







MISCELLANEOUS



THERMAL CONTROL



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.

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

"DLAB is always your accessible solution"







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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:

EN 61010-1 UL 3101-1 CAN/CSA C22.2(1010-1)

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

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



dPette+ (

dPette

Specifications

	Volume Range	Increment	Test	Error li	mits in a	ccordance to ISO8655-2			
Channels	volume kange	increment	Volume	accui	acy erroi	preci:	sion error		
Chameis	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		0.1	50	±0.40	±0.80	0.15	0.30		
I	5-50		5	±0.15	±3.00	0.125	2.50		
1	20.200	1	300	±1.80	±0.60	0.60	0.20		
I	1 30-300		30	±0.90	±3.00	0.21	0.70		
4	100 1000			±6.00	±0.60	2.00	0.20		
1	100-1000 5	100	±3.00	±3.00	0.60	0.60			

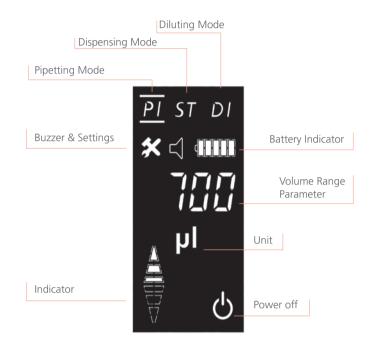
^{*} s.d. = Standard Deviation

^{*}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.







MicroPette plus

121°C **FULLY**

Features

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

MicroPette plus multi-channel



Features

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





8 channels

Fully autoclavable

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

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







MicroPette

Features

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





MicroPette multi-channel



Features

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





8 channels

Calibration

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

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

Online calibration software is FREE to DLAB pipette users



Mechanical Pipette Volume Selection

Specifications

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

		Single-c	hannel Adjustal	ole Volume Pipet	tes			
			Error limits in accordance with ISO8655-2					
Volume Range	Increment	Test Volume	(Accura	cy error)	(Precision error)			
			%	μL	%	μL		
		2.5µL	2.50%	0.0625	2.00%	0.05		
0.1-2.5µL	0.05µL	1.25µL	3.00%	0.0375	3.00%	0.0375		
		0.25µL	12.00%	0.03	6.00%	0.015		
		10µL	1.00%	0.1	0.80%	0.08		
0.5-10µL	0.1µL	5µL	1.50%	0.075	1.50%	0.075		
		1µL	2.50%	0.025	1.50%	0.015		
		20µL	0.90%	0.18	0.40%	0.08		
2-20µL	0.5μL	10µL	1.20%	0.12	1.00%	0.1		
		2µL	3.00%	0.06	2.00%	0.04		
		50μL	0.60%	0.3	0.30%	0.15		
5-50µL 0.5µL	0.5µL	25µL	0.90%	0.225	0.60%	0.15		
		5µL	2.00%	0.1	2.00%	0.1		
10-100μL 1μL		100μL	0.80%	0.8	0.15%	0.15		
	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	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		

Mechanical Pipette Volume Selection

	8-0	channel Adj	ustable Vo	lume Pipet	ttes		
			E	rror limits in a	ccordance with		
Volume Range	Increment	Test Volume	(Accurac	cy error)	(Precision	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	
	12-	channel Adj	iustable Vo	olume Pipe	ttes		
					ccordance with		
Volume	Increment	Test Volume		ISO86	ISO8655-2		
Range	Incicinent	icst volume	(Accurac	cy error)	(Precisio	n error) 	
			%	μL	%	μL	
0.5-10µL 0.1µL	10µL	1.50%	0.15	1.50%	0.15		
	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 Pip	oettes			
Volume			E	rror limits in a	ccordance with 555-2		
Range	Increment	Test Volume	(Accurac	cy error)	(Precision	n 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	

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<7 seconds
- 0.45µm replaceable hydrophobic filter
- Rechargeable during use

Aspiration operation buttons

Operating button for motor and gravity dispensing

Hydrophobic filter 0.45µm

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

Large LCD display showing low battery warning and speed settings

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







Specifications

Aspiration Speed	25mL<7s (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

Levo ME

Pipette Filler

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

Features

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



Specifications

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



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

Levo E

Pipette Pump

Features

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

3µm replaceable Hydrophobic filter

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



Designed for 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.

StepMate

Stepper

Features

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

Optimized for smooth dispensing of even the smallest volumes

Five easy-to-select settings control dispensing volume

By pushing the slide upwards, the syringe is filled up

How to select dispensing volume

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

Tip volume

Dispensing Volume

Tips Sel.				4	5
0.50ml	10µl	20µI	30µІ	40µl	50µl
1.25ml	25µ1	50µl	75µl	100µ1	125µl
2.50ml	50µt	10001	150µl	200pl	250µI
5.00ml	100µl	200µl	300µl	400µl	500µl
12.50ml	250µI	500µ1	750µI	1000µl	1250µ
25.00ml	500µI	1000µl	1500pl	2000µ	2500µl
50:00ml	1000µl	2000µI	3000µ1	4000µl	5000#
Steps	48	23	15	11	8

Steps

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.



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

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



Cat. No.	Syringe volume (mL)		Sam	ıple volı (µL)	ume		A %	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.



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

Electronic Bottle-Top Dispenser

dFlow

Electronic Bottle-Top Dispenser

Features

- 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 and stepper function options



Specifications

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

Bottle-Top Dispensers



Easy-to-use volume adjustment

Smooth piston design provides effortless dispensing

Closure cap protects, against reagent contact and is easy to attach/detach, without taking gloves off.



Filling tube adjusts easily for different size bottles



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

G . N	Volume	Graduation	A	≤±	CV≤	
Cat. No.	Cat. No. Range 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



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

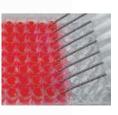
Specifications

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

Hydrophobic filter 0.45μm Φ6mm

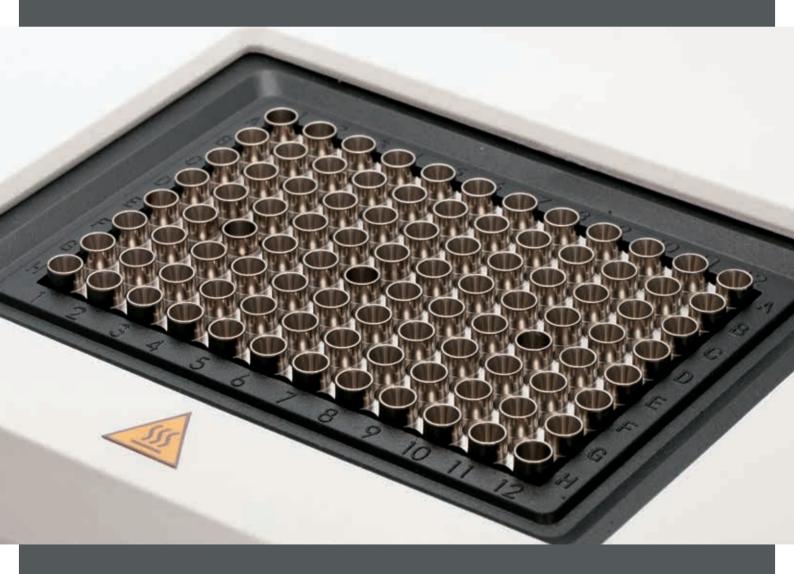
Wide range of adapters fit well with tube, microplate and disk plate for various of tasks, all of which can be fully autoclaved (At 121°C 1 bar for 20 minutes. After autoclaving the equipment must be cooled down before use).











