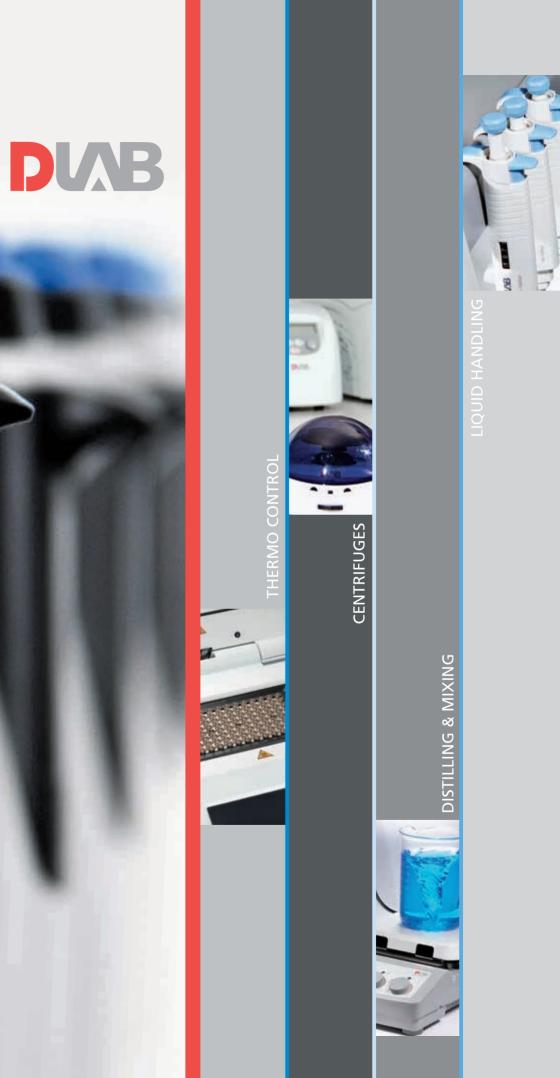


DLAB Scientific Inc.

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DUNB

2018





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 industries, diagnostics and research.

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. and in India as DLAB Scientific Private Limited.

DLAB Scientific Co., Ltd 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.

"DLAB is always your accessible solution"



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



Electronic pipette

dPette⁺

Multifunction Electronic Pipette

dPette

Simple Electric Pipette

Features

- High accuracy, high performance stepper motor ensures accuracy and repeatability, eliminating manual pipetting errors
- A motor driven digital control pipette with multifunction
- 2 buttons handle all operational settings
- Light weight, ergonomic design, small body dimension for easy handling that guarantees fatigue free pipetting
- Pipetting, Mixing, Stepper and Dilution(Only dPette⁺)
- Pipetting, Mixing(dPette)
- Adjustable speeds for aspiration and dispensing
- Li-ion battery and dual charging modes enable longer operation time
- Self calibration dPette can be connected to a PC via. USB for calibration by the user. Third party calibration is not required



	Volume Range	Increment	Test	Error limits in accordance to ISO8655-2				
Channels	volume kange	increment	Volume	accui	racy erroi	precision error		
	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	0.01	1	±0.035	±3.50	0.03	3.00	
1	5-50	0.1	50	±0.40	±0.80	0.15	0.30	
I	0-50		5	±0.15	±3.00	0.125	2.50	
1	30-300	1	300	±1.80	±0.60	0.60	0.20	
I	50-500	I	30	±0.90	±3.00	0.21	0.70	
1	100 1000	5	1000	±6.00	±0.60	2.00	0.20	
1	100-1000		100	±3.00	±3.00	0.60	0.60	

Specifications

* s.d. = Standard Deviation

*CV = Coefficient of Variation

Electronic pipette

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



Parameter Knob



Mechanical Pipettes



MicroPette plus



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

MicroPette plus multi-channel



BND

Features

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



8 channels

Fully autoclavable

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

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





Mechanical Pipettes

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



MicroPette multi-channel

121°C



BND

Features

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





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 $22^{\circ}C$

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



Mechanical Pipette Volume Selection

Specifications

This list is appropriate for MicroPette and MicroPette p (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	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			
1		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			

Volume			Error limits in accordance with ISO8655-2					
Range	Increment	Test Volume	(Accura	cy error)	(Precisior	n error)		
			%	μL	%	μL		
		10µL	1.50%	0.15	1.50%	0.15		
0.5-10µL	0.1µL	5µL	2.50%	0.125	2.50%	0.125		
		1µL	4.00%	0.04	4.00%	0.04		
		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		

8-channel Adjustable Volume Pipettes

innin in

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	1.50%	0.15	1.50%	0.15		
0.5-10µL	0.1µL	5µL	2.50%	0.125	2.50%	0.125		
		1µL	4.00%	0.04	4.00%	0.04		
		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		

Fixed Volume Pipettes

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



Pipette Filler

Levo Plus

Pipette Filler

Features

- Compatible with most of the plastic and glass pipettes from 0.1 -100mL
- Eight speeds of selection 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

Aspiration and dispensing operation buttons

Large LCD display showing low battery warning and speed settings



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

DIAB Levo Plus

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 (8 shift)
Dispensing Speed	Motor (8 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

Pipette Filler

OVAB LOVO MIL

Levo ME Pipette Filler

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

Features

- Enables single-handed operation with minimum effort
- Compatible with most of the plastic and glass pipettesfrom 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

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ELC.

Pipette Controllers & Pumps

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 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

3µm replaceable Hydrophobic filter

Silicone adapter for 0.1-100mL

pipette tip, fully autoclavable

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

Designed for single-handed 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.



Stepper

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.



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

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	1	2	3	4	5			
0.05ml	Tiul	2,1	3µI	441	5µl			
0.50ml	1 3 µl	20µI	30µ/	40µl	50µl			
	25µ1	50µl	75µI	10001	125µI			
2.50ml	50µ1	100µ/	150µl	200µ1	250µl			
5:00ml	100µI	208µI	300µl	400µI	500µl			
	250µI	500µI	750µl	1000µl	1250µl			
25.00ml	500µ1	1000µl	1500µl	2000µI	2500µl			
50.00ml	1000µl	2000µI	3890 µl	4000µl	5000µl			
Steps	48	23	15	11	8			

Steps

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



Stepper

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	ting	1	2	3	4	5			
Number o	f 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



Electronic Titrator

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 providing excellent precision and accuracy
- Electronic control decreases the repetitive strain injury
- Remote control panel prevents manual disturbance during operation
- Built-in magnetic stirrer support

Specifications

Volume Range	0.01mL-99.99mL, Max piston lift is 10mL, resolution is $10\mu L$				
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				

Electronic Bottle-Top Dispenser

dFlow

Electronic Bottle-Top Dispenser



- Motor operation minimizes the grip force
- Electronic control decreases the repetitive strain injury
- Remote control panel prevents manual disturbance during operation
- Two Dispensing modes:
- dispenser
- stepper function



Specifications

VolumeRange	0.01-99.9mL, Max piston lift is 10mL, resolution is 100 μL				
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				

Bottle-Top Dispensers



Features

- Excellent chemical resistance, components are made of PTFE, FEP, BSG, PP
- Fully autoclavable at 121°C
- Four ranges of bottle-top dispenser covering a volume range from 0.5mL to 50mL
- Easy for cleaning and maintenance
- The optional flexible discharge tube with safety handle permits fast and precise dispensing
- Vapor pressure max. 500mbar, viscosity max. 500mm²/s,
- temperature max. 40°C, density max. 2.2g/cm³
- Dispensemate is supplied with S40, GL32, GL38, GL25, GL28 sized adapters

Specifications

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

Accessories

Cat. No.	Description
17100553	GL45, Adapter, 45mm
17000069	S40, Adapter, 45/40mm
17400131	GL32, Adapter, 45/32mm
17400132	GL38, Adapter, 45/38mm
17400133	GL25, Adapter, 32/25mm
17400134	GL28, Adapter, 32/28mm
17400037	Reagent Bottle (Brown,1L ,Optional)
17400021	Filling tube(m)
17100073	Discharge tube(m)

Vacuum Aspiration System



Hydrophobic filter 0.45µm Φ6mm 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

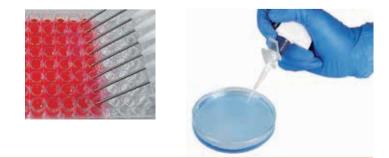
Features

- Vacuum power can be set to different levels to achieve 1mL/S to 15mL/ S aspiration speed
- Sensitive level sensor to prevent liquid overflow during operation
- Fully autoclavable waste collection bottle, tubing and handle
- Lid, tubing and handle are easy for disassembling, cleaning and autoclaving
- Wide range of adapters to fit tube, microplate and disk plate for various tasks
- Interchangeable hand operator -tip adapters make it suitable for various tasks from single channel to 8-channel based on the applications in tube, micro plate, disk plate etc.

