
18300200	/	NS 24/40, NS14/20
18900193	/	NS 24/40, NS 29/42

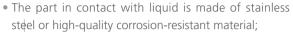
The low temperature circulator continuously offers chilled coolant to rotary evaporator and other instrument which working in a low temperature condition. It reduces the consumption of tap water and improve the cooling efficiency. With a compact structure and environment-friendly design, it is an ideal choice for academic, analytical and industrial laboratories.

CCP5-15 CCP5-20

Low Temperature Circulator

Features & Advantages

- PID temperature control with built-in PT1000 sensor provides high accuracy of temperature control
- LED display shows the set or actual temperature clearly
- Short circuit protection, over-current/overload protection, and delayed start protection
- Integrated design of drain outlet and coolant circulation outlet for convenient operation
- German-made pump that is environment-friendly, quiet and durable
- The compressor employs state-of-the-art R290 environmentfriendly refrigerant to protect environment and human health
- CCP5-20 support connecting 2 units evaporators with excellent cooling performance (need order another hose 18203125 under such application)





• User-friendly operating panel configuration;



• A large-volume open reservoir allows easy filling and supports cold trap experiment;



• The caster design for free movement and fixing.







Specifications	CCP5-15	CCP5-20	
Range of temperature control	-15°C-Room temperature	-20°C-Room temperature	
Temperature adjustment accuracy	0.1°C	0.1°C	
Temperature control accuracy	\pm 1.0°C (-20°C ~0°C typical value) \pm 0.5°C (0°C ~20°C typical value)	\pm 1.0°C (-20°C \sim 0°C typical value) \pm 0.5°C (0°C \sim 20°C typical value)	
Reservoir capacity	5L	5L	
Range of temperature adjustment	-30°C~30°C	-30°C~30°C	
Temperature display	LED	LED	
Type of temperature sensor	PT1000	PT1000	
Compressor refrigerant	R290	R290	
Circulating pump throughput	12L/min	12L/min	
Pump pressure	0.6 bar	0.6 bar	
Circulating pump head	6m	6m	
In-out cycle interface	12mm pagoda-type interface	12mm pagoda-type interface	
RS232 interface	Yes	Yes	
Machine power	350W	700W	
Maximum overall dimensions	370 x 420 x 730(mm) with caster	440 x 460 x 730(mm) with caster	
Weight	46kg	50kg	
Power supply	220V 50Hz/60Hz	220V 50Hz/60Hz, 110V 50Hz/60Hz	
Operating environment	10~40°C, RH≤80%	10~40°C, RH≤80%	

	CCP5-15	°C	-15	-10	-6.7	-5	0	5	7.2
	CCP5-15	W	381	460	520	553	661	786	847
CCP5-20	°C	-20	-13	-10	0	10	14	20	
	W	607	668	694	785	883	924	989	

Additional

MZ 1C Chemistry-design diaphragm pump

Specification

Number of heads / stages:2 / 2 Max. pumping speed:0.75 m³/h Ultimate vacuum (abs.):12mbar Nozzle Size:DN 8-10 mm Rated motor power:0.06kW Rated motor speed:1500/1800 rpm Noise level:45dB ATEX:II 3G IIC T3 X Internal Atm. only

Cat. No.	voltage
18900231	Cn plug, 100V-120V/200-230V 50Hz/60Hz
 18900232	Euro plug,100V-120V/200-230V 50Hz/60Hz
 18900233	USA plug,100V-120V/200-230V 50Hz/60Hz
18900234	UK plug,100V-120V/200-230V 50Hz/60Hz



Seals and other accessories

Jeans and	other accessories	
Cat. No.	Description	
18202027	PTFE vacuum seal	
18900362	Ultra resistant FFKM seal for applications with highly abrasive solutions	
18900190	Evaporation flask clip(red) CS002440	侵

18900188 EV

Evaporation flask clip(green) CS002942



C410 Chemistry-design diaphragm pump

Specification

Maximum Vacuum:13mbar Work Mode: Continuous Operation Nozzle Size:8mm, Power: 95W Motor speed:1450rpm Flow Rate:

mbar | 1000 | 880 | 750 | 600 | 480 | 280 | L/min | 25 | 22 | 20 | 12 | 7.5 | 5



Vacuum regulator/moisture trap

Cat. No. Description

In use of control small volume, installed in a vacuum between DVR480 and vacuum system.
Material: PVDF, PTFE, ABS, Borosilicate Glass, Stainless Steel



The vacuum controller serves as a device for labs to display, adjust and control the degree of vacuum in vacuum systems. It generally constitutes the vacuum control system of rotary evaporator along with vacuum pump, which enables repeatable distillation experiment and recovery of many kinds of solvents in an efficient and automatic manner.



VC100

Vacuum Controller

Features

- A wide range of measurement and control, 1-1,000mbar
- Two control modes of single-point control and programmed control available for choice as needed
- Can store up to 5 programs, each containing up to 5 segments of programming control
- A large-size TFT touch screen display control allows easy operation
- All parts in contact with vapor or liquid are made of PTFE, ceramics or other high-performance materials and can effectively resist corrosion caused by organic solvents, water, acid and alkali
- A built-in vent valve can feed inert gas into system equipment
- One-stroke decompression allows easy installation and dismantling of vacuum system
- Can be connected with pump power control for temporary shutdown of pump power supply after reaching stable degree of vacuum for energy conservation and environmental protection. Can also be operated in the normally open statue of pump

Specifications	VC100		
Vacuum setting range	1-1000mbar		
Vacuum measurement range	1-1000mbar		
Control operation mode	Single-point control mode, Programmed control mode		
Control program	Can store up to 5 programs, each containing 5-step control (capable to set the degree of vacuum and time)		
Setting method	Touch screen setting		
Display	5'' TFT		
Sensor overload pressure	1,500mbar		
Connector diameter	8mm		
Materials in contact with vapor	PTFE, PP, silicone and ceramics		
Power	600W		
Compatible conditions with vacuum pump	power of 50Hz vacuum pump ≤400W power of 60Hz vacuum pump ≤500W		
Overall dimensionsW \times D \times H	189×207×193mm		
Weight	4.0kg		
Power supply	110—240V,50Hz/60Hz		
Operating environment	10°C~40°C, ≤80%RH		



Mixing & Heating



550°C series magnetic stirrer is developed for demanding applications. It is widely used in chemical synthesis, physical and chemical analysis, bio-pharmaceuticals etc. Combining with glass ceramic work plate, brushless DC motor and external temperature sensor, the work plate temperature is optimized up to 550°C.



MS7-H550-Pro

LCD Digital Magnetic Hotplate Stirrer

Features

- LCD display for precise monitoring of speed and temperature
- Built-in PID controller ensures safe heating of the medium with overheating protection
- Max. heating plate temperature 550°C
- Glass ceramic work plate provides excellent chemical resistant performance and most efficient heat transfer
- External temperature control is possible by connecting the temperature sensor(PT1000) with an accuracy at ±0.2°C
- Digital speed controlling, max. speed at 1500rpm
- Outstanding brushless DC motor enables more stirring power
- Two rotating knobs enable easy adjustment of speed and temperature
- The "HOT" warning will flash when the work plate temperature is above 50°C even when the hotplate is turned off
- Remote function provides PC control and data transmission

MS7-H550-S

LED Magnetic Hotplate Stirrer

Features

- LED display for precise monitoring of temperature
- A wide speed range of 0 to 1500rpm
- Max. Heating plate temperature 550°C
- External temperature control is possible by connecting the temperature sensor(PT1000) with accuracy at ±0.2°C
- The "HOT" warning will flash if the work plate temperature is above 50°C







Overheating protection



External sensor



Wide range of accessories



Chemical resistance





Specifications

Work plate Dimension [W x D]
Work plate material
Motor type
Stirring positions
Max. stirring quantity, [H ₂ O]
Max. magnetic bar[length]
Speed range
Speed display
Temperature display
Heating temperature range
Temperature control accuracy
Overheating protection
Temperature display accuracy
External temperature sensor
"Hot" warning
Data connector
Protection class
Motor rating input
Motor rating output
Power
Heating output
Voltage
Dimension [WxDxH]
Weight
Permissible ambient temperature and humidity

MS7	-H550)-Pro
		, , , ,

11137 11330 113
184x184mm (7 inch)
Glass ceramic
Brushless DC motor
1
20L
80mm
100-1500rpm
resolution ±1rpm
LCD
LCD
Room Temp550°C, increment 1°C
±1°C(<100°C) ±1%(>100°C)
580°C
±0.1°C
PT1000 (accuracy ±0.2)
50°C
RS232
IP21
18W
10W
1050W
1000W
100-120/200-240V 50/60Hz
215x360x112mm
5.3kg
5-40°C, 80%RH

MS7-H550-S
184x184mm (7 inch)
Glass ceramic
Shaded pole motor
1
10L
80mm
0-1500rpm
Scale
LED
Room temp550°C, increment 5°C
±10°C
580°C
±1°C
PT1000 (accuracy ±0.2)
50°C
-
IP21
15W
1.5W
1030W
1000W
100-120/200-240V 50/60Hz
215x360x112mm
4.5kg
5-40°C, 80%RH

340°C magnetic hotplate stirrers include all leading safety standards and features for superior ease of use and are cost-effective. They are widely used in chemical synthesis, physical and chemical analysis, bio-pharmaceuticals, etc.

MS-H-Pro^T

LCD Digital Magnetic Hotplate Stirrer with Timer

MS-H-Pro⁺

LCD Digital Magnetic Hotplate Stirrer

Features

- Brushless DC motor is maintenance free and explosion-proof
- Digital temperature control with max. temperature at 340°C
- Digital speed control with max. speed up to 1500rpm
- Max. stirring quantity of H₂O at 20L
- Safety circuits provide overheating protection
- The "HOT" warning will flash if the plate temperature is above 50°C even when the hotplate is turned off
- Wide range timer function from 1min to 99h59min(MS-H-ProT only)
- High-resolution LCD display shows actual temperatures and speed (MS-H-ProT displays the time also)
- External temperature control is possible by connecting the temperature sensor(PT 1000) with accuracy at ±0.2°C
- Stainless steel work plate with ceramic coating provides good chemical-resistant performance
- Remote function provides PC control and data transmission
- A wide variety of accessories are available



Summon



External sensor



Brushless DC motor



Wide range of accessories



RS232 connector



Chemical resistance

MS-H-S

Magnetic Hotplate Stirrer

Features

- Maintenance free brushless DC motor
- Max. temperature to 340°C
- Stirring speed up to 1500 rpm
- Stainless steel work plate with ceramic coating provides good chemical-resistant performance
- Safety circuits provide overheating protection
- A wide variety of accessories are available











Specifications

Work plate dimension
Work plate material
Motor type
Stirring positions
Max. stirring quantity[H₂O]
Max. magnetic bar[length]

Speed range

Speed display Temperature display

Heating temperature range

Temperature control accuracy
Over temperature protection
Temperature display accuracy
External temperature sensor

External temperature sensor

"Hot" warning
Timer function
Data connector
Protection class
Motor rating input
Motor rating output
Power
Heating output
Voltage

Dimension[WxDxH]
Weight
Permissible ambient
temperature and humidity

MS-H-PRO⁺

φ135mm(5 inch)
stainless steel cover with ceramic
Brushless DC motor

1
20L

80mm 100-1500rpm resolution±1rpm

resolution±1rpr LCD LCD

Room temp.-340°C, increment 1°C ±1°C(<100°C) ±1%(>100°C) 420°C

±0.1°C

PT1000 (accuracy ±0.2)

50°C

RS232

IP42

18W

10W

550W

500W

100-120/200-240V 50/60Hz

160×280×85mm 2.8kg

5-40°C, 80%RH

MS-H-PRO^T

φ135mm(5 inch)
stainless steel cover with ceramic
Brushless DC motor

20L 80mm

100-1500rpm resolution±1rpm

> LCD LCD

Room temp.-340°C increment 1°C ±1°C(<100°C) ±1%(>100°C)

> 420°C ±0.1°C

PT1000 (accuracy ±0.2) 50°C

> 1min to 99h 59min RS232 IP42

> > 18W

10W 550W 500W

100-120/200-240V 50/60Hz

2.8kg

5-40°C, 80%RH

MS-H-S

φ135mm(5 inch)
stainless steel cover with ceramic
Brushless DC motor

1 20L 80mm 0-1500rpm resolution±1rpm

Scale Scale

Room temp.-340°C

420°C ±0.5°C ---

-IP42 18W 10W 530W 500W

100-120/200-240V 50/60Hz 160×280×85mm

2.8kg

5-40°C, 80%RH

New heating magnetic stirrer with aluminum work plate, is capable of rapid heating and stable heating as well as precise temperature control. Almost all leading safety standards and features are included for superior and are cost-effective. They are widely used in chemical synthesis, physical and chemical analysis, bio-pharmaceuticals, etc.

