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Company Profile

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

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

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

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

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

"DLAB, your accessible solution"







www.dlabsci.com

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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

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Liquid Handling



DLAB liquid handling range includes micropipettes(electronic pipettes & mechanical pipettes), pipette filler, pipette controller and stepper.

List of DLAB models:

Series	lmage	Model	Application	Operation Method	Volume Range	Channel Option	Autoclavable	Page
	Î	dPette+	Aqueous solution	Electronic	0.5-1000µL	Single Channel Adj.	YES(lower part)	P.05
Electronic Pipette			, iquedas solation	Licea oc	0.5-300μL	8 Channel Adj.	. 25 (lotter party	
ripette	Î	dPette	Aqueous solution	Electronic	0.5-1000µL	Single Channel Adj.	YES(lower part)	P.07
		Hipette	Aqueous solution	Manual	0.1μL-10ml	Single channel	YES	P.09
Mechanical Pipette		MicroPette	Aqueous solution	Manual	0.1µL-10ml	Single Channel Adj. & Fixed; 8 Channel Adj.; 12 Channel Adj.;	YES (lower part)	P.11
		MicroPette Plus	Aqueous solution	Manual	0.1µL-5000µL	Single Channel Adj. & Fixed; 8 Channel Adj.; 12 Channel Adj.;	YES	P.13
	Ĭ	MiniPette	Aqueous solution	Manual	25-200µL	Single Channel Fixed	NO	P.15
Pipette Filler		Levo Plus	Aqueous solution	Electronic	0.1-100ml	Single channel	YES (silicon adapter&nozzle)	P.17
ripette riner	1	Levo Me	Aqueous solution	Electronic	0.1-100ml	Single channel	YES (silicon adapter&nozzle)	P.18
Pipette Controller	Ē	Levo	Aqueous solution	Manual	0.1-100ml	Single channel	YES (silicon adapter&nozzle)	P.19
Pipette Pump		Levo E	Aqueous solution	Manual	2-25ml	Single channel	NO	P.19
Stepper		StepMate	Aqueous solution, high viscosity or volatile solution	Manual	0.5-50ml	Single channel	NO	P.20

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In addition to pipettes, liquid handling series products also include various dispensers, electronic titrator and vacuum aspiration system, which are used for the pipetting, dispensing, and collection of reagents with a wider range.

List of DLAB models:



Product Name	Bottle-Top Dispenser	New Bottle-Top Dispenser	Electronic Bottle-Top Dispenser	Electronic Titrator	Vacuum Aspiration System	Economical Vacuum Aspirator
Model	DispensMate	DispensMate-Pro/S	dFlow	dTrite	SAFEVAC	EcoVAC
Application	Reagent pipetting and liquid dispensing			Used in titration operations in chemical analysis, food industry, environmental analysis	Liquid collection and including cell culture r supern	medium, suspension,
Operation	Manual	Manual	Electronic	Electronic	Electronic	Electronic
Volume Range	0.5-5ml 1.0-10ml 2.5-25ml 5.0-50ml	0.5-5ml 1.0-10ml 2.5-25ml 5.0-50ml 10-100ml	0.1ml-99.9ml	0.01ml-99.99ml	Vacuum range: 0-600mbar Bottle volume:4L	Vacuum range: 0-500mbar Bottle volume:2L
Reagent Recovery Function	No	Yes	Yes	Yes	No	No
Features		-S Enhanced seal -Pro Glass piston	-	-	Sensitive level sensor,Self-closing connector	1L bottle optional, Switch manual and continuous aspiration
Fully autoclavable	The part where the liquid flows	Whole	-	-	The part where the liquid flows	The part where the liquid flows
Accessories	Screw adapter	Screw adapter	Spiral dispensing pipe	Spiral dispensing pipe	Handle adapter	Handle adapter
Page	P.21	P.20	P.19	P.18	P.22	P.24

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dPette+

Multi-functional 8-channel Electronic Pipette





Function Wheel

Switch different functions pipetting, dispensing and mixing.

Parameter Knob

Set and confirm all parameters.

Motor Driven Digital Control



Easy Operations

Intuitive interface for setting functions and parameters.

• Ergonomic Design

Low operation forces for complete work, which is exceptionally fatigue-free.

Convenient and Versatile

360° pipetting. Double knobs for simple and versatile control. Easy loading tip cones offers smooth and leak free operation.

Dual charging mode

Use of USB charger or the charging stand to ensure uninterrupted use.

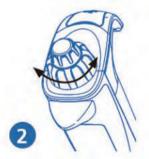
Ingenious Curved Ejector

The tips fit optimally without any extra force

Three easy steps to operate dPette+



Long press the Parameter Knob for 2 seconds to Start



Quickly turn the Function Wheel to Activate, Rotate to Switch Pipetting, Continuous Dispensing, and other Function Settings



After quickly turning the Parameter Knob to Unlock, Turn to Adjust the Volume, Press to Pipette, Long press to Mix

Pipetting function

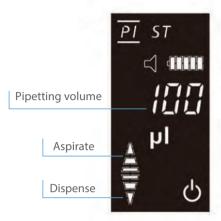
Parameter Knob press → Pipetting, Long press → Mixing

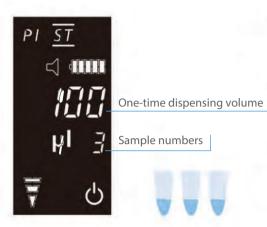
Dispensing function

Dispensing times = Pipette max volume / Single sample volume

Other function

Pipetting speed adjustment Key tone adjustment







Three speed adjustable

100μl×3

Complimentary Pipette Holder

Supports dual charging mode





Contact Charging

Specifications

Volume Range	Increment	Test Volume	Accuracy	error	Precisio	n error
μL	μL	μL	μL	%	SD* μL	CV* %
0.5.40	0.01	10	±0.20	±2.00	0.1	1.0
0.5-10μL	0.01	1	±0.08	±8.0	0.05	5.00
10.100	0.1	100	±0.80	±0.80	0.3	0.30
10-100μL	0.1	10	±0.3	±3.00	0.2	2.00
20.200	4	300	±1.80	±0.60	0.9	0.3
30-300μL	1	30	±0.90	±3.00	0.3	1.0

^{*} SD=Standard Deviation * CV=Coefficient of Variation

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

dPette+

Multifunction Electronic Pipette

dPette

Simple Electric Pipette

Features

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



dPette+ dPette

Specifications

	Volume Range		Test	Error li	mits in a	ccordance to	ISO8655-2
Channels	volume Kange	Increment	Volume	accuracy error		precisio	on error
Chamieis	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
4	20, 200	4	300	±1.80	±0.60	0.60	0.20
I	30-300	1	30	±0.90	±3.00	0.21	0.70
1	100 1000	5	1000	±6.00	±0.60	2.00	0.20
I	1 100-1000		100	±3.00	±3.00	0.60	0.60

^{*} s.d. = Standard Deviation

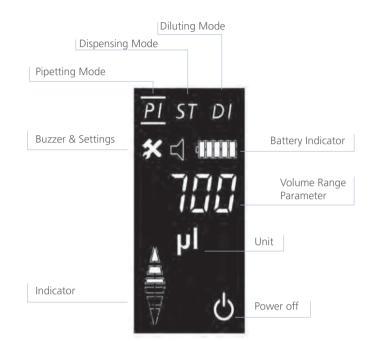
DLAB specifications are used as guidelines and the user calibration should refer to the industrial standard ISO 8655

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^{*}CV = Coefficient of Variation



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.





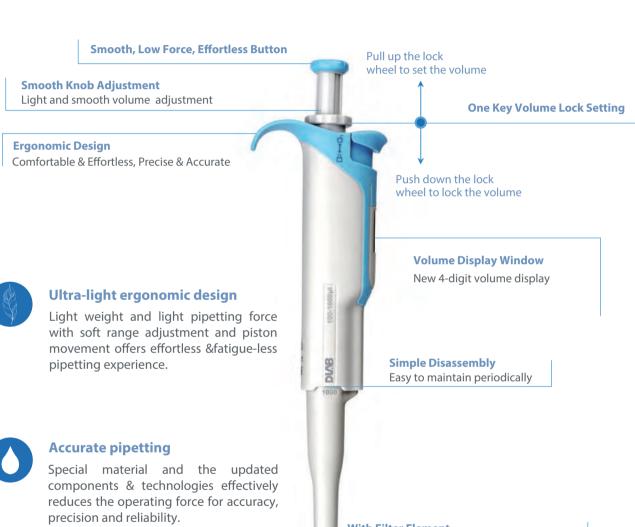
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HiPette

Fully Autoclavable Mechanical Pipette

The DLAB new generation fully autoclavable manual pipette has the best ergonomic design and is ultralight weight. It has been designed keeping in mind the human form and human factors to offer smooth and effortless ergonomic pipetting experience. It is UV sterilisable and resistant to strong chemical corrosion. In addition, the volume lock helps protect from volume changing accidentally , and achieve reliable pipetting of smallest volume of liquids.