Specifications

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

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).



Dispenser & Diluter System



The diluter & dispenser system can greatly improve work efficiency in the sample preparation process, It is widely used in the Analytical Techniques such as High Performance Liquid Chromatography(HPLC), Gas Chromatography(GC), Liquid Scintillation, Atomic Absorption(AA) and Inductively Coupled Plasma Spectroscopy(ICP).It can also be used in forensic Analysis, Mining Industry,Oil Sampling, Environmental Analysis and Reagent Dispensing etc.

DL-D50-Pro

Dispenser & Diluter Systems

Features

- It is ideal for dispensing and diluting applications
- Five operating modes enabling fast and precise operation in priming, titration, volume measurements as well as in diluting, dispensing, mixing, pipetting and rinsing.
- Easy-to-use pipelines and easy-to-switch modes
- The high torque, precision stepper motors provide excellent accuracy
- Full range from 250µL to 25mL
- Compatible with 7 kinds of Syringes
- Adjustable pipetting speed for 9 stages

Specifications

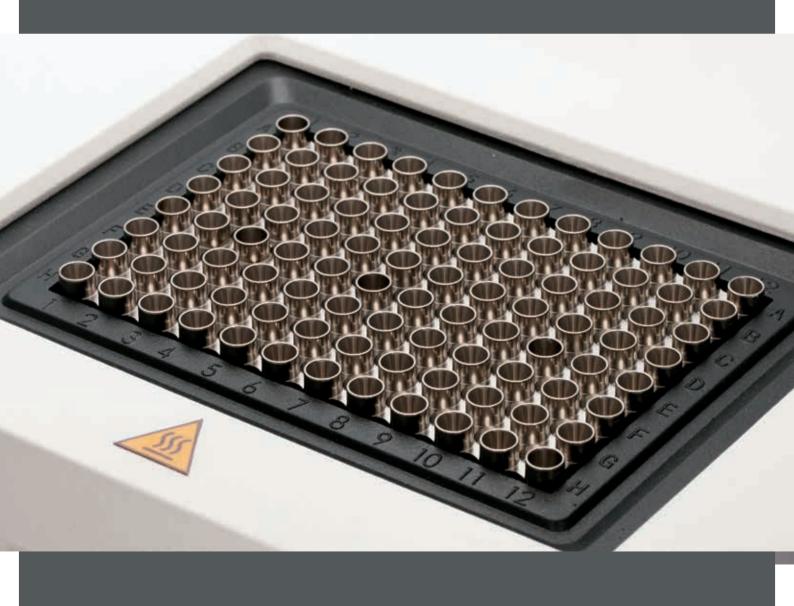
Accuracy	±1%				
Precision	± 0.2%				
Flow Rate	0.003-6000µL/s (depending on the syringe that is selected)				
Compatible Syringes	250, 500μL, 1, 2.5, 5, 10, 25mL				
Fluid Path	Borosilicate, PTFE, CTFE				
Voltage	100-240VAC				
Frequency	50/60Hz				
Dimension[W×D×H]	190×180×350mm				
Weight	4.5kg				
Permissible relative temperature	5-40°C				
Permissible relative humidity	80%RH				

Accessories

Cat. No.	Description
17900094	Syringe,250ul
17900095	Syringe,500uL
17900096	Syringe,1mL
17900097	Syringe,2.5mL
17900098	Syringe,5mL
17900099	Syringe,10mL
17900100	Syringe,25mL



Thermal Control



Thermal Control

TC1000-G

Thermal Cycler Gradient

TC1000-S

Thermal Cycler Standard

Thermal cyclers are essential laboratory instruments in the field of biotechnology, cloning, genotyping, mutagenesis, etc.

The TC1000-G features gradient function to achieve excellent heating and cooling rates and temperature uniformity in a single run, fulfilling every wish for easy optimization of PCR assays with high throughput.

Features

- Reliable heating/cooling elements and precise temperature control
- Unique design of block ensures the temperature uniformity and repeatable results
- 7 inch Large color touch panel screen for easy programming with user friendly software
- High performance DSP and temperature control
- Fast heating and cooling rate
- Large user program storage





Thermal Control



°**C**

Excellent temperature uniformity



Gradient function



LCD touch panel



Excellent temperature accuracy





Specifications

Sample Capacity

TC1000-G

96X0.2mL PCR tube,
8X12 PCR plate or 96 well plate
4-105°C
30-110°C
±0.1°C
±0.3°C
<0.3°C
3°C/Sec
30-99°C
1-42°C
aluminum
7" LCD 800x480
Touch panel
Max. 30 segments 99 cycles max. 16 folder and 16 files each folder
Yes
100-120V/200-240V,50/60Hz
280x370x250 mm

TC1000-S
96X0.2mL PCR tube, 8X12 PCR plate or 96 well plate
4-105°C
30-110°C
±0.1°C
±0.3°C
<0.3°C
3°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

Dry Bath





HB120-S

Dry bath

Features

- A wide range of temperature control up to 120°C
- Timer function support is available
- Various types of optional blocks are available
- Overheating protection
- Lid for protection and heat preservation

Specifications

Functions Temperature range Temperature control accuracy Temperature uniformity Max. heating rate Timer Screen Overheating protection Adapter block material Voltage, Frequency Power Dimension[W×D×H] Weight

HB120-S

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

Cat.No.	Block types	Capacity	Diameter Depth		
18900218		0.2mLx54	6.4mm 15mm	ت س	Adapter block selection
18900219		0.5mLx40	8.2mm 26.4mm		Overheating protection
18900253 (1.5mL) 18900220 (2mL)		1.5mLx40 2mLx40	11mm 34.7mm	T	Timer
18900221		5/15mLx28	17mm 48mm		LED display
18900222	2000	50mLx8	29.8mm 48mm	10	A Constanting
18900224		0.2mL+0.5mL+1.5/2mL 18+18+18	-		a a a a a a a a a a a a a a a a a a a
18900223		96 or 384 well plate	-		·······································

Thermo Mix

HC110-Pro Dry bath with cooling	Cat.No.	Blocks	Speed	Capacity	Diameter x Depth
Features	18900238		1500rpm	24x0.5mL	8.1x26mm
 Precise temperature control for heating and cooling Flexible adapter selection 	18900237		1500rpm	24x1.5mL	10.9x30.8mm
 Programmable Compatible with various tubes 	18900239		1500rpm	24x2mL	10.9x30.8mm
Excellent temperature accuracy	18900240		1500rpm	8x5mL	13.6x42mm
Programmable	18900241		800rpm	8x15mL	6.5x80mm
	18900242		600rpm	4x50mL	29.6x80mm
Adapter self recognition	18900244		1500rpm	well plate	-
Jegg	18900243		1500rpm	0.2mLx96 PCR plate	-

Specifications Functions

			3	
-	_	_	-	
	=	176.6 001001	0//8	
	1400		0	

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

	2.2		
91	1()-P	ro

Heating & cooling
Heating: room temp 110°C Cooling: room temp below room temp. 25°C
± 0.5°C
Max ± 0.5°C
5.5°C/min 2.5°C/min (100°C-room temp.) 0.5°C/min (below room temp.)
TFT
9
150°C
aluminum
100–240V,50/60Hz
200W
200×235×120mm
7.3kg

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

HCM100-Pro

Thermo Mix

HM100-Pro

Thermo Mix with heating

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



Blocks self recognition





Specifications

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

vvelant	

	11	n	<u>n</u>	Pro
	/	U	UE	PTO .

