



Company Profile

DLAB Scientific Co., Ltd, known as Dragon Lab - founded in 2002, is now one of the leading companies worldwide for high quality laboratory instruments and equipment for chemical, biological and clinical diagnostical labs.

All our products are designed and manufactured in accordance with ISO9001/13485 by our dedicated and experienced R&D Engineering team. Our quality control processes start from the metal processing all the way through to the final inspections of the end products and adhere to worldwide accepted quality standards.

With growing international presence and to create a new corporate identity, we have created a new brand "DLAB". Consequently, Dragon Laboratory Instruments changed to DLAB Scientific, the original manufacturer of bench top equipments. DLAB has subsidiaries in USA as DLAB Scientific Inc., in Europe as DLAB Scientific S.A.S and in India as DLAB Scientific Private Limited.

DLAB Scientific is committed to become a one-stop partner for distributors worldwide with a growing range of general laboratory instruments. Our products are characterized by reliability, high accuracy and have a highly competitive value along with skilled application and after-sales support.

Our brands include: DRAGONLAB^M, DLAB^M, DRAGONMED^M, DRAGON^M and so on.

"DLAB, your accessible solution"



www.dlabsci.com

Contents



DLAB products are manufactured in accordance with ISO9001 and ISO13485. All products comply with EU and North America standards, CE, cTÜVus, FCC marked and subjected to the strict QC control.

DLAB instruments are tested and conform to the following safety and EMC standards:

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



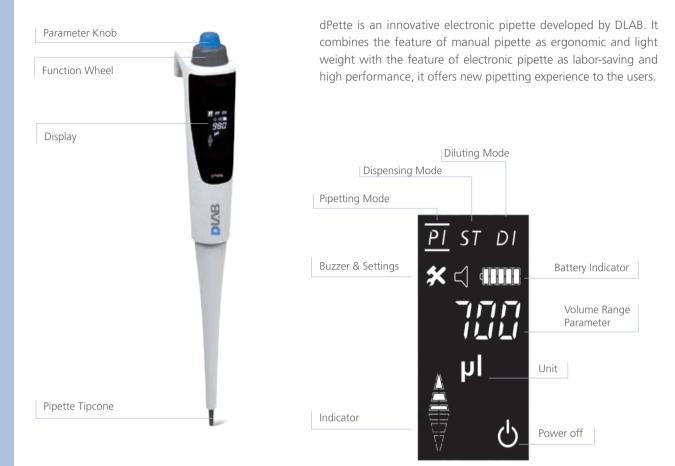
	Volume Range	Increment	Test	Error limits in accordance to ISO8655-2			
Channels	volume kange	increment	Volume	accuracy error		precision error	
Channels	μL	μL	μL	μL	%	s.d.*µL	CV%*
1	0.5-10	0.01	10	±0.10	±1.00	0.05	0.50
I	1 0.5-10		1	±0.035	±3.50	0.03	3.00
1	5-50	0.1	50	±0.40	±0.80	0.15	0.30
I	06-6	0.1	5	±0.15	±3.00	0.125	2.50
1	30-300	1	300	±1.80	±0.60	0.60	0.20
I	1 30-300	I	30	±0.90	±3.00	0.21	0.70
1	100 1000	100-1000 5	1000	±6.00	±0.60	2.00	0.20
1 100-	100-1000		100	±3.00	±3.00	0.60	0.60

Specifications

* s.d. = Standard Deviation

*CV = Coefficient of Variation

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







MicroPette plus



121°C

FULLY

DUNB

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



- 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



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.

NATEOOSTEM.

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.



MicroPette



Features

- 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



121°C HALF Autoclavable • 8 and 12 channel pipettes are appropriate • Dispensing head rotates for effortless • Individual piston and tip cone assemblies allowing easy repair and maintenance • Compound material-made tip cone se-

- cures high sealing performance • Compatible with most universal tip brands
- Online calibration is available

MicroPette

for 96 well plates

pipetting convenience

Features

multi-channel





8 channels

Calibration

All DLAB 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 www.dlabsci.com allows users to access DLAB online calibration software and achieve accurate and timely calibration.

Online calibration software is FREE to DLAB pipette users

Specifications

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

Single-channel Adjustable Volume Pipettes									
			Error limits in accordance 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	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	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			
		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			

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

8-channel Adjustable Volume Pipettes								
Volume			Error limits in accordance with ISO8655-2					
Range	Increment	Test Volume	(Accura	cy error)	(Precision error)			
			%	μL	%	μL		
	·	10µL	1.50%	0.15	1.50%	0.15		
0.5-10µL 0.1µL	0.1µL	5µL	2.50%	0.125	2.50%	0.125		
		1µL	4.00%	0.04	4.00%	0.04		
		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		
		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		

TITTE I

12-channel Adjustable Volume Pipettes

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

Fixed Volume Pipettes

Volume			Error limits in accordance with ISO8655-2					
Range	Increment	Test Volume	(Accuracy	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		

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

10-10011

Levo Plus

Pipette Filler

Features

- Compatible with most of the 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 +/-

DIAB Levo Plus

Aspiration operation buttons

Operating button for motor and gravity dispensing

Hydrophobic filter 0.45µm

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



Specifications

Aspiration Speed	25mL<5s (6 shift)
Dispensing Speed	Motor (6 shift)/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 ME

Pipette Filler

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

DUSB LOVO ME

D

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-free and reliable dispensing of liquids, especially for high viscosity, high density and high vapor pressure. The 48-step dispensing allows for enhanced accuracy and usability.

StepMate

Stepper

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

The stop lever secures

the syringe

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							
Tips Sel	1	2	3	4	5		
0.50ml	10µI	20µI	30µl	40µI	50µ		
1.25ml	25µ!	50µl	75µl	100µI	125µ		
2.50ml	50µl	10001	150µl	200µl	250µI		
5.00ml	100µl	200µl	300µI	400µl	500µl		
12.50ml	250µl	500µl	750µl	1000µl	1250µ		
25.00ml	500µI	1000µl	1500µi	2000µ1	2500µl		
50.00ml	1000µ1	2000µl	3000µl	4000µl	5000µl		
Steps	48	23	15	11	8		

Steps



stepMa

Stepper ____

tepper

BNO

DLAB 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.

Specifications

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

Dial set	tting	1	2	3	4	5			
Number o	of steps	48	23	15	11	8			
Cat. No.	Syringe volume (mL)		Sam	iple voli (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



DUAB

Specifications

Volume Range	0.1-99.9mL, Max piston lift is 10mL, resolution is 100 μ L
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 recovery function reduces reagent waste and prevents dripping when not in operation

Fast, reliable and reproducible volume locking mechanism

BUND

6 adapters allow fitting to most common bottles

Closure Cap Screw design easy to open/close and free of contact with reagents

Adjustable aspirating tube for different height bottles

Features

- 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



Specifications

Specifications							17400133	32/25mm
Cat. No.	Volume Range	Graduation	A	≤ ± ¦	C۱	/ ≤	17400134	GL28, Adapter, 32/28mm
	mL	mL	%	μL	%	μL	17400037	Reagent Bottle
7032100001	0.5-5	0.1	0.5	25	0.2	10		(Brown,1L ,Optional)
7032100002	1.0-10	0.2	0.5	50	0.2	20	17400021	Filling tube(m)
7032100003	2.5-25	0.5	0.5	125	0.2	50		
7032100004	5.0-50	1.0	0.5	250	0.2	100	17100073	Discharge tube(m)

45/38mm GL25, Adapter,

17400133

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)



DIAB

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).