Complete sterilization

The best in class pipette material used is fully autoclavable. It gives better protection against chemical & physical corrosion, and offers enhanced UV resistance for higher durability.

With Filter Element
Reduces volatile liquids entry into the pipette body; helps avoid liquid back-flow caused by improper operation and thus prevents piston corrosion and contamination



Specifications

Single-channel	Adjustable Volume Pipettes
(9 volume ran	ges, covering 0.1μl~10ml)

V 1 - D			Accura	cy error	Precisio	n error
Volume Range	Increment	Test Volume	%	μΙ	μl	μl
		2.5μΙ	1.4%	0.04	0.7%	0.02
0.1-2.5μl	0.002µl	1.25µl	2.5%	0.03	1.5%	0.02
		0.25µl	12.0%	0.03	6.0%	0.02
		10µl	1.0%	0.10	0.4%	0.04
0.5-10μl	0.01μΙ	5μl	1.5%	0.08	0.8%	0.04
		1μl	2.5%	0.03	1.8%	0.02
		20µl	1.0%	0.20	0.3%	0.06
2-20µl	0.02μΙ	10µl	1.2%	0.12	0.6%	0.06
		2µl	5.0%	0.10	1.5%	0.03
		100μΙ	0.8%	0.80	0.2%	0.20
10-100µl	0.1μΙ	50µl	1.0%	0.50	0.3%	0.15
		10µl	3.0%	0.30	1.0%	0.10
	0.2μΙ	200μΙ	0.6%	1.20	0.2%	0.40
20-200μl		100μΙ	1.0%	1.00	0.3%	0.30
		20μΙ	2.5%	0.50	0.7%	0.14
		300µl	0.6%	1.80	0.2%	0.60
30-300µl	0.2μΙ	150µl	1.0%	1.50	0.3%	0.45
		30µl	2.5%	0.75	0.7%	0.21
		1000µl	0.6%	6.00	0.2%	2.00
100-1000μΙ	1µl	500μl	1%	5.00	0.2%	1.00
		100μΙ	3%	3.00	0.6%	0.60
		5000μl	0.6%	30.00	0.2%	10.00
500-5000μl**	5μl	2500µl	0.6%	15.00	0.3%	7.50
		500µl	1.2%	12.00	0.3%	3.00
		10000µl	0.6%	60.00	0.2%	20.00
1000-10000μΙ**	10μΙ	5000μl	0.8%	40.00	0.2%	10.00
		1000μΙ	1.5%	30.00	0.3%	6.00

****** Coming soon

User calibration should refer to the industrial standard ISO8655-2.

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MicroPette plus

121°C FULLY Autoclavable

Features

- Fully autoclavable
- Ergonomic design provides excellent operating experience
- Easy-to-read volume display
- The pipettes cover the volume range from $0.1\mu L$ 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





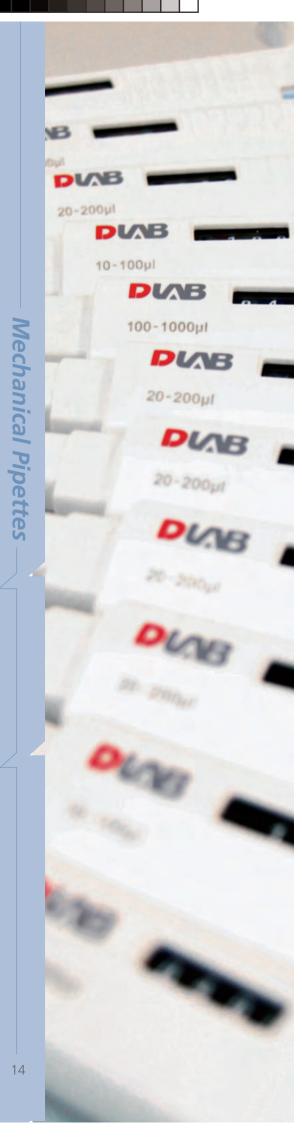
MicroPette multi-channel



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

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Specifications

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

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

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

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8-channel Adjustable Volume Pipettes

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

12-channel Adjustable Volume Pipettes

Volume			Er		ccordance with 555-2	
Range	Increment	Test Volume	(Accurac	y error)	(Precision error)	
			%	μL	%	μL
		10μL	1.50%	0.15	1.50%	0.15
0.5-10µL	0.5-10μL 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
50-300µL 5µL	300µL	0.70%	2.1	0.25%	0.75	
	5µL	150µL	1.00%	1.5	0.50%	0.75
		50μL	1.50%	0.75	0.80%	0.4

Fixed Volume Pipettes

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

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

Levo Plus

Pipette Filler

Features

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

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









Specifications

Aspiration Speed	25mL<5s (6 shift)			
Dispensing Speed	Motor (6 shift)/Gravity			
Battery	Lithium-ion			
Battery Service Life	More than 8 Hours of Intermittence Use			
Charging Time	2-3 Hours			
Pipette Types	Glass or Plastic Pipette (0.1-100mL), Pasteur Pipettes			
Filter	0.45µm Hydrophobic			
Weight	200g			

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Levo ME

Pipette Filler

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

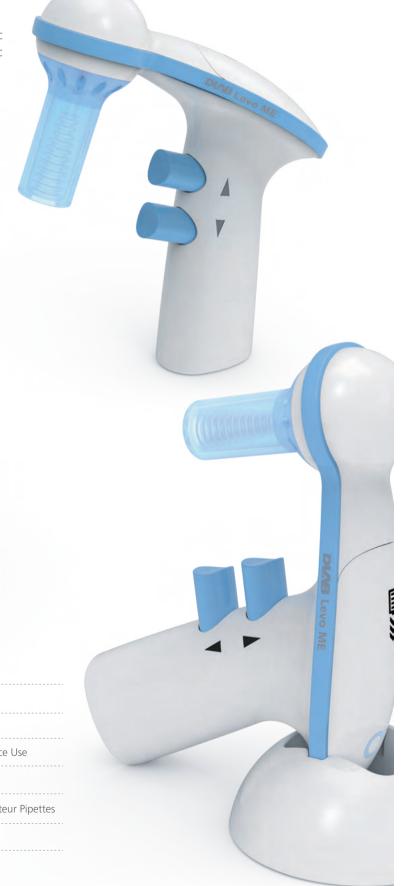
Features

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



Specifications

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



Levo

Pipette Controller

Features

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

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





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



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.

Mini Pipette

Features

- Ergonomic design provides excellent operation experience;
- Smart body, ideal to combine with IVD reagents;
- Compatible with universal 200µl tips;
- Various volumes from 25ul to 200ul, different color for different volumes, easy to choose;
- Entire body by one-time molding, robust to use.



Volumes	Color
200ul	Gray
100ul	Blue
75ul	Red
50ul	Orange
30ul	Yellow
25ul	Dark Green
OEM	Optional

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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.	1	2	3	4	5
0.50ml	10µl	20µl	30µl	40µl	50µl
1.25ml	25µI	50µI	75µl	100µl	125µl
2.50ml	50µl	100µl	150µI	200µl	250µl
5.00ml	100µl	200µI	300µl	الر400	500µl
12.50ml	250µl	500µI	750µl	1000µl	1250µl
25.00ml	500µl	1000µl	1500µI	الر2000	2500µl
50.00ml	1000µl	2000µl	3000µI	4000µl	5000µl
Steps	48	23	15	11	8

Steps

The stop lever secures the syringe



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



							Assert																												
Number o	f steps	48	23	15	11	8																													
Cat. No.	Syringe volume (mL)		Sam	ıple volı (µL)	ume		A % P %		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																										

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dTrite Electronic Titrator

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

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

Features

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

Specifications

 Volume Range
 0.01mL-99.99mL, Max piston lift is 10mL, resolution is 10μL

 Volume Accuracy
 R=0.2% CV=0.07%

 Velocity
 16 stages

 Operating Temperature Range
 10°C-30°C

 Quality Control
 DIN EN ISO 8655

 Control Type
 External control, including the stirrer and the burette program

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dFlow

Electronic Bottle-Top Dispenser

Features

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



Specifications

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

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DispensMate-Pro DispensMate-S

New Premium Bottle-Top Dispenser

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

DispenMate-Pro:

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

DispensMate-S:

• Anti-corrosion sealing ring with strong chemical resistance.