Thermal Cyclers

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 Cyclers





Excellent temperature uniformity



Gradient function



LCD touch panel



Excellent temperature accuracy





Specifications

Sample Capacity

Heating Temperature Range Lid Temperature Range Temperature Display Accuracy Temperature Control Accuracy [at 55°C] Temperature uniformity[at 55°C] Max. Heating/Cooling Rate Gradient Temperature Setting Range Gradient Range Adapter block material Display Input User defined file system Power off protection

Power Supply

Dimension[WxDxH]

Weight

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

11kg

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

HB120-S

Dry bath

Features

Dimension[W×D×H]

Weight

A wide range of temperature of Timer function support is availa Various types of optional blocks Overheating protection Lid for protection and heat pres	ble s are available	
Specifications	HB120-S	
Functions	Heating	
Temperature range	Room temp120°C	
Temperature control accuracy [at 37°C]	± 0.5°C	
Temperature uniformity	± 0.5°C	
Max. heating rate	5.5°C/min	AND SHIP
Timer	0min-99h59min	
Screen	LED	
Overheating protection	140°C	
Adapter block material	aluminum	
Voltage, Frequency	100-120V/220-240V,50Hz/60Hz	
Power	160W	

175 x 290 x 85mm

3kg

Cat.No.	Block types	Capacity	Diameter Depth
18900218		0.2mLx54	6.4mm 15mm
18900219		0.5mLx40	8.2mm 26.4mm
18900253 (1.5mL) 18900220 (2mL)		1.5mLx40 2mLx40	11mm 34.7mm
18900221		5/15mLx28	17mm 48mm
18900222	2000	50mLx8	29.8mm 48mm
18900224		0.2mL+0.5mL+1.5/2mL 18+18+18	-
18900223		96 or 384 well plate	-



Adapter block selection



Overheating protection



Timer



LED display



Dry Bath



Mini HCL100 Mini HC100 Mini H100 Dry Bath

Features:

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

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

Cat.NO.	Block types	Capacity	Diameter x depth
18900414		0.2ml×40	6.4×20 mm
18900415		0.5ml×24	8.2×28.4mm
18900416		1.5mL×15	11.2×31mm
18900428		2ml×15	11×31mm
18900417	000	5mL×6	17×31mm
18900426	3	15ml×4	16.4×45mm
18900427		50ml×2	29×45mm

Specifications	Mini HCL100	Mini HC100	Mini H100
Display	LCD	LCD	LCD
Temperature setting range[°C]	0-100	0-100	25-100
Temperature range [°C]	Room temperature-23~100	Room temperature-23~100	Room temperature+5~100
Temperature control accuracy[°C]	±0.5	±0.5	±0.5
Temperature display accuracy[°C]	0.1	0.1	0.1
Minimum time taken for heating(25°C-100°C)	≤20min	≤20min	≤20min
Minimum time for cooling (20°C-0°C)	≤25min	≤25min	/
Max. Heating Rate	8°C /min	8°C /min	6.5°C /min
Max. Cooling Rate	3°C /min	3°C /min	/
Time setting range	0-999min/0-999sec	0-999min/0-999sec	0-999min/0-999sec
No. of programs in memory	9(2steps for each)	9 (2steps for each)	9(2steps for each)
Rapid calibration	Support	Support	Support
USB interface	Support	Support	Support
Error code reminder	Support	Support	Support
External dimension [mm]	110x162x140	110x162x140	110x162x140
Overall weight [kg]	≤1	≤1	≤1
Power supply	DC12V,100-240V, 50/60Hz	DC12V,100-240V, 50/60Hz	DC12V,100-240V, 50/60Hz
Power[w]	60	60	60
Operating temperature[°C]	+10-40	+10-40	+10-40
Operating humidity [% RH]	≤80	≤80	≤80

Thermo Mix

HC110-Pro Dry bath with cooling	Cat.No.	Blocks	Speed	Capacity	Diameter x Depth	
Features	18900401		1500rpm	24x0.5mL	8.1x26mm	
 Precise temperature control for heating and cooling Flexible adapter selection 	18900402		1500rpm	24x1.5mL	10.9x30.8mm	
 Programmable Compatible with various tubes Quick interchange of blocks with magnet adhesion technology and 	18900403		1500rpm	24x2mL	10.9x30.8mm	
without any tools • Block equipped with a lid for heat preservation	18900404		1500rpm	8x5mL (round bottom)	13.6x42mm	
Excellent temperature accuracy	18900405	2222	1400rpm	8x5mL (cone bottom)	17x51.5mm	
O o	18900406	-	800rpm	8x15mL	16.9x80mm	
Programmable	18900407		600rpm	4x50mL	29.6x80mm	
Adapter self recognition	18900420		1500rpm	0.2mLx96 PCR plate	-	
	18900423		1500rpm	microplate	-	
777		Specifications		HC110-Pro		
		Functions		Heatin	g & cooling	
		Temperature range	C	Heating: roo poling: room temp.	m temp 110°C - below room temp. 25°C	
	Tempera	ature setting range specific	ations	-5-	-110°C	
3 = = = = =	Tempera	ture control accuracy[@20-	-45°C]	±	0.5°C	
	Temp	Temperature uniformity[@20–45°C]		Max ± 0.5°C		
		Max. heating rate		5.5°C/min		
0.00		Max. cooling rate		2.5°C/min (100°C-room temp.) 0.5°C/min (below room temp.)		
COT 00100 1400		Screen			TFT	
		Program			9	
		Overheating protection		1	50°C	
		Adapter block material			minum	
		Voltage, Frequency		100–240V,50/60Hz		
		Power		2	200W	
	(\	Dimension[W×D×H] without the heating block)		200×2	35×120mm	

Weight

7.3kg

Thermo Mix

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
- Quick interchange of blocks with magnet adhesion technology and without any tools
- Block equipped with a lid for heat preservation



Blocks self recognition

Specifications

Functions

Temperature range

Temperature setting range specifications

Temperature control accuracy[@ 20-45°C]





Heating, cooling & mixing

Heating: room temp. - 100°C Cooling: room temp. - below room temp. 15°C

0.1~100°C

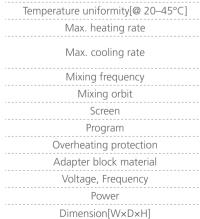
HM100-Pro

Heating & mixing

Heating: room temp. - 100 °C

15~100°C





(without the heating block) Weight

Distilling



Rotary Evaporator

RE100-Pro

Digital Rotary Evaporator



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

Features:

- Digital display of both rotation speed and heating temperature allows for optimal control of all distillation processes
- Automatic motor lift releases the evaporating flask to a safe position in case of power failure
- 5L heating bath with wide temperature range from room temp. to 180°C), Water/oil heating mode can be changed only through a switch
- Overheating protection temperature at 220°C
- 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



USB connector



Chemical resistance



Overheating protection



Compatible with all range of glassware

Specifications

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

Power

RE100-Pro

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

Rotary Evaporator

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

Features:

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



USB connector



Chemical resistance



Overheating protection



Compatible with all range of glassware

RE100-S

LED Digital Rotary Evaporator



Specifications

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

Weight
Permissible Ambient Temperature
Permissible Relative Humidity
Protection Class
USB Interface
Voltage/Frequency

Power

RE100-S

KE 100-5
Brushless DC motor
20-200rpm
LED (speed, temperature, time)
Yes
Room temp. to 180°C
water: ±1°C oil: ±3°C
1010 W
Manual 110mm + auxiliary100mm
1~999s
Main Unit: 440×320×450mm Heating Bath: 300x300x240mm
Main Unit: 7kg Heating Bath: 3kg

5~40°C 80%RH IP20 Yes

100~120/200~240V 50/60 Hz 1100 W

Rotary Evaporator | Accessories

Condenser



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



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

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







Rotary Evaporator | Accessories

Glassware





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

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



Foam	brake		

Distilling spider with 5	flasks(without flask)
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Cat. No.	Volume	Size
18900194	/	NS 29/32, NS24/29
18900177	/	NS 29/42, NS24/40



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



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

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

Low Temperature Circulator

DLAB Low Temperature Circulator, lowers temperature in place of chilled tap water, is water-efficient and provides high cooling efficiency, capable of almost any cooling requirements in lab or industrial environments. With a compact structure and environment-friendly design, it is an ideal choice for labs.

CCP5-15

Low Temperature Circulator

Features & Advantages

- Temperature range: -15- room temperature
- Employs PID temperature control with built-in PT1000 temperature sensor that provides high accuracy of temperature
- A crystal-clear LED display that switches between display of set temperature and that of actual temperature
- The entire unit is capable of protection against short circuit, overcurrent, overload and delayed start
- Integrated design of drain outlet and water outlet that allows easy drainage
- German-made pump that is environment-friendly, low-noise and durable
- The compressor employs state-of-the-art R290 environment-friendly refrigerant to protect environment and human health

New

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



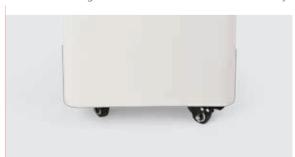
• User-friendly operating panel configuration that allows easy operation;



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



• The caster design allows the entire unit to move easily.





Low Temperature Circulator



Specifications	CCP5-15
Range of temperature control	-15°C-Room temperature
Temperature adjustment accuracy	0.1℃
Temperature control accuracy	±0.5°C
Reservoir capacity	5L
Range of temperature adjustment	-30°C∼30°C
Temperature display	LED
Type of temperature sensor	PT1000
Compressor refrigerant	R290
Circulating pump throughput	12L/min
Circulating pump head	6m
In-out cycle interface	12mm pagoda-type interface
RS232 interface	Yes
Machine power	350W
Maximum overall dimensions	370*460*700 (mm)
Weight	46Kg
Power supply	220V 50Hz/60Hz
Operating environment	10°C~40°C ≤80% RH
Cooling	capacity
°C -15 -10	-5 0 5 10

Vacuum Controller

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

VC100

Vacuum Controller

New Coming

Features

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





Vacuum measurement range
Control operation mode
Control program
Setting method
Display
Sensor overload pressure
Connector diameter
Materials in contact with vapor
Power
Compatible conditions
with vacuum pump
Overall dimensions $W \times D \times H$
Weight
Power supply
Operating environment

SpecificationsVacuum setting range

VC100
1-1000mbar 1-1000mbar
Single-point control mode, Programmed control mode
Can store up to 5 programs, each containing 5-step control (capable to set the degree of vacuum and time) Touch screen setting 5'' TFT
1,500mbar
8mm
PTFE, PP, silicone and ceramics
600W
power of 50Hz vacuum pump ≤400W power of 60Hz vacuum pump ≤500W
189×207×193mm
4.0kg
110—240V,50Hz/60Hz
10°C~40°C, ≤80%RH

Additional

MZ 1C Chemistry-design diaphragm pump

Specification

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

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



C410 Chemistry-design diaphragm pump

Specification

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

Flow Rate:

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



Vacuum regulator/moisture trap

Cat. No. Description

18900186

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



18900188 Evaporation flask clip(green) CS002942



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



Mixing & Heating



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

MS7-H550-Pro

LCD Digital Magnetic Hotplate Stirrer

Features

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





MS7-H550-S

LED Magnetic Hotplate Stirrer

Features

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





Overheating protection



External sensor



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

MS7-H550-Pro

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

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

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





LCD Digital Magnetic Hotplate Stirrer with Timer

Features

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



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[H₂O] Max. magnetic bar[length]

Speed range

Speed display Temperature display

Heating temperature range

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

"Hot" warning Timer function Data connector Protection class Dimension[WxDxH] Weight

Permissible ambient temperature and humidity

MS-H-PRO

φ135mm(5 inch) stainless steel cover with ceramic Brushless DC motor 18W 10W 550W 500W 100-120/200-240V 50/60Hz 20L 80mm 100-1500rpm resolution±1rpm LCD LCD Room temp.-340°C increment 1°C ±1°C(<100°C) ±1%(>100°C) 420°C ±0.1°C PT1000 (accuracy ±0.2) 50°C RS232 IP42 160×280×85mm 2.8kg

5-40°C, 80%RH

MS-H-PRO^T

φ135mm(5 inch) stainless steel cover with ceramic Brushless DC motor 18W 10W 550W 500W 100-120/200-240V 50/60Hz 20L 80mm 100-1500rpm resolution±1rpm LCD LCD Room temp.-340°C increment 1°C ±1°C(<100°C) ±1%(>100°C) 420°C ±0.1°C PT1000 (accuracy ±0.2) 50°C 1min to 99h 59min RS232

IP42

160×280×85mm

2.8kg

5-40°C, 80%RH

MS-H-S φ135mm(5 inch) stainless steel cover with ceramic Brushless DC motor 18W 10W 530W 500W 100-120/200-240V 50/60Hz 20L 80mm 0-1500rpm resolution±1rpm Scale Scale Room temp.-340°C 420°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 ±0.5°C
- LED display shows temperature and speed
- The "HOT" warning will flash when the work plate temperature is above 50°C even if the hotplate is turned off



External sensor



Wide range of accessories



Chemical resistance



LED display



Specifications

Work plate Dimension
Work plate material
Motor type
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

MS-H280-Pro

IVI3-H26U-P10
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°C
PT1000 (accuracy ±0.5°C)
50°C
IP21
150×260×100mm
1.8kg
5-40°C, 80%RH

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

MS-H-Pro^A

LCD Digital Magnetic Hotplate Stirrer

Features

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



Security

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



Specifications

Specifications
Work plate dimension
Work plate material
Motor type
Heating temperature range
Temperature display accuracy
Heating power
Speed range
Max. stirring quantity[H2O]
Speed display
Temperature display
Motor rating input
Motor rating output
Max. magnetic bar[length]
Temperature control accuracy
External temperature sensor
Over temperature protection
"Hot" warning
Data connector
Protection class
Voltage
Power
Dimension[WxDxH]
Weight