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 φ 1.5mm, 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





TC1000-G

Thermal Cycler Gradient

TC1000-S

Thermal Cycler Standard

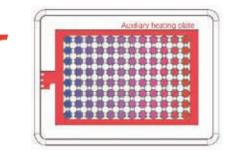
Thermal cycler is essential laboratory instrument in the field of molecular biology research such as sequencing, gene cloning, gene expression, mutagensis applications and applied market like drug discovery, agriculture, food industry, etc.



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

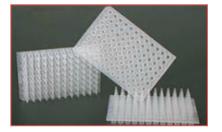
- Wide options of consumables common PCR tubes, 8-well PCR strips and 96-well PCR plates can be used
- File customization, multi-file storage
- Power-off protection function, automatic program recovery
- Hot lid auto-off function: If the module temperature is lower than 30°C, the hot lid function will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



LCD touch panel

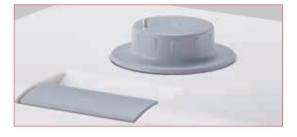


Excellent temperature accuracy





TC1000-G



Specifications

Sample Capacity	96X0.2mL PCR tube, 8X12 PCR plate or 96 well plate		
Heating Temperature Range /°C	4~105		
Lid Temperature Range /°C	30~110		
Temperature Display Accuracy /°C	±0.1		
Temperature Display Accuracy@55°C	±0.3		
Temperature uniformity@55°C	<0.3		
Max. Heating/Cooling Rate	5°C/Sec		
Gradient Temperature Setting Range /°C	30~99°C		
Gradient Range /°C	1~42°C		
Adapter block material	Aluminum		
Display	7" LCD 800x480		
Input	Touch panel		
User defined file system	Max. 30 segments 99 cycles max. 16 folder and 16 files each folder		
Power off protection	Yes		
Power Supply	100~120V/200~240V,50/60Hz		
Dimension[WxDxH]	280x370x250 mm		
Weight	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				
Yes				
100~120V/200~240V,50/60Hz				
280x370x250 mm				
11kg				

Thermal Cyclers

24

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, guality and safety testing, and forensic applications.

Real-Time PCR System

Accurate 96

Features

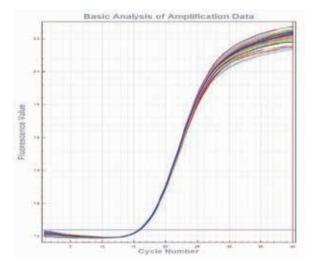
- Up to 6 fluorescence detection channels allowing multiplex PCR.
- Effectively reduce multi-color crosstalk and edge effect, no ROX correction required to reduce sample and reagent use
- Innovative scanning method and time-resolved signal separation technology to improve detection sensitivity
- Unique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



Technical Parameters

Temperature control system		Detection system		
Sample capacity	0.1ml PCR tubes \times 96, 8 \times 12 PCR plate or 96 well plate \times 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 wavelength range	455-650nm/510-715nm	
Heating temperature range	4 – 100 °C	Fluorescent channels	4/6 channels	
Temperature accuracy	± 0.2°C	Supported dye	FAM/SYBR Green,VIC/HEX ROX,Cy5,Cy3(only for x6)	
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 differen can be distinguished in single-plex qPCR	
Temperature gradient difference setting range	1 – 36°C	Dynamic range	10 orders of magnitude copie	





l/6 channels	
BR Green,VIC/HEX v5,Cy3(only for x6)	
gle copy gene	
opy number difference be distinguished ngle-plex qPCR	

pies

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[W×D×H]

Weight

Adapter block selection

Overheating protection

Timer

LED display

	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



Standard:18900218 Thin:18900274

Standard: 18900219 Thin:18900275 Standard:

18900253(1.5mL) 18900220(2mL) Thin: 18900276(1.5mL) 18900277(2mL)

Standard:18900221

Standard:18900546

Standard:18900222

Standard:18900224 Thin:18900278

Standard:18900223 Thin:18900279

Thin:18900504

18900523

-70
20

Block types	Capacity	Diameter Depth
	0.2mLx54	6.4mm 15mm
	0.5mLx40	8.2mm 26.4mm
	1.5mLx40 2mLx40	11mm 34.7mm
	5/15mLx28	17mm 48mm
	5mL blood collection tube x 45	13.5mm 48mm
2000	50mLx8	29.8mm 48mm
	0.2mL+0.5mL+1.5/2mL 18+18+18	-
	96 or 384 well plate	-
IMIRINAL	8 PCR strips and 96 PCR microplate	-
41	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



Specifications

-



Overheating protection



Timer



LED display



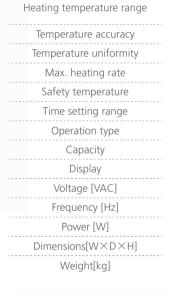


5/10mLx38

Φ13m/15.25mm 33mm

Diameter

Depth



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



rv Bath



HB105-S1/HB105-S2 HB150-S1/HB150-S2

Dry bath

Features

Dry Bath ____

- 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	20	50mL×4	29.8×48mm
18900522		bead bath	one block, /water bath t to S1
18900523		bead bath	one block, /water bath t to S2
18900520		Aluminum beads	

+10~40

<80

HB105-S1	HB105-S2	HB150-S1	HB150-S2
Room temp+5~105	Room temp+5~105	Room temp+5~150	Room temp+5~150
25~105	25~105	25~150	25~150
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
±0.2	±0.2	±0.2	±0.2
100	200	100	200
0~99h59min	0~99h59min	0~99h59min	0~99h59min
Yes	Yes	Yes	Yes
LED	LED	LED	LED
110/220V, 50/60Hz	110/220V, 50/60Hz	110/220V, 50/60Hz	110/220V, 50/60Hz
290x210x120	290x210x120	290x210x120	290x210x120
3.2	3.2	3.2	3.2
	Room temp+5~105 25~105 25-90: ±0.3 90-105: ±0.6 ±0.2 100 0~99h59min Yes LED 110/220V, 50/60Hz 290x210x120	Room temp+5~105Room temp+5~105 $25~105$ $25~105$ $25-90: \pm 0.3$ $90-105: \pm 0.6$ $25-90: \pm 0.3$ $90-105: \pm 0.6$ ± 0.2 ± 0.2 ± 0.2 ± 0.2 100 200 $0~99h59min$ $0~99h59min$ YesYesLEDLED $110/220V, 50/60Hz$ $110/220V, 50/60Hz$ $290x210x120$ $290x210x120$	Room temp+5~105 Room temp+5~105 Room temp+5~150 25~105 25~105 25~150 25-90: ±0.3 90-105: ±0.6 25-90: ±0.3 90-105: ±0.6 25-90: ±0.3 90-150: ±0.6 ±0.2 ±0.2 ±0.2 100 200 100 0~99h59min 0~99h59min 0~99h59min Yes Yes Yes LED LED LED 110/220V, 50/60Hz 110/220V, 50/60Hz 110/220V, 50/60Hz 290x210x120 290x210x120 290x210x120

+10~40

<80

Operating temperature[°C] Operating humidity [% RH]

+10~40 <80

+10~40

<80

28

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		2mlx15	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

Specifications

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]

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
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 H100 25-100 n temperature+5-

23 100
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

	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
HC110-Pro	18900404	::::	1500rpm	8x5mL (round bottom)	13.6x42mm
Thermo control with cooling	18900405	2222	1400rpm	8x5mL (cone bottom)	17x51.5mm
 Features Precise temperature control for heating and cooling 	18900406		800rpm	8x15mL	16.9x80mm
Flexible adapter selectionProgrammableCompatible with various tubes	18900407		600rpm	4x50mL	29.6x80mm
 Quick interchange of blocks with magnet adhesion technology without any tools Block equipped with a lid for heat 	18900420		1500rpm	0.2mLx96 PCR plate	-
 Three-point temperature calibration	18900423		1500rpm	microplate	-



Thermo Mix ____

Excellent temperature accuracy



Programmable



Block self recognition



-			
Sn	ecit	icati	ons

Functions
Temperature range
Temperature setting range specifications Temperature control accuracy[@20–45°C] Temperature uniformity[@20–45°C] Max. heating rate
Max. cooling rate
Time setting range
Program
Overheating protection
Display
Adapter block material
Voltage, Frequency
Power
Dimension[W×D×H] (without the heating block) Weight

HC110-Pro

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 24

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.