Reagent recovery function reduces reagent waste and prevents dripping when not in operation

Fast, reliable and reproducible volume locking mechanism

6 adapters allow fitting to most common bottles

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





Adjustable aspirating tube for different height bottles



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

Specifications

Volume		Graduation	A	≤±	C۱	/ ≤
	Range mL	mL	%	μL	%	μL
	0.5-5	0.1	0.5	25	0.2	10
	1.0-10	0.2	0.5	50	0.2	20
	2.5-25	0.5	0.5	125	0.2	50
	5.0-50	1.0	0.5	250	0.2	100
	10~100	2.0	0.5	500	0.2	200

Accessories

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

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DispensMate

Bottle-Top Dispenser

Easy-to-use volume adjustment

Smooth piston design provides effortless dispensing

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





Adapters allow fitting to most common bottles

Filling tube adjusts easily for different size bottles



Features

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

Specifications

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

Accessories

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

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

SAFEVAC

Vacuum Aspiration Systems

Features

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

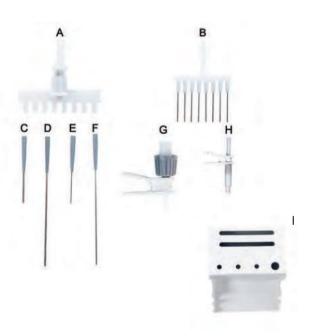




Specifications

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

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



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



Sensitive level sensor to prevent liquid overflow



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



Stand for transferring the bottle securely and holding the hand operator

EcoVAC

Economical Vacuum Aspirator

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

Features

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





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

Level 1: Continuous aspiration mode.

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



on both sides

Specifications

Vacuum range **Aspirating speed** Flow rate [liquid] **Bottle Motor type** Input voltage Dimension [W \times D \times H] Weight

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



Wide range of applications

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

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









1.5/2ml ep tube

15/50ml centrifuge tube

Petri dish

96-well plate, microtiter plate







J

ı	Α	8-channel tip detrusion adapter 200ul tip	В	8 channel needle \$1.5mm
	С	Single needle	D	Single needle
	E	Single needle	F	Single needle
	G	tiptip detrusion adapter 200ul tip	Н	tip detrusion adapter 1ml tip
Ì	ı	1L bottle adapter	J	1L bottle

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Thermal Control



PCR technology is a molecular biology technique for amplifying DNA molecules in vitro. It is mainly used to amplify DNA segments located between two known sequences. PCR technology has been widely used gene cloning, pathogen detection, gene expression and other aspects of many fields such as scientific research, clinical testing, quality control, forensic identification and so on. Appropriate fluorescent dyes were add into the qPCR mixture, QPCR instrument can detect the fluorescence changes during the amplification process real time to qualitative and quantitative the original template.

List of DLAB models:









Product Name	Thermal Cycler Gradient	Thermal Cycler Standard	Real-Time PCR System		
Model	TC1000-G	TC1000-S	Accurate96-X4/X6	Accurate 16-T	
Sample Capacity	96×0.2ml	96×0.2ml	96×0.1ml	16×0.2ml	
Gradient Temp. Setting range	30-99°C	-	30-100°C -		
Channel	-	-	X4-4, X6-6	Standard-2	
Page	P.29	P.29	P.31	P.32	

Detection process

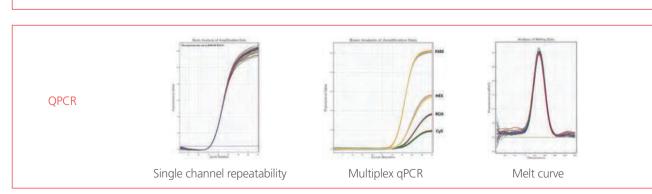
Nucleic acid extraction Prepare reaction mixture QPCR QPCR



PCR







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Dry bath provides precise temperature for various experiments. Thermo mix also has mixing function, and it widely used in various fields such as molecular biology and cell biology, including gene synthesis, gene purification, gene cloning, gene expression, protein expression analysis, enzyme reaction, bacterial growth and so on.

List of DLAB models:

Model	lmage	Function	Temp. Setting Range	Mixing speed	Blocks	Page
HB60-S		Heating	25°C,30°C, 37°C,45°C,60°C,	-	5ml×30+15ml×8	P.39
HB120-S		Heating	25°C-120°C	-	0.2ml×54 0.5ml×40 1.5/2ml×40 5/15ml×28 5ml blood collection tube×45 50ml×8 (0.2ml+0.5ml+1.5/2ml)×18 0.2ml×96 Microplate Bead/water bath	P.38
HB105-S1/ S2		Heating	25°C-105°C	-	0.2ml×30 0.5ml×20 1.5ml×20 2ml×20	P.40
HB150-S1/ S2		Heating	25°C-150°C	-	15ml×12 50ml×4 Bead/water bath	P.40
H100-Pro	(mm)	Heating	25°C-100°C	-	0.5ml×24 1.5ml×24 2ml×24 5ml×5	P.43
HC110-Pro		Heating& Cooling	-5°C-110°C	-		P.42
HCM100-Pro		Heating& Cooling& Mixing	0°C-100°C	200- 1500rpm	15ml×8 50ml×4 0.2ml×96 Microplate	P.43
HM100-Pro		Heating& Cooling	15°C-100°C	200- 1500rpm		P.43
Mini H100		Heating	25°C-100°C	-	0.2ml×40 0.5ml×24	P.41
Mini HC100		Heating& Cooling	0°C-100°C	-	1.5ml×15 2ml×15 5ml×6 15ml×4 50ml×2	P.41
Mini HCL100		Heating& Cooling	0°C-100°C	-	Johnaz	P.41

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TC1000-G

Thermal Cycler Gradient

TC1000-S

Thermal Cycler Standard

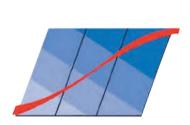
Thermal cycler is essential laboratory instrument in the field of molecular biology research such as sequencing, gene cloning, gene expression, mutagensis applications and applied market like drug discovery, agriculture, food industry, etc.

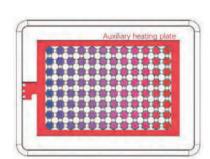


Excellent temperature uniformity



Gradient function









Features

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

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More features

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

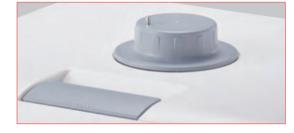


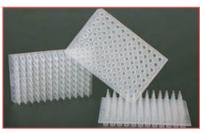
LCD touch panel



Excellent temperature accuracy







Specifications

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

Dimension[WxDxH]

Weight

TC1000-G

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

11kg

TC1000-S

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

11kg

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

Accurate 96

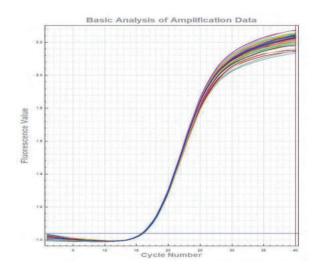
Real-Time PCR System

Features

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







Technical Parameters

Temperatur	e control system	Detect	tion system
Sample capacity	0.1ml PCR tubes \times 96, 8 \times 12 PCR plate or 96 well plate \times 1	Excitation light source	5/6 monochrome high efficiency LEDs
Reaction volume	10-50 μΙ	Detection device	PMT
Thermal cycle technology	Peltier	Detection mode	Time-resolved signal separating technology
Max. Heating/Cooling rate	6.0° C/s	Excitation/detection wavelength range	455-650nm/510-715nm
Heating temperature range	4 – 100 °C	Fluorescent channels	4/6 channels
Temperature accuracy	± 0.2°C	Supported dye	FAM/SYBR Green,VIC/HEX ROX,Cy5,Cy3(only for x6)
Temperature uniformity	±0.2°C @60°C , ±0.2°C @95°C	Sensitivity	Single copy gene
Temperature gradient setting range	30–100°C	Resolution	1.33 folds copy number difference can be distinguished in single-plex qPCR
Temperature gradient difference setting range	1 – 36°C	Dynamic range	10 orders of magnitude copies

^{*} For research use only, not for use in diagnostic procedures.

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Accurate 16

Fast Nucleic Acid Testing Platform

Designed for rapid nucleic acid testing needs in applied fields such as clinical, food, environmental and research. It is supported by highly-sensitive fluorescence measurements made in real-time. It can detect 16 samples at the same time, and the standard configuration is FAM/SYBR, VIC two-color fluorescence channels. ROX and Cy5 fluorescence channels are optional. It is light & compact and supports stand-alone operations, with 7-inch color touch screen display for results. The instrument adopts innovative liquid cycle refrigeration technology combined with peltier temperature control technology to achieve rapid heating and cooling. It offers CT value analysis, absolute quantitative analysis, supports isothermal amplification and end point analysis (customizable).













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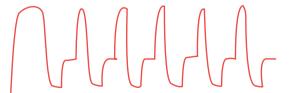
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Features

- On board software with large screen panel for ease of use: 7-inch color touch screen shows all parameters, test results and real time testing curve.
- Portable and light: the weight is only 4kg. It can be used with vehicle power supply for immediate onsite detection.
- Ultra-fast temperature control system: unique liquid circulation refrigeration, Variable temperature rate up to 6°C/s.
- Sensitive and efficient optical signal detection system, multi-channel fluorescence without crosstalk: based on unique Fresnel lens, high-efficiency PMT and maintenance-free LED. 16-hole scanning takes only 1s.
- Compatible with 0.2mL PCR clear tubes or eight strips, can measure 16 samples at the same time.
- Software functions can be customized.
- 4G data memory. Testing results can be exported with USB or printed.