MS-H-Pro^A

LCD Digital Magnetic Hotplate Stirrer

Features

- Digital control with max. temperature at 340°C, max. speed up to 1500rpm
- Aluminum alloy work plate with flat plane provides fast heating perfermance, and strong compatibility with various heating containers and heating blocks
- High-resolution LCD display shows actual temperatures and speed
- PID controller ensures a precise and steady heating process
- External temperature control is possible by connecting the temperature sensor(PT 1000) with accuracy at ±0.2°C
- Brushless DC motor enables more powerful speed control.
- Three heating modes for selected (fast heating, standard heating and stable heating)
- Remote control function through RS232 interface provides PC control and data transmission



Security

- International safety certification: obtained the CE, CTÜVus, FCC and other product safety certifications issued by TUV Rheinland
- Safety circuits provide overheating protection
- The "HOT" warning will flash if the plate temperature is above 50°C even when the hotplate is turned off
- Brushless DC motor is maintenance free and explosion-proof
- Fully enclosed aluminum alloy housing with good heat dissipation performance and reliable protection capability



Specifications

Work plate dimension Work plate material Motor type

Heating temperature range

Temperature display accuracy

Speed range

Max. stirring quantity[H₂O]
Speed display

Temperature display

Max. magnetic bar[length]

Temperature control accuracy

External temperature sensor

Over temperature protection

"Hot" warning

Data connector

Protection class

Voltage

Heating power

Power

Motor rating input

Motor rating output

Dimension[WxDxH]

Weight

Permissible ambient temperature and humidity

MS-H-Pro^A

φ135mm(5inch)

Aluminum

Brushless DC motor

Room temp.-340°C,
increment 1°C

±0.1°C

100-1500rpm resolution±1rpm

20L

LCD

LCD 80mm

±1°C(<100°C) ±1%(>100°C)

PT1000 (accuracy ±0.2°C)

420°C 50°C

RS232

IP21

100~120/200-240V 50/60Hz

600w 650w

> 18w 10w

280×160×100mm

2.8kg

5-40°C; 80%RH

MS-H280-Pro is a perfect device for handling small volume task on daily application, as a low temperature magnetic stirrer with max. temperature at 280°C.

MS-H280-Pro

LED Digital Magnetic Hotplate Stirrer

Features

- Digital temperature control with max. temperature up to 280°C
- Digital speed control with max. speed up to 1500rpm
- Stainless steel work plate with ceramic coating provides good chemical resistant performance
- External temperature control is possible by connecting the temperature sensor(PT1000) with an accuracy at ±0.5°C
- LED display shows temperature and speed
- The "HOT" warning will flash when the work plate temperature is above 50°C even if the hotplate is turned off



External sensor



Wide range of accessories



Chemical resistance



LED display



Specifications

Work plate Dimension
Work plate material
Motor type
Stirring positions
Max. stirring quantity
Max. magnetic bar[length]
Speed range
Speed display
Temperature display
Speed display resolution
Heating temperature range
Control accuracy of work plate
Overheating protection
Temperature display accuracy
External temperature sensor
"Hot" warning
Protection class
Motor rating input
Motor rating output
Power
Heating output
Voltage
Dimension[WxDxH]
Weight
Permissible ambient temperature and humidity



HP380-Pro

LCD Digital Hotplate

MS6-Pro

LCD Digital Magnetic Stirrer

MS-H380-Pro

LCD Digital Magnetic Hotplate Stirrer

380°C magnetic hotplate stirrers include all leading safety standards and is chemically-resistant with white ceramic work plate. They can be used in physical, chemical, analytical and biological laboratories.

Features

- Max. heating temperature is 380°C
- High resolution LCD displays actual temperature and speed.
- Brushless DC motor is maintenance free
- Aluminum cover with ceramic work plate, allows for immediate heat transfer
- External temperature control is possible with temperature sensor PT1000
- Digital temperature control with max. temperature at 380°C
- Digital speed control with max. speed up to 1500rpm
- Max. stirring quantity of H₂O at 5L

Specifications	MS-H380 Pro	MS6-Pro	HP380-Pro	
Work plate Dimension	140x140mm	140x140mm	140x140mm	
Work plate material	Aluminum cover with ceramic coating	Aluminum cover with ceramic coating	Aluminum cover with ceramic coating	
Motor type	Brushless DC motor	Brushless DC motor	-	
Stirring positions	1	1	-	
Max. stirring quantity[H ₂ O]	5L	5L	-	
Max. magnetic bar[length]	50mm	40mm	-	
Speed range	200-1500rpm	200-1500rpm	-	
Speed display	LCD	LCD	-	
Temperature display	LCD	-	LCD	
Heating temperature range	Room temp.+5°C - 380°C	-	Room temp.+5°C - 380°C	
Over heat Protection	420°C	-	420°C	
Temperature display accuracy	±0.1°C	_	±0.1°C	
External temperature sensor	PT1000 (accuracy ±0.5°C)	-	PT1000 (accuracy ±0.5°C)	
Control accuracy of sensor	±20rpm	±20rpm	=	
Protection class	IP21	IP21	IP21	
Motor rating input	2.4W	2.4W	-	
Motor rating output	1.8W	1.8W	-	
Power	510W	10W	510W	
Heating output	500W	-	500W	
Voltage	100-120/200-240V, 50/60Hz	100-240V, 50-60Hz	100-120/200-240V, 50/60Hz	
Dimension [W x D x H]	320x180×108mm	320x180×108mm	320x180×108mm	
Weight	2.2kg	2.2kg	2.2kg	
Permissible ambient temperature and humidity	5-40°C 80%RH	5-40°C 80%RH	5-40°C 80%RH	

MS-H340-S4

LCD 4-Channel Digital Magnetic Hotplate Stirrer



It is widely used in chemical synthesis, physical and chemical analysis, biopharmaceuticals etc.

Features

- Independent heating and stirring control
- LCD display shows actual temperatures and speed
- PID controller ensures a precise and steady heating process, Max. temperature up to 340°C
- Brushless DC motor enables more powerful speed control
- External temperature sensor(PT1000) with accuracy at 0.2°C
- Overheating protection temperature at 420°C
- Stainless steel work plate with ceramic coating provides good chemical-resistant performance
- A wide variety of accessories are available

Specifications

Work plate dimension
Plate material
Motor type
Stirring positions
Max. stirring quantity of single position (H ₂ O)
Max. magnetic bar
Speed range
Speed display
Temperature display
Control accuracy of sensor
Temperature range
Over temperature protection
Temperature display accuracy
External temp. sensor
IP Protection class
Motor rating input
Power
Heating Power
Voltage
Dimensions[WxDxH]
Weight
Permissible ambient temperature
Permissible relative humidity

MS-H340-S4

1113 113 10 31
Ф135mm (5inch)
Stainless steel with ceramic coating
Brushless DC motor
4
10L
40mm
200-1500rpm
LCD
LCD
±20rpm
25-340°C
420°C
±0.1°C
PT1000 (Accuracy±0.2°C)
IP21
1.8W×4
515W×4
500W×4
100-120V,60Hz; 200-240V,50 Hz
698×270×128mm
9.5kg
5~40°C
80%RH

MS-H-S10

10-Position Magnetic Hotplate Stirrer

Features

- Maintenance-free brushless DC motor
- Max speed 1100rpm
- Max.temperature 120°C

• Stainless steel work plate, covered with silicone cushion, provides the excellent performance of heating uniformity and skid resistance





Skid resistance



Multiple position



Brushless DC motor

Specifications

Work plate dimension[W x D]
Work plate material
Motor type
Stirring positions
Max. stirring quantity
Max. magnetic bar[length]
Speed range
Speed display
Temperature display
Heating temperature range
Overheating protection
Protection class
Motor rating input
Motor rating output
Power
Heating output
Voltage
Dimension[WxDxH]
Weight
Permissible ambient temperature and humidity

MS-H-S10

MS-H-S10
180x450mm
Stainless steel with silicone
Brushless DC motor
10
0.4Lx10
40mm
0-1100rpm
scale
scale
Room temp120°C
140°C
IP42
12W
4W
490W
470W
100-120/200-240V 50/60Hz
182×622×65mm
3.2kg
5-40°C, 80%RH

Alloy-Bead Heating Bath

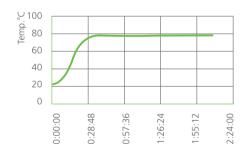
Features

- High strength aluminum alloy bead with high thermal conductivity over wide temperature range
- Flexible, convenient, easy to operate and adaptable to reaction vessels with different shapes and sizes
- Accommodate the external temperature probe on the hotplate magnetic stirrer to achieve precise temperature control
- The alloy bead does not adhere to the container inside surface, while the silicone oil is difficult to clean in the oil bath application
- Eco-friendly, pollution free, poison free, fume free, highly safe and splash free heating
- PTFE shell can effectively retain the heat and ensure human safety from burning injuries
- The beads are easy to handle with. The contaminated portion can be cleaned and replaced separately

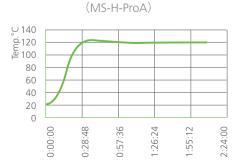




250ml water heated up to 80°C (MS-H-ProA)



250ml silicone oil heated up to 120°C



Tips for temperature control

 We recommend to use the beads with 340, 550 and 280 series hotplate magnetic stirrers

• Place the external temperature sensor in the hole on the heating bath and ensure that the probe is submerged within 1/2~1/3 of the depth of the bead bath for accurate sample temperature control.

 Keep the heating temperature below 260°C





	Cat. No.	Description	MS7-H550-Pro	MS7-H550-S	MS-H-Pro⁺	MS-H-Pro [™]	MS-H-S	MS-H280-Pro
1	18900001	Blue carrying plate, use with color quarter pies			•			•
2	18900065	Blue Fixed ring, use with color quarter pies						
3	18900002	Red quarter pie, 11 holes, 4 mL reaction vessel, Ø15.2mm, 20mm depth	•		•			•
4	18900003	Purple quarter pie, 4 holes, 20 mL reaction vessel, Ø28mm, 24mm depth	-		•			•
5	18900004	Blue quarter pie, 4 holes, 30mL reaction vessel, Ø28mm, 30mm depth	•					•
6	18900005	Black quarter pie, 4 holes, 40mL reaction vessel, Ø28mm, 43mm depth	•	•	•	•		•
7	18900048	Green quarter pie, 6 holes, 8mL reaction vessel, Ø17.8mm, 26mm depth	•		•			•
8	18900049	Golden quarter pie, 4 holes, 16mL reaction vessel, Ø21.6mm, 31.7mm depth	•		•			•
9	18101006	Reaction block for 50mL round bottom flask (one flask capacity)		 	•			•
10	18101007	Reaction block for 100mL round bottom flask (one flask capacity)					•	
11	18101008	Reaction block for 250mL round bottom flask (one flask capacity)			•			•
12	18101009	Reaction block for 500mL round bottom flask (one flask capacity)			•	•	•	•
13)	18900019	F101 protective cover, temperature resistance of 135°C			•		•	•
14)	18900016	PT1000-A, length of 230mm	-	-	•			•
15)	18900136	PT1000-B, temperature sensor with glass coated, length of 230mm						
16	18900017	Support clamp of PT1000	•					
17	18900148	Support clamp of PT1000				1		•









Stirrer bars

Stirrer bars and stirrer bar remover(PTFE), use below 150°C

	use 25.5.V 150 C				
		Models			
		MS7-H550-Pro MS7-H550-S MS-H-Pro [†] MS-H-Ps MS-S	MS-H280-Pro MS-PA MS-PB	MS-H-S10 MS-M-S10 FlatSpin EcoStir	
Cat. No.	Size of stirrer bars (LxØ)[mm]	Suitable for max. stirrer bar 80mm	Suitable for max. stirrer bar 50mm	Suitable for max. stirrer bar 40mm	
18900006	10mmx6mm	•	•	•	
18900007	15mmx8mm	•	•	•	
18900008	20mmx8mm			•	
18900009	25mmx8mm	•	•	•	
12500005	30mmx6mm	•		•	
18900011	40mmx8mm	•	•	•	
12500004	50mmx8mm	•	•		
18900013	65mmx8mm	•			
18900014	80mmx13mm	•			
18900015	Stirrer bar remover, length of 200mm	•		■	

HP550-S

LED Hotplate

Features

- LED screen shows temperature
- Max. temperature up to 550°C
- Separate safety circuits with fixed safety temperature of 580°C
- External temperature control is possible by connecting the temperature sensor(PT 1000) with an accuracy at ±0.5°C
- Glass ceramic work plate provides excellent chemical-resistant performance and most efficient heat transfer
- The "HOT" warning will flash if the work plate temperature is above 50°C even when the hotplate is turned off





Wide range of accessories



Chemical resistance



Overheating protection



"HOT" warning prevents burning



Specifications

Work plate dimension[WxD]
Work plate material
Heating position
Heating temperature range
Control accuracy of work plate
Safety temperature
Temperature display
Temperature display accuracy
External temperature sensor
Heating warning
Protection class
Power
Voltage Frequency
Heating Power
Dimension[WxDxH]
Weight

Permissible ambient temperature and humidity

HP550-S
184x184mm(7 inch)
Glass ceramic
1
Room temp550°C,increment 5°C
±10°C
580°C
LED
±1°C
PT1000(±0.5°C)
50°C
IP21
1010W
100-120/200-240V,50/60Hz
1000W
215x360x112mm
4.5kg
5-40°C, 80%RH

MS7-S

7" Square Magnetic Stirrer

Features

- Speed range of 0-1500rpm
- Max. stirring quantity of H₂O at 10L
- Ceramic work plate provides excellent chemical resistant performance



MS-S **Magnetic Stirrer**

Features

- Maintenance free brushless DC motor
- Speed range of 0-1500 rpm
- Max. stirring quantity of H₂O at 20L
- Stainless steel work plate cover with ceramic material provides good chemical resistance performance







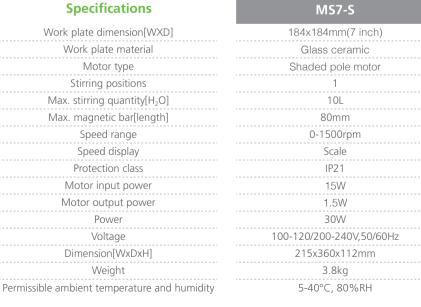
Chemical resistance



Strong magnetism



MS7-S





IVIS-3
ф135mm(5 inch)
Stainless steel cover with ceramic
Brushless DC motor
1
20L
80mm
0-1500rpm
Scale
IP42
18W
10W
30W
100-240V,50/60Hz
160×280×85mm
2.8kg
5-40°C, 80%RH