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H100-Pro



Л1	00-	Dro
	00-	PIO

 Heating & mixing	Heating
 Heating: room temp 100 °C	Heating: room temp+5 °C 100°C
 15~100°C	15~100 °C
 ± 0.5°C	± 0.5°C
± 0.5°C	± 0.5°C
 5.5°C/min	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

~			
Sp	eciti	cati	ons

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

		• •
H	ICM100	-Pro
Hostin	a cooling	2 8. mivin

Ξ

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 21

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



Large LCD display



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
performance	Temperature range	Room temp. ~180°C (both water and oil)
	Control Accuracy	Water: ±1°C Oil: ±3°C
	Rotation Speed	10~150rpm
	Evaporation capacity	Max.4.0L/h (water vapor volume)
	Ultimate vacuum	Less 2.6hpa
function	Temperature control method	Micro processer PID control
	Display	LCD (temperature/speed/clockwise and Anti-clockwise/time)
	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
	Condenser	Two-section vertical triple serpentine condenser, cooling surface 1.2m ²
Specification	Heating bath size	φ450×240mm
	Takeover caliber	Cooling/suction nozzle outer diameter 16mm, vacuum pump nozzle outer diameter 16mm
Dimension[D×W×H]		1160mm×600mm×1860mm
Power 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.

LCD		Specifications	RE100-
	Large LCD display	Motor Type	Brushless DC
		Speed Range	20-280r
		Display	LCD(speed, tempe
		Clockwise and Anti-clockwise	Yes
	USB connector	Heating Temperature Range	Room temp. 1
		Control Accuracy	water: ±1°C
		Heating Power	13000
TIT		Stroke Displacement	automatic 1
	Chemical resistance	Timer	Yes
		Time Setting Range	1-999m
		Dimension[D×W×H]	465×457×5
C (Weight	15kg
		Permissible Ambient Temperature	5-40°(
Overhea	Overheating protection	Permissible Relative Humidity	80%R
		Protection Class	IP20
		USB Interface	Yes
	Compatible with all	Voltage/Frequency	100-120/200-240
	range of glassware	Power	1400 \

-Pro

Brushless DC motor
20-280rpm
LCD(speed, temperature, time)
Yes
Room temp. to 180°C
water: $\pm 1^{\circ}$ C oil: $\pm 3^{\circ}$ 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

DLAB 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 waming above 50°C



USB connector



Chemical resistance

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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: \pm 1°C oil: \pm 3°C		
1200 W		
Manual 110mm + auxiliary100mm		
1~999s		
Main Unit: 440×320×450mm Heating Bath: 300x300x240mm		
Main Unit: 7kg Heating Bath: 3kg		
5~40°C		
80%RH		
IP20		
Yes		
100~120/200~240V 50/60 Hz		
1245 W		

Condenser









Vertical

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	1700cm ²
18900174	(COATED)Evaporatingflask(NS24/40) Receiving flask (KS35/20)	1000mL	1700cm ²
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	1700cm ²
18900164	(COATED)Evaporatingflask(NS29/32) Receiving flask (KS 35/20)	1000mL	1700cm ²
18900172	(COATED)Evaporatingflask(NS24/40) Receiving flask (KS35/20)	1000mL	1700cm ²

Heating Bath		
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. 18900547 **Description** heating Bath lid for RE100-S, improve distillation efficency & ensure personnal safety from liquid splash



Glassware



Evaporating flask

Foam brake

Cat. No.

18300093

18300207

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

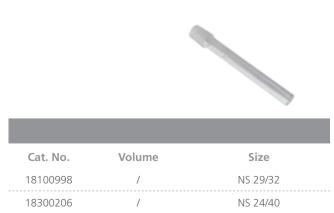
Cat. No.	Volume	Size
18300107	100ml	KS 35/20
18300108	250ml	KS 35/20
18300109	500ml	KS 35/20
18300110	1000ml	KS 35/20
18300111	2000ml	KS 35/20



Distilling spider with 5 flasks(without flask)

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





Volume

250ml

250ml

Size

NS 29/32

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

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)

• The part in contact with liquid is made of stainless steel or high-quality corrosion-resistant material;



• 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

Range of temperature control
Temperature adjustment accuracy
Temperature control accuracy
Reservoir capacity
Range of temperature adjustment
Temperature display
Type of temperature sensor
Compressor refrigerant
Circulating pump throughput
Pump pressure
Circulating pump head
In-out cycle interface
RS232 interface
Machine power
Maximum overall dimensions
Weight
Power supply
Operating environment

CCP5-15

-15°C-Room temperature
0.1°C
$\pm 1.0^{\circ}\text{C}~(-20^{\circ}\text{C}~\text{~o}^{\circ}\text{C}$ typical value) $\pm 0.5^{\circ}\text{C}~(0^{\circ}\text{C}~\text{~}20^{\circ}\text{C}$ typical value)
5L
-30°C~30°C
LED
PT1000
R290
12L/min
0.6 bar
6m
12mm pagoda-type interface
Yes
350W
370 x 420 x 730(mm) with caster
46kg
220V 50Hz/60Hz
10~40°C, RH≤80%

CCP5-20

-20°C-Room temperature
0.1°C
$\pm 1.0^{\circ}\text{C}~(\text{-}20^{\circ}\text{C}~\text{-}0^{\circ}\text{C}~\text{typical value})$ $\pm 0.5^{\circ}\text{C}~(0^{\circ}\text{C}~\text{-}20^{\circ}\text{C}~\text{typical value})$
5L
-30°C~30°C
LED
PT1000
R290
12L/min
0.6 bar
бm
12mm pagoda-type interface
Yes
700W
440 x 460 x 730(mm) with caster
50kg
220V 50Hz/60Hz, 110V 50Hz/60Hz
10~40°C, RH≤80%

Cooling capacity

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

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

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

18900186

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



Rotary Evaporator | Accessories



Seals 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	R
18900188	Evaporation flask clip(green) CS002942	1

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

Vacuum setting range Vacuum measurement range

Control operation mode

Control program

Setting method Display Sensor overload pressure Connector diameter Materials in contact with vapor Power Compatible conditions with vacuum pump Overall dimensionsW×D×H Weight

Power supply

Operating environment

VC100

1-1000mbar
1-1000mbar
Single-point control mode, Programmed control mode
Can store up to 5 programs, each containing 5-step control (capable to set the degree of vacuum and time)
Touch screen setting
5'' TFT
1,500mbar
8mm
PTFE, PP, silicone and ceramics
600W
power of 50Hz vacuum pump ≤400W power of 60Hz vacuum pump ≤500W
189×207×193mm
4.0kg
110—240V,50Hz/60Hz

10°C∼40°C, ≤80%RH



Mixing & Heating



DLAB 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



0800080

Wide range of accessories



Chemical resistance



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

Permissible ambient temperature and humidity





MS7-H550-S

MS7-H550-Pro

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

DLAB 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 H_2O 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 1 min 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