Heating, cooling & mixing
Heating: room temp 100°C Cooling: room temp below room temp. 15°C
± 0.5°C
Max. ± 0.5°C
5.5°C/min
5°C /min(100°C-room temp.)
0.5°C/min(below room temp.)
200-1500rpm
3mm
TFT
9
150°C
aluminum
100–240V, 50Hz/60Hz
200W
200×235×120mm



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- 11	111			ro

Heating & mixing
Heating: room temp 100 °C
± 0.5°C
Max. 0.5 °C
5.5°C/min
-
200-1500rpm
3mm
TFT
9
150°C
aluminum
100-240V, 50Hz/60Hz
200W
200×235×120mm

7.3kg

Water Bath



DLab Water baths are useful to incubate samples at a constant temperature with digital interface to set to desired heating temperature. They are widely used in life science or chemical research laboratories for incubation of cell cultures, heating reagents and are preferred for heating any flammable chemicals.

DWB20-P/DWB20-S

Water Bath





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Features

- DLabwater-bath's maintain stable internal temperature with 20L heating capacity
- Temperature range up to $+100^{\circ}$ C
- LED display of the actual temperature.
- High temperature accuracywith overheating protection
- Precise temperature control with PID controller
- High temperature resistant and corrosion free lid made up of 304 stainless steel.
- The water bath has a dedicated internal magnetic circulation pump for uniform temperature distribution and also helps to prevent water leakage.
- The temperature homogeneity avoids any bumping phenonmenon to occur during usage.

Specifications

Display
Temperature range [°C]
Temperature stability at 37 $^{ m C}$ [$^{ m C}$]
Temperature accuracy at 37 $^{\circ}$ [$^{\circ}$]
Bath volume[L]
Circulating pump
Overheating protection
Temperature sensor
Dimension [mm]
Housing
Parts touch water (including lid)
Weight[kg]
Voltage[V]
Heating power[W]
Ambient temperature [°C]
Ambient humidity [% rHF]

DWB20-P	
LED	
Room temp.+5-100	
± 0.2	
±0.1	
20	
yes	
yes	
PT1000	
667x349x357	
Q235 Plastic panel	
Stainless steel	
17	
220V, 50/60Hz	
1050	
+10~40	

<80

DWB20-S

LED
Room temp.+5-100
±0.5
±0.3
20
No
yes
PT1000
667x349x357
Q235 Plastic panel
Stainless steel
16.2
220V, 50/60Hz
1000
+10~40
<80

Sterilizer

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

ST800-S / ST800-E

Infrared Sterilizer

Features

- DLab sterilizers are 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 of actual temperature with temp. control accuracy of 10°C
- These can be used in biology safety cabinets and clean bench space
- High temperature accuracy with overheating protection
- Precise temperature control precision and adjustable from 300 830°C



ST800-F

Display	
Temperature range [°C]	
Central zone max temperature [° C]	8
Max. outer diameter of sterilized items [mm]	
The total length of heating area [mm]	
Heating tube	
Shell	

total length of heating area [mm]	
Heating tube	
Shell	
Dimensions [LxWxH] (mm)	
Weight[kg]	
Voltage[V]	
Power[W]	

51800-5	S1800-E
LED	/
300~830	830
825 ± 50	825±50
15	15
140	140
Ceramic	Ceramic
ABS	ABS
158x192x290	158x192x290
1.5	1.5
220V, 50/60Hz	220V, 50/60Hz
190	190
-10~50	-10~50
<80	<80
-40~60	-40~60
10~90	10~90

ST800-S

Specifications

Working temperature [° C] Working humidity [% RH] Storage temperature [° C] Storage humidity [% RH] Distilling & Mixing



RotaryEvaporator

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)
- Overheating protection temperature at 220°C
- 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 which is made of PTFE provides an excellent sealing performance
- Remote function provides PC control and data transmission



Large LCD display







Chemical resistance



Overheating protection



Compatible with all range of glassware

S	р	e	Ci	f	ca	ti	0	n	S

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

RE100-Pro

Brushless DC motor
20-280rpm
LCD(speed,temperature, time)
Yes
Room temp. to 180°C
±1°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

Power

Rotary Evaporator | Accessories

Condenser



Vertical

vertical			
Cat. No.	Glassware type	Volume	Cooling surface
18900165	Evaporating flask(NS29/32) Receiving flask(KS35/20)	1000mL	1500cm ²
18900173	Evaporating flask(NS24/40) Receiving flask(KS35/20)	1000mL	1500cm ²
18900166	(COATED)Evaporatingflask(NS29/32) Receiving flask (KS35/20)	1000mL	1500cm ²
18900174	(COATED)Evaporatingflask(NS24/40) Receiving flask (KS35/20)	1000mL	1500cm ²



Diagonal			
Cat. No.	Glassware type	Volume	Cooling surface
18900163	Evaporating flask(NS29/32)Receiving flask(KS35/20)	1000mL	1500cm ²
18900171	Evaporating flask(NS24/40)Receiving flask(KS35/20)	1000mL	1500cm ²
18900164	(COATED)Evaporatingflask(NS29/32) Receiving flask (KS 35/20)	1000mL	1500cm ²
18900172	(COATED)Evaporatingflask(NS24/40) Receiving flask (KS35/20)	1000mL	1500cm ²



Heating Bath		
Cat. No.	Description	Volume
18900201	Rotary Evaporator, 220V	5L
18900202	Rotary Evaporator, 110V	5L



Rotary Evaporator | Accessories

Glassware





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





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

Evaporating flask

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



Foam brake

Cat. No.	Volume	Size
18300093	250ml	NS 29/32
18300207	250ml	NS 24/40



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<u> </u>	20		GG.	10.0

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

Additional

DVR480 Vacuum controller

Specification

Suitable for the vacuum diaphragm vacuum pump controller Pressure stability: ± 0.1 Torr/0.133mbar Nozzle size: 8mm Sensor material: stainless steel

Cat. No.

18900361

Voltage

361

Vacuum controller 100-240V, 50/60Hz



C410 Chemistry-design diaphragm pump

Specification

Maximum Vacuum:13mbar Work Mode: In Successions 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 Noise:50dB



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	12

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



Vacuum regulator/moisture trap

Cat. No.

Description

18900186 IN US instal DVR3 Mate Boros

In use of control small volume, installed in a vacuum between DVR380 and vacuum system. Material: PVDF, PTFE, ABS, Borosilicate Glass, Stainless Steel



Magnetic Hotplate Stirrers

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



1800080

Wide range of accessories



Chemical resistance

Specifications



Work plate Dimension [W x D]
Work plate material
Motor type
Motor rating input
Motor rating output
Power
Heating output
Voltage
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
Dimension [WxDxH]
Weight
Permissible ambient temperature and humidity

Permissible ambient temperature and humidity

184x184mm (7 inch)
Glass ceramic
Brushless DC motor
18W
10W
1050W
1000W
100-120/200-240V 50/60Hz
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
215x360x112mm
5.3kg
5-40°C, 80%RH

moi o	

MS7-H550-S

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 H2O at 20L
- Safety circuits provide overheating protection
- The "HOT" warning will flash if the plate temperature is above 50°C even when the hotplate is turned off
- Wide range timer function from 1 min to 99h59 min(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

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





External sensor



Brushless DC motor



Wide range of accessories



RS232 connector



Chemical resistance

Specifications

Work plate dimension
Work plate material
Motor type
Motor rating input
Motor rating output
Power
Heating output
Voltage
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
Dimension[WxDxH]
Weight
Permissible ambient temperature and humidity

18W
10W
550W
500W
100-120/200-240V 50/60Hz
1
20L
80mm
100-1500rpm resolution±1rpm
LCD
Room temp340°C,
increment 1°C
±1°C(<100°C)
±1%(>100°C) 360°C
±0.1°C
PT1000 (accuracy ±0.2)
50 C
- RS232
IP42
160×280×85mm
2.8kg
5-40°C, 80%RH

MS-H-PRO⁺

φ135mm(5 inch) stainless steel cover with ceramic

Brushless DC motor



MS-H-PRO^T

φ135mm(5 inch)
stainless steel cover with ceramic
Brushless DC motor
18W
10W
550W
500W
100-120/200-240V 50/60Hz
1
20L
80mm
100-1500rpm
resolution±1rpm
LCD
LCD
Room temp340°C, increment 1°C
±1°C(<100°C)
±1%(>100°C)
360°C
±0.1°C
PT1000 (accuracy ±0.2)
50°C
1min to 99h 59min
RS232
IP42
160×280×85mm
2.8kg