MS-PA

LED Digital Magnetic Stirrer

Features

- Digital speed control within the range of 0-1500rpm
- Max. stirring quantity of H₂O at 3L
- LED display shows speed
- Nylon+GF housing provides a good performance of chemical resistance





MS-PB

Magnetic Stirrer

Features

- A wide range of 0-1500rpm
- Max. stirring quantity of H₂O at 3L
- Nylon+GF housing provides a good performance of chemical resistance



Chemical resistance



Strong magnetism



LED display





Specifications

Work plate dimension
Work plate material
Motor type
Stirring positions
Max. stirring quantity[H ₂ O]
Max. magnetic bar[length]
Speed range
Speed display
Protection class
Motor input power
Motor output power
Power
Voltage
Dimension[WxDxH]
Weight
Permissible ambient temperature and humidity

MS-PA

IVI3-FA
ф135mm(5 inch)
Nylon+GF
Brushless DC motor
1
3L
50mm
0-1500rpm
LED
IP42
5W
3W
15W
100-120/200-240V,50/60Hz
150×260×80mm
1.8kg
10-40°C, 80%RH

MS-PF

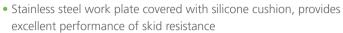
φ135mm(5 inch)
Nylon+GF
Brushless DC motor
1
3L
50mm
0-1500rpm
Scale
IP42
5W
3W
10W
100-120/200-240V,50/60Hz
150×260×80 mm
1.8kg
10-40°C, 80%RH

MS-M-S10

10-Position Magnetic Stirrer

Features

- Maintenance-free brushless DC motor
- Speed range of 0-1100rpm







Skid resistance



Multiple position



Specifications

Work plate Dimension[WxD]
Work plate material
Motor type
Stirring positions
Max. stirring quantity[H₂O]
Max. magnetic bar[length]
Speed range
Speed display
Protection class
Motor input power
Motor output power
Power
Voltage
Dimension[WxDxH]
Weight
Permissible ambient temperature and humidity

MS-M-S10
180×450mm
Stainless steel with silicone coating
Brushless DC motor
10
0.4LX10
40mm
0-1100rpm
Scale
IP21
12W
4W
20W
100-120/200-240V,50/60Hz
622×205×65mm
3.2kg
5-40°C, 80%RH



FlatSpinUltra-flat Compact Magnetic Stirrer

With excellent stirring functionality, the compact shape of FlatSpin takes less bench space and makes storage easier.

Features

- A wide range of speed from 15 to 1500rpm
- Automatic reverse rotation for excellent mixing
- Protection class (IP65)
- PET top provides excellent chemical resistance
- Ultra silence and vibration-free

EcoStir is a magnetic stirrer customized for liquid mixing, suitable for chemical analysis, biology reagent mixing, regular laboratory experiments and liquid handling.

EcoStir

Economical Magnetic Stirrer

Features

- Maintenance freebrushless DC motor
- Rare earth magnets give powerful stirring
- Stepless speed regulation 300-2000rpm
- Ultra silence and vibration-free design.
- PET top provides excellent chemical resistance
- Shaft can be fitted with a PH sensor or sensors for other purposes



Specifications	FlatSpin	EcoStir
Work plate Dimension	ф 90mm	ф120mm
Work plate material	PET	PET
Motor type	Motorless	Brushless DC motor
Stirring positions	1	1
Max. stirring quantity[H ₂ O]	0.8L	1.5L
Max. magnetic bar[length]	40mm	40mm
Speed range	15-1500rpm	300-2000rpm
Speed setting	button	scale
Protection class	IP65	IP21
Motor output power	3W	1.2W
Power	5W	7.2W
Voltage	100-120/200-240V,50/60Hz	100-120/200-240V,50/60Hz
Dimension [W x D x H]	175x120x15mm	150x145x50mm
Weight	0.3kg	0.3kg
Permissible ambient temperature and humidity	5-40°C,80%RH	5-40°C,80%RH

EcoStir

Square Plate Magnetic Stirrer

Square Plate Magnetic Stirrer with electrode holder has a reliable design and a powerful stirring ability. It is a basic and ideal tool for electrochemistry measurements or water & environment monitoring; drug or food analysis; liquid culture mixing, etc.

Features

- Compact design with small footprint, 12V voltage available for mobile labs.
- Square work plate supports 1.5L stirring capacity.
- Holder with clamp for pH electrode or other sensor.
- Default PET top provides excellent chemical resistance.
- Extra colorful stickers satisfy DIY design by yourself.
- Maintenance free brushless DC moto.
- An economical choice of a reliable & durable magnetic stirrer with an electrode holder for stable & powerful stirring ability.





Powerful stirring capacity





Applications outside lab:

- Home brewing
- Wine aeration
- Yeast and bacteria ferment

Specifications

Work plate size

Work plate material

Motor type

Stirring position

Max. stirring quantity (H₂O)

Max. magnetic bar (length)

Speed range

Speed setting

Protection class

Motor output power

Power

Voltage

Dimension [WxDxH]

Weight

Permissible ambient temp.&humidity

EcoStir

120x115mm

PET

Brushless DC Motor

1

1.5L

40mm

300-2000rpm

Scale

IP21

1.2W

7.2W

DC 12V.

100-240V,50/60Hz

150x144x54mm

0.3Kg

5-40°C80%RH

OS20-Pro OS40-Pro OS70-Pro

LCD Digital Overhead Stirrer

Overhead Stirrers are competent for most demanding tasks with guaranteed safety and performance. They are widely used in chemical synthesis, pharmaceutical synthesis, physical and chemical analysis, petrochemical industries, etc.



Speed 50~1100rpm with control accuracy of ±10rpm



Brushless DC motor for long life, maintenance free



Constant speed despite viscosity change of the sample



Spillage and overload protection safety circuits



Remote PC control and data transmission



LCD display of set and actual speed, torque and time (for OS70)

Self - locking drill chuck, tools free

Stirring paddle "topcross" design, easy to replace the container

Start/run smoothly, prevent sample splatter or overflow

Silicone cover protecting drill chuck from erosive vapor



Specifications	OS20-Pro	OS40-Pro	OS70-Pro
Max. stirring quantity[H2O]	20L	40L	70L
Speed range	50~2200rpm	50~2200rpm	50~1100rpm
Speed display accuracy	±3rpm	±3rpm	±10rpm
Time settings range	-	-	0-99h59min
Max. torque	40N•cm	60N•cm	300N•cm
Viscosity max.	10000mPa•s	50000mPa•s	100000mPa•s
Weight	2.8kg	2.8kg	3.2kg
Motor type		Brushless DC motor	
Voltage	100~240V, 50/60 Hz		
Speed display	LCD		
Torque display		LCD	
Overload protection display	LCD		
Chuck range diameter	0.5~10mm		
Motor input/output power	60W/50W	120W/100W	180W/160W
Power	70W	130W	200W
Dimension[WxHxD]	83 x 220 x 186mm		
Protection class			
Permissible ambient temperature and humidity	5~40°C,80%RH		
Data interface	RS232		

OS20-S OS40-S

LED Overhead Stirrer

Features

- High reliability and outstanding performance
- A wide range of speed from 50 to 2200rpm
- Brushless DC motor for long life, maintenance free and
- explosion proof
- LED screen for monitoring actual speed
- Safety circuits allow for safe stop function in anti-stall or overload conditions

Stirring paddle "top-cross" design, easy to replace the container

Spillage and overload protection safety circuit



LED display of set and actual speed

- Brushless DC Motor
- Maintenance free
- Explosion-proof
- Precision speed contro

Self - locking drill chuck, tools free





Explosion-proof



Wide range of accessories





Specifications	OS20-S	OS40-S	
Max. stirring quantity[H ₂ O]	20L	40L	
Speed range	50~2200rpm	50~2200rpm	
Max. torque	40N•cm	60N•cm	
Viscosity max.	10000mPa•s	50000mPa•s	
Weight	2.8kg	2.8kg	
Motor type	Brushless DC motor		
Speed display	LED		
Overload protection display	LED		
Chuck range diameter	0.5~10mm		
Motor input power	60W	120W	
Motor output power	50W	100W	
Power	70W	130W	
Voltage	100~240V, 50/60 Hz		
Dimension[WxHxD]	83 x 220 x 186mm		
Protection class	IP21		
Permissible ambient temperature and humidity	5~40°C, 80%RH		

Plate Stands

Universal Plate Stand (for OS20/40/70)

Dimension [W x D x H]: 200x310x780mm Material: stainless steel **Cat. No.** 18900258



Grand Plate Stand (for OS70)

Dimension [W x D x H]: 335 x 463 x 780mm Material: stainless steel **Cat. No.** 18900497



Stirrer

Stainless Steel Series

PTFE Coating Series

Grand Series (for OS70)

Propeller stirrer

Shaft length 400mm Stirrer diameter 50mm Material: 304L stainless steel Standard stirring applications at medium and high speed





Paddle stirrer

Shaft length 40cm Stirrer diameter 6.8cm Material: 304L stainless steel For gentle mixing at low and medium speeds

Cat No. 18900073



Straight stirrer

Shaft length 40cm Stirrer diameter 6cm Material: 304L stainless steel For low viscosity media at medium and high speeds

Cat No. 18900072



Centrifugal stirrer

Shaft length 40cm Stirrer diameter 9cm Material: 304L stainless steel Blades open while speeding. For narrow neck vessels at medium to high speed.

Cat No. 18900074



Propeller stirrer

Shaft length 400mm Stirrer diameter 50mm Material: PTFE coated Standard stirring applications at medium and high speed

Cat No. 18900075



Paddle stirrer

Shaft length 40cm Stirrer diameter 6.8cm Material: PTFE coated For gentle mixing at low and medium speeds

Cat No. 18900077



Straight stirrer

Shaft length 40cm Stirrer diameter 6cm Material: PTFE coated For low viscosity media at medium and high speeds

Cat No. 18900076



Centrifugal stirrer

Shaft length 40cm Stirrer diameter 9cm Material: PTFE coated Blades open while speeding. For narrow neck vessels at medium to high speed.

Cat No. 18900078



Grand propeller stirrer

haft length 600mm Stirrer diameter 10cm Material: 316L stainless steel Standard stirring



Cat No. 18900478

Grand paddle stirrer

Shaft length 60cm Stirrer diameter 10cm Material: 316L stainless steel Gentle mixing for those stratify easily or sensitive to shear





Grand anchor stirrer

Shaft length 60cm Stirrer diameter 10cm Material: 316L stainless steel Standard stirring or for those easily precipitate

Cat No. 18900498



Grand dissolving stirrer

Shaft length 60cm Stirrer diameter 10cm Material: 316L stainless steel Breaking down granules in the mixture with strong shear

Cat No. 18900500



D-160

Handheld Homogenizer

Features

- Ideal for manual operation due to its light weight and ergonomic design
- Processing range: 0.1-50mL or 1-250mL
- 316L stainless steel shafts are fully autoclavable and inert for highly corrosive solutions
- All shafts are interchangeable for easy dismantling and cleaning.
- Speed from 8,000 to 32,000 rpm

D-500

Homogenizer

Features

- Viscosity up to 10,000 mPas
- 6 modes of motor speed from 10,000 to 30,000 rpm
- All-round safety guarantee for motor drive, overload protection and smooth operation
- 316L stainless steel shafts are fully autoclavable and inert for highly corrosive solutions
- Easy dismantling for fast preparation
- All shafts are interchangeable for easy dismantling and cleaning







Specifications

Power Supply

Motor Type Universal motor

Speed Range

Max. Circum. Speed

Speed Control Dial knob

Working Volume [H₂O]

Max. Viscosity

Material of Dispersing Shaft

Weight

Dimension [L x W x H]

Noise

Operating Environment

Protection Class

D-160

110-120V/60Hz 220-240V / 50-60 Hz

160 W AC carbon brush motor

8000-32000rpm

6.3-14m/sec

10 stage

0.1-50mL (Dispersing shaft DS-160/5)

1-250mL (Dispersing shaft DS-160/10)

5,000mPas

SS 316L stainless steel, PTFE

0.54 kg

45mm x 55mm x 190mm

72 dB(A)

0-40°C, 85% rel. humidity

IP20

D-500

110-120V/60Hz 220-240V/50-60 Hz

500 W AC carbon brush motor

10000-30000rpm

22.7-36m/sec

6 stage

10-40000mL (Optional)

10,000 mPas

SS 316L stainless steel, PTFE

1.3 kg

70mm x 70mm x 255mm

79 dB(A)

0-40°C, 85% rel. humidity

IP20



D-500

Homogenizer

DS-500/1

SS20CSR20

Volume 10-5000mL Max. Circum. Speed 22.7m/sec

Material: 316L

Application: for solid/liquid media

DS-500/2

SS20FER20

Volume 10-5000mL Max. Circum. Speed 22.7m/sec

Material: 316L

Application: for water and oil mixing

DS-500/5

SS5CSR5

Volume 10-5000mL

Max. Circum. Speed 5,8m/sec

Material: 316L

Application: Ideal for all homogenizing applications such as tissue homogenization, cell disruption, suspensions and clinical

and medical diagnostics



18201331





18201332





18900117



D-160

Handheld Homogenizer

DS-160/5

Volume 0.1-50ml

Max. Circum. Speed 6.3m/sec

Material: 316L

Application: small amounts of solid-

liquid mixed

DS-160/10

Volume 1-250mL

Max. Circum. Speed 14m/sec

Material: 316L

Application: small amounts of solid-

liquid mixed



Cat. No.