External sensor



Brushless DC motor



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



Wide range of accessories

Sammanna





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
Temperature display

Heating temperature range
Temperature control accuracy
Over temperature protection
Temperature display accuracy
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
LCD
LCD
Room temp340°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			
1			
20L			
80mm			
100-1500rpm			
resolution±1rpm			
LCD			
LCD			
Room temp340°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			
160×280×85mm			
2.8kg			
5-40°C, 80%RH			
J-40 C, 00 /01/11			

MS-H-S

φ135mm(5 inch)
stainless steel cover with ceramic
Brushless DC motor
1
20L
80mm
0-1500rpm
resolution±1rpm
Scale
Scale
Room temp340°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

DLAB 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

Magnetic Hotplate Stirrers —

- 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 \pm 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[H ₂ O]
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

	-			4
Μ	5-	H-	P	r O

φ135mm(5inch)		
Aluminum		
Brushless DC motor		
Room temp340°C,		
increment 1°C		
±0.1°C		
100-1500rpm resolution±1rpm		
20L		
LCD		
LCD		
80mm		
±1°C(<100°C) ±1%(>100°C)		
PT1000 (accuracy \pm 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 10°C · 900/ PU		

DLAB 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



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



MS-H280-Pro

φ135mm(5 inch)		
stainless steel cover with ceramic		
Brushless DC motor		
1		
3L		
50mm		
200-1500rpm		
LED		
LED		
±1rpm		
Room temp280, increment 1°C		
±1°C(<100°C) ±1%(>100°C)		
320°C		
±1°C		
PT1000 (accuracy ±0.5°C)		
50°C		
IP21		
5W		
3W		
515W		
500W		
100-120/200-240V 50/60Hz		
150×260×100mm		
1.8kg		
5-40°C, 80%RH		





HP380-Pro

LCD Digital Hotplate

MS6-Pro

LCD Digital Magnetic Stirrer

MS-H380-Pro

LCD Digital Magnetic Hotplate Stirrer

DLAB 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
/ork 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	-
<. stirring quantity[H₂O]	5L	5L	-
k. magnetic bar[length]	50mm	40mm	-
Speed range	200-1500rpm	200-1500rpm	-
Speed display	LCD	LCD	-
Temperature display	LCD	-	LCD
ting temperature range	Room temp.+5°C - 380°C	-	Room temp.+5°C - 380°C
Over heat Protection	420°C	-	420°C
erature display accuracy	±0.1°C	-	±0.1°C
rnal temperature sensor	PT1000 (accuracy ±0.5°C)	-	PT1000 (accuracy ±0.5°C)
trol accuracy of sensor	±20rpm	±20rpm	-
Protection class	IP21	IP21	IP21
Motor rating input	2.4W	2.4W	-
Notor 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
mension [W x D x H]	320x180×108mm	320x180×108mm	320x180×108mm
Weight	2.2kg	2.2kg	2.2kg
Permissible ambient Iperature and humidity	5-40°C 80%RH	5-40°C 80%RH	5-40°C 80%RH

S

Work plate Dimension		
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		
Over heat Protection		
Temperature display accuracy		
External temperature sensor		
Control accuracy of sensor		
Protection class		
Motor rating input		
Motor rating output		
Power		
Heating output		
Voltage		
Dimension [W x D x H]		
Weight		
Permissible ambient temperature and humidity		

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
- \bullet 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

MS-H340-S4

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]	180x450mm
Work plate material	Stainless steel with silicone
Motor type	Brushless DC motor
Stirring positions	10
Max. stirring quantity	0.4Lx10
Max. magnetic bar[length]	40mm
Speed range	0-1100rpm
Speed display	scale
Temperature display	scale
Heating temperature range	Room temp120°C
Overheating protection	140°C
Protection class	IP42
Motor rating input	12W
Motor rating output	4W
Power	490W
Heating output	470W
Voltage	100-120/200-240V 50/60Hz
Dimension[WxDxH]	182×622×65mm
Weight	3.2kg
Permissible ambient temperature and humidity	5-40°C, 80%RH

MS-H-S10

Magnetic Hotplate Stirrers

52

Alloy-Bead Heating Bath

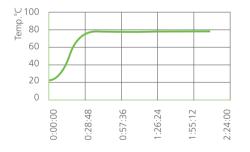
Features

- 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

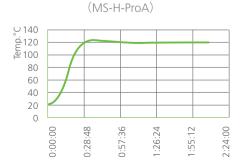




250ml water heated up to 80°C (MS-H-ProA)



250ml silicone oil heated up to 120°C



Tips for temperature control

- We recommend to use the beads with DLAB 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						

				Stirrer bars Stirrer bars and stirrer bar remover(PTFE), use below 150°C MS7-H550-Pro MS7-H550-Pro MS7-H550-Pro MS-H280-Pro MS-H-S10		
1			MS-H-Pro⁺ MS-H-Pro [⊤] MS-H-S MS-S	MS-PA MS-PB	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				
-00	18900009	25mmx8mm				
	12500005	З0mmx6mm				
	18900011	40mmx8mm				
7	12500004	50mmx8mm				
	18900013	65mmx8mm				
2	18900014	80mmx13mm				
00	18900015	Stirrer bar remover, length of 200mm				

P

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 $\pm 0.5^{\circ}$ 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





Hotplates _____

Wide range of accessories



Chemical resistance



Overheating protection



"HOT" warning prevents burning



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

Specifications

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

Magnetic Stirrers

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

F100 protective cover

for non-hotplate model, use with MS-S



Chemical resistance



Strong magnetism

Specifications

Work plate dimension[WXD]
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

Permissible ambient temperature and humidity



MS7-S

184x184mm(7 inch)
Glass ceramic
Shaded pole motor
1
10L
80mm
0-1500rpm
Scale
IP21
15W
1.5W
30W
100-120/200-240V,50/60Hz
215x360x112mm
3.8kg
5-40°C, 80%RH



MS-S

φ 135mm(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

Features

- Digital speed control within the range of 0-1500rpm
- Max. stirring quantity of H_2O 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 H_2O at 3L
- Nylon+GF housing provides a good performance of chemical resistance



Chemical resistance



Strong magnetism



LED display



MS-PA



Specifications

N/	C	D)	D
	2-		

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
- Stainless steel work plate covered with silicone cushion, provides excellent performance of skid resistance



Skid resistance



Multiple position

Specifications

Work plate Dimension[WxD]
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-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



FlatSpin Ultra-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	φ 90mm	φ120mm
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

60



OS20-Pro OS40-Pro OS70-Pro

LCD Digital Overhead Stirrer

Speed 50~1100rpm

with control accuracy

of ±10rpm

Brushless DC

motor for long life,

maintenance free

DLAB 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.

LCD display of set and

actual speed, torque and time (for OS70)

Self - locking drill

chuck, tools free



OS20-S OS40-S LED Overhead Stirrer

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



62

Plate Stands

Universal Plate Stand (for OS20/40/70)

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



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

Straight stirrer

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

Propeller stirrer

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

Straight stirrer

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

Grand propeller stirrer

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

Grand anchor stirrer

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



Cat No. 18900071



Cat No. 18900075



Cat No. 18900076



Cat No. 18900478



Cat No. 18900498



Grand Plate Stand (for OS70)

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

Paddle stirrer

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

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.