Permissible ambient temperature

and humidity

MS-H-Pro ^A
φ135mm(5inch)
Aluminum
Brushless DC motor
Room temp340°C, increment 1°C
±0.1°C
600w
100-1500rpm resolution±1rpm
20L
LCD
LCD
18w
10w
80mm
±1°C(<100°C) ±1%(>100°C)
PT1000 (accuracy \pm 0.2°C)
420°C
50°C
RS232
IP21
100~120/200-240V 50/60Hz
650w
280×160×100mm
2.8kg
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, 50/60Hz
Stirring positions	1	1	-
Max. stirring quantity[H ₂ O]	5L	5L	-
Max. magnetic bar[length]	50mm	40mm	-
Speed range	200-1500rpm	200-1500rpm	_
Speed display	LCD	LCD	-
Temperature display	LCD	-	LCD
Heating temperature range	Room temp.+5°C - 380°C	-	Room temp.+5°C - 380°C
Over heat Protection	420°C	-	420°C
Temperature display accuracy	±0.1°C	-	±0.1°C
External temperature sensor	PT1000 (accuracy ±0.5°C)	-	PT1000 (accuracy ±0.5°C)
Control accuracy of sensor	±20rpm	±20rpm	-
Protection class	IP21	IP21	IP21
Dimension [W x D x H]	320x180×108mm	320x180×108mm	320x180×108mm
Weight	2.2kg	2.2kg	2.2kg
Permissible ambient temperature and humidity	5-40°C 80%RH	5-40°C 80%RH	5-40°C 80%RH

MS-H340-S4

LCD 4-Channel Digital Magnetic Hotplate Stirrer



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

Features

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

Specifications

MS-H340-S4

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

MS-H-S10

10-Position Magnetic Hotplate Stirrer

Features

- Maintenance-free brushless DC motor
- Max speed 1100rpm
- Max.temperature 120°C
- Stainless steel work plate, covered with silicone cushion, provides the excellent performance of heating uniformity and skid resistance



Skid resistance



Multiple position



Brushless DC motor



Specifications

Work plate dimension[W x D]
Work plate material
Motor type
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

IVIS-H-5 IU
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
182×622×65mm
3.2kg
5-40°C, 80%RH

Magnetic Hotplate Stirrers | Accessories

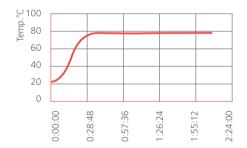
Alloy-Bead Heating Bath

Features

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



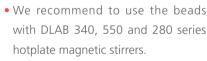
250ml water heated up to 80°C (MS-H-ProA)



250ml silicone oil heated up to 120°C (MS-H-ProA)



Tips for temperature control



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

 Keep the heating temperature below 260°C.





Magnetic Hotplate Stirrers | Accessories

						27	3	-29
(1)		(2) (3)	4		5	6	(7)	(8)
(1)					2			
				/				
9		10 (11)	12	~	(14)			7
V	15	(16)		-	17)	. 6	-01	13
	Cat. No.	Description	MS7-H550-Pro	MS7-H550-9		MS-H-Pro [™]	MS-H-S	MS-H280-Pro
(<u>1</u>)	18900001	Blue carrying plate, use	WIST 11330 110	11137 11330 1	- M3 11110		.W.5 11 5	III3 11200 110
2	18900065	with color quarter pies 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		Support clamp of PT1000	÷			_		
(17)	18900148	Support clamp of PT1000						•

Magnetic Hotplate Stirrers | Accessories









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°C
- Glass ceramic work plate provides excellent chemical-resistant performance and most efficient heat transfer
- The "HOT" warning will flash if the work plate temperature is above 50°C even when the hotplate is turned off





Wide range of accessories



Chemical resistance



Overheating protection



"HOT" warning prevents burning



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
1000VV
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

Magnetic Stirrers

MS7-S

7" Square Magnetic Stirrer

Features

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



MS-S Magnetic Stirrer

Features

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





for non-hotplate model, use with MS-S





Chemical resistance



Strong magnetism



MS7-S

184x184mm(7 inch)
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



MS-S

1013 3
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

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

Magnetic Stirrers



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

Features

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





Chemical resistance



Strong magnetism



LED display





Specifications

Permissible ambient temperature and humidity

MS-PA
φ135mm(5 inch)
Nylon+GF
Brushless DC motor
5W
3W
15W
100-120/200-240V,50/60Hz
1
3L
50mm
200-1500rpm
LED
IP42
150×260×80mm
1.8kg
5-40°C, 80%RH

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

MS-M-S10

10-Position Magnetic Stirrer

Features

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

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





Skid resistance



Multiple position



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

1015 101 510
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

Magnetic Stirrers

FlatSpin

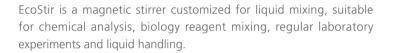
Ultra-flat Compact Magnetic Stirrer

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

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

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 setting
Protection class
Dimension [W x D x H]
Weight
Permissible ambient temperature and humidity

FlatSpin	EcoStir
ф 90mm	ф120mm
PET	PET
Motorless	Brushless DC motor
3W	1.2W
5W	7.2W
100-120/200-240V,50/60Hz	100-120/200-240V,50/60Hz
1	1
0.8L	1.5L
40mm	40mm
15-1500rpm	300-2000rpm
button	scale
IP65	IP21
175x120x15mm	150x145x50mm
0.3kg	0.3kg
5-40°C,80%RH	5-40°C,80%RH

Overhead Stirrers

OS20-Pro OS40-Pro OS70-Pro

LCD Digital Overhead Stirrer

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.



Speed 50~2200rpm with control accuracy of ±3rpm



Brushless DC motor for long life, maintenance free



Provides a constant speed even with changes in viscosities of the sample



Safety circuits allow for safe stop function in anti-spill or overload conditions



Remote function provide PC control and data transmission







Self - locking drill chuck, tools free.



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



Start/run smoothly, prevent sample splatter or overflow



Multi - purpose, multi - specification high quality stainless steel, PTFE stirring paddle optional



Specifications	
Max. stirring quantity[H ₂ O]	
Motor type	bru
Motor input power	
Motor output power	
Voltage	100
Power	
Speed range	
Speed display accuracy	
Speed display	
Torque display	
Time settings range	
Overload protection display	
Max. torque	
Viscosity max.	
Chuck range diameter	
Dimension[WxHxD]	8
Weight	
Protection class	
Permissible ambient temperature	5
and humidity	
Data connector	

OS20-Pro	OS40-Pro	OS70-Pro
20L	40L	70L
brushless DC motor	brushless DC motor	brushless DC motor
60W	120W	180W
50W	100W	160W
100-240V, 50/60 Hz	100-240V, 50/60 Hz	100~240V, 50/60 Hz
70W	130W	200W
50-2200rpm	50-2200rpm	50~1100rpm
±3rpm	±3rpm	±10rpm
LCD	LCD	LCD
LCD	LCD	LCD
-	-	0-99h59min
LED lights	LED lights	LED lights
40Ncm	60Ncm	300Ncm
10000mPas	50000mPas	100000mPas
0.5-10mm	0.5-10mm	0.5-10mm
83x220x186mm	83x 220x 186mm	186 x 83 x 220mm
2.8kg	2.8kg	3.2kg
IP21	IP21	IP21
5-40°C, 80%RH	5-40°C, 80%RH	5~40°C,80%RH
RS232	RS232	RS232

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





Max. stirring quantity(H ₂ O)
Motor type
Motor input power
Motor output power
Voltage
Power
Speed range
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
IP21
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
IP21
5-40°C 80%RH

Overhead Stirrers

Universal plate stand

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

Cat. No.