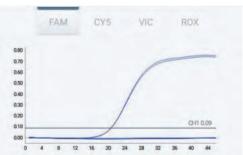


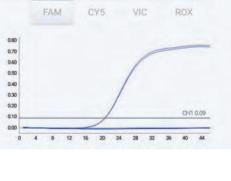






≤30min









Food Safety







Three models for your choice:

Accurate 96-T: Touch screen with ultra-fast temperature control system.

Accurate 96-i: Touch screen with isothermal function, for customized needs of reagent manufacturer.

Accurate 96-S: Controlled by external labtop and software, can be customized with dedicated test kits.

Technical Parameters	Accurate16-T	Accurate1	6-i	Accurate16-S
Sample capacity		2×8 0.2ml tube/st	rips,clear	
Reaction volume		10-50µl		
Touch screen	YES	YES		NO
Thermal cycle technology	Peltier, liquid circulation refrigeration	Heating filr	m	Peltier, liquid circulation refrigeration
Max. Heating/Cooling rate	6.0°C/s			6.0°C/s
Heating temperature range	4 – 100 °C	Room temperatu	re-80°C	4 – 100 °C
Temperature accuracy	±0.2°C	±0.2℃		±0.2°C
Temperature uniformity	±0.2°C @60°C ±0.3°C @95°C	±0.2°C		±0.2°C @60°C ±0.3°C @95°C
Excitation light source		Monochrome high e	fficiency LED	
Detection device		PMT		
Detection mode		Fast hole-by-hole	scanning	
Fluorescent channels	Standard: FAM/ SY	BR, VIC/HEX/ TET	Optional:	ROX,CY5/TAMRA
Sensitivity		Single copy	gene	
Dynamic range		10 orders of magni	tude copies	
Analysis mode	CT va	alue analysis, absolute (quantitative an	alysis
Dimension [W \times D \times H]		220×275×10	00 mm	
Power Supply	100-	240V or Optional 12V,	10A mobile po	ower
Weight		4kg		

^{*} For research use only, not for use in diagnostic procedures.

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HB120-S Dry bath

Features

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

• Timer control up to 99+ hours

• Various types of optional blocks are available

Overheating protection

• Lid for protection and heat preservation

Specifications

Functions

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

> Power Dimension[W×D×H] Weight

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





Cat.No.

Standard:18900218 Thin:18900274

> Standard: 18900219 Thin:18900275

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

Standard:18900221

Standard:18900222

Block types



Overheating protection

Adapter block selection

Standard:18900546



LED display

Timer

Standard:18900224 Thin:18900278

> Standard:18900223 Thin:18900279

> > Thin:18900504

8 PCR strips and 96 PCR microplate

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



6.4mm 0.2mLx54 15mm 8.2mm 0.5mLx40 26.4mm 1.5mLx40 11mm 2mLx40 34.7mm 17mm 5/15mLx28 48mm 5mL blood collection 13.5mm tube x 45 48mm 29.8mm 50mLx8 48mm 0.2mL+0.5mL+1.5/2mL 18+18+18 96 or 384 well plate

Capacity

Diameter

Depth

HB60-S Dry bath

Features

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





Overheating protection



Timer



LED display



Specifications

Heating temperature range

Temperature accuracy Temperature uniformity Max. heating rate Safety temperature

Time setting range Operation type

Capacity Display

Voltage [VAC]

Frequency [Hz] Power [W]

 $Dimensions[W \times D \times H]$ Weight[kg]

HB60-S

5 gears: 25°C, 30°C, 37°C, 45°C,

± 0.5°C ± 0.3°C

5.5°C/min

80 °C

0min -99h59min

Continuous/ timer operation

5ml×30+10ml×8pcs

LED

200~240

50/60

160

175×290×85mm

2.5



Block types

Capacity

Diameter Depth



5/10mLx38

Ф13m/15.25mm 33mm

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

Features

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

Cat.No. 18900459 18900410 18900461 18900462 18900412 18900413 18900522



Aluminum beads





18900520





Diameter

Depth

6.4×15mm

8.2×26.4mm

11×34.7mm

11×34.7mm

17×48mm

29.8×48mm

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

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

Capacity

0.2ml×40

Diameter x depth

6.4×20 mm

Block types

	18900415		0.5ml×24	8.2×28.4mm
Mini HCL100 Mini HC100 Mini H100	18900416		1.5mL×15	11.2×31mm
Dry Bath	4.0000.420		2 45	44.24
Features	18900428	0.00	2ml×15	11×31mm
Light in weightLCD display of both temperature and time.Rapid calibration support	18900417	***	5mL×6	17×31mm
 Overheating protection Optional blocks with different capacities are available Safe and stable 	18900426	(%)	15ml×4	16.4×45mm
 USB interface to save the data Mini HCL100 with hot lid provided to preserve the generated heat 	18900427	Q	50ml×2	29×45mm

Cat.NO.

18900414

				ns

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

Mini HCL100
0-100
Room temperature-23~100
±0.5
0.1
≤20min
≤25min
8°C /min
3°C /min
0-999min/0-999sec
LCD
9(2steps for each)
Support
Support
Support
110x162x140
≤1
DC12V,100-240V, 50/60Hz
60
+10-40
≤80

Mini HC100	Mini H100
0-100	25-100
Room temperature-23~100	Room temperature+5~100
±0.5	±0.5
0.1	0.1
≤20min	≤20min
≤25min	/
8°C /min	6.5°C /min
3°C /min	/
0-999min/0-999sec	0-999min/0-999sec
LCD	LCD
9 (2steps for each)	9(2steps for each)
Support	Support
Support	Support
Support	Support
110x162x140	110x162x140
≤1	≤1
DC12V,100-240V, 50/60Hz	DC12V,100-240V, 50/60Hz
60	60
+10-40	+10-40
≤80	≤80

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18900402 18900403 18900405







Diameter x Depth





24x0.5mL

8.1x26mm



1500rpm

24x1.5mL

10.9x30.8mm



1500rpm

24x2mL

10.9x30.8mm





1500rpm

8x5mL (round bottom)

13.6x42mm



1400rpm

(cone bottom)

17x51.5mm

16.9x80mm

Features

HC110-Pro Thermo control

with cooling



- Flexible adapter selection
- Programmable
- Compatible with various tubes
- Quick interchange of blocks with magnet adhesion technology without any tools
- Block equipped with a lid for heat preservation
- Three-point temperature calibration

18900406

18900407

18900420

18900423



600rpm

800rpm

4x50mL

8x15mL

29.6x80mm

1500rpm

0.2mLx96 PCR plate

1500rpm

microplate



Excellent temperature accuracy



Programmable



Block self recognition



Specifications

Functions

Temperature range

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

Max. heating rate

Max. cooling rate Time setting range Program Overheating protection Display Adapter block material Voltage, Frequency Power $Dimension[W \times D \times H]$ (without the heating block)

Weight

HC110-Pro

Heating & cooling

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

> -5~110°C ± 0.5 °C ± 0.5°C 5.5°C/min

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

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

200×235×120mm

7.3kg

HCM100-Pro

Thermo Mix

HM100-Pro

Thermo Mix with heating

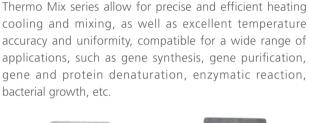
H100-Pro

Thermo control

Features

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









Specifications

Functions

Temperature range

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

Max. heating rate

Max. cooling rate

Mixing frequency Mixing orbit Time setting range Program Overheating protection Display Adapter block material Voltage, Frequency Power

Dimension[WxDxH] (without the heating block) Weight

HCM100-Pro

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

0.1~100°C

± 0.5°C

 $\pm~0.5^{\circ}C$ 5.5°C/min 5°C /min(100°C-room temp.) 0.5°C/min(below room temp.) 200-1500rpm 3mm 0~99h30min 9 150°C TFT aluminum 100-240V,50/60Hz 200W

200×235×120mm

7.3kg

HM100-Pro

Heating & mixing Heating: room temp. - 100

15~100°C

± 0.5°C

 ± 0.5 °C 5.5°C/min

200-1500rpm

H100-Pro Heating

Heating: room temp+5 °C. -100°C

15~100 °C

 ± 0.5 °C

 ± 0.5 °C 5.5°C/min

3mm 0~99h30min 0~99h30min 9 9

150°C 150°C TFT TFT aluminum aluminum 100-240V,50/60Hz 100-240V,50/60Hz 200W 200W 200×235×120mm 200×235×120mm

7.3kg 7.3kg

DLAB内文-2020-ok.indd 43 2020/11/30 上午10:40 The water bath is widely used for the day to day bacteriological and laboratory applications requiring incubation as well as general tests and procedures in variety of research and testing laboratories. Water baths also have a variety of usages in tissue culture application, enzyme reaction studies, growth observation studies, Fermentation analysis and various other general and specialized application in various laboratories.