Paddle stirrer

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

Centrifugal stirrer

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

Grand paddle stirrer

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

Grand dissolving stirrer

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





Cat No. 18900074



Cat No. 18900077



Cat No. 18900078



Cat No. 18900499



r Cat No. 18900500



D-160 Handheld Homogenizer

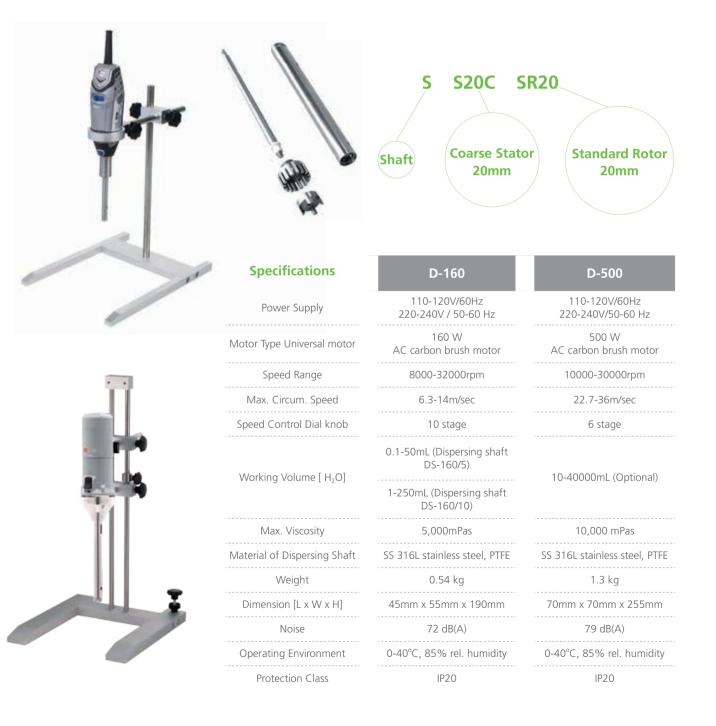
Features

- 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



D-500

Homogenizer

DS-500/1

SS20CSR20

Volume 10-5000mL Max. Circum. Speed 22.7m/sec Material: 316L Application: for solid/liquid media

Cat. No.

18201331

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



Cat. No.

18900543

Cat. No. 18900544 Homogenizers | Accessories

D-160

Handheld Homogenizer

DS-160/5

Volume 0.1-50ml Max. Circum. Speed 6.3m/sec Material: 316L Application: small amounts of solidliquid mixed

DS-160/10

Volume 1-250mL Max. Circum. Speed 14m/sec Material: 316L Application: small amounts of solidliquid mixed

Stator



S20C



S20F



S30C



S30F

MR30



S40C



SR20





CR20

SR30



CR30





MR20







ER30



Combination

ombination					
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

Centrifuges



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.





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Specifications

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Rotor Capacity

Run Time

Driving Motor

Power

100001

Noise Level

Dimension [D×W×H]

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
160v170v122mm

160x170x122mm

0.5kg CE cTÜVus FCC MCA



Available rotors



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 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

- DLAB 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



igh Speed Micro-Centrifuges

D2012 Plus

High Speed Mini Centrifuge

122.00 111

Brushless DC motor

LCD display

1

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Features

- Speed up to 15000rpm (15100×g)
- Brushless DC motor drive guickly 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/

Available rotors



A12-2P

Cat. No. 19400010

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

Specifications

CD

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

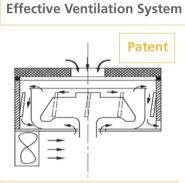
D2012 plus
5000rpm(500-15000rpm), increment: 100rpm
15100×g, increment: 100×g
±20rpm
0.2mL/0.5mL/1.5mL/2mL×12
30sec-99min/Continuous
11s↑/9s↓
Brushless DC motor
Door interlock, Over-speed detection, Over-temperature detection, Automatic internal diagnosis
Single-phase, AC100V-240V, 50Hz/60Hz, 3A 100W
≤54dB
255×245×140mm

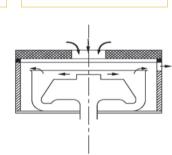
6kg EMC, CE, FCC, ICES, cTUVus, CB Speed/RCF switch, Short-time run function. sound-alert function

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





Conventional design

Proprietary design of dual path ventilation enforcing air cooling from both the upper and lower side for the rotor. Limiting ventilation on the upper side of the rotor





Brushless DC motor



Wide range of rotors



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Specifications	D3024
Max. Speed	15000rpm(200-15000rpm), increment:10rpm
Max. RCF	21380×g, increment:10×g
Speed Accuracy	±20 rpm
Rotor Capacity	5mL×18, 5mL culture tubex12 0.2mL/0.5mL/1.5mL/ 2mL×24, 0.5mL×36, PCR8×4
Run Time	30sec-99min/Continuous
Acceleration /Braking time [Sec]	25s ↑ 25s ↓
Motor	Brushless DC motor
Safety Devices	Dual door interlock, Over-speed detection, Automatic internal diagnosis
Power	Single-phase, AC200V-400V, 50Hz/60Hz, 5A, AC100V-120V, 50Hz/60Hz, 8A 200W
Noise Level	≦64dB
Dimension[W×D×H]	280×364×266mm
Weight	12kg
Certification	CE cTÜVus FCC MCA

Other functions

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

Max. Speed	1
Max. RCF	
Capacity	
Temperature setting	
Run Time	
Acceleration and deceleration time	
Motor Type	
Safety Performance	
Power Requirements	
Noise	
Dimensions(mm)	
Weight	
Other functions	r

D1524R

15,000rpm (200-15,000rpm) in 100rpm increments.
21,380 $ imes$ g, step: 10 $ imes$ g
1.5/2mL×24, 0.5mL×36, PCR8×4, 5mL×12, 5mL×18.
-20°C- 40°C
30s-99 min; HOLD (continuous running)
25s↑25s↓
DC brushless motor
Dual door lock, over-speed detection, over-temperature detection with Internal diagnosis system.
Single-phase

Single-phase, 200V-240V, 50Hz/60Hz, 500W 100V-120V, 50Hz/60Hz, 500W

\leq 56dB 332(Width) \times 553(depth) \times 283(height)

30kg

Rotation speed/RCF switchover, inching operation, running process indicator, sound alert. Acceleration/ deceleration in 9 steps, program storage capacity.



DLAB 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.

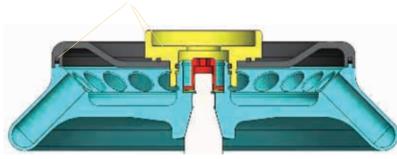
Three-layer seal

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

DLAB 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



Available rotors



AS24-2

Cat. No. 19400006

Cat. No. 19400032

Cat. No. 19400007

Cat. No. 19400008

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



AS18-5 for D3024 & D1524R

Max. speed :15000rpm Max. RCF:21380×g Rotor capacity:5mL×18 (Round bottom) Rotor material:Aluminum alloy Bio-safe(Bio sealing):Yes

Available adapters

Cat. No. 19500001
0.2mL rotor adapter Used with A12-2, A12-2P, AS24-2 and A24-2P rotors 24pcs/pk
Cat. No. 19500002
0.5mL rotor adapter Used with A12-2, A12-2P, AS24-2 and A24-2P rotors 24pcs/pk
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
	AS36-05	0.5×36	8.2	29.3	36
D3024 D1524R	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

DLAB 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 13680×g
- Precise control of speed and time separately
- Rotor capacity: Hematocrit rotor: 24 capillary

Specifications

Speed 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



Available rotors



Cat. No.19400013

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

AC24 DM1424 & DM1224

Max. speed: 12000rpm Max. RCF: 13680×g Rotor capacity: capillary tubes x24 Rotor material: High strength aluminum

Available adapters

Cat. No. 19500001

Cat. No. 19500002

A02P2

A05P2

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

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



A02P05

Cat. No. 19500003

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





DLAB 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

- DLAB 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

Dina

• 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



DLAB 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×6 & 15mL×6 (A6-50P),15mL×8, or 10mL/7mL/5mL×12 (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

DM0412

Clinical 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

arety bettees

Acceleration/Braking time

Power

Dimension[WxDxH] Weight Certification

Advanced features

increment: 100rpm 2490×g ±20rpm A12-10P, A6-50P 30sec-99min HOLD(Continuous operation)

DM0412

300-4500rpm,

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



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

Available rotors

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	11	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

DLAB 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;
- 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.