5-40°C, 80%RH



MS-H-S

stainless steel cover with ceramic Brushless DC motor 18W 10W 530W 500W 100-120/200-240V 50/60Hz 1 20L 80mm 0-1500rpm resolution±1rpm
18W 10W 530W 500W 100-120/200-240V 50/60Hz 1 20L 80mm 0-1500rpm
10W 530W 500W 100-120/200-240V 50/60Hz 1 20L 80mm 0-1500rpm
530W 500W 100-120/200-240V 50/60Hz 1 20L 80mm 0-1500rpm
500W 100-120/200-240V 50/60Hz 1 20L 80mm 0-1500rpm
100-120/200-240V 50/60Hz 1 20L 80mm 0-1500rpm
1 20L 80mm 0-1500rpm
80mm 0-1500rpm
80mm 0-1500rpm
0-1500rpm
0-1500rpm resolution±1rpm
resolution±1rpm
Scale
Scale
Room temp340°C
-
350°C
±0.5°C
-
-
-
-
IP42
160×280×85mm
2.8kg
5-40°C, 80%RH

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 $\pm 0.5^{\circ}$ 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



MS-H280-Pro

Chemical resistance

Wide range of accessories







Work plate Dimension
Work plate material
Motor type
Motor rating input
Motor rating output
Power
Heating output
Voltage
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
Dimension[WxDxH]
Weight
Permissible ambient temperature and humidity

Specifications

Permissible ambient temperature and humidity

φ135mm(5 inch)
stainless steel cover with ceramic
Brushless DC motor
5W
3W
515W
500W
100-120/200-240V 50/60Hz
1
3L
50mm
200-1500rpm
LED
LED
±1rpm
Room temp280, increment 1°C
±1°C(<100°C) ±1%(>100°C)
320°C
±1℃
PT1000 (accuracy ±0.5°C)
50°C
IP21
150×260×80mm
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
Work plate Dimension	140x140mm	140x140mm	140x140mm
Work plate material	Aluminum cover with ceramic coating	Aluminum cover with ceramic coating	Aluminum cover with ceramic coating
Motor type	Brushless DC motor	Brushless DC motor	-
Motor rating input	2.4W	2.4W	-
Motor rating output	1.8W	1.8W	-
Power	510W	10W	510W
Heating output	500W	-	500W
Voltage	100-120/200-240V, 50/60Hz	100-240V, 50-60Hz	100-120/200-240V, 50/60H;
Stirring positions	1	1	-
Max. stirring quantity[H ₂ O]	5L	5L	-
Max. magnetic bar[length]	40mm	40mm	-
Speed range	200-1500rpm	200-1500rpm	-
Speed display	LCD	LCD	-
Temperature display	LCD	-	LCD
Heating temperature range	Room temp.+5°C - 380°C	-	Room temp.+5°C - 380°C
Over heat Protection	420°C	-	420°C
Temperature display accuracy	±0.1°C	-	±0.1°C
External temperature sensor	PT1000 (accuracy ±0.5°C)	-	PT1000 (accuracy ±0.5°C)
Control accuracy of sensor	±20rpm	±20rpm	-
Protection class	IP21	IP21	IP21
Dimension [W x D x H]	320x180×108mm	320x180×108mm	320x180×108mm
Weight	2.2kg	2.2kg	2.2kg
Permissible ambient temperature and humidity	5-40°C 80%RH	5-40°C 80%RH	5-40°C 80%RH



MS-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

	Moto
	Motor
	Неа
	Stirr
1 m	Max. s
	Max. mag
	Sp
	Sp
	Tempe
	Heating to
-	Overhea
1 Alexandress of the second se	Prot
	Dime

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

MS-H-S10

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

Magnetic Hotplate Stirrers | Accessories



	Cat. No.	Description	MS7-H550-Pro	MS7-H550-S	MS-H-Pro⁺	MS-H-Pro ^T	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		Support clamp of PT1000 Support clamp of PT1000						

Magnetic Hotplate Stirrers | Accessories



			S nd stirrer bar re ise below 150°d Models MS-H280-Pro MS-PA MS-PB	
Cat. No.	Size of stirrer bars (LxØ)[mm]	Suitable for max. stirrer bar 80mm	Suitable for max. stirrer bar 50mm	Suitable for max. stirrer bar 40mm
18900006	10mmx6mm			
18900007	15mmx8mm			
18900008	20mmx8mm			
18900009	25mmx8mm			
12500005	30mmx6mm			
18900011	40mmx8mm			
12500004	51mmx8mm			
18900013	65mmx8mm			
18900014	80mmx13mm			
18900015	Stirrer bar remover, length of 200mm			

Hotplates

HP550-S

LED Hotplate

Features

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





Wide range of accessories



Chemical resistance



Overheating protection



"HOT" warning prevents burning



Spee	cificat	ions

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

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

MS7-S

7" Square Magnetic Stirrer

Features

- Speed range of 0-1500rpm
- Max. stirring quantity of H_2O 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 H_2O 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
Motor input power
Motor output power
Power
Voltage
Stirring positions
Max. stirring quantity[H ₂ O]
Max. magnetic bar[length]
Speed range
Speed display
Protection class
Dimension[WxDxH]
Weight
Permissible ambient temperature and humidity



-	
MS7-S	

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



1012-2
φ135mm(5 inch)
Stainless steel cover with ceramic
Brushless DC motor
18W
10W
30W
100-240V,50/60Hz
1
20L
80mm
0-1500rpm
Scale
IP42
160×280×85mm
2.8kg
5-40°C, 80%RH

MC_C



MS-PA

LED Digital Magnetic Stirrer

Features

- Digital speed control within the range of 100-1500rpm
- Max. stirring quantity of H₂O at 3L
- LED display shows speed
- Nylon+GF housing provides a good performance of chemical resistance

MS-PB

Magnetic Stirrer

Features

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





Chemical resistance



Strong magnetism



LED display



MS-PA

φ135(5 inch)mm N ylon+GF DC motor 5W ЗW 15W 100-120/200-240V,50/60Hz 1 3L 50mm 100-1500rpm LED IP42 150×260×80mm 1.8kg 5-40°C, 80%RH



MS-PB
φ135(5 inch)mm
N ylon+GF
 DC motor
 5W
 3W
 10W
 100-120/200-240V,50/60Hz
 1
 3L
 0-1500rpm
 Scale
 IP42
 150×260×80 mm
 1.8kg
 5-40°C, 80%RH

Specifications

Work plate dimension[WXD]
Work plate material
Motor type
Motor input power
Motor output power
Power
Voltage
Stirring positions
Max. stirring quantity[H ₂ O]
Max. magnetic bar[length]
Speed range
Speed display
Protection class
Dimension[WxDxH]
Weight
Devenienile le enclaient terre eveture en el le verielit.

Permissible ambient temperature and humidity

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



MS-M-S16 16-Position Magnetic Stirrer

Features

- A space saving unit with 16 stirring positions and 4 independent speed control channels
- A wide range of speed from 0 to 1100rpm
- High magnetic adhesion prevents stirrer spin bar out of control
- 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
Motor input power
Motor output power
Power
Voltage
Stirring positions
Max. stirring quantity[H ₂ O]
Max. magnetic bar[length]
Speed range
Speed display
Protection class
Dimension[WxDxH]
Weight
Permissible ambient temperature and humidity





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

MS-M-S16

365×345mm
Stainless steel with silicone coating
DC motor
12W
4W
20W
100-120/200-240V,50/60Hz
16(4 channel)
0.4LX16
40mm
0-1100rpm
Scale
IP21
500×380×65mm
 6kg
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
Motor output power	3W	1.2W
Power	5W	7.2W
Voltage	100-120/200-240,V50/60Hz	100-120/200-240V,50/60Hz
Stirring positions	1	1
Max. stirring quantity[H ₂ O]	0.8L	1.5L
Max. magnetic bar[length]	40mm	40mm
Speed range	15-1500rpm	300-2000prm
Speed setting	button	scale
Protection class	IP65	IP21
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

MS-C series provide remarkable performance in constant speed stirring, cyclic stirring and dual speed stirring with various working modes for cell culture.