DWB20-S

Water Bath

Features

- Rapid heating, the temperature remains constant after reaching the set temperature
- High temperature accuracy with overheating protection
- High temperature resistant and corrosion free lid made up of 304 stainless steel
- Electronic components are easy to disassemble. Safe and easy to maintain



Specifications	DWB20-S
Display	LED
Temperature range [°C]	Room temp.+5-80
Temperature stability at 37°C[°C]	±0.5
Temperature accuracy at 37°C[°C]	±0.3
Bath volume [L]	20
Circulating pump	No
Overheating protection	yes
Temperature sensor	PT1000
Dimension[mm]	667x349x357
Housing	Q235 Plastic panel
Parts touch water (including lid)	Stainless steel
Weight[kg]	16.2
Voltage[V]	220V, 50/60Hz
Heating power[W]	1000
Ambient temperature[°C]	+10-40
Ambient humidity[% RH]	<80

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Rotary evaporator is mainly used for continuous distillation of volatile solvents under reduced pressure. It is widely used in chemical, pharmaceutical, research and food industries, etc.

List of DLAB models:

Series	Lab Scale Rota	ary Evaporator	Industrial Scale Rotary Evaporator
Model	RE100-Pro	RE100-S	RE200-Pro
Evaporating Flask Volume	50-2000ml	50-2000ml	20L
Evaporation capacity (H₂O)	1.56L/h	1.56L/h	4.0L/h
Automatic lifting	YES	No (Manual lifting)	YES
Display	LCD	LED	LCD
Page	P.49	P.50	P.47

Distillation System Connection (For RE100-Pro&RE100-S):

Model		Page
Vacuum Pum C410	np	P.55
Vacuum Controller	· VC100	P.56
Low Temperature C CCP5-15/20		P.53
	6	9 5
	Vacuum Pump C410	Vacuum C

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RE200-Pro

20L Industrial Digital Rotary Evaporator

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

Features

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





Large LCD display



Overheating protection



Chemical resistance



Double-layer high-efficiency condener

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



Switching valve design

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



Heating bath

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

Specifications RE200-Pro Room temp. ~180°C Temperature range (both water and oil) Water: ±1°C Oil: ±3°C Control Accuracy performance Rotation Speed 10~150rpm Max.4.0L/h (water vapor volume) Evaporation capacity Ultimate vacuum Less 2.6hpa Temperature control method Micro processer PID control Display LCD (temperature/speed/clockwise and Anti-clockwise/time) Stroke Displacement function Automatic 180mm Motor over-current protection, Residual Current Device, Safety features lifting overload protection, Boil-dry protection, over-temperature protection Sample flask Round flask 20L Round flask 10L with drain valve Receiving flask constitute Two-section vertical triple serpentine condenser, Condenser cooling surface 1.2m² Heating bath size 4450×240mm Specification Cooling/suction nozzle outer diameter 16mm, Takeover caliber vacuum pump nozzle outer diameter 16mm Dimension[DxWxH] 1160mm×600mm×1860mm 220V/4600W/50/60Hz Power supply

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RE100-Pro Digital Rotary Evaporator



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

Features

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



Large LCD display



USB connector



Chemical resistance



Overheating protection



Compatible with all range of glassware

Specifications

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

Power

RF100-Pro

112 100 110		
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		

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

Features

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



USB connector



Chemical resistance



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

Interval Time Setting Range	-
Dimension [D \times W \times H]	
Weight	-
Permissible Ambient Temperatur	r
Permissible Relative Humidity	
Protection Class	
USB Interface	
Voltage/Frequency	
Power	

KL 100-3				
Brushless DC motor				
20-200rpm LED (speed, temperature, time)				
				Yes
Room temp. to 180°C				
water: ±1°C oil: ±3°C				
1200 W				
Manual 110mm + auxiliary100mm				
1~999s				
Main Unit: 440×320×450mm Heating Bath: 300x300x240mm				
Main Unit: 7kg Heating Bath: 3kg				
5~40°C 80%RH IP20				
			Yes	
			100~120/200~240V 50/60 Hz	
1245 W				

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	1700cm²
18900166	(COATED)Evaporatingflask(NS29/32) Receiving flask (KS35/20)	1000mL	1700cm ²
18900174	(COATED)Evaporatingflask(NS24/40) Receiving flask (KS35/20)	1000mL	1700cm²
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	1700cm ²
18900164	(COATED)Evaporatingflask(NS29/32) Receiving flask (KS 35/20)	1000mL	1700cm²
18900172	(COATED)Evaporatingflask(NS24/40) Receiving flask (KS35/20)	1000mL	1700cm²

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



Heating Bath Lid

18900547

Cat. No. Description

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







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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		



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



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



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



Distilling	spider with 5	Tiasks(without flask)
Cat. No.	Volume	Size

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



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

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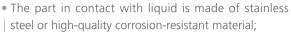
The low temperature circulator continuously offers chilled coolant to rotary evaporator and other instrument which working in a low temperature condition. It reduces the consumption of tap water and improve the cooling efficiency. With a compact structure and environment-friendly design, it is an ideal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

CCP5-15 CCP5-20

Low Temperature Circulator

Features & Advantages

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





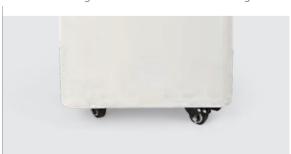
• User-friendly operating panel configuration;



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



• The caster design for free movement and fixing.







Specifications		CCP5-15			CCP5-20			
Range of temperature contro	ol	-15°C-Roon	n temperature		-20°C	C-Room tempera	ature	
Temperature adjustment accur	асу	0.	.1°C		0.1°C			
Temperature control accurac	:y	±1.0°C (-20°C ±0.5°C (0°C ~2	~0°C typical valu	ue)	$\pm 1.0^{\circ}$ C (-20°C ~0°C typical value) $\pm 0.5^{\circ}$ C (0°C ~20°C typical value)			
Reservoir capacity		5L				5L		
Range of temperature adjustm	ient	-30°0	C~30°C		-30°C~30°C			
Temperature display		L	_ED			LED		
Type of temperature sensor	-	PT	1000		PT1000			
Compressor refrigerant		R	290			R290		
Circulating pump throughpu	ıt	12	L/min		12L/min			
Pump pressure		0.6 bar			0.6 bar			
Circulating pump head		6m			6m			
In-out cycle interface		12mm pagod	a-type interface		12mm pagoda-type interface			
RS232 interface		Yes				Yes		
Machine power		350W				700W		
Maximum overall dimension	S	370 x 420 x 730(mm) with caster			440 x 46	0 x 730(mm) wi	th caster	
Weight		46kg				50kg		
Power supply		220V 5	0Hz/60Hz		220V 50H	z/60Hz, 110V 5	0Hz/60Hz	
Operating environment		10~40°C	C, RH≤80%		10~40°C, RH≤80%		%	
Cooling capacity								
°C °C °C	-15	-10	-6.7	-5	0	5	7.2	
CCP5-15 W	381	460	520	553	661	786	847	
CCP5-20 °C	-20	-13	-10	0	10	14	20	
W W	607	668	694	785	883	924	989	

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Additional

MZ 1C Chemistry-design diaphragm pump

Specification

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

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



Seals and other accessories

18900188

Cat. No.	Description	
18202027	PTFE vacuum seal	
18900362	Ultra resistant FFKM seal for applications with highly abrasive solutions	
18900190	Evaporation flask clip(red) CS002440	侵
18900188	Evaporation flask clip(green)	

CS002942

C410 Chemistry-design diaphragm pump

Specification

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

Flow Rate:

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



Vacuum regulator/moisture trap

Cat. No. Description

In use of control small volume, installed in a vacuum between DVR480 and vacuum system. 18900186 Material: PVDF, PTFE, ABS,

Borosilicate Glass, Stainless Steel



55

DLAB内文-2020-ok.indd 55 2020/11/30 上午10:43 The vacuum controller serves as a device for labs to display, adjust and control the degree of vacuum in vacuum systems. It generally constitutes the vacuum control system of rotary evaporator along with vacuum pump, which enables repeatable distillation experiment and recovery of many kinds of solvents in an efficient and automatic manner.