Specifications

300-4500	Speed Range
2490	Max. RCF
	Speed accuracy
8x15m	Rotor capacity
	Run Time
Bru	Motor
	Display
PRP: PRF: CGF: St Step Step Step	Preloaded Program
(6 step	Custom Programs Memory
Door interle Automa	Safety Devices
	Noise
100V-240	Power
30	Dimension[WxDxH]
	Weight
C	Certification
Speed/RCF sv	Advanced features

300-4500rpm, increment:10rpm
2490xg, increment: 10g
±10rpm
8x15ml,12x10mL/7mL/5mL
30sec-99min
Brushless DC motor
LCD
PRP:3480rpm, 5mins, PRF:2690rpm, 7mins, CGF: Step1 2700rpm 2mins, Step2 2400rpm 4mins Step3 2700rpm 4mins, Step4 3000rpm 3mins,
9 programs (6 steps for each program)
Door interlock, Overspeed detector, Automatic internal diagnosis
≤56dB
Single-phase, 100V-240V,50Hz/60Hz, 3A,70W
301X354X217mm
бkg
CE, cTUVus, IVD

DM0412P

Speed/RCF switch; sound-alert function

Holes Number	Rotor Diameter (mm)	Hole diameter (mm)	Hole Depth (mm)	Max. tube height(mm)
12	229	18.6	83.4	130





Rotor(A12-10P)&Adapters:



DLAB 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;

DM0506

New

- 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

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

Advanced features

Available adapters



A5P17 Cat. No.19500022

function

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





Cat. No.19500023

1.5/2ml Cryogenic Vials/ centrifuge tube adapter

DLAB 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 angle rotor.
- Automatic internal diagnosis and self-detection.
- Maintenance-free brushless DC motor.



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

Specifications

Speed range Max. RCF Speed accuracy Rotor Run time Motor Display Program

Safety Device

Acceleration/deceleration

Power

Dimension(W×D×H) Weight

Nielee

Noise

LCD Blood: 3200rpm,10min. Urine: 1800rpm,5min. Faecal: 1300rpm,10min. Automatic internal diagnosis n 3↑4↓steps

Single phase, 100V-240V, 50Hz/60Hz 364×440×268mm 14.5kg

14.5Kg ≤62dB(A)

. .

DM0408

300-4000rpm increment: 100rpm 1900×g

±100rpm

Angel 8×15ml(Default), Angel 10ml×12

1-99min, HOLD Brushless DC motor

LED

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.



Available rotors







S6-15 Cat. No.19400082 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×24 Rotor material: High strength plastic Default adaptor: A15P22, A5P17

A8-15P Cat. No.19400084 for DM0424/DM0408

Max. Speed: 4000rpm Rotor capacity:15ml×8 Rotor material: High strength plastic Default adaptor: A15P22



DM0424

DM0424&DM0408

A12-10P Cat. No.19200348 for DM0424/DM0408 DM0412/DM0412S

Cat.No. 19200348 Rotor capacity: 15ml×8,10ml×12 Rotor material: High strength plastic

15mlx6

50mlx4

15mlx24

15mlx8

15mlx8/10mlx12

22

29.4

22

22.6

18.6

97.7

87.8

97.7

90.8

83.4

S6-15

S4-50

A24-15P A8-15P

A12-10P

stic	15ml adapter for 17×120mn centrifuge tube, 13/16×100r blood collection tube 24 pcs/p for S6-15, A24-15P, A8-15P	mm
4	A5P17 Cat. No.19	9500022
tic	5ml adapter, Adapted to 13> blood collection tube 24 pcs/p for \$4-50, \$6-15, A24-15P	
8	A2P17 Cat. No.19 (Optional)	9500023
2 tic	1.5/2ml Cryogenic Vials/ cer tube adapter, 24 pcs/pk, for S6-15, A24-15P, A12-10P, A6	S4-50,
Hole Hole Depth Diameter (mm)		. Speed rpm)

120.6

125

120.6

120.3

123

4000

4000

4000

4000

4000

Available adapters

A15P30

for S4-50

A15P22

50ml change 15ml adapter,

collection tube 4pcs/pk,

Adapted to 17×120 mm centrifuge tube, $13/16 \times 100$ mm blood

Cat. No.19500024

Cat. No.19500021

ow-speed Centrifuges --



DLAB 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

Specifications

	310
<u>\</u>	-
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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 k	olock		No. 1940	0041	
				Cat. No. 19400041 SE4-100(Standard accessory) for DM0636 Max. speed: 4000rpm Max. RCF: 2950×g Rotor material: stainless steel body and adapter				0041			
						A15V 15ml conical tube ad	dapter, MO		No. 1950	0025	
	1940	0045	E	8 19400044	I	19400043		ę	19400042		
bucket			1			x 4	1				
tube	хЗ	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		J		Ú	Ų	Ų		Ų	Ū		
adapter	with plug					. A50V	A10	DP80	A100P50)) A100P15	() A100P10
Package	36					8	4	1	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

Available rotors



S2-MP

Cat. No. 19400062

Cat. No. 19400036

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



AS60-2 DM0636

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

Cat. No. 19400037

Cat. No. 19400034

Available rotors

Cat. No. 19400038

AS6-50V (cone botton)

Max. speed: 6000rpm Max. RCF: 4020×g Rotor capacity: 50mL×6 or 15mL×6 Rotor material: aluminum Biosealing: Yes

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

Cat. No. 19400039

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	
AO EO	50mlx8	35	85.8	118	5000	
A8-50	15mlx16	17.5	98	123	5000	
A30-15	15mlx30	17.5	98	123	4500	
S2-MP	Micro platex8/ Deep well platex4	-	-	-	4000	

Miscellaneous



- Vortex Mixers

DLAB 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

Voltage
Power
Mixing motion
Orbital diameter
Motor type
Motor rating input
Motor rating output
Speed range
Speed display
Run type
Dimension[W×H×D]
Weight
Permissible ambient temperature
Permissible relative humidity
Protection class

MX-S (Adjustable speed)	MX-F (Fixed spe
100-120V/200- 240V,50/60Hz	100-120V/20 240V,50/60
60W	60W
Orbital	Orbital
4mm	4mm
Shaded pole motor	Shaded pole m
58W	58W
10W	10W
0-2500rpm	2500rpm
Scale	-
Touch operation/ Continuous	Touch operat Continuou
127×130×160mm	127×130×160
3.5kg	3.5kg
5-40°C	5-40°C
80%RH	80%RH
IP21	IP21

M	X-F
(Fixed	speed)

)0- Hz	100-120V/200- 240V,50/60Hz	
	60W	
	Orbital	
	4mm	
otor	Shaded pole motor	
	58W	
	10W	
1	2500rpm	
	-	
on/ s	Touch operation/ Continuous	
mm	127×130×160mm	
	3.5kg	
	5-40°C	