Propeller stirrer

shaft length 400mm stirrer diameter 50mm

Material: 316L stainless steel

Application: Standard stirring element used at medium and high speeds

Cat. No.

18900071



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

Cat. No.

18900072



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.



Propeller stirrer

shaft length 35cm stirrer diameter 6.5cm **Material:** PTFE coated

Application: Standard stirring element, used at medium and high speeds



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



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



Homogenizers

D-160

Handheld Homogenizer

Features:

- Ideal for manual operation due to its light weight and ergonomic design
- Processing range: 0.1-50mL or 1-250mL
- 316L stainless steel shafts are fully autoclavable and inert for highly corrosive solutions
- All shafts are interchangeable for easy dismantling and cleaning.
- 6 modes of motor speed from 8,000 to 30,000 rpm

Specifications

Power Supply

Motor Type Universal motor

Speed Range

Max. Circum. Speed Speed Control Dial knob

Working Volume [H₂O]

Max. Viscosity

Material of Dispersing Shaft

Weight

Dimension [L x W x H]

Noise

140126

Operating Environment

Protection Class

D-500

Homogenizer

Features:

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



D-160

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

160 W

AC carbon brush motor

8000-30000rpm

6.3-14m/sec

6 stage

0.1-50mL (Dispersing shaft

DS-160/5)

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

5,000mPas

SS 316L stainless steel, PTFE

0.6 kg

46mm x 55mm x 230mm

72 dB(A)

0-40°C, 85% rel. humidity

D-500

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

500 W

AC carbon brush motor

- Carbon brush moto

10000-30000rpm

22.7-36m/sec

6 stage

10-40000mL (Optional)

10,000 mPas

SS 316L stainless steel, PTFE

1.3 kg

70mm x 70mm x 255mm

79 dB(A)

0-40°C, 85% rel. humidity







Shaft Coarse Stator

20mm

Standard Rotor 20mm

Homogenizers | Accessories

D-500

Homogenizer

DS-500/1

SS20CSR20

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

Material: 316L

Application: for solid/liquid media

Cat. No. 18201331

DS-500/2

SS20FER20

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

Material: 316L

Application: for water and oil mixing



DS-500/5

SS5CSR5

Volume 10-5000mL Max. Circum. Speed 5,8m/sec

Material: 316L

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

Cat. No.

18900117



D-160

Handheld Homogenizer

DS-160/5

Volume 0.1-50ml

Max. Circum. Speed 6.3m/sec

Material: 316L

Application: small amounts of solid-

liquid mixed

DS-160/10

Volume 1-250mL

Max. Circum. Speed 14m/sec

Material: 316L

Application: small amounts of solid-

liquid mixed

Cat. No.

18201329



Cat. No.

18201330



Stator



S20C



S20F



S30C



S30F



S40C

Rotor



SR20



SR30



CR20



CR30



MR20



MR30



ER20



ER30







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
- 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



Quiet operation



Vibration free







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:7000rpm Max. RCF:2680×g

Rotor capacity:2mL/1.5mL×8,0.2mL×8,0.5mL×8

Rotor material:High strength plastic Available rotor adapters:SA02P2, SA05P2



A02-PCR8

Cat. No. 19400017

Max. speed: 7000rpm Max. RCF: 2680×g

Rotor capacity: 0.2mL×16 PCR strips,0.2 mL×2 PCR 8 strips

Rotor material: High strength plastic

Available adapters



SA02P2

Cat. No. 19400029

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



SA05P2

Cat. No. 19400026

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

High Speed Micro-Centrifuges

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 Plus

High Speed Mini Centrifuge





Brushless DC motor



LCD display



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Specifications

Max. Speed

Max. RCF

Speed Accuracy

Rotor Capacity

Run Time

Driving Motor

Safety Devices

Power

Noise level

Acceleration /Braking time

Dimension[DxWxH]

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

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 Plus 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



Cat. No. 19400010

A12-2P

for D2012plus only

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

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

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

Available adapters



Cat. No. 19500001

A02P2

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

Cat. No. 19500002

A05P2

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

D1524R

High-speed Refrigerated Micro Centrifuge

Features

- Centrifuge chamber door with automatic adsorption door lock design, can be closed with a single finger.
- Precooling, the compressor will automatically start cooling as long as the set temperature is lower than the ambient temperature.
- Sound indicator to prompt that the upper cover is closed to maintain the temperature inside the chamber, after centrifugation.
- Advanced R290 fluorine free refrigerant, low carbon and environmental protection.
- Maximum rotation speed can be achieved even at 4°C.
- Up to 9 program storage capacity according to experimental needs.
- Biosafety rotor, three-layer seal for biosafety
- High-strength aluminum alloy, three layered biosafety to withstand numerous high temperature and high pressure sterilizations.
- Five rotors with 0.2mL, 0.5mL, 1.5mL, 2mL and 5mL centrifuge tubes/ PCR tubes capacity.
- An external condensation tank prevents condensate within the centrifuge chamber.





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Max. Speed

Max. RCF

Capacity

Temperature setting

Run Time

Motor Type

Safety Performance

Power Requirements

Dimensions(mm)

Weight

Acceleration and deceleration time

Noise

Other functions

D1524R

15,000rpm (200-15,000rpm) in 100rpm increments.

 $21,380\times g$, step: $10\times g$

1.5/2mL \times 24, 0.5mL \times 36, PCR8 \times 4, 5mL \times 12, 5mL \times 18.

-20°C- 40°C

30s-99 min; HOLD (continuous running)

DC brushless motor

Dual door lock, over-speed detection, over-temperature detection with Internal diagnosis system.

Single phase, 200-240V, 50Hz, 500W

 $332(Width) \times 553(depth) \times 283(height)$

30kg

25s ↑ 25s ↓

≤56dB

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

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
- Temperature display appropriate for gentle handling of sensitive samples
- Three-layer sealed rotor 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 4°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
- Three-layer sealed rotor 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 ≤ 54dB

D3024 Series



Brushless DC motor



Wide range of rotors





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Specifications

Max. Speed

Max. RCF

Speed Accuracy

Temperature Range

Rotor Capacity

Run Time

Motor

Safety Devices

Power

Acceleration
/Braking time [Sec]

Dimension[W×D×H]

Weight

Certification

Advanced Features

Noise Level

D3024

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

21380×g, increment:10×g

±20 rpm

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

30sec-99min/Continuous

Brushless DC motor

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

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

25s ↑ 25s ↓

280×364×266mm

12kg

CE cTÜVus FCC MCA

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

≦64dB

D3024R

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

21380×g, increment: 10×g

±20 rpm

-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-safety rotors/ anti- sample overflow prevents accidental leakage and risk free centrifugal process
- microbial contamination. D3024 & D3024R rotors have passed MCA test according to IEC/EN61010-2-20, including mechanical safety and bio-safety tests
- High strength aluminum alloy rotors are fully autoclavable and provide unlimited service life (D2012 plus rotor not included)
- Powerful cooling system minimizes rotor heating. D3024 rotors heat up to > 10°C and D2012 rotors less than 8°C after running an hour