18900544



Stator



S20C



S20F



S30C



S30F



S40C



Rotor















SR20

SR30

CR20

CR30

MR20

MR30

ER20

ER30

Combination					
Cat. No.	Compatibility	Description of Shaft	Function	Applications	Treatable Volume (refer to water)
18900543	D-160		dispersing tool for solid/liquid media		0.1-50ml
18900544	D-160		dispersing tool for solid/liquid media		1-250ml
18900117	D-500	SS5CSR5	dispersing tool for solid/liquid media	Dispersing of tissue decomposition, clinical & medical diagnostics and suspensions	1-50ml
18900115	D-500	SS20CSR20	dispersing tools for solid/liquid media	Coarse crushing of hard solids in liquid	10-5000ml
18900116	D-500	SS20FER20	Dispersing tools for W/O or O/W emulsions	Emulsions, intensive mixing of w/o and o/w emulsions Dispersing of resins and pigments for paint and lacquer industry	10-5000ml
18900118/ 18900125	D-500	S20C CR20	dispering tool with knifes for fibrous/ stringy materials	Fragmentation of vegetable, animal and human tissues	10-5000ml
18900118/ 18900127	D-500	S20C MR20	dispersing tool for solid/liquid media	S u s p e n s i o n s , intensive mixing	10-5000ml
18900119/ 18900125	D-500	S20F CR20	dispering tool with knifes for fibrous/ stringy materials	Fragmentation of vegetable, animal and human tissues	10-5000ml
18900119/ 18900127	D-500	S20F MR20	dispersing tools for solid/liquid media	Emulsions, intensive mixing of w/o and o/w emulsions	10-5000ml
18900120/ 18900124	D-500	S30C SR30	dispersing tools for solid/liquid media	Coarse crushing of hard solids in liquid	100-8000ml
18900120/ 18900126	D-500	S30C CR30	dispering tool with knifes for fibrous/ stringy materials	Fragmentation of vegetable, animal and human tissues	100-8000ml
18900120/ 18900128	D-500	S30C MR30	dispersing tools for solid/liquid media	S u s p e n s i o n s , intensive mixing	100-8000ml
18900121/ 18900124	D-500	S30F SR30	dispersing tools for solid/liquid media	Dispersing of resins and pigments for paint and lacquer industry	100-8000ml
18900121/ 18900130	D-500	S30F ER30	Dispersing tools for W/O or O/W emulsions	Emulsions, intensive mixing of w/o and o/w emulsions Dispersing of resins and pigments for paint and lacquer industry	100-8000ml
18900121/ 18900128	D-500	S30F MR30	dispersing tools for solid/liquid media	Emulsions, intensive mixing of w/o and o/w emulsions	100-8000ml
18900120/ 18900127	D-500	S30C MR20	Stirring Shaft	High speed mixing without crushing	250-20000ml
18900122/ 18900128	D-500	S40C MR30	Stirring Shaft	High speed mixing without crushing	1000-40000ml





D1008 Series

Palm Micro Centrifuge

Features

- Ideal for microfiltration and quick spin-down application
- Easy to operate. Lid close, it begin to rotate
- Max up to 7000rpm
- Compatible with 2mLx8 and PCR8x4 rotors
- Quiet running, noise level ≤45dB
- Quick-change rotor without any tool
- Accelerates and brakes in seconds
- Available in two colors i.e., green, blue
- Safe, endurable and robust rotor with clamp locking design.



Quiet operation



Vibration free



Specifications

Max. Speed Max. RCF

Rotor Capacity

Run Time

Driving Motor

Power

Noise Level

Dimension [DxWxH]

Weight Certification

D1008

7000rpm 2680×g

0.2/0.5/1.5/2.0mL×8; 0.2mL×32 PCR strips or 0.2mL×4 PCR 8 strips

Continuous operation

DC motor

AC100-240V/50Hz/60Hz 20W

≤45dB

160x170x122mm

0.5kg

CE cTÜVus FCC MCA





A8-2P

Cat. No. 19400015

Max. speed:7000rpm
Max. RCF:2680×g
Rotor capacity:2mL/1.5mL×8,0.2mL×8,0.5mL×8
Rotor material:High strength plastic
Available rotor adapters:SA02P2, SA05P2



A04-RCR8

Cat. No. 19200810

Max. speed:7000rpm Max. RCF:2680×g

Rotor capacity: 0.2 ml×32 PCR strips, 0.2 ml×4 PCR 8 strips

Rotor material: High strength plastic

Available adapters



SA02P2

Cat. No. 19400029

0.2mL rotor adapter Used with A08-2 rotor 8pcs/pk



SA05P2

Cat. No. 19400026

0.5mL rotor adapter Used with A08-2 rotor 8pcs/pk

LSC2100

MicroPlate Centrifuge

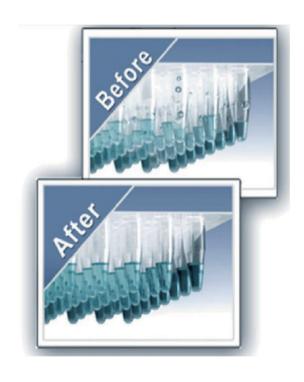
LSC2100 microplate centrifuge is designed for 96 well plate to collect the liquid hanging on inside wall of tube.

Features:

- Fast and easy operation.
- Ideal tool for sample pre-preparation before PCR test;
- Suitable for all types of non-skirted or skirted PCR well plate;
- Unique and compact design: 23x20cm;



Specifications	LSC2100		
Max. Speed	2500rpm		
Max. RCF	500g		
Speed accuracy	≤10%		
Rotor capacity	2 x 96 well plate		
Noise	≤70dB		
Power	AC120V/AC220V, 50/60Hz; 110W		
Dimension(WxDxH)	190x220x186mm		
Weight	2.1Kg		
Permissible ambient temp. &humidity	5-40℃, ≤85%		
Pressure	860hPa-1060hPa		



High speed micro centrifuges are widely used in physical and chemical analysis, biochemistry, cellular and molecular biology, clinical Labs ideal for high-end research applications

- Sedimentation of cells and viruses
- Separation of sub-cellular organelles
- Isolation of macromolecules such as DNA, RNA, proteins or lipids

Conforms to international safety standards and regulations

- Centrifuges are certified with CE, cTÜVus and FCC from TUV. The centrifuge is in conformity with stand EN 61010-1, it has passed MCA test according to IEC/EN61010-2-20
- Quiet and reliable operation
- High strength metal casing ensures security during centrifugal process
- Dual door interlock design for max. operation safety
- Gentle braking at low speed provide efficient separation

Outstanding Feature

- Maintenance free and powerful driving brushless DC motor easily to reach the set speed
- Provide high accuracy speed control ±20rpm
- Timer starts only when the set speed is achieved, to provide an accurate separation time

Ergonomic design

- User-friendly large LCD display shows real-time information
- Both RPM or G-force can be set and displayed
- The parameters can be modified after the set speed is reached.
- The short spin function by pressing and holding PULSE key. The centrifuge speed can be accelerated and held at the target speed
- The lid will open automatically with promopt sound when the running finish
- Running Process display and error code prompt



D2012 Plus

High Speed Mini Centrifuge



Features

- Speed up to 15000rpm (15100×g)
- Brushless DC motor drive quickly to the target speed
- Quiet working, Low noise ≤54dB
- D2012 Plus is proven by IEC/EN 61010-1
- D2012 Plus passed the rigorous explosion-proof test according to IEC/ E/V 61010-2-20. It is certified with CE, cTÜVus, FCC



Brushless DC motor



LCD display



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Specifications

Max. Speed

Max. RCF

Speed Accuracy

Rotor Capacity

Run Time

Acceleration

/Braking time

Driving Motor

Safety Devices

Power

Noise level

Dimension[D×W×H]

Weight

Certification

Other functions

D2012 plus

15000rpm(500-15000rpm), increment: 100rpm

15100×g, increment: 100×g

±20rpm

 $0.2mL/0.5mL/1.5mL/2mL\times12$

30sec-99min/Continuous

11s ↑ /9s ↓

Brushless DC motor

Door interlock, Over-speed detection, Over-temperature detection, Automatic internal diagnosis

Single-phase, AC100V-240V, 50Hz/60Hz, 3A 100W

≤54dB

255×245×140mm

6kg

EMC, CE, FCC, ICES, cTUVus, CB

Speed/RCF switch, Short-time run function, sound-alert function

Available rotors



Cat. No. 19400010

A12-2P

for D2012plus only

Max. speed: 15000rpm Max. RCF: 15100×g

Rotor capacity: 2mL/1.5mL×12,0.2mL×12,0.5mL×12

Rotor material: High strength plastic Available rotor adapters: A02P2,A05P2

Available adapters



Cat. No. 19500001

A02P2

0.2mL rotor adapter Used with A12-2, A12-2P, AS24-2 and A24-2P rotors 24 pcs/pk

Cat. No. 19500002

A05P2

0.5mL rotor adapter Used with A12-2,A12-2P, AS24-2 and A24-2P rotors 24 pcs/pk

D3024

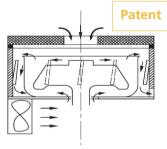
High Speed Micro Centrifuge

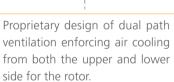
Unique Features

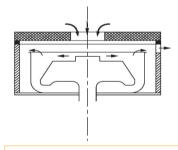
- Patent multi-flow air cooling design to provide air exchange to prevent chamber warming
- Three-layer seal ensure airtightness and biosafety
- High strength aluminum alloy rotor can be fully autoclaved for unlimited service life
- Four rotors are optional complete with 24 places 1.5/2.0mL tubes, bigger 5.0mL, smaller 0.2mL and 0.5mL tubes with adapters

Effective Ventilation System

Conventional design







Limiting ventilation on the upper side of the rotor





Brushless DC motor







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Specifications

Max. Speed

Max. RCF

Speed Accuracy

Rotor Capacity

Run Time Acceleration /Braking time [Sec]

Motor

Safety Devices

Power

Noise Level

Dimension[W×D×H]

Weight

Certification

Other functions

D3024

15000rpm(200-15000rpm), increment:10rpm

21380×g, increment:10×g

±20 rpm

5mL×18, 5mL culture tubex12 0.2mL/0.5mL/1.5mL/ 2mL×24, 0.5mL×36, PCR8×4

30sec-99min/Continuous

 $25s \uparrow 25s \downarrow$

Brushless DC motor

Dual door interlock, Over-speed detection, Automatic internal diagnosis

Single-phase, AC200V-400V, 50Hz/60Hz, 5A, AC100V-120V, 50Hz/60Hz, 8A 200W

≦64dB

280×364×266mm

12kg

CE cTÜVus FCC MCA

Speed/RCF switch; Short-time run function; sound-alert function





D1524R

High-speed Refrigerated Micro Centrifuge

Features

- Ergonomic electronic lock design, the centrifuge lid can be closed with single finger touch
- Precooling, the compressor will automatically start cooling as long as the set temperature is lower than the ambient temperature.
- Sound indicator to prompt that the upper cover is closed to maintain the temperature inside the chamber, after centrifugation.
- Advanced R290 fluorine free refrigerant, low carbon and environmental protection.
- Temp range:-20°C- 40°C, fast and powerful cooling capacity, 7 minutes cooling from room temp to 4°C. Temp can kept at max speed.
- Up to 9 program storage capacity according to experimental needs.
- Three-layer sealed rotors ensare airtightness and biosafety.
- High-strength aluminum alloy withstand numerous high temperature and high pressure sterilizations.
- Five rotors with 0.2mL, 0.5mL, 1.5mL, 2mL and 5mL centrifuge tubes/ PCR tubes capacity.
- An external condensation tank prevents water accumulation within the centrifuge chamber.
- Rotor imbalance detection alarm.





Specifications	D1524R			
Max. Speed	15,000rpm (200-15,000rpm) in 100rpm increments			
Max. RCF	21,380×g, step: 10×g			
Capacity	1.5/2mL \times 24, 0.5mL \times 36, PCR8 \times 4, 5mL \times 12, 5mL \times 18.			
Temperature setting	-20°C- 40°C			
Run Time	30s-99 min; HOLD (continuous running)			
Acceleration and deceleration time	25s↑25s↓			
Motor Type	DC brushless motor			
Safety Performance	Dual door lock, over-speed detection, over-temperature detection with Internal diagnosis system.			
Power Requirements	Single-phase, 200V-240V, 50Hz/60Hz, 500W 100V-120V, 50Hz/60Hz, 500W			
Noise	≤56dB			
Dimensions(mm)	332(Width) \times 553(depth) \times 283(height)			
Weight	30kg			
	Rotation speed/RCF switchover, inching operation,			

running process indicator, sound alert. Acceleration/deceleration in 9 steps, program storage capacity.

Other functions



Rotors are manufactured from militaryindustrial grade aluminum alloy with high mechanical strength for precise running and safety (excludes D2012 plus rotor)

- Every rotor can reach a max. speed of 15000rpm
- Rotors are seated on a tapered shaft, concentric and self-aligning, perfect to achieve running stability at high speeds
- D3024 & D1524R with three-layer sealed rotors/ anti- sample overflow prevents accidental leakage and risk free centrifugal process
- microbial contamination. D3024 & D3024R rotors have passed MCA test according to IEC/EN61010-2-20, including mechanical safety and bio-safety tests
- High strength aluminum alloy rotors are fully autoclavable and provide unlimited service life (D2012 plus rotor not included)
- Powerful cooling system minimizes rotor heating. D3024 rotors heat up to > 10°C and D2012 rotors less than 8°C after running an hour

Seals within the aluminum alloy rotor

Rotor Features

Fully autoclavable

High strength aluminum alloy rotors are fully autoclavable, withstanding steam sterilizing at 121°C for 20 minutes, with unlimited service life.

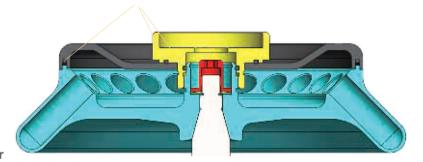
Three-layer seal

Aspired to be the top-of-the-line model, D3024 & D3024R rotors are designed to prevent sample leakage. Each and every rotor is hermetically sealed by three rubber seals.