VC100

Vacuum Controller

Features



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



Specifications

Vacuum setting range

Vacuum measurement range

Control operation mode

Control program

Setting method

Display

Sensor overload pressure

Connector diameter

Materials in contact with vapor

Power

Compatible conditions with vacuum pump

Overall dimensions $W \times D \times H$

Weight

Power supply

Operating environment

VC100

1-1000mbar

1-1000mbar

Single-point control mode, Programmed control mode

Can store up to 5 programs, each containing 5-step control (capable to set the degree of vacuum and time)

Touch screen setting

5'' TFT

1,500mbar

8mm

PTFE, PP, silicone and ceramics

600W

power of 50Hz vacuum pump ≤400W power of 60Hz vacuum pump ≤500W

189×207×193mm

4.0kg

110-240V,50Hz/60Hz

10°C~40°C, ≤80%RH



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Mixing & Heating



Magnetic hotplate stirrers are used for low viscosity liquids or solid mixing, widely used in chemical synthesis, physical and chemical analysis, bio-pharmaceuticals etc. DLAB provides different series, heating range covers from 120°C-550°C:

Magnetic Hotplate Stirrers:

Series	Model	lmage	Stirring Position	Display	Work plate Size	Max. Heating Temp.	Max. stirring quantity[H ₂ O]	Page
EEO corios	MS7-H550-Pro		1	LCD	184x184mm	550°C	20L	P.62
550 series	MS7-H550-S		1	LED	184x184mm	550°C	10L	P.62
380 series	MS-H380-Pro		1	LCD	140x140mm	380°C	20L	P.68
	MS-H-Pro ^T (with timer)		1	LCD	ф135mm	340°C	20L	P.64
	MS-H-Pro ^A		1	LCD	φ135mm	340°C	20L	P.66
340 series	MS-H-Pro ⁺		1	LCD	φ135mm	340°C	20L	P.64
	MS-H-S		1	Scale	ф135mm	340°C	20L	P.64
	MS-H340-S	A.A.A.A.	4	LCD	ф135mm	340°C	10L for single position	P.69
280 series	MS-H280-Pro		1	LED	ф135mm	280°C	3L	P.67
120 series	MS-H-S10		10	Scale	180x450mm	120°C	0.4Lx10	P.70

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Magnetic Stirrers:

lmage	Model	Stirring Position	Display	Work plate Size	Max. Stirring Quantity[H₂O]	Page
	MS7-S	1	Scale	184x184mm	10L	P.75
	MS-S	1	Scale	φ135mm	20L	P.75
	MS6-Pro	1	LCD	140x140mm	5L	P.75
3	MS-PA	1	LED	φ135mm	3L	P76
	MS-PB	1	Scale	φ135mm	3L	P.76
New	EcoStir	1	Scale	120x115mm	1.5L	P.79
	EcoStir	1	Scale	φ120mm	1.5L	P.78
	FlatSpin	1		φ90mm	0.8L	P.78
	MS-M-S10	10	Scale	180x450mm	0.4Lx10	P.77

Hotplate:

Image	Model	Display	Work plate Size	Max. Heating Temp.	Page
	HP550-S	LED	184x184mm	550°C	P.74
- Eres	HP380-Pro	LCD	140x140mm	380°C	P.74

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Application guidance:

Notice: MS-H380-Pro, HP380-Pro & MS-H280-Pro are not available for chemical fields.

Fields		MS7-H550- Pro/ MS7-H550-S/ HP550-S	MS-H-Pro ^A / MS-H-Pro ^T / MS-H-Pro ⁺ / MS-H-S/ MS-H340-S	MS-H380- Pro/ HP380-Pro	MS-H280-Pro	MS-H-S10	Magnetic Stirrers (none heating models)
	Chemical Synthesis						
Pharmacoutical	Biochemical Drugs						
Pharmaceutical	Medicine Testing						
	Drug Formulation						
	Petrochemical Industry						
	Inorganic Chemical Synthesis						
Chemical	Organic Chemical Synthesis					 	
Industry	Daily Use Chemical Industry				1	*	
	Painting/Rubber/ Plastic					*	
	Fertilizer/Pesticide					*	
	Water Quality Analysis						
Environmental	Pesticide Residue Testing						
	Chemical Pollution Analysis						
	Basic Chemical Experiments						
Research &	Material Analysis						
Education	Liquid Mixing						
	Chemical Synthesis						
	Food Additive						
Food Industry	Dairy Products						
	Nutrition Analysis						
	Cell Culture						
Biological Engineering	Biological Reagents						
	Biochemistry						

Overhead stirrers are used for middle or high viscosity samples mixing, widely used in chemical synthesis, pharmaceutical synthesis, physical and chemical analysis, petrochemical industries etc.

Overhead stirrers:

lmage					
Models	OS20-Pro	OS20-S	OS40-Pro	OS40-S	OS70-Pro
Max. Stirring Quantity[H₂O]	20L	20L	40L	40L	70L
Constant Speed	YES	NO	YES	NO	YES
Display	LCD	LED	LCD	LED	LCD
Speed Range	50-2200rpm	50-2200rpm	50-2200rpm	50-2200rpm	50-1100rpm
Max. Torque	40N•cm	40N•cm	60N•cm	60N•cm	300N•cm
Viscosity Max.	10000mPa • s	10000mPa • s	50000mPa•s	50000mPa∙s	100000mPa•s
Page	P.76	P.77	P.76	P.77	P.76

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

MS7-H550-Pro
184x184mm (7 inch)
Glass ceramic
Brushless DC motor
1
20L
80mm
100-1500rpm
resolution ±1rpm
LCD
LCD
Room Temp550°C, increment 1°C
±1°C(<100°C) ±1%(>100°C)
580°C
±0.1°C
PT1000 (accuracy ±0.2)
50°C
RS232
IP21
18W
10W
1050W
1000W
100-120/200-240V 50/60Hz
215x360x112mm
5.3kg
5-40°C, 80%RH

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

DLAB内文-2020-ok.indd 63 2020/11/30 上午10:46 DLAB 340°C magnetic hotplate stirrers include all leading safety standards and features for superior ease of use and are cost-effective. They are widely used in chemical synthesis, physical and chemical analysis, bio-pharmaceuticals, etc.

MS-H-Pro^T

LCD Digital Magnetic Hotplate Stirrer with Timer

MS-H-Pro⁺

LCD Digital Magnetic Hotplate Stirrer

Features

- Brushless DC motor is maintenance free and explosion-proof
- Digital temperature control with max. temperature at 340°C
- Digital speed control with max. speed up to 1500rpm
- Max. stirring quantity of H₂O at 20L
- Safety circuits provide overheating protection
- The "HOT" warning will flash if the plate temperature is above 50°C even when the hotplate is turned off
- Wide range timer function from 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





External sensor



Brushless DC motor



Wide range of accessories



RS232 connector



Chemical resistance

MS-H-S

Magnetic Hotplate Stirrer

Features

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











Specifications

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

Speed range

Speed display Temperature display

Heating temperature range

Temperature control accuracy

Over temperature protection

Temperature display accuracy External temperature sensor

"Hot" warning

Timer function

Data connector

Protection class

FIOLECTION Class

Motor rating input

Motor rating output

Power

Heating output

Voltage

Dimension[WxDxH]

Weight

Permissible ambient temperature and humidity

MS-H-PRO

.....

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 18W

10W

550W

500W

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

160×280×85mm

2.8kg

5-40°C, 80%RH

MS-H-PRO^T

φ135mm(5 inch)

stainless steel cover with ceramic Brushless DC motor

1

20L

80mm

100-1500rpm

resolution±1rpm

LCD

LCD

Room temp.-340°C

increment 1°C

±1°C(<100°C)

±1%(>100°C 420°C

±0.1°C

PT1000 (accuracy ±0.2

50°C

1min to 99h 59min

....

RS232

IP42

18W

10W 550W

500W

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

160×280×85mm

2.8kg

5-40°C, 80%RH

MS-H-S

φ135mm(5 inch)

stainless steel cover with ceramic

Brushless DC motor

20L

80mm

0-1500rpm

resolution±1rpm

Scale

Scale

Room temp.-340°C

-

420°C

±0.5°C

-

IP42

18W

10W

530W 500W

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

160×280×85mm

2.8kg

5-40°C, 80%RH

65

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DLAB new heating magnetic stirrer with aluminum cover with ceramic coating 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 cover with ceramic coating work plate provides fast heating perfermance, and strong compatibility with various heating containers and heating blocks
- High-resolution LCD display shows actual temperatures and speed
- PID controller ensures a precise and steady heating process
- External temperature control is possible by connecting the temperature sensor(PT 1000) with accuracy at \pm 0.2°C
- Brushless DC motor enables more powerful speed control.
- Three heating modes for selected (fast heating, standard heating and stable heating)
- Remote control function through RS232 interface provides PC control and data transmission



Security

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



Specifications

Work plate dimension	
Work plate material	
Motor type	

Heating temperature range
Temperature display accuracy
Speed range
Max. stirring quantity[H ₂ O]
Speed display
Temperature display
Max. magnetic bar[length]
Temperature control accuracy
External temperature sensor
Over temperature protection
"Hot" warning
Data connector
Protection class
Voltage
Heating power

Weight Permissible ambient temperature and humidity

Power

Motor rating input

Motor rating output

Dimension[WxDxH]

MS-H-Pro^A

¢	1	3	51	Υ	n	۱(5	iı	٦	C	r	ı))

Aluminum cover with ceramic coating
Brushless DC motor
Brusniess DC motor
Room temp340°C,
'

increment 1°C ±0.1°C

100-1500rpm resolution \pm 1rpi	m
20L	
LCD	

LCD

80mm $\pm 1^{\circ}\text{C}(<100^{\circ}\text{C}) \pm 1\%(>100^{\circ}\text{C})$ PT1000 (accuracy \pm 0.2°C)