MS-C-S1

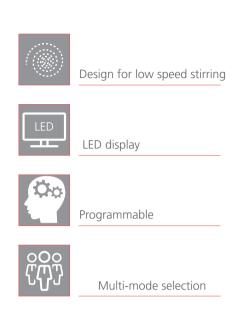
Magnetic Stirrer for Cell Culture

MS-C-S4

4-position Magnetic Stirrer for Cell Culture

Features

- Programmable with multi mode selection
- Digital LED displays the actual speed
- Available in both single position and 4 position
- Low speed prevents cell damage



Double Sidearm Celstir Spinner Flask

The Celstir Spinner Flask features an adjustable paddle blade impeller for better mixing. Cat.No. Volume 18900235 500mL

18900235 500r 18900236 3L



MS-C-S1



Specifications

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

Permissible	ambient	temperature	and	humidity
-------------	---------	-------------	-----	----------

φ105mm
Cast Aluminum
Stepper Motor
15W
100-120/200-240V,50/60Hz
1
3L
80mm
5-200rpm (resolution ±1rpm)
LED
0-49min59s
RS232
IP21
205x250x90mm
2.5kg
5-40°C, 80%RH

MS-C-S4
φ 105mm
Cast Aluminum
Stepper Motor
15W
100-120/200-240V,50/60Hz
4(each point distance 190mm)
3Lx4
80mm
5-200rpm (resolution ±1rpm)
LED
0-49min59s
RS232
IP21
395x450x90mm
5.5kg
5-40°C, 80%RH





LCD display



Torque display



Speed adjusts with change in viscosity



Wide range of accessories

Specifications

Max. stirring quantity[H ₂ O]
Motor type
Motor input power
Motor output power
Voltage
Power
Speed range
Speed display accuracy
Speed display
Torque display
Overload protection display
Max. torque
Viscosity max.
Chuck range diameter
Dimension[WxHxD]
Weight
Protection class
Permissible ambient temperature and humidity
Data connector

DLAB Overhead Stirrers can accomplish the most demanding tasks and provide high safety and increased performance. They are widely used in chemical synthesis, pharmaceutical synthesis, physical and chemical analysis,petrochemical industries, etc.

OS20-Pro OS40-Pro LCD Digital Overhead Stirrer

Features

- High reliability and outstanding performance
- LCD display for precise monitoring of set and actual speeds, a wide range of speed from 50 to 2200rpm with control accuracy of ±3rpm
- Brushless DC motor for long life, maintenance free and explosion proof
- Torque trend display for real-time information on viscosity changes
- Safety circuits allow for safe stop function in anti-stall or overload conditions
- Smooth operation prevents accidental spillage and splashing
- Provides constant speed even with changes in viscosities of the samples
- Remote function provide PC control and data transmission
- Availability of auto-restart function in case of power loss for overnight operations.



OS20-Pro 20L brushless DC motor 60W 50W 100-240V, 50/60 Hz 70W 50-2200rpm ±3rpm LCD LCD LED lights 40Ncm 10000mPas 0.5-10mm 83x220x186mm 2.8kg IP21 5-40°C, 80%RH RS232



OS40-Pro
40L
 brushless DC motor
 120W
 100W
 100-240V, 50/60 Hz
 130W
 50-2200rpm
 ±3rpm
 LCD
 LCD
 LED lights
 60Ncm
 50000mPas
 0.5-10mm
 83x 220x 186mm
 2.8kg
 IP21
 5-40°C, 80%RH
 RS232
NJZJZ

Overhead Stirrers

OS20-S OS40-S

LED Overhead Stirrer

Features

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



Explosion-proof



Wide range of accessories





Specifications

Max. stirring quantity(H ₂ O)
Motor type
Motor input power
Motor output power
Voltage
Power
Speed range
Speed display accuracy
Speed display accuracy Speed display
Overload protection display
Max. torque
Viscosity max.
Chuck range diameter
Dimension[WxHxD]
Weight
Protection class
Permissible ambient temperature and humidity

OS20-S
20L
brushless DC motor
60W
50W
100-240V, 50/60 Hz
70W
50-2200rpm
±3rpm
LED
LED lights
40Ncm
10000mPas
0.5-10mm
83x220x186mm
2.8kg
IP42
5-40°C, 80%RH

OS40-S
40L
brushless DC motor
120W
100W
100-240V, 50/60 Hz
130W
50-2200rpm
±3rpm
LED
LED lights
60Ncm
50000mPas
0.5-10mm
83x.220x186mm
2.8kg
IP42
5-40°C 80%RH

Overhead Stirrers | Accessories

Universal plate stand

Dimension [W x D x H] : 200x310x780mm Material: stainless steel

Cat. No.

18900258



Propeller stirrer

shaft length 400mm stirrer diameter 50mm Material: 316L stainless steel Application: Standard stirring element used at medium and high speeds

Cat. No.



Straight stirrer

shaft length 40cm stirrer diameter 6cm Material: 316L stainless steel Application: Ideal for the mixing of low viscosity media at medium and high speeds



Paddle stirrer

shaft length 40cm stirrer diameter 6.8cm Material: 316L stainless steel Application: Suitable for samples needed gentle processing at low and medium speeds



Centrifugal stirrer

shaft length 40cm stirrer diameter 9cm

Material: 316L stainless steel

Application: Two-bladed stirrer whose blades open with increasing speed. perfect for stirring in round vessels with narrow necks. Medium to high speeds required.

Cat. No.

18900074



Propeller stirrer

shaft length 35cm stirrer diameter 6.5cm Material: PTFE coated Application: Standard stirring element, used at medium and high speeds

Cat. No.



Straight stirrer

shaft length 35cm stirrer diameter 7cm Material: PTFE coated Application: Ideal for the mixing of low viscosity media at medium and high speeds





Paddle stirrer

shaft length 35cm stirrer diameter 6.8cm Material: PTFE coated Application: Suitable for samples needed gentle processing at low and medium speeds

Cat. No.

18900077



Centrifugal stirrer

shaft length 35cm stirrer diameter 8.5cm Material: PTFE coated

Application: Two-bladed stirrer who's blades open with increasing speed. perfect for stirring in round vessels with narrow necks. Medium to high speeds required

Cat. No.

18900078





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.



Wide range of accessories

MX-F Vortex Mixer

Features:

MX-S

- Touch operation or continuous mode
- Fixed Speed 2500rpm
- Used for various mixing applications with optional adapters
- Specially designed vacuum suction feet for body stability
- Robust aluminum-cast construction

MX-S Vortex Mixer

Features:

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

VT1.1 Standard top (Default)

for <Ø30mm tubes and small vessels

Cat. No.18900034



Specifications

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



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

Vortex Mixers	Accessories -
---------------	---------------

AN AN	1	USE	T1.2 Tube holdir ad with tube adapters t. No. 18900044	ig rod	
		VT1.3 Univ Ø 100mm Cat. No.1890003	ersal top plate		
		VT1.3.1 tub for 48 holes test Cat. No.1890002	tubes, Ø6mm		
		VT1.3.2 tub for 15 holes test Cat. No.1890002	tubes, Ø10mm		
		VT1.3.3 tub for 12 holes test Cat. No.1890002	tubes, Ø12mm		
		VT1.3.4 tub for 8 holes test t Cat. No.1890002	ubes, Ø16mm		
		VT1.3.5 tub for 8 holes test t Cat. No.1890002	ubes, Ø20mm		
		VT1.3.6 Pla for <Ø99mm tul Cat. No. 189000	pes and small vessels)
100	Application of Accessories	Adjustable	speed model 00rpm)		
	VTI.1 VTI.2 + VT1.3.1 VTI.2 + VT1.3.2 VTI.2 + VT1.3.3	Touch mode (High speed area) Y Y Y Y Y	Continuous mode (Low speed area) Y	a	
	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	Y Y Y	Y Y Y	VT1.3.7 vacuum chuck made of rubber Cat. No.18900158	K
	VTI.3 + VT1.3.4 VTI.3 + VT1.3.5		Y Y		

Microplate Mixers

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





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



Brushless DC motor



Wide range of accessories



PS1.2 Microplate clamp Cat. No.18900042





MXM-116 Double microplate clamps

Cat. No.18900079

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

MX-M
Orbital
4.5mm
0.5kg
Brushless DC motor
18W
10W
Single microplate: 0-1500rpm Double microplate: 0-1000rpm
Scale
100-240V,50/60Hz
20W
260×150×80mm
3kg
5-40°C,80%RH

IP21

Rotators



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

Rotators

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



LCD display



Wide range of accessories





MX-RL-E

Specifications

MX-RL-Pro

DC motor DC motor Motor type Speed range 10-70rpm 0-80rpm Speed display LCD Scale Timer display LCD Scale 1-1199min Timer 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