VT1.1 Standard top (Default)

for <Ø30mm tubes and small vessels

Cat. No.18900034





MX-E

Specifications

Power supply [VAC]	100-240
Frequency [Hz]	50/60
Power [W]	12
Mixing motion	Orbital
Revolving diameter [mm]	4.8
Motor rating output[W]	10
Rotational speed [rpm]	3000
Operating mode	Inching
External dimension [mm]	133×133×80
Dimension of packing box [mm]	250×185×130
Weight [kg]	0.6
Allowable environment temperature [°C]	5-40
Permissible Ambient Temperature	≤80%RH
Protection class	IP21



Vortex Mixers

GAN	VT1.2 Tube holding roo used with tube adapters Cat. No. 18900044	k
	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	
100	Application of accessories Accessories Adjustable speed model	
4	Accessories (0-2500rpm) Touch mode (High speed area) Continuous mode (Low speed area) VTI.1 Y YTI.2 + VTI.3.1 Y	

VTI.2 + VT1.3.2 VTI.2 + VT1.3.3

VTI.2 + VT1.3.4

VTI.2 + VT1.3.5

VTI.3 + VT1.3.6

VTI.3 + VT1.3.1 VTI.3 + VT1.3.2

VTI.3 + VT1.3.3 VTI.3 + VT1.3.4 VTI.3 + VT1.3.5 Y

Y

Y

Y

Y Y

Y

made of rubber **Cat. No.**18900158



- Vortex Mixers | Accessories

DLAB 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.

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





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



Specifications 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

MXM-116 Double microplate clamps Cat. No.18900079

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

DLAB 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 from10 to 70rpm
- Provides gentle but effective rolling
- A wide variety of accessories are available

MX-RL-E Economical Rotator Features

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



Rotators

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

98



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

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

Cat. No.

18900142

Rotisserie Accessory Type-3

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

Cat. No.

18900144



Rotisserie Accessory Type-5

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

Cat. No.

18900146



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 centrifuge tubes held vertically

Cat. No. 18900145



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 Rotators | Accessories

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 × 5~10ml blood vessels, or 4 × 50ml tubes, with different silicon mattress accessories.

SK-R30L-E

Long Deck Rocking Rotator

Features

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



SK-R30D-E

Long Deck Double Layer Rocking Rotator

Features

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



Specifications

Tilt angle	
Load capacity	
Motor type	
Speed range[rpm]	
Operation mode	
Dimension (W×D ×H)	
Voltage	
Power	
Weight	
Permissible ambient temperature and humidity	

SK-R30S-E

30±3°
1kg
Brushless DC motor
0~30
Continuous
295×160×120mm
100~240V, 50/60Hz
15W
1.8kg
5~40°C, 80%RH

SK-R30L-E
30±3°
1kg
Brushless DC motor
0~30
Continuous
405×160×120mm
100~240V, 50/60Hz
15W
2kg
5~40°C,80%RH



Continuous		
405×160×160mm		
100~240V, 50/60Hz		
15W		
2.2kg		

5~40°C,80%RH

Accessories Information



Cat. No.18202835 Silicone mattress for 16× 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 4×50 ml 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

DLAB 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







Specifications	MX-T6-Pro	MX-T6-S
Amplitude	24mm	24mm
Motor type	DC motor	DC motor
Rocking motion	Rocking and rolling	Rocking and rolling
Max. load capacity	4kg	4kg
Number of rollers	6	6
Roller size[length]	280mm	280mm
Speed range	10 -70rpm	0-70rpm
Speed display	LCD	Scale
Timer	Yes	-
Timer display	LCD	-
Time setting range	1-1199min	-
Operation mode	Continuous/timer	Continuous
Voltage	100-240V,50/60Hz	100-240V,50/60Hz
Power	30W	25W
Dimension [D×W×H]	450×260×120mm	450×260×120mm
Weight	5.1kg	4.5kg
Permissible ambient temperature and humidity	5-40°C,80%RH	5-40°C,80%RH
Protection class	IP21	IP21

-	
-	
Continuous	
100-240V,50/60Hz	
25W	
450×260×120mm	
4.5kg	
5-40°C,80%RH	
IP21	

DLAB 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

Features

- 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-O330-Pro





Specifications

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

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

EX.
SK-O180-Pro
 4mm

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	
27003300011011111	
1024	
IP21	
	-
_	



SK-O330-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.

SK-O330-M

10mm

Specifications
Orbital Diameter
Max. Load capacity
Motor type
Motor Input Power
Motor Output Power
Speed Range
Speed Display
Timer Display
Time Setting Range
Voltage
Power
Weight
Dermissible Ambient

Permissible Ambient temperature and humidity

Dimension(WxDxH)

Protection class

3kg
Brushless DC Motor
20W
15W
70~400rpm
LCD
LCD
1~1199min

100-240V, 50/60Hz 25W

9.8kg 5~40°C, 80%RH 420×370×100mm

IP21



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



Timer



Wide range of accessories

SK-L180-S LED Digital Linear Shaker

Features

- 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



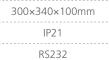
- Shakers





SK-L180-Pro

4mm 2.5kg Brushless DC motor 28W 15W 100-350rpm LCD LCD 1min-19h59min 100-240V, 50/60Hz 30W 8.1kg 5-40°C, 80%RH





SK-L180-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

Amplitude
Max. load capacity (with platform)
Motor type
Motor input power
Motor output power
Speed range
Speed display
Timer display
Time settings range

Specifications

Time settings range Voltage Power Weight Permissible ambient temperature and humidity Dimension[W×D×H] Protection class

Data connector

SK-L330-Pro

10mm
7.5kg
Brushless DC motor
28W
15W
100-350rpm
LCD
LCD
1min-19h59min
100-240V, 50/60Hz
30W
13.5kg
5-40°C, 80%RH
370×420×100mm
IP21
RS232

DLAB 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

Features

- 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



- Shakers





Specifications

Tilt angle	
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

Protection class

Dimension[W×D×H]

SK-R330-Pro	SK-R1807-S
9°	7°
10kg	3kg
DC motor	DC motor
40W	16W
24W	10W
10-70rpm	10-80rpm
LCD	LED
LCD	LED
1min-19h59min	1min-19h59min
100-240V, 50/60Hz	100-240V, 50/60Hz
50W	20W
9kg	3.2kg
5-40°C, 80%RH	5-40°C, 80%RH
360×410×200mm	270×330×130mm
IP21	IP21



1 20559

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

Features

- 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

- Shakers







SK-D1807-S

Specifications

SK-	D33	09-F	Pro

Tilt angle	9°	7°
Max. load capacity (with platform)	5kg	Зkg
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

		Cat. No.	Description	SK-O330-Pro SK-L330-Pro SK-R330-Pro SK-D3309-Pro	SK-O180-Pro/S SK-L180-Pro/S SK-R1807-S SK-D1807-S
SK330.5		18900155	Dish platform with non-slip mat and fixed string (8pcs) Dimension[WxD]: 30x28.5cm		
	······	18202835	Silicone mattress for 16× 5~15ml tubes, use with SK330.5		
		18202846	Silicone mattress for 6× 50ml tubes, use with SK330.5		
SK180.4	1	18900185	Dish attachment with non-slip mat Dimension[WxD]: 24x21.5cm		
SK180.5		18900200	Large size dish attachment with non-slip mat Dimension[WxD]: 30x23cm		
SK180.6		18900326	Dish attachment with non-slip mat Dimension[WxD]: 28x28cm		•
	·····	18202852	Silicone mattress for 10× 5~10ml tubes		-
	man	18202853	Silicone mattress for 4× 50ml tubes		-
SK330.1	and the second s	18900027	Universal attachment with 4 bars Size: 32x32cm Capacity for flask: 25mlx21pcs, 50mlx15pcs, 100mlx12pcs, 250mlx6pcs, 500x4pcs		
SK330.3	and the second	18900040	Lengthways roller attachment Size: 32x32cm Capacity for flask: 25mlx21pcs, 50mlx15pcs, 100mlx12pcs, 250mlx6pcs, 500x4pcs		
SK180.1	The Date	18900025	Universal attachment with 3 bars Size: 25x24.5cm Capacity for flask: 25mlx10pcs, 50mlx8pcs, 100mlx6pcs, 250mlx4pcs, 500x2pcs		
SK180.3	Land and the second	18900038	Lengthways roller attachment Size: 25x24.5cm Capacity for flask: 25mlx10pcs, 50mlx8pcs, 100mlx6pcs, 250mlx4pcs, 500x2pcs		
	¢	18900036	Bar for SK330.1 universal attachment		
	t	18900037	Bar for SK180.1 universal attachment		
		18900280	Connect sticks for double dishes shaker	•	