Seals within the aluminum alloy rotor

Rotor Features

Fully autoclavable

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

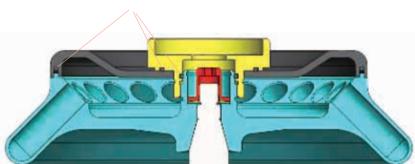
Bio-safety

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

Mechanical safety

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

Three rubber seals fitted to achieve bio-safe condition





D1524R & D3024 Series | Rotors and Adapters

Available rotors



AS24-2

Cat. No. 19400006

for D3024 & D3024R & D1524R

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

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

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

Available rotor adapters: A02P2,A05P2



AS12-V5

Cat. No. 19400032

for D3024 & D3024R & D1524R

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

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



AS36-05

Cat. No. 19400007

for D3024 & D3024R & D1524R

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

Rotor capacity: 0.5mL×36,0.2mL×36 Rotor material: Aluminum alloy Bio-safe(Bio sealing): Yes Available rotor adapters: A02P05



AS4-PCR8

for D3024 & D3024R & D1524R

Max. speed: 15000rpm

Max. RCF: 21380×g Rotor capacity:0.2mL/PCR8×4 Rotor material: Aluminum alloy Bio-safe(Bio sealing): Yes **Cat. No.** 19400008

D1524R & D3024 Series | Rotors and Adapters



Cat. No. 19400012

AS18-5

for D3024 & D3024R & D1524R

Max. speed :15000rpm Max. RCF:21380×g

Rotor capacity:5mL×18 (Round bottom)

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

Available adapters



Cat. No. 19500001

A02P2

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



Cat. No. 19500002

A05P2

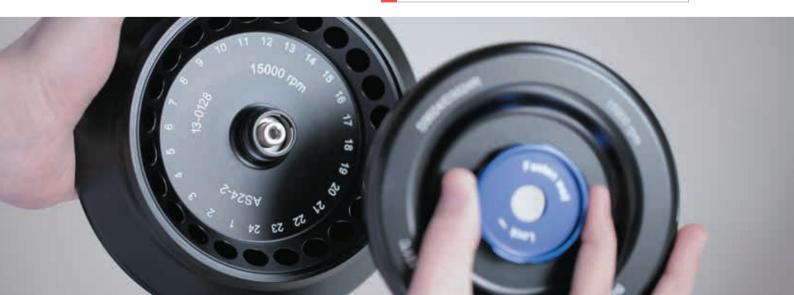
0.5mL rotor adapter Used with A12-2, A12-2P, AS24-2 and A24-2P rotors 24pcs/pk



Cat. No. 19500003

A02P05

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



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 18620xg
- 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



Economical Hematocrit Centrifuge

Features:

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







Specifications

Speed Range

Max. RCF	
Speed Accuracy	
Rotor Capacity	
Run Time	
Motor	
Display	
	-

Safety Devices

Acceleration/Braking time

Power

Dimension[WxDxH] Weight Certification

Advanced features

DM1424

200-14000rpm,
increment: 10rpm
18620×g
±20
2 type
30sec-99min/Continuous
Brushless DC motor
LCD
Door interlock,Overspeed detecto

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

30s ↑ 30s ↓

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

280×364×274mm

10kg

CE cTÜVus FCC MCA IVD

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

DM1224

500-12000rpm,
increment: 100rpm
13680×g
±100
1 type
10sec-99min/Continuous
Brushless DC motor
LCD

Door interlock

40s ↑ 40s ↓

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

280×364×213mm

10kg

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

DM1424 Series | Rotors and Adapters

Available rotors



A24- 2P

DM1424

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

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

Rotor material: High strength plastic

Available rotor adapters: A02P2,A05P2,A10P15 & Mat



AC24

DM1424 & DM1224

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

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



A02P2



Cat. No. 19500001

Cat. No.19400013

Cat. No. 19400047

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



Cat. No. 19500002

A05P2

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



Cat. No. 19500003

A02P05

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

Low-speed Centrifuges

DLAB Low-speed 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 Low-speed 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 Low-speed 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

Low-speed 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 Low-speed 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





Specifications

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

Advanced features

DM0412

300-4500rpm,

increment: 100rpm

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

sound-alert function

70W

301×354×217mm





DM0412 Series | Rotors and Adapters

Available rotors



A12-10P

Cat. No. 19200348

Cat. No. 19100197

for DM0412 & DM0412s & DM0424 & DM0408

Max. speed: 4500rpm Max. RCF: 2490×q

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



A6-50P

For DM0412(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.

DM0424 & DM0408 Series

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

DM0424

Clinical Centrifuge

Features:

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





Specifications	DM0424
Speed range	500-4000rpm increment: 100rpm
Max. RCF	2500×g

Speed accuracy

Rotor

Run time

±100rpm

Swing6×15ml
Swing4×50ml
Angle 24×15 ml,
Angle 12×10ml/8×15ml

Motor Brushless DC motor

Display LCD

Rload: 3200rpm 10mi

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

Safety Device Automatic internal diagnosis

Acceleration/deceleration 3 ↑ 4 ↓ steps

Power Single phase, 100V-240V, 50Hz/60Hz Dimension(W×D×H) 364×440×268mm

Weight 14.5kg Noise ≤62dB(A)

DM0408

300-4000rpm increment: 100rpm 1900×g ±100rpm

Angel 8×15ml(Default), Angel 10ml×12

1-99min, HOLD

Brushless DC motor

LED

Blood: 3200rpm, 10min

Urine: 1800rpm,5min

Faecal: 1300rpm, 10min

Automatic internal diagnosis

25s ↑ 35s ↓

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

286×367×227mm 9.2kg

≤60dB(A)



New

omino



DM0408

Clinical Centrifuge

Features:

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



DM0424 & DM0408 Series | Rotors and Adapters

Available rotors



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

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

Available adapters



A15P30

Cat. No.19500024

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



S4-50 Cat. No.19400100 for DM0424

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



A24-15P Cat. No.19400101

for DM0424

Max. speed: 4000rpm Rotor capacity: 15ml×24

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



A15P22

Cat. No.19500021

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



A8-15P Cat. No.19400084

for DM0424/DM0408

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

Rotor material: High strength plastic

Default adaptor: A15P22



A5P17

Cat. No.19500022

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



A12-10P Cat. No.19200348

for DM0424/DM0408 DM0412/DM0412S

Cat.No. 19200348

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



A2P17

Cat. No.19500023

(Optional)

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



DM0636 Series



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

This centrifuge is suitable for tubes with caps, blood collection or urine tubes. Swing-out bucket rotors and adapters can be compatible with standard tubes up to 100 mL at low speed.