Rotators | Accessories



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





Tube Rollers



MX-T6-Pro

LCD Digital Tube Roller

Features

MX-T6-S

Tube Roller

• Speed range of 0-70rpm

Features

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

• Six roller design for gentle rolling and easy to clean

• Continuous or timer operation

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



Timer





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

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

SK-0330-Pro SK-0180-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





SK-O180-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-0180-Е

Economical Digital Orbital Shaker

Features

- Max. load capacity is 3kg with platform
- Speed range of 0-200rpm
- Wide range of platforms for use with a variety of vessels











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

SK-O330-Pro	SK-O180-Pro	SK-O180-S	SK-O180-E
10mm	4mm	20mm	20mm
7.5kg	2.5kg	3kg	3kg
Brushless DC motor	Brushless DC motor	DC motor	DC motor
28W	28W	16W	16W
15W	15W	10W	10W
100-500rpm	100-800rpm	40-200rpm	0-200rpm
LCD	LCD	LED	scale
LCD	LCD	LED	-
1min-19h59min	1min-19h59min	1min-19h59min	-
100-240V,50/60Hz	100-240V,50/60Hz	100-240V,50/60Hz	100-240V,50/60Hz
30W	30W	20W	20W
13.5kg	8.1kg	3.1kg	3.1kg
5-40°C, 80%RH	5-40°C, 80%RH	5-40°C,80%RH	5-40°C, 80%RH
370×420×100mm	300×340×100mm	270×330×110mm	270×330×110mm
IP21	IP21	IP21	IP21
RS232	RS232	-	-



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



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



SK-L180-E

Economical digital Linear Shaker

Features:

- Max. load capacity is 3kg with platform
- Speed range of 0-200 rpm
- Wide range of platforms for use with a variety of vessels











Wide range of accessories



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Amplitude
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

SK-L330-Pro	SK-L180-Pro	SK-L180-S	SK-L180-E
10mm	4mm	20mm	20mm
7.5kg	2.5kg	3kg	3kg
Brushless DC motor	Brushless DC motor	DC motor	DC motor
28W	28W	16W	16W
15W	15W	10W	10W
100-350rpm	100-350rpm	40-200rpm	0-200rpm
LCD	LCD	LED	scale
LCD	LCD	LED	-
1min-19h59min	1min-19h59min	1min-19h59min	-
100-240V, 50/60Hz	100-240V, 50/60Hz	100-240V, 50/60Hz	100-240V, 50/60Hz
30W	30W	20W	20W
13.5kg	8.1kg	3.1kg	3.1kg
5-40°C,80%RH	5-40°C, 80%RH	5-40°C, 80%RH	5-40°C, 80%RH
370×420×100mm	300×340×100mm	270×330×110mm	270×330×110mm
IP21	IP21	IP21	IP21
RS232	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





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

SK-R1807-E

Economical Rocking Shaker

Features:

- Rocking motion angle 7°
- Max. load capacity is 3kg with platform
- Speed range of 0-80rpm
- Wide range of platforms for use with a variety of vessels





Timer



Wide range of accessories







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
Dimension[W×D×H]
Protection class

SK-R330-Pro
9°
10kg
DC motor
40W
24W
10-70rpm
LCD
LCD
1min-19h59min
100-240V, 50/60Hz
50W
9kg
5-40°C, 80%RH
360×410×200mm

IP21

DUS DE DES S

SK-R1807-S
7°
Зkg
DC motor
16W
10W
10-80rpm
LED
LED
1min-19h59min
100-240V, 50/60Hz
20W
3.2kg
5-40°C, 80%RH
270×330×130mm

IP21

SK-R1807-E
7°
3kg
DC motor
16W
10W
0-80rpm
-
-
-
100-240V, 50/60Hz
20W
3.2kg
5-40°C, 80%RH

270×330×130mm

IP21

SK-D3309-Pro

LCD Digital 3D Shaker

Features

• Three-dimensional rocking motion with an angle of 9°

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- 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

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





SK-D1807-E

Economical 3D Shaker

Features

- Three-dimensional rocking motion with the angle of 7°
- Max. load capacity is 3kg with platform
- Speed range of 0-80rpm
- Wide range of platforms for use with a variety of vessels



Timer



Wide range of accessories





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
Dimension[W×D×H]
Protection class
Data connector

SK-D3309-Pro
9°
5kg
DC motor
40W
24W
10-70rpm
LCD
LCD
1min-19h59min
100-240V, 50/60Hz
50W
9kg
5-40°C, 80%RH
360×430×106mm
IP21

-

SK-D1807-S
7°
3kg
DC motor
16W
10W
10-80rpm
LED
LED
1min-19h59min
100-240V, 50/60Hz
20W
2.7kg
5-40°C,80%RH
270×330×130mm
IP21

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SK-	D1	80	7-	E
JK-	-	00		-

7°
3kg
DC motor
16W
10W
0-80rpm
scale
-
-
100-240V, 50/60Hz
20W
2.7kg
5-40°C, 80%RH
270×330×130mm
IP21
_

Shakers | Accessories

	and the second sec	Cat. No.	Description	SK-O330-Pro SK-L330-Pro SK-R330-Pro SK-D3309-Pro	SK-O180-Pro/S/E SK-L180-Pro/S/E SK-R1807-S/E SK-D1807-S/E
SK330.5		18900155	Dish platform with non-slip mat and fixed string (8pcs) Dimension[WxD]: 30x28.5cm		
SK180.4		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		
SK330.1	A CONTRACTOR	18900027	Universal attachment with 4 bars Dimension[WxD]: 30x30cm	•	
SK330.3	La calification	18900040	Lengthways roller attachment Dimension[WxD]: 30x30cm	•	
SK180.1	The Day of the last	18900025	Universal attachment with 3 bars Dimension[WxD]: 24x24cm		•
SK180.3	Real Market	18900038	Lengthways roller attachment Dimension[WxD]: 24x24cm		•
	6	18900036	Bar for SK330.1 universal attachment	•	
	t	18900037	Bar for SK180.1 universal attachment		•
		18900280	Connect sticks for double dishes shaker		

Shakers | Accessories

AL BE				
	Cat. No.	Description	SK-O330-Pro SK-L330-Pro SK-R330-Pro SK-D3309-Pro	SK-O180-Pro/S/E SK-L180-Pro/S/E SK-R1807-S/E SK-D1807-S/E
SK330.2	18900028	Fixing clip attachment		
SK180.2	18900026	Fixing clip attachment		•
	18900029	Fixing clip for flask volume 25mL, used with SK330.2[28pcs] SK180.2[9pcs]		•
R	18900030	Fixing clip for flask volume 50mL, used with SK330.2[16pcs] SK180.2[9pcs]	•	-
R	18900031	Fixing clip for flask volume 100mL, used with SK330.2[16pcs] SK180.2 [9pcs]	•	-
R	18900032	Fixing clip for flask volume 200/250 mL, used with SK330.2[9pcs] SK180.2[4pcs]		•
B	18900033	Fixing clip for flask volume 500mL, used with SK330.2[9pcs] SK180.2[2pcs]	•	-

Centrifuges



Palm Micro Centrifuges

D1008 series

Palm Micro Centrifuge

Features

- Ideal for microfiltration and quick spin-downs
- Easy-to-use with dual start/stop function
- 7000rpm fixed speed(D1008)
- Compatible with 2mLx8 and PCR8x2 rotors
- Quiet running, noise level ≤45dB
- Rotor change without tools
- Accelerates and brakes in seconds
- Available in two colors i.e., green, blue







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Specifications	D1008
Max. Speed	7000rpm
Max. RCF	2680×g
Rotor Capacity	0.2/0.5/1.5/2.0mL×8; 0.2mL×16 PCR strips or 0.2mL×2 PCR 8 strips
Run Time	Continuous operation
Driving Motor	DC motor
Power	AC100-240V/50Hz/60Hz 20W
Noise Level	≤45dB
Dimension [D×W×H]	160x170x122mm
Weight	0.5kg
Certification	CE cTÜVus FCC MCA

Palm Micro Centrifuges | Rotors and Adapters



Available rotors

A08-2

Cat. No. 19400015

Max. speed:7000/5000rpm Max. RCF:5460/2680/1360×g Rotor capacity:2mL/1.5mL×8,0.2mL×8,0.5mL×8 Rotor material:High strength plastic Available rotor adapters:SA02P2, SA05P2



A02-PCR8

Cat. No. 19400017

Max. speed: 10000/7000/5000rpm Max. RCF: 5460/2680/1360×g Rotor capacity: 0.2mL×16 PCR strips,0.2 mL×2 PCR 8 strips Rotor material: High strength plastic

Available adapters

Cat. No. 19400029

Cat. No. 19400026

SA02P2

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

SA05P2

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





High Speed Micro-Centrifuges

High Speed Micro Centrifuge

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

Precise control

- Brushless DC motor accelerates quickly to the set speed
- High accuracy of speed in ±20 rpm
- Digital timer adjustable from 30 sec. to 99 min or set for continuous run
- Timer starts only when the set speed is achieved and then maintains the accuracy of separation time.