Mechanical safety

Centrifuges are constructed under MCA conditions according to IEC/ EN61010-2-20, causing disruption by partially cutting and overloading rotor assembly, and guarantee that no part shall be detached to cause danger to person or the environment.

Three rubber seals fitted to achieve bio-safe condition







Cat. No. 19400006

Cat. No. 19400032

AS24-2

for D3024 & D1524R

Max. speed: 15000rpm Max. RCF: 21380×g

Rotor capacity: 2mL/1.5mL×24/0.2mL×24/0.5mL×24

Rotor material: Aluminum alloy Bio-safe(Bio sealing): Yes

Available rotor adapters: A02P2,A05P2



AS12-V5

for D3024 & D1524R

Max. speed: 15000rpm Max. RCF: 21380×g

Rotor capacity: 5mL×12(Cone bottom) Rotor material: Aluminum alloy Bio-safe(Bio sealing): Yes



AS36-05

for D3024 & D1524R

Max. speed: 15000rpm Max. RCF: 21380×g

Rotor capacity: 0.5mL×36,0.2mL×36 Rotor material: Aluminum alloy Bio-safe(Bio sealing): Yes

Available rotor adapters: A02P05



AS4-PCR8

for D3024 & D1524R

Max. speed: 15000rpm Max. RCF: 21380×g

Rotor capacity:0.2mL/PCR8×4 Rotor material: Aluminum alloy Bio-safe(Bio sealing): Yes

Cat. No. 19400007

Cat. No. 19400008



Cat. No. 19400012

AS18-5 for D3024 & D1524R

Max. speed :15000rpm Max. RCF:21380×g

Rotor capacity:5mL \times 18 (Round bottom)

Rotor material:Aluminum alloy Bio-safe(Bio sealing):Yes

Available adapters



A02P2

Cat. No. 19500001

0.2mL rotor adapter Used with A12-2, A12-2P, AS24-2 and A24-2P rotors 24pcs/pk



A05P2

Cat. No. 19500002

0.5mL rotor adapter Used with A12-2, A12-2P, AS24-2 and A24-2P rotors 24pcs/pk



A02P05

Cat. No. 19500003

0.2mL rotor adapter Used with AS36-05 rotor 36pcs/pk

Model	Rotor model	Capacity	Hole diameter(mm)	Hole depth (mm)	Max. tube length (mm)
D2012plus	A12-2P	2×12	11.2	39	47
	AS24-2	2×24	11.2	40.5	54.2
D3024 D1524R	AS36-05	0.5×36	8.2	29.3	36
	AS4-PCR8	0.2×32	6.5	20.4	36
	AS18-5	5×18	13.7	39	56.5
	AS12-V5	5×12	17.5	44	56.5

Hematocrit centrifuge with AC24P hematocrit rotor is used for determination of volume fractions of erythrocytes in blood for diagnostic purposes and doping tests. Also it is used for the photometric determination of bilirubin content in neonate blood samples. Hematocrit centrifuge with A24-2P tube rotor, can be used for extraction of DNA and RNA.





DM1424

Hematocrit Centrifuge

Features

- Speed range of 200-14000rpm, max. RCF 18620×g
- Precise control of speed and time separately
- Easy operation with intuitive menu and easy-to-read display
- Maintenance-free brushless DC motors
- Pulse operation for quick spins
- Rotor capacity: Hematocrit rotor:
- Hematocrit rotor:24 capillary max. speed:12000rpm
- Tube rotor: 1.5/2mL×24 max. speed: 14000rpm

DM1224

Economical Hematocrit Centrifuge

Features

- Max.speed is 12000rpm, max. RCF 13680xq
- Precise control of speed and time separately
- Rotor capacity: Hematocrit rotor: 24 capillary

Specifications

Snaad	Range

Max. RCF

Speed Accuracy

Rotor Capacity

Run Time

Motor

Display

Safety Devices

Acceleration/Braking time

Power

Dimension[WxDxH]
Weight

Certification

Advanced features

DM1424

200-14000rpm, increment: 10rpm

18620×g

±20

2 type

30sec-99min/Continuous

Brushless DC motor

LCD

Door interlock, Overspeed detector; Automatic internal diagnosis, Automatic rotor identification

30s ↑ 30s ↓

Single-phase, 200V-240V,50Hz/60Hz, 5A; 100V-120V,50Hz/60Hz, 5A 160W

280×364×274mm

10kg

CE cTÜVus FCC MCA IVD

Speed/RCF switch; Short-time run function; sound-alert function

DM1224

500-12000rpm, increment: 100rpm

13680×g

±100

1 type

10sec-99min/Continuous

Brushless DC motor

LCD

Door interlock

40s ↑ 40s ↓

Single-phase, 200V-240V,50Hz/60Hz, 5A; 380W

280×364×213mm

10kg

Speed/RCF switch; Short-time run function; sound-alert function





A24- 2P

DM1424

Max. speed: 14000rpm Max. RCF: 18620×g

Rotor capacity: 2mL/1.5mL×24,0.2mL×24,0.5mL×24

Rotor material: High strength plastic

Available rotor adapters: A02P2,A05P2,A10P15 & Mat



Cat. No. 19400047

Cat. No. 19500001

Cat. No. 19500002

Cat. No.19400013

AC24

DM1424 & DM1224

Max. speed: 12000rpm Max. RCF: 13680×g

Rotor capacity: capillary tubes x24 Rotor material: High strength aluminum

Available adapters



A02P2

2mL to 0.2mL rotor adapter, used with A12-2, A12-2P, AS24-2 and A24-2P rotors, 24pcs/pk



A05P2

2mL to 0.5mL rotor adapter, used with A12-2, A12-2P, AS24-2 and A24-2P rotors, 24pcs/pk



Cat. No. 19500003

A02P05

Rotor adapter, used with A12-10P, 12pcs/pk





Low-speed centrifuges are widely used for the separation of serum, plasma, urine, blood samples and other routine practices in hospital and research laboratories.

Conforms to international safety standards and regulations

- Low-speed centrifuges are marked with CE, cTUVus and FCC, and passed explosion-proof test / MCA test according to IEC/EN61010-2-20
- Passed EN61010-2-101:2002 particular requirements for In-vitro diagnostic (IVD) medical equipment
- High strength plastic rotor gives excellent balance to guarantee stable working
- Dual protection housing particularly benefit for safe running
- Brushless DC motor precisely accelerates to the set speed

Precise control

- Powerful CPU for easy operation of speed, time and all other parameters
- High accuracy of speed
- Digital timer adjustable from 30 sec. to 99 min or set for continuous runnig
- Gentle braking at low speed for efficient separation

Ergonomic design

- Easy operation thanks to intuitive menu and easy-to-read display
- RPM or G-force can be set and displayed
- Parameters can be modified after the set speed is reached
- Pressing and holding PULSE key for quick spin function
- Automatic lid-lock release
- Easy-to-read processing display and sound alert



DM0412 & DM0412S Low-speed centrifuges support small volumes applications . The centrifuges are supplied with an built-in angle rotor that can hold up to $50mL\times6$ & $15mL\times6$ (A6-50P), $15mL\times8$, or $10mL/7mL/5mL\times12$ (A12-10P) vacuum tubes.

They are widely used in medical and veterinary practices for the separation of blood and urine samples or for water and soil samples for. These centrifuges are also used in universities and other research institutes

DM0412Clinical Centrifuge

Features

- Easy programming to achieve high accuracy of speed control
- Easy operation with intuitive menu and easy-to-read display
- Rotor speed can be set and displayed by RPM or G-force
- Maintenance-free brushless DC motor
- Quick spin function with press and hold pulse key
- Lid with electric lock and automatic release function saves processing time
- Automatic self-diagnosis on startup showing accumulative running time and last running parameters
- Braking time 2 steps adjustable(for A6-50P rotor)





DM0412S Economical Low-speed Centrifuge

Features

- speed range of 300-4500rpm
- Individual control of speed and time
- Faster acceleration and deceleration
- Perfectly suitable for 15mL centrifuge tubes and a full line of Vacuum collection tubes





Specifications

Speed Range
Max. RCF
Speed accuracy
Rotor type
Run Time
Motor
Display
Safety Devices
Acceleration/Braking time
Power
Dimension[WxDxH]
Weight
Certification
Advanced features

DM0412

300-4500rpm, increment: 100rpm
2490×g
±20rpm
A12-10P, A6-50P
30sec-99min HOLD(Continuous operation)
Brushless DC motor
LCD
Door interlock, Overspeed detector; Automatic internal diagnosis
A12-10P: 20s ↑ 13s↓ A6-50P: 20s ↑ 20 s /90 s↓
Single-phase, 100V-240V,50Hz/60Hz, 3A 70W
354×304×215mm
6kg
CE, cTUVus, IVD
Speed/RCF switch;Short-time run function; sound-alert function

DM0412S

300-4500rpm, increment:100rpm					
2490×g					
±100rpm					
A12-10P					
1-99min HOLD(Continuous operation)					
DC motor					
LED					
Door interlock, Over-speed detection					
23s↑23s↓					
Single-phase,200V-240V,50Hz/60Hz, 3A;100V-120V,50Hz/60Hz, 3A 70W					
354×304×218mm					
6kg					
-					

sound-alert function







Cat. No. 19200348

A12-10P (round bottom)

for DM0412 & DM0412s & DM0424 & DM0408

Max. speed: 4500rpm Max. RCF: 2490×g

Rotor capacity: 8x15mL,12x10mL Rotor material: High strength plastic



Cat. No. 19100197

A6-50P (round bottom) For DM0412(A6-50P)

Max.speed: 4000rpm Max.RCF: 1800×g

Rotor capacity: 50ml×6 or 15ml×6 Rotor material: High strength plastic

A12-10P and A6-50P are not interchangeable

Available tubes	Tube quantity	Dimension (ФLxmm)	Adapters	Maximum speed(rpm)	Radius (cm)	Maximum RCF (×g)
15mL con	8	17×120		4500	11	2490
1.5-5mL vacu	12	13×75	A10P15 & Plug	4500	9.8	2218
4-7 mL vacu		13×100	A10P15		11	2490
	12	16×75		4500		2218
8.5-10 mL vacu	12	16×107		4500	11	2490
2.7-3 mL(EU) collection tube	12	11×66	A10P15 & Plug	4500	9.8	2218
7.5-8.2 mL(EU) collection tube	12	15×92	A10P15	4500	11	2490

Note: Made of plastic, A12-10P rotor cannot be autoclaved or applied with UV irradiation. Regular sterilization is recommended.

DM0412P centrifuge

DM0412P centrifuge is supplied with an angle rotor that can hold up to 15mL×8 or 10mL/7mL/5mL×12 (A12-10P)vacuum tubes. It is ideal for sample preparation in constimetology and dental field, like orthopedic, aesthetic surgery, oral surgery, etc.

New

Features

Max. speed 4500rpm;

Advanced features

- Rotor speed can be set in RPM/RCF;
- 3 preloaded programs for fast operation;
- 9 programs for customization can be stored in memory;
- Powerful CPU for easy operation of speed, time and all other parameters;
- Easy-to-read processing display and sound alert;
- Automatic lid-lock release after running;
- Conforms to international safety standards and regulations marked with CE, cTUVus and FCC, and passed the explosion-proof test / MCA test according to IEC/EN61010-2-20;
- Passed EN61010-2-101: 2 0 0 2 particular requirements for In-Vitro diagnostic (IVD) medical equipment;
- Maintenance-free brushless DC motor.



6 10 0				
Specifications	DM0412P			
Speed Range	300-4500rpm, increment:10rpm			
Max. RCF	2490xg, increment: 10g			
Speed accuracy	±10rpm			
Rotor capacity	8x15ml,12x10mL/7mL/5mL			
Run Time	30sec-99min			
Motor	Brushless DC motor			
Display	LCD			
Preloaded Program	PRP:3480rpm, 5mins, PRF:2690rpm, 7mins, CGF: Step1 2700rpm 2mins, Step2 2400rpm 4mins Step3 2700rpm 4mins, Step4 3000rpm 3mins,			
Custom Programs Memory	9 programs (6 steps for each program)			
Safety Devices	Door interlock, Overspeed detector, Automatic internal diagnosis			
Noise	≤56dB			
Power	Single-phase, 100V-240V,50Hz/60Hz, 3A,70W			
Dimension[WxDxH]	301X354X217mm			
Weight	6kg			
Certification	CE, cTUVus, IVD			



Rotor(A12-10P)&Adapters:



Speed/RCF switch; sound-alert function







DM0506 low-speed centrifuge, supplied with built in fixed angle rotor A6-15P which can hold up to 15mL/10mL/7mL/5mL×6 tubes. It is widely used for blood or urine separation in medical routine practice in hospitals, clinics or research institutes.

DM0506 Low-speed Centrifuge



Features

- Speed range from 300-5000rpm;
- Rotor speed can be set and displayed by RPM or G-force;
- Defined program by knob will be stored and activated when power on;
- Two programs P1/P2, easy to start the procedure by one key;
- Two deceleration speeds setting to meet different requirements;
- Easy-to-read processing display and sound alert;
- Automatic lid-lock release after running;
- Maintenance-free brushless DC motor.