DM0636

Multi-Purpose Low-speed Centrifuge

Features

- Speed can be set from 300- 6000rpm
- Maximum capacity of the centrifuge: 100 mLx4
- 9 Acceleration/10 Brake speed settings to ensure optimal separation
- A wide range of 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





Specifications	DM0636
Speed range	300-6000rpm increment:10rpm
Max. RCF	4300xg
Speed accuracy	±20rpm
Max. Capacity	100mLx4
Run Time	30sec-99mins/continuous
Motor	Brushless DC
Display	LCD
Program Memory	9
Safety Devices	Door Imbalance protection Over speed & Over temperature detection
Acceleration/Deceleration	9 ↑ /10 ↓ steps
Power	660W; Single-phase AC220V-240V, 50Hz/60Hz, 6.3A; AC110V-120V,50Hz/60Hz,10A
Dimension[WxDxH]	445x579x269mm
Weight	36kg
Certification	CE
Advanced features	speed/rcf switch; Rotor identification

DM0636 Series | Rotors and Adapters



Uncapping block

for S4-100 rotor



SE4-100(Standard accessory) for DM0636 & DM0636R

Max. speed: 4000rpm Max. RCF: 2950×g

Rotor material: stainless steel body and adapter









Cat. No. 19400041

bucket x 4 х4 tube x 16 x 8 x 4 x 4 х8 x 20 x 36 Nominal 3-7mL 10mL 12mL 15mL 50mL 100mL 85mL 50mL 15mL 3-7mL volume 17×120 13×100 φ×L mm 13×75 13×100 16×100 17×105 17×120 29.5×100 38×108 38×104 29.5×100 13×100 13×75 13×75 tube with plug adapter A100P50 A100P15 A100P10 A100P80 Package 36 4 4 4 Tubes per 36 36 16 16 4 20 rotor Radius(cm) 14 16.5 15.9 15.9 15.9 15.9 15.9 15.1 14.7 Max RCF 2500 2950 2840 2840 2840 2840 2840 2840 2840 2700 2630

(g-force)

DM0636 Series | Rotors and Adapters

Available rotors



S2-MP

DM0636

Max. speed: 4000rpm Max. RCF: 2200×g

Rotor capacity: Micro-plates 384-PCR; 96-PCR

Rotor material: stainless steel body and aluminum buckets



AS12-PCR8

DM0636

Max. speed: 6000rpm
Max. RCF: 4020×g

Rotor capacity: PCR 8 trips×12 Rotor material: aluminum Bio-safe(Biosealing): Yes



AS30-2 DM0636

Max. speed: 6000rpm Max. RCF: 4020×g

Rotor capacity: 2mL×30 Rotor material: aluminum Bio-safe(Biosealing): Yes **Cat. No.** 19400034

Cat. No. 19400062

Cat. No. 19400036



AS60-2

DM0636

Max. speed: 6000rpm Max. RCF: 4020×g Rotor capacity: 2mL×60 Rotor material: aluminum Bio-safe(Biosealing): Yes **Cat. No.** 19400037

DM0636 Series | Rotors and Adapters

Available rotors



AS6-50V

DM0636

Max. speed: 6000rpm Max. RCF: 4020×g

Rotor capacity: 50mL×6 or 15mL×6

Rotor material: aluminum Bio-safe(Biosealing): Yes

Cat. No. 19400035

Cat. No. 19400039

Cat. No. 19400040

Cat. No. 19400038



AS18-5V

DM0636

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

Rotor material: stainless steel body and aluminum buckets



A8-50

DM0636

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

Rotor capacity: 50mL×8 or 15mLx16

Rotor material: aluminum body and stainless steel adapter



A30-15

DM0636

Max. speed: 4500rpm Max. RCF: 3210xg 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	13×100	16×100	17×105	17×120
Tubes Quantity	30	30	30	30



Miscellaneous



Vortex Mixers



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

MX-S

Vortex Mixer

MX-F

Vortex Mixer

Features:

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



Wide range of accessories

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



VT1.1 Standard top (Default)

for <Ø30mm tubes and small vessels

Cat. No.18900034



Vortex Mixers



MX-E

Economic Vortex Mixer

Features:

- For small amount of sample mix
- Touch operation
- Fixed speed: 3000rpm
- Small and beautiful

• DC brushless motor, stable performance



Specifications

	- 1
Power supply [VAC]	
Frequency [Hz]	
Power [W]	
Mixing motion	
Revolving diameter [mm]	
Motor rating output[W]	
Rotational speed [rpm]	
Operating mode	
External dimension [mm]	
Dimension of packing box [mm]	
Weight [kg]	
Allowable environment temperature [°C]	
Permissible Ambient Temperature	
Protection class	

МХ-Е

100-240
50/60
12
Orbital
4.8
10
3000
Inching
133×133×80
250×185×130
0.6
5-40
-000/ DLI
≤80%RH
IP21



Vortex Mixers | Accessories





VT1.2 Tube holding rod

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

VT1.3 Universal top plate

Ø 100mm

Cat. No.18900035









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







VT1.3.2 tube adapter for 15 holes test tubes, Ø10mm

Cat. No.18900021







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



VT1.3.6 Platform pad

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





Application of accessories

Accessories

VTI.3 + VT1.3.5

Adjustable speed model (0-2500rpm)

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



VT1.3.7 vacuum chuck

made of rubber Cat. No.18900158



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

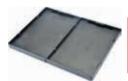




PS1.2 Microplate clamp

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 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



- Adjustable speed range from 0 to 80rpm
- A wide variety of accessories are available



LCD display



Adjustable angle



Wide range of accessories





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

MX-RL-Pro LCD Digital Rotator

Features

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



Economical Rotator

Features

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



LCD display



Wide range of accessories





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

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

Rotisserie Accessory Type-3

Rotisserie Accessory Type-5

Used for MX-RL-Pro, for 15mLx16

centrifuge tubes held vertically

Used for MX-RL-Pro, for 50mLx24

centrifuge tubes held horizontally

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

Cat. No.

18900142

Cat. No.

18900144



Rotisserie Accessory Type-2

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

Cat. No.

18900143



Rotisserie Accessory Type-4

Used for MX-RL-Pro, for 1.5mLx32

Cat. No.



centrifuge tubes held vertically

18900145



centrifuge tubes held vertically

18900147

Rotisserie Accessory Type-6

Used for MX-RL-Pro, for 50mLx16

Cat. No.



Plastic Clips

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





Rocking Rotators

New omino

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

SK-R30S-E

Short Deck Rocking Rotator

Long Deck Rocking Rotator

• It can accommodate up to 16 × 5~10ml blood vessels,

or 6x 50ml tubes, with different silicon mattress accessories.

Features

Features

SK-R30L-E

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



Long Deck Double Layer Rocking Rotator

Features

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







15W 2.2kg 5~40°C,80%RH

Specifications

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

SK-R30S-E	SK-R30L-E	SK-R30D-E
30±3°	30±3°	40±3°
1kg	1kg	1kg
Brushless DC motor	Brushless DC motor	Brushless DC motor
0~30	0~30	0~30
Continuous	Continuous	Continuous
295×160×120mm	405×160×120mm	405×160×160mm
100~240V, 50/60Hz	100~240V, 50/60Hz	100~240V, 50/60Hz
15W	15W	15W
1.8kg	2kg	2.2kg

Accessories Information

temperature and humidity



Silicone mattress for 16x 5~10ml blood collection tubes on long decks

5~40°C, 80%RH

Silicone mattress for 10x 5~10ml blood collection tubes on short decks



5~40°C.80%RH

Silicone mattress for 6× 50ml test tubes on long decks (the lower layer for SK-R30D-E)



Silicone mattress for 4x 50ml test tubes on short decks



MX-T6-Pro

LCD Digital Tube Roller

Features

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

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

MX-T6-S **Tube Roller**

Features

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



MX-T6-Pro 24mm

IP21



Specifications

Amplitude
Motor type
Rocking motion
Max. load capacity
Number of rollers
Roller size[length]
Speed range
Speed display
Timer
Timer display
Time setting range
Operation mode
Voltage
Power
Dimension [D×W×H]
Weight
Permissible ambient temperature and humidity
Protection class