Conforms to international safety standards and regulations

- DLAB centrifuges passed CE, cTUVus and FCC requirements. certifications, they are certified by TUV. All DLAB test items are proven with the high level of reliability and confidence according to IEC/ EN 61010-1, and pass MCA test according to IEC/EN61010-2-20, including explosion-proof and bio-safe tests.
- Quiet operation, maximum reliability
- High strength metal casing ensures security during centrifugal process
- Dual door interlock design for safety(D3024 & D3024R)
- Gentle braking at low speed with efficient separation

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 is used for quick spins by pressing and holding PULSE key. The centrifuge speed can be accelerated and held at the target speed
- Automatic lid-lock release prevents sample warming and allows easy access(excluding D3024R)
- Concise display and Sound-alert



D2012 series

D2012 plus

High Speed Mini Centrifuge



Brushless DC motor

LCD display

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Features

- Powerful centrifugal force of 15100xg and max. speed of 15000rpm ideal for various applications
- Brushless DC motor drive quickly accelerates the rotor to set speed
- Quiet working, Low noise ≤56dB
- D2012 is proven by IEC/EN 61010-1
- D2012 Plus passed the rigorous explosion-proof test and accredited with CE, cTUVus, FCC certificates, and MCA test. MCA test according to IEC/EN61010-2-20

Available rotors



A12-2P for D2012plus only

Max. speed: 15000rpm Max. RCF: 15100×g Rotor capacity: 2mL/1.5mL×12,0.2mL×12,0.5mL×12 Rotor material: High strength plastic Available rotor adapters: A02P2,A05P2

Available adapters



Cat. No. 19500001

Cat. No. 19400010

A02P2

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

Cat. No. 1950002

A05P2

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

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Sp	ecit	icati	ons

CD

Max. Speed

Max. RCF Speed Accuracy Rotor Capacity Run Time Driving Motor

Safety Devices

Power

Noise level Acceleration /Braking time Dimension[D×W×H] Weight Certification

Advanced features

D2012 plus
15000rpm(500-15000rpm), increment: 100rpm
15100×g, increment: 100×g
±20rpm
0.2mL/0.5mL/1.5mL/2mL×12
30sec-99min/Continuous
Brushless DC motor
Door interlock, Over-speed detection, Over-temperature detection, Automatic internal diagnosis
Single-phase, AC100V-240V, 50Hz/60Hz, 3A 100W
≤54dB
11s ↑ /9s ↓
255×245×140mm
6kg
EMC, CE, FCC, ICES, cTUVus, CB
Speed/RCF switch, Short-time run function, sound-alert function

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D3024 series

D3024

High Speed Micro Centrifuge

Unique Features

- Special multi-flow air cooling design with patent ensures fast cooling of the rotor and low energy consumption
- Unique temperature display appropriate for gentle handling of sensitive samples
- Bio-safe rotor/anti-sample overflow prevents accidental leakage during centrifugal process allowing risk-free microbial contamination
- 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





D3024R High Speed Refrigerated Micro Centrifuge

Powerful cooling system for precise temperature control

- Pre-cooling program ensures optimal protection of the sample before warming
- Guaranteed 2°C cooling within only 7 minutes of both chamber and samples even at maximum speed and capacity utilization
- Sound-alert allows your undivided attention on other tasks warming
- Lid lock facility allows for internal temperature maintenance even after centrifugation
- Intermittent temperature control mode, CFC-free refrigerant and low carbon life rotor capacity
- Bio-safe rotor/anti-sample overflow prevents accidental leakage during centrifugal process allowing risk-free microbial contamination
- High strength aluminum alloy rotor can be fully autoclaved for unlimited service life
- Four rotors are optional complete with 24 place 1.5/2.0mL tubes,bigger 5.0mL, smaller 0.2mL and 0.5mL tubes with the use of adapters
- Quiet running, noise level \leq 54dB

D3024 series



Brushless DC motor



Wide range of rotors



D3024



D3024R

15000rpm(200-15000rpm),

increment:10rpm

21380×g, increment: 10×g

±20 rpm

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Specifications

Max. Speed
Max. RCF
Speed Accuracy
Temperature Range

Rotor Capacity

	 	-	-	-	-	-	-	-	-	-	-	-	-	-	-					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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Safety Devices

Power

Acceleration /Braking time [Sec] Dimension[W×D×H] Weight Certification Advanced Features

Noise Level

15000rpm(200-15000rpm), increment:10rpm 21380×g, increment:10×g ±20 rpm -5mL×18, 5mL culture tubex12 0.2mL/0.5mL/1.5mL/ 2mL×24, 0.5mL×36, PCR8×4 30sec-99min/Continuous Brushless DC motor Dual door interlock,

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

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

25s ↑ 25s ↓

280×364×266mm 12kg CE cTÜVus FCC MCA Speed/RCF switch; Short-time run function; sound-alert function

≦64dB

-20°C-40°C 5mL×18, 5mL culture tubex12 0.2mL/0.5mL/1.5mL/ 2mL×24, 0.5mL×36, PCR8×4 30sec-99min/Continuous Brushless DC motor Dual door interlock, Over-speed detection, Over-temperature detection, Automatic internal diagnosis Single-phase, AC200V-240V, 50Hz/60Hz, 10A, AC100V-120V, 50Hz/60Hz, 10A, 400W

25s ↑ 25s ↓

338×580×324mm

30kg

CE cTÜVus FCC MCA

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

≦56dB





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 & D3024R with bio-safe 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 explosion-proof and bio-safe 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

D3024 series

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.

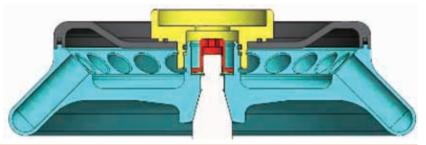
Bio-safe

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.

Explosion-proof

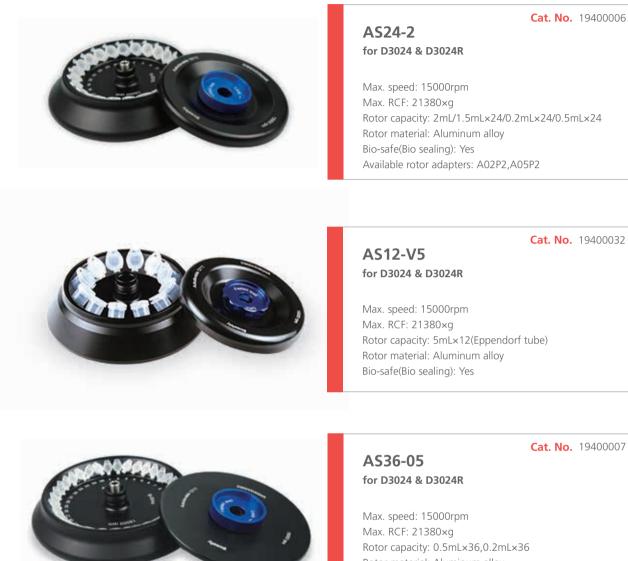
DLAB centrifuges are constructed under MCA conditions according to IEC/ EN61010-2-20, causing disruption by partially cutting and overloading rotor assembly, and guarantee that no part shall be detached to cause danger to person or the environment.