Shakers | Accessories

	Cat. No.	Description	SK-O330-Pro SK-L330-Pro SK-R330-Pro SK-D3309-Pro	SK-O180-Pro/S SK-L180-Pro/S SK-R1807-S SK-D1807-S
SK330.2	18900028	Fixing clip attachment Size: 32 x 32cm		
SK180.2	18900026	Fixing clip attachment Size: 25 x 24cm		
R	18900029	Fixing clip for flask volume 25mL, used with SK330.2[56pcs] SK180.2[36pcs]		
R	18900030	Fixing clip for flask volume 50mL, used with SK330.2[28pcs] SK180.2[18pcs]		
R	18900031	Fixing clip for flask volume 100mL, used with SK330.2[28pcs] SK180.2 [18pcs]		
B	18900032	Fixing clip for flask volume 200/250 mL, used with SK330.2[13pcs] SK180.2[8pcs]	•	P
B	18900033	Fixing clip for flask volume 500mL, used with SK330.2[9pcs] SK180.2[8pcs]	•	

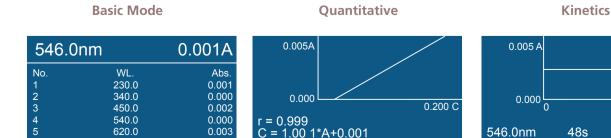
Spectrophotometer

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.



- 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



113

60s

0.003A



SP-UV1000

Single Beam

Tungsten lamp &

Model

Optical System Light Source

Spectral Bandwidth Wavelength Range Wavelength Accuracy Wavelength

Repeatability Photometric Range

Photometric Accuracy

Photometric Repeatability

Stability

Stray Light

Sample Compartment

Display

Output

Power

Dimension(L×W×H)

Weight

SP-V1000

Single Beam Tungsten lamp 4.0nm 325-1000nm ±2nm <1nm -0.3 - 3.0 A, 0 - 200%T ±0.003 A @ 0.5 A, ±0.006 A @ 1.0 A, ±0.5%T@100%T ≤0.0015 A @ 0.5 A, ≤0.003 A @ 1.0 A, ≤0.25%T @ 100%T ≤0.002 A/h @ 500 nm (after preheat 2 hours) ≤0.2%T@360nm 4-position, 10mm pathlength cuvette LCD

USB Port & Parallel Port (Printer) 110/220VAC, 50/60Hz, 80W 490×360×210mm

12kg

Deuterium lamp 4.0nm 200-1000nm ±2nm <1nm -0.3 - 3.0 A, 0 - 200 %T ±0.003 A @ 0.5 A, ±0.006 A @ 1.0 A. ±0.5%T@100%T ≤0.0015 A @ 0.5 A, ≤0.003 A @ 1.0 A, ≤0.25%T@100%T ≤0.002 A/h @ 500 nm (after preheat 2 hours) ≤0.2%T@220&360nm 4-position, 10mm pathlength cuvette LCD USB Port & Parallel Port (Printer) 110/220VAC, 50/60Hz, 120W

490×360×210mm

14kg

SP-V1100

Single Beam Tungsten lamp 2.0nm 320-1100nm ±0.5nm ≤0.3nm -0.3 - 3.0 A, 0 - 200 %T ±0.002 A @ 0.5 A, ±0.004 A @ 1.0 A. ±0.3%T@100%T

≤0.001 A @ 0.5 A, ≤0.002 A @ 1.0 A, ≤0.15%T @ 100%T

≤0.002 A/h @ 500 nm (after preheat 2 hours)

≤0.05%T@360nm

4-position, 10mm pathlength cuvette

LCD USB Port & Parallel Port

(Printer) 110/220VAC,

50/60Hz, 80W

490×360×210mm

12kg

SP-UV1100

Single Beam Tungsten lamp & Deuterium lamp 2.0nm 190-1100nm ±0.5nm ≤0.3nm

-0.3 - 3.0 A, 0 - 200%T ±0.002 A @ 0.5 A,

±0.004 A @ 1.0 A, ±0.3%T@100%T

≤0.001 A @ 0.5 A, ≤0.002 A @ 1.0 A, ≤0.15%T @ 100%T

≤0.002 A/h @ 500 nm (after preheat 2 hours)

≤0.05%T @ 220 & 360nm

4-position, 10mm pathlength cuvette

LCD

USB Port & Parallel Port (Printer)

110/220VAC,

50/60Hz, 120W

490×360×210mm

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. 18900334 cylindrical cell holder(ø16mm)



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



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



Cat. No. 18900339 solid sample holder (Ø1.5-3mmø1 position)



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



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



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



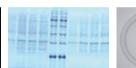
Cat. No. 18900341 12V20W halogen lamp



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







ECO Safe staining

Coomassie blue co stained SDS-PAGE

colony dish image

GelSMART

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.

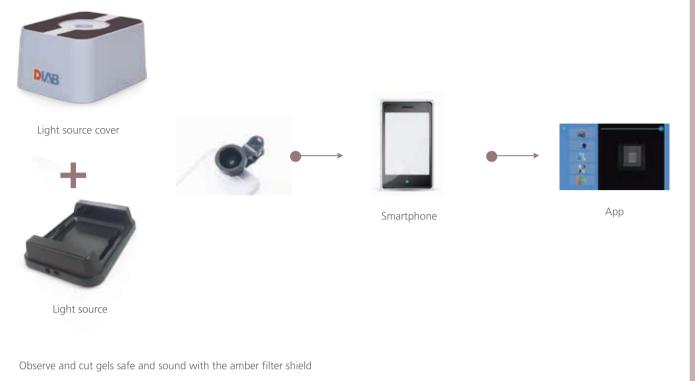
Optionally you can control the complete imaging system via an app on your smartphone or tablet.

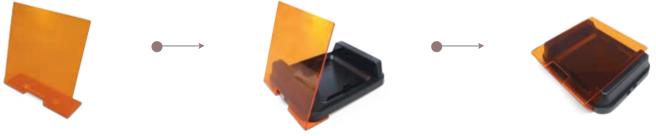
Features

- Compact foot print with a field of 10×10 cm
- 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:





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

- GelSMART



ST800-EA

DLAB 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

Features

- DLAB 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-Е	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°
Nax. 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

825±50
/
15
140
Ceramic
ABS
180x120x217
1.5
220V, 50/60Hz
190
-10~40
<80
-40~60
10~90

LED	
300~830	
825±50	
0-40°	
15	
140	
Ceramic	
ABS	
80x120x186	
1.5	
20V, 50/60Hz	
190	
-10~40	
<80	
-40~60	
10~90	

10~90

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Sterilizer ____



DLAB Scientific Inc.

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