Specifications	DM0506
Speed Range	300-5000rpm, increment:10rpm
Max. RCF	2350xg, increment: 10g
Speed accuracy	±20rpm
Rotor capacity	6x15mL/10mL/7mL/1.5-5ml
Run Time	30sec-99min, HD(continuous running)
Display	LCD
Programs Memory	2
Acceleration/Deceleration	1↑2↓
Safety Devices	Door interlock, Overspeed detector, Automatic internal diagnosis
Motor	Brushless DC motor
Power	Single-phase, 100V-240V,50Hz/60Hz, 70W
Dimension(WxDxH)	300X240X180mm
Weight	5.2kg
Advanced features	Speed/RCF switch; sound-alert



Available adapters

Advanced features



A5P17

Cat. No.19500022

function

5ml adapter, Adapted to 13×75mm blood collection tube



A2P17

Cat. No.19500023

1.5/2ml Cryogenic Vials/ centrifuge tube adapter

Low speed clinical centrifuges are widely used in the medical industry. Ideal for separation of serum, plasma, urine, fecal samples in biochemical & medical laboratories. It is an essential equipment of every clinical laboratory, blood bank, medical college and medical research institute.

DM0424 low Speed Centrifuge

Features

- Max. speed 4000rpm.
- Rotor speed can be set in RPM/RCF, with 3 programs storage capacity for routine applications.
- Max. capacity 50ml×4, Accomo dating different sizes of blood collection tubes and centrifuge tubes suitable for swing out rotor and
- Automatic internal diagnosis and self-detection.
- Maintenance-free brushless DC motor.







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Speed range

Max. RCF Speed accuracy

Rotor

Run time Motor

Display

Program

Safety Device

Acceleration/deceleration

Power

 $Dimension(W \times D \times H)$

Weight Noise

DM0424

500-4000rpm increment: 100rpm

2500×g

±100rpm

Swing6×15ml Swing4×50ml

Angle 24×15 ml, Angle 12×10ml/8×15ml

1-99min, HOLD

Brushless DC motor

LCD

Blood: 3200rpm,10min. Urine: 1800rpm,5min. Faecal: 1300rpm, 10min.

> Automatic internal diagnosis

> > 3 ↑ 4 ↓ steps

Single phase, 100V-240V, 50Hz/60Hz

364×440×268mm

14.5kg

 \leq 62dB(A)

DM0408

300-4000rpm increment: 100rpm

1900×g

±100rpm

Angel 8×15ml(Default), Angel 10ml×12

1-99min, HOLD

Brushless DC motor

Blood: 3200rpm, 10min Urine: 1800rpm,5min Faecal: 1300rpm, 10min

Automatic internal diagnosis

25s ↑ 35s ↓

Single phase, 100V-240V, 50Hz/60Hz

286×367×227mm

9.2kg

≤60dB(A)

DM0408 Clinical Centrifuge

Features

- Speed range of 300-4000rpm.
- 3 programs storage capacity for routine applications.
- Automatic internal diagnosis.
- Maintenance free brushless DC motor.





Cat. No.19400082 **S6-15** for DM0424

Max. speed: 4000rpm Rotor capacity: 15ml×6 Rotor material: Aluminum alloy Default adaptor: A15P22, A5P17

Cat. No.19400100



S4-50 for DM0424

Max. Speed: 4000rpm Rotor capacity: 50ml×4 Rotor material: Aluminum alloy Default adaptor: A15P30, A5P17

A24-15P Cat. No.19400101 for DM0424

Max. speed: 4000rpm Rotor capacity: $15ml \times 24$

Rotor material: High strength plastic Default adaptor: A15P22, A5P17



Cat. No.19400084 A8-15P

Max. Speed: 4000rpm Rotor capacity:15ml \times 8

for DM0424/DM0408

Rotor material: High strength plastic

Default adaptor: A15P22



A12-10P Cat. No.19200348

for DM0424/DM0408 DM0412/DM0412S

Cat.No. 19200348

Rotor capacity: $15ml \times 8,10ml \times 12$ Rotor material: High strength plastic

Rotor	Capacity	Hole Diameter (mm)
S6-15	15mlx6	22
S4-50	50mlx4	29.4
A24-15P	15mlx24	22
A8-15P	15mlx8	22.6
Δ12-10P	15mlv8/10mlv12	18.6

Available adapters



A15P30

Cat. No.19500024

50ml change 15ml adapter, Adapted to 17×120mm centrifuge tube, 13/16×100mm blood collection tube 4pcs/pk, for S4-50



A15P22

Cat. No.19500021

15ml adapter for 17×120mm centrifuge tube, 13/16×100mm blood collection tube 24 pcs/pk, for S6-15, A24-15P, A8-15P



A5P17

Cat. No.19500022

5ml adapter, Adapted to 13×75mm blood collection tube 24 pcs/pk, for S4-50, S6-15, A24-15P



A2P17

Cat. No.19500023

(Optional)

1.5/2ml Cryogenic Vials/ centrifuge tube adapter, 24 pcs/pk, for S4-50, S6-15, A24-15P, A12-10P, A6-50P

Centrifuge Model	Rotor	Capacity	Hole Diameter (mm)	Hole Depth (mm)	Max. Tube Height (mm)	Max. Speed (rpm)
	S6-15	15mlx6	22	97.7	120.6	4000
DM0424	S4-50	50mlx4	29.4	87.8	125	4000
	A24-15P	15mlx24	22	97.7	120.6	4000
DM0424&DM0408	A8-15P	15mlx8	22.6	90.8	120.3	4000
DIVIU424&DIVIU4U8	A12-10P	15mlx8/10mlx12	18.6	83.4	123	4000



DM0636 Multi-Purpose Low-speed Centrifuge is ideal for the centrifugation of samples in clinical chemistry, cytology, research laboratories, industrial laboratories, etc.

This centrifuge is suitable for tubes with caps, blood collection or urine tubes. Swing-out bucket rotors and adapters can be compatible with standard tubes up to100mL at low speed.

DM0636

Multi-Purpose Low-speed Centrifuge

Features

- Speed can be set from 300-6000rpm
- Maximum capacity of the centrifuge: 100 mLx4
- 9 Acceleration/10 Brake speed settings to ensure optimal separation
- A wide range of rotors optional(fixed angle and swing-out bucket rotors)
- Automatic rotor identification
- Timers can be set up to 99 min or HD for contionous running
- Pulse Key for quick spin function
- 9 procedures stored in memory makes the operation much simplified
- Maintenance-free brushless DC motors



CE FC

Specifications	DM0636		
Speed range	300-6000rpm increment:10rpm		
Max. RCF	4020xg		
Speed accuracy	±20rpm		
Max. Capacity	100mLx4		
Run Time	30sec-99mins/continuous		
Motor	Brushless DC		
Display	LCD		
Program Memory	9		
Safety Devices	Door Imbalance protection Over speed & Over temperature detection		
Acceleration/Deceleration	9 ↑ /10 ↓ steps		
Power	660W; Single-phase AC220V-240V, 50Hz/60Hz, 6.3A; AC110V-120V,50Hz/60Hz,10A		
Dimension[WxDxH]	445x579x269mm		
Weight	36kg		
Certification	CE		
Advanced features	speed/rcf switch; Rotor identification		



Uncapping block

for S4-100 rotor



Max. speed: 4000rpm Max. RCF: 2950×g

Rotor material: stainless steel body and adapter



A15V

Cat. No. 19500025

15ml conical tube adapter, MOQ 8 Pcs (optional)







19400044





19400043



19400042



						1					
bucket	x 4										
tube	х	36		x 16		x 8	x 4	x 4	x 4	x 8	x 20
Nominal volume	3-7	'mL	10mL	12mL	15mL	50mL	100mL	85mL	50mL	15mL	3-7mL
φ×L mm	13×75	13×100	16×100	17×105	17×120	29.5×100	38×108	38×104	29.5×100	17×120 13×100 13×75	13×100 13×75
tube											
adapter	with plug					6 A50V	A100	0P80	A100P50 A50V	A100P15	(i) A100P10
Package	36	+				8		4	4	8	4
Tubes per rotor	36	36	16	16	16	8	4	4	4	8	20
Radius(cm)	14	16.5	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.1	14.7

Max RCF

(g-force)

2500

2950

2840

2840

2840

2840

2840

2840

2840

2700

2630



S2-MP

DM0636

Max. speed: 4000rpm Max. RCF: 2200×g

Rotor capacity: Micro-plates 384-PCR/96-PCR/Elisa

plates×8pcs; Deep well plates×4pcs

Rotor material: stainless steel body and aluminum buckets



AS12-PCR8

DM0636

Max. speed: 6000rpm Max. RCF: 4020×g

Rotor capacity: PCR 8 trips×12 Rotor material: aluminum

Biosealing: Yes



AS30-2

DM0636

Max. speed: 6000rpm Max. RCF: 4020×g Rotor capacity: 2mL×30 Rotor material: aluminum

Biosealing: Yes



Cat. No. 19400062

Cat. No. 19400036



AS60-2

DM0636

Max. speed: 6000rpm Max. RCF: 4020×g Rotor capacity: 2mL×60 Rotor material: aluminum

Biosealing: Yes

Cat. No. 19400037



AS6-50V (cone botton)

DM0636

Max. speed: 6000rpm Max. RCF: 4020×q

Rotor capacity: 50mL×6 or 15mL×6

Rotor material: aluminum

Biosealing: Yes



AS18-5V (cone botton) Cat. No. 19400035

Cat. No. 19400038

DM0636

Max. speed: 6000rpm Max. RCF: 4020×g Rotor capacity: 5mL×18

Rotor material: stainless steel body and aluminum buckets

Biosealing: Yes



A8-50 (round botton) **Cat. No.** 19400039

DM0636

Max. speed: 5000rpm Max. RCF: 3960xg

Rotor capacity: 50mL×8 or 15mLx16

Rotor material: aluminum body and stainless steel adapter

Default adapters: SE100P31x8,SE100P17x6



A30-15 (round botton) Cat. No. 19400040 DM0636

Max. speed: 4500rpm Max. RCF: 3210xg

Rotor capacity: 15mL×30

Rotor material: aluminum body and stainless steel

adapter Bio-safe(Biosealing): Yes Default adapters: SE100P17x30

Rotor	Capacity	Hole Diameter (mm)	Hole Depth (mm)	Max. Tube Height (mm)	Max. Speed (rpm)
AS30-2	2mlx30	11.2	39	43	6000
AS60-2	2mlx60	11.2	39	43	6000
AS6-50V	50mlx6	31	87.8	118	6000
AS18-5V	5mlx18	17.5	51	56	6000
A8-50	50mlx8	35	85.8	118	5000
A6-50	15mlx16	17.5	98	123	5000
A30-15	15mlx30	17.5	98	123	4500
S2-MP	Micro platex8/ Deep well platex4	-	-	-	4000





Vortex Mixers are ideal instruments for mixing liquid components in tubes, resuspension of cells, using an eccentric mechanism. They are widely used in biological and chemical analysis applications.

MX-S

Vortex Mixer

MX-F

Vortex Mixer

Features

- Touch operation or continuous mode
- Variable speed control from 0 to 2500rpm (MX-S)
- Fixed Speed 2500rpm (MX-F)
- Used for various mixing applications with optional adapters (MX-S)
- Specially designed vacuum suction feet for body stablility
- Robust aluminum-cast construction





Wide range of accessories

Specifications	MX-S (Adjustable speed)	MX-F (Fixed speed)
Voltage	100-120V/200- 240V,50/60Hz	100-120V/200- 240V,50/60Hz
Power	60W	60W
Mixing motion	Orbital	Orbital
Orbital diameter	4mm	4mm
Motor type	Shaded pole motor	Shaded pole motor
Motor rating input	58W	58W
Motor rating output	10W	10W
Speed range	0-2500rpm	2500rpm
Speed display	Scale	-
Run type	Touch operation/ Continuous	Touch operation/ Continuous
Dimension[W×H×D]	127×130×160mm	127×130×160mm
Weight	3.5kg	3.5kg
Permissible ambient temperature	5-40°C	5-40°C
Permissible relative humidity	80%RH	80%RH
Protection class	IP21	IP21



VT1.1 Standard top (Default)

for <Ø30mm tubes and small vessels

Cat. No.18900034





MX-E

Economic Vortex Mixer

Features

- For small amount of sample mix
- Touch operation
- Fixed speed: 3000rpm
- Small and beautiful
- DC brushless motor, stable performance



Power	CLII	nnlv	· [\/Δ(\sim 1

Specifications

Frequency [Hz]

Power [W]

Mixing motion

Revolving diameter [mm]

Motor rating output[W]

Rotational speed [rpm]

Operating mode

External dimension [mm]

Dimension of packing box [mm]

Weight [kg]

Allowable environment temperature [°C]

Permissible Ambient Temperature

Protection class

МХ-Е

100-240

50/60

12

Orbital

4.8

10

3000

Inching

133×133×80

250×185×130

0.6

5-40

≤80%RH

IP21





VT1.2 Tube holding rod

used with tube adapters **Cat. No.** 18900044

VT1.3 Universal top plate

Ø 100mm

Cat. No.18900505





VT1.3.1 tube adapter

for 48 holes test tubes, Ø6mm (1ml) Cat. No.18900020





VT1.3.2 tube adapter

for 15 holes test tubes, Ø10mm (1.5ml-2ml) Cat. No.18900021





VT1.3.3 tube adapter

for 16 holes test tubes, Ø12mm (5ml) Cat. No.18900022





VT1.3.4 tube adapter

for 8 holes test tubes, Ø16mm (10ml) Cat. No.18900023





VT1.3.5 tube adapter

for 8 holes test tubes, Ø20mm (10ml-15ml) Cat. No.18900024



VT1.3.6 Platform pad

for <Ø99mm tubes and small vessels Cat. No.18900043





Application of accessories

Accessories

Adjustable speed model (0-2500rpm)

	Touch mode (High speed area)	Continuous mode (Low speed area)
VTI.1	Υ	Υ
VTI.2 + VT1.3.1	Y	
VTI.2 + VT1.3.2	Y	
VTI.2 + VT1.3.3	Y	
VTI.2 + VT1.3.4	Υ	
VTI.2 + VT1.3.5	Υ	
VTI.3 + VT1.3.6	Υ	
VTI.3 + VT1.3.1		Υ
VTI.3 + VT1.3.2		Υ
VTI.3 + VT1.3.3		Υ
VTI.3 + VT1.3.4		Υ
VTI.3 + VT1.3.5		Υ



VT1.3.7 vacuum chuck

made of rubber Cat. No.18900158



MVM25

Multi-tube Vortex Mixer

Multi-tube vortex mixer can mix up to 50pcs samples at one time, optional for different types adapters with various sizes. User friendly operation for timing/ continuous/touch motion modes.