420°C
50°C
RS232
IP21
100~120/200-240V 50/60H
600

600w
650w
18w
 10w
 280×160×100mm
 2 8ka

5-40°C; 80%RH

DLAB内文-2020-ok.indd 66 2020/11/30 上午10:46 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
Stirring positions
Max. stirring quantity
Max. magnetic bar[length]
Speed range
Speed display
Temperature display
Speed display resolution
Heating temperature range
Control accuracy of work plate
Overheating protection
Temperature display accuracy
External temperature sensor
"Hot" warning
Protection class
Motor rating input
Motor rating output
Power
Heating output
Voltage
Dimension[WxDxH]
Weight
Permissible ambient temperature and humidity

MS-H280-Pro
φ135mm(5 inch)
stainless steel cover with ceramic
Brushless DC motor
1
3L
50mm
200-1500rpm
LED
LED
±1rpm
Room temp280, increment 1°C
±1°C(<100°C) ±1%(>100°C)
320°C
±1°C
PT1000 (accuracy ±0.5°C)
50°C
IP21
5W
3W
515W
500W
100-120/200-240V 50/60Hz
150×260×100mm
1.8kg
5-40°C. 80%RH

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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

Work plate Dimension

Work plate material

Motor type

Stirring positions

Max. stirring quantity[H₂O]

Max. magnetic bar[length]

Speed range

Speed display

Temperature display

Heating temperature range

Over heat Protection

Temperature display accuracy

External temperature sensor

Control accuracy of sensor

Protection class

Motor rating input

Motor rating output

Power

Heating output

Voltage

Dimension [W x D x H]

Weight

Permissible ambient temperature and humidity

MS-H380 Pro

140x140mm

Aluminum cover with ceramic coating

Brushless DC motor

5L 50mm

200-1500rpm

LCD

LCD

Room temp.+5°C - 380°C

420°C

±0.1°C

PT1000 (accuracy ±0.5°C)

±20rpm

IP21

2.4W

1.8W

510W

500W

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

320x180×108mm

2.2kg

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
- 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
- Stainless steel work plate with ceramic coating provides good chemicalresistant performance
- A wide variety of accessories are available

Specifications

Specifications
Work plate dimension
Plate material
Motor type
Stirring positions
Max. stirring quantity of single position (H_2O)
Max. magnetic bar
Speed range
Speed display
Temperature display
Control accuracy of sensor
Temperature range
Over temperature protection
Temperature display accuracy
External temp. sensor
IP Protection class
Motor rating input
Power
Heating Power
Voltage
Dimensions[WxDxH]
Weight

Permissible ambient temperature Permissible relative humidity

MS-H340-S4
Ф135mm (5inch)
Stainless steel with ceramic coating
Brushless DC motor
4
10L
40mm
200-1500rpm
LCD
LCD
±20rpm
25-340°C
420°C
±0.1°C
PT1000(Accuracy±0.2°C)
IP21
1.8W×4
515W×4
500W×4
100-120V,60Hz; 200-240V,50 Hz
698×270×128mm
9.5kg
5∼40°C
80%RH

MS-H-S10

10-Position Magnetic Hotplate Stirrer

Features

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





Skid resistance



Multiple position



Brushless DC motor

Specifications

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

Permissible ambient temperature and humidity

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

Alloy-Bead Heating Bath

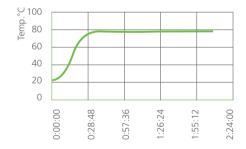
Features

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

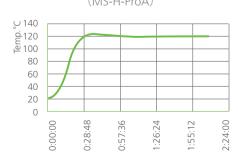




250ml water heated up to 80°C (MS-H-ProA)



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



Tips for temperature control

- We recommend to use the beads with DLAB 340, 550 and 280 series hotplate magnetic stirrers
- Place the external temperature sensor in the hole on the heating bath and ensure that the probe is submerged within 1/2~1/3 of the depth of the bead bath for accurate sample temperature control.
- Keep the heating temperature below 260°C



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

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Stirrer bars

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

Models

S	uitable	Suitable	Suitable
M	57-H550-Pro S7-H550-S //S-H-Pro ⁺ //S-H-Pro ^T //MS-H-S //MS-S	MS-H280-Pro MS-PA MS-PB	MS-H-S10 MS-M-S10 FlatSpin EcoStir

		MS-S		
Cat. No.	Size of stirrer bars (LxØ)[mm]	Suitable for max. stirrer bar 80mm	Suitable for max. stirrer bar 50mm	Suitable for max. stirrer bar 40mm
18900006	10mmx6mm	•	•	•
18900007	15mmx8mm	•	•	
18900008	20mmx8mm	•	•	
18900009	25mmx8mm	•	•	
12500005	30mmx6mm	•	•	
18900011	40mmx8mm	•	•	
12500004	50mmx8mm			
18900013	65mmx8mm			
18900014	80mmx13mm	•		
18900015	Stirrer bar remover, length of 200mm	•	•	

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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

Specifications

Work plate Dimension

Work plate material

Power

Heating output

Voltage

Dimension [W x D x H]

Weight

Permissible ambient

temperature and humidity

HP380-Pro

140x140mm

Aluminum cover with ceramic coating

_
-
-
-
LCD
Room temp.+5°C - 380°C
42.00.0
420°C
0.406
±0.1°C
DT1000/
PT1000 (accuracy ±0.5°C)
-

IP21	
-	
-	
510W	
500W	
100-120/200-240V, 50)/60H

2.2kg 5-40°C 80%RH

320x180×108mm

Specifications

Work plate dimension[WxD] Work plate material Heating position

Heating temperature range

Control accuracy of work plate Safety temperature Temperature display Temperature display accuracy External temperature sensor Heating warning Protection class

> Power Voltage Frequency

Heating Power Dimension[WxDxH] Weight

Permissible ambient

temperature and humidity

HP550-S

184x184mm(7 inch) Glass ceramic Room temp.-550°C, increment 5°C ±10°C 580°C LED ±1°C PT1000(±0.5°C 50°C IP21 1010W 100-120/200-240V, 50/60Hz 1000W 215x360x112mm 4.5kg

5-40°C, 80%RH



HP380-Pro

LCD Digital Hotplate

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
- 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
- Max. stirring quantity of H₂O at 5L

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



MS6-Pro

LCD Digital Magnetic Stirrer

Features

- High resolution LCD displays actual speed
- Brushless DC motor is maintenance free
- Aluminum cover with ceramic work plate
- Digital speed control with max. speed up to 1500rpm
- Max. stirring quantity of H₂O at 5L



Specifications

Work plate dimension[WXD]

Work	pla ⁻	te ma	aterial
------	------------------	-------	---------

Work plate material
Motor type
Stirring positions
Max. stirring quantity[H₂O]
Max. magnetic bar[length]
Speed range
Speed display
Protection class
Motor input power
Motor output power
Power
Voltage
Dimension[WxDxH]
\/\eight

Permissible ambient

temperature and humidity

MS7-S

184x184mm(7 inch)

Glass ceramic

Shaded pole motor

10L

80mm

0-1500rpm

Scale

IP21

15W

1.5W

30W 100-120/200-240V,50/60Hz

215x360x112mm

5-40°C, 80%RH

MS-S

4135mm(5 inch) Stainless steel cover with ceramic Brushless DC motor 20L 80mm 0-1500rpm Scale IP42 18W 10W 30W 100-240V,50/60Hz 160×280×85mm

2.8kg

5-40°C, 80%RH

MS6-Pro

140x140mm Aluminum cover

with ceramic coating Brushless DC motor

5L 40mm

200-1500rpm

LCD IP21

2.4W

1.8W 10W

100-240V, 50-60Hz 320x180×108mm

2.2kg

5-40°C 80%RH

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MS-PA

LED Digital Magnetic Stirrer

Features

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





MS-PB

Magnetic Stirrer

Features

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



Chemical resistance



Strong magnetism



LED display





Specifications

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

п	п	-	м
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MC-DI

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

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MS-M-S10

10-Position Magnetic Stirrer

Features

- Maintenance-free brushless DC motor
- Speed range of 0-1100rpm
- Stainless steel work plate covered with silicone cushion, provides excellent performance of skid resistance





Skid resistance



Multiple position



Specifications

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

1412-141-210
180×450mm
Stainless steel with silicone coating
Brushless DC motor
10
0.4LX10
40mm
0-1100rpm
Scale
IP21
12W
4W
20W
100-120/200-240V,50/60Hz
622×205×65mm
3.2kg
5-40°C, 80%RH



FlatSpin

Ultra-flat Compact Magnetic Stirrer

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

Features

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

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

EcoStir

Economical Magnetic Stirrer

Features

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



Specifications

Work plate Dimension
Work plate material
Motor type
Stirring positions
Max. stirring quantity[H₂O]
Max. magnetic bar[length]
Speed range
Speed setting
Protection class
Motor output power
Power
Voltage
Dimension [W x D x H]
Weight
Permissible ambient temperature and humidity