DC motor
Rocking and rolling
4kg
6
280mm
10 -70rpm
LCD
Yes
LCD

DC motor	
Rocking and rolling	
4kg	
6	
280mm	
10 -70rpm	
LCD	
Yes	
LCD	
1-1199min	
Continuous/timer	
100-240V,50/60Hz	
30W	
450×260×120mm	
5.1kg	
5-40°C,80%RH	
ID24	

IVIA-10-3
24mm
DC motor
Rocking and rolling
4kg
6
280mm
0-70rpm
Scale
-
-
-
Continuous
100-240V,50/60Hz
25W
450×260×120mm

4.5kg

5-40°C,80%RH

IP21

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

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

Features

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



SK-O180-E 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



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







Timer



Wide range of accessories









_		 	ons

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

3K-0 100-110
4mm
2.5kg
Brushless DC motor
28W
15W
100-800rpm
LCD
LCD
1min-19h59min
100-240V,50/60Hz
30W
8.1kg
5-40°C, 80%RH
300×340×100mm
IP21
RS232

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

310 0 100 E
20mm
3kg
DC motor
16W
10W
0-200rpm
scale
-
-
100-240V,50/60Hz
20W
3.1kg
5-40°C, 80%RH
270×330×110mm

IP21



SK-L330-Pro SK-L180-Pro

LCD Digital Linear Shaker

Features

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



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



Shakers







Time



Wide range of accessories









Specifications

Specifications
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

10mm	4mm		
7.5kg	2.5kg		
Brushless DC motor	Brushless DC motor		
28W	28W		
15W	15W		
100-350rpm	100-350rpm		
LCD	LCD		
LCD	LCD		
1min-19h59min	1min-19h59min		
100-240V, 50/60Hz	100-240V, 50/60Hz		
30W	30W		
13.5kg	8.1kg		
5-40°C, 80%RH	5-40°C, 80%RH		
370×420×100mm	300×340×100mm		
IP21	IP21		
RS232	RS232		

SK-L180-S

JK E100 J
20mm
3kg
DC motor
16W
10W
40-200rpm
LED
LED
1min-19h59min
100-240V, 50/60Hz
20W
3.1kg
5-40°C, 80%RH
270×330×110mm
IP21

CV | 100 E

20mm
3kg
DC motor
16W
10VV
0-200rpm
scale
-
-
100-240V, 50/60Hz
20W
3.1kg
5-40°C, 80%RH
270×330×110mm
IP21
-

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]
Annual Control of the

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
ID21

SK-R1807-S

7°
3kg
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

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



Shakers



SK-D3309-Pro

LCD Digital 3D Shaker

Features

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

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

Shakers



Timer



Wide range of accessories





Specifications	SK-D3309-Pro	SK-D1807-S	SK-D1807-E	
Tilt angle	9°	7°	7°	
Max. load capacity (with platform)	5kg	3kg	3kg	
Motor type			DC motor	
Motor input power			16W	
Motor output power	24W	10W	10W	
Speed range	10-70rpm	10-80rpm	0-80rpm	
Speed display	LCD	LED	scale	
Timer display	LCD	LED	-	
Time settings range	1min-19h59min	1min-19h59min	-	
Voltage	100-240V, 50/60Hz	100-240V, 50/60Hz	100-240V, 50/60Hz	
Power	50W	20W	20W	
Weight 9kg		2.7kg	2.7kg	
Permissible ambient temperature and humidity	5-40°C, 80%RH	5-40°C, 80%RH	5-40°C, 80%RH	
Dimension[W×D×H]	360×430×106mm	270×330×130mm	270×330×130mm	
Protection class	IP21	IP21	IP21	
Data connector	-	-	-	

Shakers | Accessories

		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	1	18900185	Dish attachment with non-slip mat Dimension[WxD]: 24x21.5cm		•
SK180.5		18900200	Large size dish attachment with non-slip mat Dimension[WxD]: 30x23cm		•
SK180.6	1	18900326	Dish attachment with non-slip mat Dimension[WxD]: 28x28cm		•
SK330.1		18900027	Universal attachment with 4 bars Dimension[WxD]: 30x30cm	•	
SK330.3	L. C.	18900040	Lengthways roller attachment Dimension[WxD]: 30x30cm	-	
SK180.1	THE TANK	18900025	Universal attachment with 3 bars Dimension[WxD]: 24x24cm		•
SK180.3	T. C. T.	18900038	Lengthways roller attachment Dimension[WxD]: 24x24cm		•
	•	18900036	Bar for SK330.1 universal attachment	•	
		18900037	Bar for SK180.1 universal attachment		•
		18900280	Connect sticks for double dishes shaker	-	•

Shakers | Accessories

	Cat. No.	Description	SK-O330-Pro SK-L330-Pro SK-R330-Pro SK-D3309-Pro	SK-O180-Pro/S/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]	•	•
	18900030	Fixing clip for flask volume 50mL, used with SK330.2[16pcs] SK180.2[9pcs]	•	•
B	18900031	Fixing clip for flask volume 100mL, used with SK330.2[16pcs] SK180.2 [9pcs]	•	•
B	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]	•	•

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.



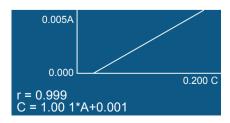
Features

- 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

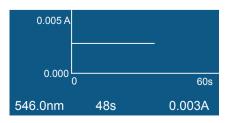
Basic Mode

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

Quantitative



Kinetics



Spectrophotometer











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

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. 18900333 4-cell holder for up to 100mm squ.cuvette



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



Cat. No. 18900334 cylindrical cell holder(ø16mm)



Cat. No. 18900339 solid sample holder (ø1.5-3mmø1 position)



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



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



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



Cat. No. 18900341 12V20W halogen lamp



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

GeISMART

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

Functions & Applications

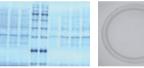
GelSMART facilitates fast access to acquire highquality images of electrophoresis gel or transfer membrane for analysis using smartphone/ tablet. With epi-blue instead of ultraviolet light source, GelSMART is able to safely and efficiently visualize stained DNA signals after gel electrophoresis.

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

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



ECO Safe staining



Coomassie blue stained SDS-PAGE

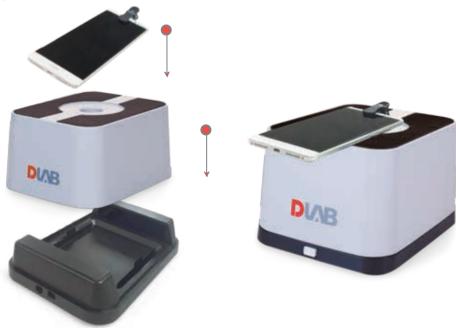
colony dish image



Features

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

Simple assemble

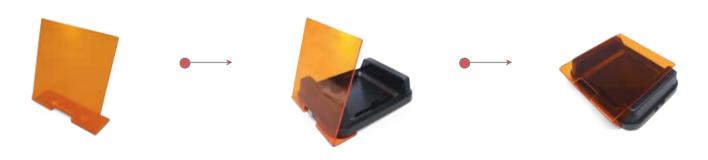




Applications:



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



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

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 ST800-SA / ST800-EA

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
- Precise temperature control precision and adjustable from 300 - 830°C
- Heating zone angle adjustable(ST800-SA/EA)
- Optional bracket support for inoculating loop or inoculated needles instead of holding them by hand





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