3 working modes



timing



continuous



touch

Various foam adaptors:



















Specifications

Speed range Orbital diameter Speed accuracy Timer Max. load Motor

Working mode Top cover size Power

Voltage:

Fuse protector Dimension Weight

MVM25

500-2500rpm 4mm

±1rpm

1s-9999min

5kg

DC Brushless

Touch/Continous

W.184×L.311mm

60w

AC 100-230V, 50/60HZ

250V,1AΦ5×20

W.250×D.426×H.480mm

5kg

Adapters

Description						
Ф10mm tube adapter						
	Ф12mm tube adapter					
	Ф13mm tube adapter					
	Ф16mm tube adapter (15ml tube)					
	Ф25mm tube adapter					
	Ф29mm tube adapter (50ml tube)					
	Ф38mm tube adapter (100ml tube)					
	Bottom Work plate ⊤ cover					
	Ollmm acrylic tube adapter (15/2 0ml micro tubes)					

 Φ 11mm acrylic tube adapter (1.5/2.0ml micro tubes)

Hole Number
50
50
50
50
15
15
10
/
40

Size
W.245×D.132×H.45mm
W.305×D.178.5×H.25mm
W.169×D.84×H.41mm

Microplate Mixer is used for holding single or double microplates. The compact shape of MX-M Microplate Mixer occupies less bench space and makes the storage easier. It is widely used in life sciences including microbiology, cell and molecular biology, immunology and biotechnology.

Brushless DC motor



Wide range of accessories

MX-M

Microplate Mixers

Features

- A wide range of speed from 0 to 1500rpm
- Used for various mixing applications with optional adapters
- Maintenance-free brushless DC motor







PS1.2 Microplate clamp(Defaut)
Cat. No.18900042



PS1.1 Universal top plate

Used with tube adapters **Cat. No.**18900067



VT1.3.1 tube adapter

for 48 holes test tubes, Ø6mm Cat. No.18900020



VT1.3.2 tube adapter

for 15 holes test tubes, Ø10mm Cat. No.18900021



VT1.3.3 tube adapter

for 12 holes test tubes, Ø12mm Cat. No.18900022



VT1.3.4 tube adapter

for 8 holes test tubes, Ø16mm Cat. No.18900023



VT1.3.5 tube adapter

for 8 holes test tubes, Ø20mm Cat. No.18900024



MXM-116

Double microplate clamps **Cat. No.**18900079



Shaking movement
Orbital diameter
Max. shaking weight
(with accessory)
Motor type

Motor rating input
Motor rating output

Speed range

Speed display Voltage Power Dimension

Weight
Permissible ambient
temperature and humidity
Protection class

MX-M

Orbital 4.5mm

0.5kg Brushless DC motor

18W 10W Single microplate: 0-1500rpm Double microplate: 0-1000rpm

Scale 100-240V,50/60Hz

20W 260×150×80mm 3kg

5-40°C,80%RH

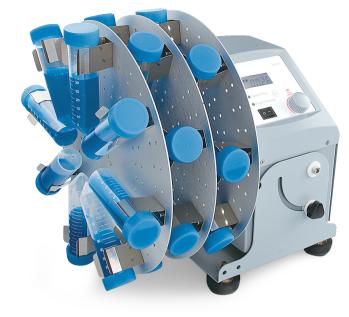
IP21

Rotators give gentle but effective mixing of biological samples held in 1.5mL to 50mL tubes, and are used in a variety of applications including immune precipitations, prevention of blood coagulation, latex diagnostics, etc.

MX-RD-Pro LCD Digital Rotator

Features

- Electronic adjustment of speed and time
- LCD display of speed and time
- Speed range from 10 to 70rpm
- Rolling action, gives gentle but effective mixing
- Adjustable mixing angle from 0 to 90°
- A wide variety of accessories are available



MX-RD-E

Economical Rotator

Features

- Provides gentle and effective mixing of biological samples
- Adjustable speed range from 0 to 80rpm
- A wide variety of accessories are available



LCD display



Adjustable angle



Wide range of accessories





Specifications	MX-RD-Pro	MX-RD-E
Motor type	DC motor	DC motor
Tilt angle	0-90°	-
Speed range	10-70rpm	0-80rpm
Speed display	LCD	Scale
Timer display	LCD	Scale
Timer	1-1199min	-
Operation mode	Continuous / timer	Continuous
Voltage	100-240V, 50/60Hz	100-240V, 50/60Hz
Power	40W	20W
Dimension [D×W×H]	280×210×300mm	300×220×310mm
Permissible ambient temperature and humidity	5-40°C, 80%RH	5-40°C, 80%RH
Protection class	IP21	IP21

MX-RL-Pro LCD Digital Rotator

Features

- Electronic adjustment of speed and time
- LCD display speed and time
- Speed range from 10 to 70 rpm
- Provides gentle but effective rolling
- A wide variety of accessories are available



Economical Rotator

Features

- Provides gentle but effective rolling
- Adjustable speed range from 0 to 80 rpm
- A wide variety of accessories are available



LCD display



Wide range of accessories





Specifications	MX-RL-Pro	MX-RL-E
Motor type	DC motor	DC motor
Speed range	10-70rpm	0-80rpm
Speed display	LCD	Scale
Timer display	LCD	Scale
Timer	1-1199min	-
Operation mode	Continuous/timer	Continuous
Voltage	100-240V, 50/60Hz	100-240V, 50/60Hz
Power	40W	20W
Dimension[D×W×H]	220×510×260mm	150X530X190mm
Permissible ambient temperature and humidity	5-40°C,80%RH	5-40°C,80%RH
Protection class	IP21	IP21





Disk Accessories Type-1

Used for MX-RD-Pro for 1.5mLx60 centrifuge tubes holder

Cat. No.

18900160



Disk Accessories Type-2

Used for MX-RD-Pro for 15mLx16 centrifuge tubes holder

Cat. No.

18900161





Disk Accessories Type-3

Used for MX-RD-Pro for 50mLx8 centrifuge tubes holder

Cat. No.

18900162



Disk support rods

4pcs in a group use with disk accessories

Cat. No.

18900140



Rotisserie Accessory Type-1

Rotisserie Accessory Type-3

Used for MX-RL-Pro, for 50mLx24 centrifuge tubes held horizontally

Used for MX-RL-Pro, for 1.5mLx48 centrifuge tubes held horizontally

Cat. No.

18900142

Cat. No.

18900144



Rotisserie Accessory Type-2

Used for MX-RL-Pro, for 15mLx24 centrifuge tubes held horizontally

Cat. No.

18900143



Rotisserie Accessory Type-4

Used for MX-RL-Pro, for 1.5mLx32

Cat. No.



centrifuge tubes held vertically

18900145



Rotisserie Accessory Type-5

Used for MX-RL-Pro, for 15mLx16 centrifuge tubes held vertically

Cat. No.

18900146



Rotisserie Accessory Type-6

Used for MX-RL-Pro, for 50mLx16 centrifuge tubes held vertically

Cat. No.

18900147



Plastic Clips

Used with MX-RL-E/MX-RD-E Disk/Rotisserie accessory, for 50mL, 15mL and 1.5mL centrifuge tubes

The rocking rotators combine the advantages of the long axis rotator and the rocking shaker. Compared with the rocking shaker, it can provide a greater tilt angle, for better performance in some clinical laboratory applications (such as the mixing of blood samples in vacuum blood vessels). At the same time, the series minimizes redundant functional settings for straighter and simpler user operation under clinical conditions.

SK-R30S-E Short Deck Rocking Rotator

Features

• It can accommodate up to $10 \times 5 \sim 10$ ml blood vessels, or 4×50 ml tubes, with different silicon mattress accessories.





SK-R30L-E Long Deck Rocking Rotator

Features

• It can accommodate up to 16 × 5~10ml blood vessels, or 6× 50ml tubes, with different silicon mattress accessories.

SK-R30D-E

Long Deck Double Layer Rocking Rotate

Features

- It can accommodate up to 16 x 5~10ml blood vessels, or 6x 50ml tubes on each of the two layers with different silicon mattress accessories.
- Tilt angle up to 40°.







Specifications	SK-R30S-E	SK-R30L-E	SK-R30D-E
Tilt angle	30±3°	30±3°	40±3°
Load capacity	1kg	1kg	1kg
Motor type	Brushless DC motor	Brushless DC motor	Brushless DC motor
Speed range[rpm]	0~30	0~30	0~30
Operation mode	Continuous	Continuous	Continuous
Dimension (W×D ×H)	295×160×120mm	405×160×120mm	405×160×160mm
Voltage	100~240V, 50/60Hz	100~240V, 50/60Hz	100~240V, 50/60Hz
Power	15W	15W	15W
Weight	1.8kg	2kg	2.2kg
Permissible ambient temperature and humidity	5~40°C, 80%RH	5~40°C,80%RH	5~40°C,80%RH

Accessories Information

Cat. No.18202835



Silicone mattress for 16x 5~10ml blood collection tubes on long decks (SK-R30L-E&SK-R30D-E)

Cat. No.18202852

Silicone mattress for 10× 5~10ml blood collection tubes on short decks (SK-R30S-E)



Cat. No.18202846

Silicone mattress for 6× 50ml test tubes on long decks (SK-R30L-E&SK-R30D-E)



Cat. No.18202853 Silicone mattress for 4× 50ml test tubes on short decks (SK-R30S-E)

MX-T6-Pro

LCD Digital Tube Roller

Features

- LCD displays the speed and time
- Speed range of 10-70rpm
- Six roller design for gentle rolling and easy to clean
- Continuous or timer operation

MX-T6-S

Tube Roller

Features

- Speed range of 0-70rpm
- Six roller design for gentle rolling and easy to clean



Tube rollers provide a gentle and highly efficient rolling motions, ideal for mixing blood samples, viscous substances and liquid-solid suspensions. Used in a variety of applications, such as the prevention of blood coagulation, immune precipitation, etc.



LCD display



Timer





MX-T6-S

24mm

DC motor

Rocking and rolling

4kg

280mm 0-70rpm Scale

Continuous 100-240V,50/60Hz 25W 450×260×120mm 4.5kg 5-40°C,80%RH

Specifications	MX-T6-Pro
Amplitude	24mm
Motor type	DC motor
Rocking motion	Rocking and rolling
Max. load capacity	4kg
Number of rollers	6
Roller size[length]	280mm
Speed range	10 -70rpm
Speed display	LCD
Timer	Yes
Timer display	LCD
Time setting range	1-1199min
Operation mode	Continuous/timer
Voltage	100-240V,50/60Hz
Power	30W
Dimension [D×W×H]	450×260×120mm
Weight	5.1kg
Permissible ambient temperature and humidity	5-40°C,80%RH
Protection class	IP21

Orbital and linear shakers are ideal for almost any vessel from microcentrifuge tubes through petri dishes and microtitre plates to conical flasks.



SK-O330-Pro SK-O180-Pro LCD Digital Orbital Shaker

Features

- Max. load capacity is 7.5kg(O330) and 2.5kg(O180) with platform
- Double LCDs for independent display of time and speed
- Used with a wide variety of accessories
- Maintenance- free brushless DC motor
- Over speed detection and protection
- Remote function provides PC control and data transmission



Timer



Wide range of accessories

SK-0180-S LED Digital Orbital Shaker

- Max.load capacity is 3kg with platform
- Double LEDs for independent display of time and speed
- Speed range of 40-200rpm
- Wide range of platforms for use with a variety of vessels









SK-O180-Pro



•
Orbital diameter
Max. load capacity (with platform)
Motor type
Motor input power
Motor output power
Speed range
Speed display
Timer display
Time settings range
Voltage
Power
Weight
Permissible ambient temperature and
humidity
Dimension[W×D×H]
Protection class

Data connector

Specifications

3K-0330-110
10mm
7.5kg
Brushless DC motor
28W
15W
100-500rpm
LCD
LCD
1min-19h59min
100-240V,50/60Hz
30W
13.5kg
5-40°C, 80%RH
370×420×100mm
IP21
RS232

4mm
2.5kg
Brushless DC motor
28W
15W
100-800rpm
LCD
LCD
1min-19h59min
100-240V,50/60Hz
30W
8.1kg
5-40°C, 80%RH
300×340×100mm
IP21
RS232

SK-O180-S
20mm
3kg
DC motor
16W
10W
40-200rpm
LED
LED
1min-19h59min
100-240V,50/60Hz
20W
3.1kg
5-40°C,80%RH
270×330×110mm
IP21
-



SK-0330-M

Fixed Top LCD Digital Orbital Shaker

Features

- Max. load capacity 3kg;
- Independent LCD display for speed and time:
- Speed and time value can be altered during running;
- Maintenance-free brushless DC motor;
- Foot screws height can be adjusted to make sure stable running;
- Continuous or timing mode optional.