Three rubber seals fitted to achieve bio-safe condition



Seals within the aluminum alloy rotor

D3024 series | Rotors and Adapters



Available rotors

Cat. No. 19400006

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

Rotor material: Aluminum alloy Bio-safe(Bio sealing): Yes Available rotor adapters: A02P05



AS4-PCR8 for D3024 & D3024R

Max. speed: 15000rpm Max. RCF: 21380×g Rotor capacity:0.2mL/PCR8×4 Rotor material: Aluminum alloy Bio-safe(Bio sealing): Yes

Cat. No. 19400008

D3024 series | Rotors and Adapters



Cat. No. 19400012

AS18-5 for D3024 & D3024R

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

Available adapters

A02P2



Cat. No. 19500001

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

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Cat. No. 19500002

Cat. No. 19500003

A05P2

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

A02P05

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



DM1424 series



Advanced features

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



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Specifications	DM1424
Speed Range	200-14000rpm, increment: 10rpm
Max. RCF	18620×g
Speed Accuracy	±20
Rotor Capacity	2 type
Run Time	30sec-99min/Continuous
Motor	Brushless DC motor
Display	LCD
Safety Devices	Door interlock,Overspeed detector; Over-temperature detector, Automatic internal diagnosis, Automatic rotor identification
Acceleration/Braking time	30s † 30s ↓
Power	Single-phase, 200V-240V,50Hz/60Hz, 5A; 100V-120V,50Hz/60Hz, 5A 500W
Dimension[WxDxH]	280×364×266mm
Weight	10kg
Certification	CE cTÜVus FCC MCA IVD

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

DM1424 series | Rotors and Adapters



Available rotors

A24- 2P

Cat. No.19400013

Cat. No. 19400046

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



AC24

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

Available adapters

Cat. No. 19500001

A02P2

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

Cat. No. 19500002

Cat. No. 19500003

A05P2

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

A02P05

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



Clinical Centrifuges

DLAB clinical centrifuges are widely used in the separation of serum, plasma, urea, blood samples and other routine applications in hospital and research laboratories.

Conforms to international safety standards and regulations

- DLAB clinical centrifuges are marked with CE, cTUVus and FCC, and passed the 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 operation
- Dual protection housing particularly advantageous for safe running
- Brushless DC motor precisely accelerates to the set speed











Precise control

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

Ergonomic design

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

DM0412 series

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

They are widely used in medical and veterinary practices for the centrifugation of blood and urine samples in qualitative analysis of water and soil samples. 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 motors
- Quick spin function with press and hold pulse key
- Lid with electric lock and automatic release function saves processing time and prevents samples overheating
- Automatic self-diagnosis on startup showing accumulative running time and last running parameters
- Braking time 2 gears adjustable(for A6-50P rotor)
- A12-10P and A6-50P are not interchangeable

DM0412S Economical Clinical Centrifuge

Features:

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





DM0412 series





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DM0412

300-4500rpm, increment: 100rpm 2490×g ±20rpm A12-10P, A6-50P 30sec-99min HOLD(Continuous operation) Brushless DC motor LCD Door interlock, Overspeed detector; Automatic internal diagnosis A12-10P: 20s ↑ 13s ↓ A6-50P: 20s ↑ 20 s /90 s ↓ Single-phase, 100V-240V,50Hz/60Hz, 3A 70W 301×354×217mm 6kg CE, UL, IVD

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

DM0412S
300-4500rpm, increment:100rpm
2490×g
±100rpm
A12-10P
1sec-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 301×354×217mm 6kg

sound-alert function



Specifications

Speed Range

Max. RCF

Speed accuracy

Rotor type

Run Time

Motor

Display

Safety Devices

Acceleration/Braking time

Power

Dimension[WxDxH]

Weight

Certification

Advanced features

DM0412 series | Rotors and Adapters

Available rotors





A12-10P for DM0412 & DM04125 Cat. No. 19200348

r DM0412 & DM0412S

Max. speed: 4500rpm Max. RCF: 2490×g Rotor capacity: 8x15mL,12x10mL Rotor material: High strength plastic

Cat. No. 9034002125

For DM0412(A6-50P)

A6-50P

Max.speed: 4000rpm Max.RCF: 1800×g Rotor capacity: 50ml×6,15ml×6 Rotor material: High strength plastic

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	9.8	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.



DLAB DM0636 Multi-Purpose Clinical 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 Clinical 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 accessories(fixed angle and swing-out bucket rotors)
- Automatic rotor identification
- Timers can be set up to 99 min. for short run/ continuous run
- 9 procedures stored in memory makes the operation much simplified
- Maintenance-free brushless DC motors



DM0636

Specifications

Speed range	300-6000rpm increment:10rpm
Max. RCF	4300xg
Speed accuracy	±20rpm
Temperature Range	-
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 time	9↑/10↓
Power	660W; Single-phase AC220V-240V, 50Hz/60Hz, 6.3A; AC110V-120V,50Hz/60Hz,10A
Dimension[WxDxH]	445x579x269mm
Weight	36kg
Certification	CE cTÜVus FCC IVD
Advanced features	speed/rcf switch; Rotor identification

DM0636 series | Rotors and Adapters

						Uncapping k for S4-100 rotor	block				
				•		SE4-100(Stand for DM0636 & DM Max. speed: 4000rp Max. RCF: 2910×g Rotor material: stain	0636R m	ory)	No. 19400 dapter	0041	
	1940	0045	E	2 19400044	l	19400043		Ę	19400042	1	
bucket 	х З			x 16		x 4 x 8	x 4	x 4	x 4	x 8	x 20
Nominal volume	3-7		10mL	12mL	15mL	50mL	100mL	85mL	50mL	15mL	3-7mL
φ×L mm	13×75	13×100	15×100	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	Ū	Ū	Ų		Ū	Ū	Ų	U
adapter	with plug						A100	0P80	DD A100P50)) A100P15	() A100P10
Package	36						4	4	4	8	4
Tubes per rotor	36	36	16	16	16	8	4	4	4	8	20
Radius(mm)	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

DM0636 series | Rotors and Adapters



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DM0636 series | Rotors and Adapters









Available rotors

AS6-50V DM0636

Max. speed: 6000rpm Max. RCF: 41000×g Rotor capacity: 50mL×6 Rotor material: aluminum Bio-safe(Biosealing): Yes

AS18-5V DM0636

Cat. No. 19400035

Cat. No. 19400038

Max. speed: 6000rpm Max. RCF: 4020×g Rotor capacity: 5mL×18 Rotor material: stainless steel body and aluminum buckets

A8-50

Cat. No. 19400039

DM0636

Max. speed: 5000rpm Max. RCF: 3910×g/3400xg Rotor capacity: 50mL×8 or 15mLx16 Rotor material: aluminum body and stainless steel adapter

A30-15 DM0636

Cat. No. 19400040

Max. speed: 4500rpm Max. RCF: 3260xg/2910xg Rotor capacity: 15mL×30 Rotor material: aluminum body and stainless steel adapter Bio-safe(Biosealing): Yes

Capacity	3-7mL Blood collection tube	10mL Blood collection tube	12mL urine tube	15mL
φ×L mm	13×75	13×100	17×105	17×120
Tubes Quantity	30	30	30	30

Spectrophotometer

Spectrophotometer

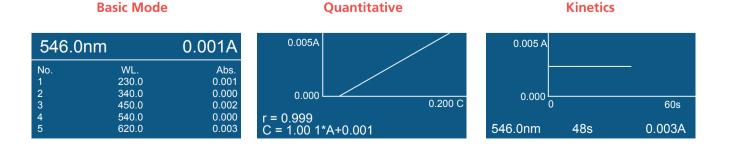
SP-V1000/SP-UV1000/SP-V1100/ SP-UV1100

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 provides high resolution, high performance and excellent stability.



Features

- User Friendly Operation and Information Rich LCD Display: The large 128 x 64 dots, backlit LCD screen with adjustable brightness control displays a large array of data also in graphical format.
- **On-Board Data Storage:** The System can save the test results, up to 200 groups of data and 200 standard curves in the RAM memory.
- Data can be restored after a sudden power failure.
- Auto setting wavelength: To set wavelength automatically to calibrate the system through arrow keys to avoid operation errors.
- Automatic Switching: Tungsten& Deuterium lamps switching is automatic. Selectable from a wavelength range of 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 for the spectrophotometer(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.



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SP-UV1000

Single Beam

Tungsten lamp &

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



SP-V1100

Single Beam



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 10kg

12kg

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 10kg

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

12kg

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Spectrophotometer | Accessories



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)