IP21

Protection class







SK-L330-Pro SK-L180-Pro

LCD Digital Linear Shaker

Features

- Max. load capacity is 7.5kg(L330) and 2.5kg(L180) with platform
- Double LCDs for independent display of time and speed
- Wide range of platforms for use with a variety of vessels
- Maintenance- free brushless DC motor
- Over speed detection and protection



Timor



Wide range of accessories

SK-L180-S

LED Digital Linear Shaker

- Max. load capacity is 3kg with platform
- Double LEDs for independent display of time and speed
- Speed range of 40-200 rpm
- Wide range of platforms for use with a variety of vessels













Specifications	SK-L330-Pro	SK-L180-Pro	SK-L180-S
Amplitude	10mm	4mm	20mm
Max. load capacity (with platform)	7.5kg	2.5kg	3kg
Motor type	Brushless DC motor	Brushless DC motor	DC motor
Motor input power	28W	28W	16W
Motor output power	15W	15W	10VV
Speed range	100-350rpm	100-350rpm	40-200rpm
Speed display	LCD	LCD	LED
Timer display	LCD	LCD	LED
Time settings range	1min-19h59min	1min-19h59min	1min-19h59min
Voltage	100-240V, 50/60Hz	100-240V, 50/60Hz	100-240V, 50/60Hz
Power	30W	30W	20W
Weight	13.5kg	8.1kg	3.1kg
Permissible ambient temperature and humidity	5-40°C, 80%RH	5-40°C, 80%RH	5-40°C, 80%RH
Dimension[W×D×H]	370×420×100mm	300×340×100mm	270×330×110mm
Protection class IP21		IP21	IP21
Data connector RS232		RS232	-

Rocking and 3D shakers provide perfect solution in electrophoresis gel dyeing/discoloration, sample washing, molecular hybridization, immunoprecipitation, Western blot and cell culture.

SK-R330-Pro

LCD Digital Rocking Shaker

Features

- Rocking motion angle 9°
- Max. load capacity is 10kg with platform
- Speed range of 10-70rpm
- Double LCDs for independent display of time and speed
- Wide range of platforms for use with a variety of vessels





Timer



Wide range of accessories

SK-R1807-S

LED Digital Rocking shaker

- Rocking motion angle 7°
- Max. load capacity is 3kg with platform
- Speed range of 10-80rpm
- Double LEDs for independent display of time and speed
- Wide range of platforms for use with a variety of vessels









Specifications	SK-R330-Pro	SK-R1807-S
Tilt angle	9°	7°
Max. load capacity (with platform)	10kg	3kg
Motor type	DC motor	DC motor
Motor input power	40W	16VV
Motor output power	24W	10W
Speed range	10-70rpm	10-80rpm
Speed display	LCD	LED
Timer display	LCD	LED
Time settings range	1min-19h59min	1min-19h59min
Voltage	100-240V, 50/60Hz	100-240V, 50/60Hz
Power	50W	20W
Weight	9kg	3.2kg
Permissible ambient temperature and humidity	5-40°C, 80%RH	5-40°C, 80%RH
Dimension[W×D×H]	360×410×200mm	270×330×130mm
Protection class	IP21	IP21



SK-D3309-Pro

LCD Digital 3D Shaker

Features

- Three-dimensional rocking motion with an angle of 9°
- Max. load capacity is 5kg with platform
- Speed range of 10-70rpm
- Double LCDs for independent display of time and speed
- Various of platform accessories





Timer



Wide range of accessories



SK-D1807-S

LED Digital 3D Shaker

- Three-dimensional rocking motion with the angle of 7°
- Max. load capacity is 3kg with platform
- Speed range of 10-80rpm
- Double LEDs for independent display of time and speed
- Various of platform accessories







Specifications	SK-D3309-Pro	SK-D1807-S	
Tilt angle	9°	7°	
Max. load capacity (with platform)	5kg	3kg	
Motor type	DC motor	DC motor	
Motor input power	40W	16W	
Motor output power	24W	10W	
Speed range	10-70rpm	10-80rpm	
Speed display	LCD	LED	
Timer display	LCD	LED	
Time settings range	1min-19h59min	1min-19h59min	
Voltage	100-240V, 50/60Hz	100-240V, 50/60Hz	
Power	50W	20W	
Weight	9kg	2.7kg	
Permissible ambient temperature and humidity	5-40°C, 80%RH	5-40°C, 80%RH	
Dimension[W×D×H]	360×430×106mm	270×330×130mm	
Protection class	IP21	IP21	
Data connector	-	-	





Spectrophotometer

SP-V1000/SP-UV1000/SP-V1100/ SP-UV1100

The spectrophotometer is an indispensable instrument routinely used in colleges, universities and research institutes for quantitative analysis in fields including biotechnology and quality control of new material developed. V-Series provide high resolution, high performance and excellent stability.

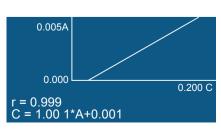
Features

- **User Friendly Operation and Information Rich LCD Display:** The large 128 x 64 dots, backlit LCD screen with adjustable brightness control displays a large array of data also in graphical format
- On-Board Data Storage: The System can save the test results, up to 200 group datas and 200 standard curves in the RAM memory
- Data can be restored after a sudden power failure
- Auto setting wavelength: Setting wavelength automatically to calibrate the system through arrow keys to avoid operation errors
- **Automatic Switching:** Tungsten& Deuterium lamps switching is automatic. Wavelength range are selectable from 190 to 1100nm
- **PC control through application software:** The spectrophotometer is fully equipped and capable of executing all functions in stand-alone mode. The optional application software **'Wave Professional'** provides computer control through the built-in USB port, apart from other functions such as spectrum scan, time scan(kinetics), multiwavelength scanning & Nucleic Acid / Protein measurement. (SP-V1100/SP-UV1100)
- Large sample compartment: To accommodate 5–100mm path length cuvettes with optional holders. A variety of optional accessories are available

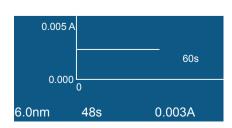
Basic Mode

546.0	nm	0.001A
No.	WL.	Abs.
1	230.0	0.001
2	340.0	0.000
3	450.0	0.002
4	540.0	0.000
5	620.0	0.003

Quantitative



Kinetics













Model	SP-V1000	SP-UV1000	SP-V1100	SP-UV1100
Optical System	Single Beam	Single Beam	Single Beam	Single Beam
Light Source	Tungsten lamp	Tungsten lamp & Deuterium lamp	Tungsten lamp	Tungsten lamp &Deuteri- um lamp
Spectral Bandwidth	4.0nm	4.0nm	2.0nm	2.0nm
Wavelength Range	325-1000nm	200-1000nm	320-1100nm	190-1100nm
Wavelength Accuracy	±2nm	±2nm	±0.5nm	±0.5nm
Wavelength Repeatability	≤1nm	≤1nm	≤0.3nm	≤0.3nm
Photometric Range	-0.3 - 3.0 A, 0 - 200%T	-0.3 - 3.0 A, 0 - 200 %T	-0.3 - 3.0 A, 0 - 200 %T	-0.3 - 3.0 A, 0 - 200%T
Photometric Accuracy	±0.003 A @ 0.5 A, ±0.006 A @ 1.0 A, ±0.5%T @ 100%T	±0.003 A @ 0.5 A, ±0.006 A @ 1.0 A, ±0.5%T @ 100%T	±0.002 A @ 0.5 A, ±0.004 A @ 1.0 A, ±0.3%T @ 100%T	±0.002 A @ 0.5 A, ±0.004 A @ 1.0 A, ±0.3%T @ 100%T
Photometric Repeatability	≤0.0015 A @ 0.5 A, ≤0.003 A @ 1.0 A, ≤0.25%T @ 100%T	≤0.0015 A @ 0.5 A, ≤0.003 A @ 1.0 A, ≤0.25%T @ 100%T	≤0.001 A @ 0.5 A, ≤0.002 A @ 1.0 A, ≤0.15%T @ 100%T	≤0.001 A @ 0.5 A, ≤0.002 A @ 1.0 A, ≤0.15%T @ 100%T
Stability	≤0.002 A/h @ 500 nm (after preheat 2 hours)	≤0.002 A/h @ 500 nm (after preheat 2 hours)	≤0.002 A/h @ 500 nm (after preheat 2 hours)	≤0.002 A/h @ 500 nm (after preheat 2 hours)
Stray Light	≤0.2%T@ 360nm	≤0.2%T@220&360nm	≤0.05%T@ 360nm	≤0.05%T @ 220 & 360nm
Sample Compartment	4-position, 10mm pathlength cuvette	4-position, 10mm pathlength cuvette	4-position, 10mm pathlength cuvette	4-position, 10mm pathlength cuvette
Display	LCD	LCD	LCD	LCD
Output	USB Port & Parallel Port (Printer)	USB Port & Parallel Port (Printer)	USB Port & Parallel Port (Printer)	USB Port & Parallel Port (Printer)
Power	110/220VAC, 50/60Hz, 80W	110/220VAC, 50/60Hz, 120W	110/220VAC, 50/60Hz, 80W	110/220VAC, 50/60Hz, 120W
Dimension(L×W×H)	490×360×210mm	490×360×210mm	490×360×210mm	490×360×210mm
Weight	12kg	14kg	12kg	14kg



Cat. No. 18900337 Micro Cell holder



Cat. No. 18900340 8-position auto cell changer (for SP-V1100&SP-UV1100)



Cat. No. 18900331 4-cell holder for 10mm squ.cuvette



Cat. No. 18900332 4-cell holder for 10mm to 50mm squ. cuvette



Cat. No. 18900333 4-cell holder for up to 100mm squ.cuvette



Cat. No. 18900338 Test tube holder(ø8-ø22mm)



Cat. No. 18900334 cylindrical cell holder(ø16mm)



Cat. No. 18900339 solid sample holder (Ø1.5-3mmØ1 position)



Cat. No. 18900335 10mm water-jacketed 1 cell holder (for SP-V1100 & SP-UV1100)



Cat. No. 18900336 10mm water-jacketed 4-cell holder (for SP-V1100 & SP-UV1100)



Square cuvettes glass/quartz 1-5mm/10-100mm

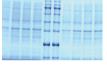


Cat. No. 18900341 12V20W halogen lamp



Cat. No. 18900342 Milas deuterium lamp,10V,300mA, 30W (for SP-UV1000&SP-UV1100)







ECO Safe staining

Coomassie blue stained SDS-PAGE

colony dish image

Simple assemble



GeISMART

The GelSMART gel imaging system can be used for qualitative analysis of nucleic acid and protein in purification and /or separation application, or colony counting application.

Functions & Applications

GelSMART facilitates fast access to acquire highquality images of electrophoresis gel or transfer membrane for analysis using smartphone/ tablet. With epi-blue instead of ultraviolet light source, GelSMART is able to safely and efficiently visualize stained DNA signals after gel electrophoresis.

In addition, Coomassie blue stained SDS-PAGE and colony dishes can be observed with the light plate mounted on the GelSMART.

Optionally you can control the complete imaging system via an app on your smartphone or tablet.

- Compact foot print with a field of 10×10cm
- Simple operation of experiments and quick acquisition of results
- Epi-blue light diminishes UV exposure to lab personnel and DNA damage in the sample
- Adjustable epi-blue light source emits light with high intensity and minimum heat for better light control
- Filter holders can accommodate most popular smartphones/tablets
- Optional light-weight app



Applications:



Light source cover



Light source







Арр

Observe and cut gels safe and sound with the amber filter shield



Specifications	GelSMART
Light Source	470nm epi blue light
White Light Plate	Yes
Filter Protective Shield	Amber, using when observing or cutting gels
Viewing Area	10 x 10cm
Compatible Dye	DNA: ECO Safe, SYBR Safe, GelGreen Protein: Lightning Red, Silver/ Coomassie blue, SYPRO Ruby
Light Source (L x W x H)	216 x 168 x 54 mm
Light Source Cover (L x W x H)	211 x 161 x 108 mm
Total Size (L x W x H)	216 x 168 x 128 mm
Weight	1.2 Kg
Power Supply	12V / 1.5A AC power adapter
Optional app	for Android 4.4 and above or iOS9.0 and above





Infrared sterilizers are designed for short time sterilization of laboratory equipments like inoculating loop, inoculated needles, tweezers and other small items with high temperature. These can also be used for the low temperatures with long time sterilization to prevent contamination.

ST800-S / ST800-E ST800-SA / ST800-EA

Infrared Sterilizer

- Sterilizers are reating fast, convenient and can replace alcohol lamps and bunsen burners
- Sterilization is completed within 5-7 seconds
- Very safe to operate with no visual fire. It is only ashing the organic matter in the depths of ceramic heating body and preventing cross contamination
- LED display actual temperature with temp. control accuracy is 10°C
- These can be used in biology safety cabinets and clean bench space
- Precise temperature control precision and adjustable from 300 - 830°C
- Heating zone angle adjustable(ST800-SA/EA)
- Optional bracket support for inoculate loop or needle instead of holding them by hand

Specifications	ST800-S	ST800-E	ST800-SA	ST800-EA
Display	LED	/	LED	/
Temperature range [°C]	300~830	830	300~830	830
Central zone max temperature [°C]	825±50	825±50	825±50	825±50
The heating zone adjustable angle	/	/	0-40°	0-40°
Max. outer diameter of sterilized items [mm]	15	15	15	15
The total length of heating area [mm]	140	140	140	140
Heating tube	Ceramic	Ceramic	Ceramic	Ceramic
Shell	ABS	ABS	ABS	ABS
Dimensions [LxWxH] (mm)	180x120x217	180x120x217	180x120x186	180x120x186
Weight[kg]	1.5	1.5	1.5	1.5
Voltage[V]	220V, 50/60Hz	220V, 50/60Hz	220V, 50/60Hz	220V, 50/60Hz
Power[W]	190	190	190	190
Working temperature [°C]	-10~40	-10~40	-10~40	-10~40
Working humidity [% RH]	<80	<80	<80	<80
Storage temperature [°C]	-40~60	-40~60	-40~60	-40~60
Storage humidity [% RH]	10~90	10~90	10~90	10~90