FlatSpin	EcoStir
φ90mm	φ120mm
PET	PET
Motorless	Brushless DC motor
1	1
0.8L	1.5L
40mm	40mm
15-1500rpm	300-2000rpm
button	scale
IP65	IP21
3W	1.2W
5W	7.2W
100-120/200-240V,50/60Hz	100-120/200-240V,50/60Hz
175x120x15mm	150x145x50mm
0.3kg	0.3kg
5-40°C,80%RH	5-40°C,80%RH

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EcoStir

Square Plate Magnetic Stirrer

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

Features

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









- Home brewing
- Wine aeration
- Yeast and bacteria ferment

Work plate size
Work plate material
Motor type
Stirring position
Max. stirring quantity (H₂O)
Max. magnetic bar (length)
Speed range
Speed setting
Protection class
Motor output power
Power
Voltage
Dimension [WxDxH]

Weight Permissible ambient temp.&humidity

Specifications

EcoStir
120x115mm
PET
Brushless DC Motor
1
1.5L
40mm
300-2000rpm
Scale
IP21
1.2W
7.2W
DC 12V, 100-240V,50/60Hz
150x144x54mm
0.3Kg
5-40°C80%RH

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OS20-Pro OS40-Pro OS70-Pro

LCD Digital Overhead Stirrer

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



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



Brushless DC motor for long life, maintenance free



Constant speed despite viscosity change of the sample



Spillage and overload protection safety circuits



Remote PC control and data transmission





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



Self - locking drill chuck, tools free



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



Start/run smoothly, prevent sample splatter or overflow



Silicone cover protecting drill chuck from erosive vapor



Specifications	OS20-Pro	OS40-Pro	OS70-Pro					
Max. stirring quantity[H2O]	20L	40L	70L					
Speed range	50~2200rpm	50~2200rpm	50~1100rpm					
Speed display accuracy	±3rpm	±3rpm	±10rpm					
Time settings range	_	-	0-99h59min					
Max. torque	40N•cm	60N•cm	300N•cm					
Viscosity max.	10000mPa•s	50000mPa•s	100000mPa•s					
Weight	2.8kg	2.8kg	3.2kg					
Motor type		Brushless DC motor						
Voltage		100~240V, 50/60 Hz						
Speed display		LCD						
Torque display	LCD							
Overload protection display		LCD						
Chuck range diameter		0.5~10mm						
Motor input/output power	60W/50W	120W/100W	180W/160W					
Power	70W	130W	200W					
Dimension[WxHxD]		83 x 220 x 186mm						
Protection class		IP21						
Permissible ambient temperature and humidity	5~40°C,80%RH							
Data interface		RS232						

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OS20-S OS40-S

Features

LED Overhead Stirrer

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

Spillage and overload protection safety circuit

- 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





- Maintenance free
- Explosion-proof
- Precision speed contro

Self - locking drill chuck, tools free



Explosion-proof



Wide range of accessories





Specifications	OS20-S	OS40-S
Max. stirring quantity[H ₂ O]	20L	40L
Speed range	50~2200rpm	50~2200rpm
Max. torque	40N•cm	60N•cm
Viscosity max.	10000mPa•s	50000mPa•s
Weight	2.8kg	2.8kg
Motor type	Brushless	DC motor
Speed display	LI	ED
Overload protection display	LI	ED
Chuck range diameter	0.5~	10mm
Motor input power	60W	120W
Motor output power	50W	100W
Power	70W	130W
Voltage	100~240\	/, 50/60 Hz
Dimension[WxHxD]	83 x 220	x 186mm
Protection class	IP	21
Permissible ambient temperature and humidity	5~40°C	, 80%RH

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Plate Stands

Universal Plate Stand (for OS20/40/70)

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



Grand Plate Stand (for OS70)

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



Stirrer

Stainless Steel

Propeller stirrer

Shaft length 40cm Stirrer diameter 50mm Material: 304L stainless steel Standard stirring applications at medium and high speed



Paddle stirrer

Shaft length 40cm Stirrer diameter 68mm Material: 304L stainless steel For gentle mixing at low and medium speeds

Cat No. 18900073



Straight stirrer

Shaft length 40cm Stirrer diameter 60mm Material: 304L stainless steel For low viscosity media at medium and high speeds



Cat No. 18900072

Centrifugal stirrer

Shaft length 40cm Stirrer diameter 90mm Material: 304L stainless steel Blades open while speeding. For narrow neck vessels at medium to high speed.



Propeller stirrer

Shaft length 40cm Stirrer diameter 50mm Material: PTFE coated Standard stirring applications at medium and high speed



Cat No. 18900075

Paddle stirrer

Shaft length 40cm Stirrer diameter 68mm Material: PTFE coated For gentle mixing at low and medium speeds



Straight stirrer

Shaft length 40cm Stirrer diameter 60mm Material: PTFE coated For low viscosity media at medium and high speeds



Cat No. 18900478

Centrifugal stirrer

Shaft length 40cm Stirrer diameter 90mm Material: PTFE coated Blades open while speeding. For narrow neck vessels at medium to high speed.



Cat No. 18900078



Grand propeller stirrer

haft length 60cm Stirrer diameter 100mm Material: 316L stainless steel



Grand paddle stirrer

Shaft length 60cm Stirrer diameter 100mm Material: 316L stainless steel Gentle mixing for those stratify easily or sensitive to shear



Cat No. 18900499

Grand anchor stirrer

Standard stirring

Shaft length 60cm Stirrer diameter 100mm Material: 316L stainless steel Standard stirring or for those easily precipitate



Cat No. 18900498

Shaft length 60cm Stirrer diameter 100mm Material: 316L stainless steel Breaking down granules in the mixture with strong shear



Cat No. 18900500 **Grand dissolving stirrer**

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Grand Series (for OS70)

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D-160

Handheld Homogenizer

Features

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

D-500

Homogenizer

Features

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

S20C

Coarse Stator

20mm

• All shafts are interchangeable for easy dismantling and cleaning

SR20



Motor Type Universal motor

							0	О	(96	е	C	d	F	?	а	r	1	C	16	2
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Max. Circum. Speed

Speed Control Dial knob

Working Volume [H₂O]

Max. Viscosity

Material of Dispersing Shaft

Weight

Dimension [L x W x H]

Noise

Operating Environment

Protection Class

Shaft

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

D-160

160 W AC carbon brush motor

8000-32000rpm

6.3-14m/sec

10 stage

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

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

5,000mPas

SS 316L stainless steel, PTFE

0.54 kg

45mm x 55mm x 190mm

72 dB(A)

0-40°C, 85% rel. humidity

IP20

D-500

Standard Rotor

20mm

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

AC carbon brush motor

10000-30000rpm

22.7-36m/sec

6 stage

10-40000mL (Optional)

10,000 mPas

SS 316L stainless steel, PTFE

1.3 kg

70mm x 70mm x 255mm

79 dB(A)

0-40°C, 85% rel. humidity

IP20



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D500

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

Cat. No.

18201332



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.

18900544



Stator



S20C



S20F



S30C



S30F



S40C

Rotor



















SR20

SR30

CR20

CR30

MR20

MR30

ER20

ER30

Combination

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

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Centrifuges



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The centrifuge used to separate liquid and solid particles or components in a liquid mixture. The DLAB centrifuge series includes palm micro centrifuges, high-speed centrifuges (refrigerated and non-refrigerated), hematocrit centrifuges and low-speed centrifuges.

List of DLAB models:

Series	lmage	Model	Display	Max. speed(RCF)	Rotor Capacity	Page
palm micro centrifuges		D1008	-	7000rpm (2680×g)	8×2ml 32×0.2ml	P.88
High speed Mini Centrifuge		D2012Plus	LCD	15000rpm 15100×g)	12×0.2/0.5 /1.5/2ml	P.91
High speed Micro Centrifuge		D3024	LCD	15000rpm (21380×g)	24×1.5/2ml, 36×0.5ml, 4×PCR eight strips,	P.92
High-speed Refrigerated Micro Centrifuge		D1524R	LCD	15000rpm (21380×g)	12×5ml(cone), 18×5ml(round),	P.94
hematocrit centrifuge		DM1424	LCD	12000 rpm (13680×g)	24×capillary tubes	P.98
		DM1224	LCD	12000 rpm (13680×g)	24×capillary tubes	P.98
DM0506 Series	New	DM0506	LCD	5000rpm (2600×g)	6x15ml/10ml /7ml/1.5-5ml	P.105
DM0443.5.		DM0412	LCD	4500rpm (2490×g)	8x15ml 12x10ml/7ml 1.5-5ml	P.101
DM0412 Series		DM0412P (PRP/PRF/CGF)	LCD	4500rpm (2490×g)	8x15ml 12x10ml/7ml 1.5-5ml	P.104
DM0424		DM0408	LED	4000rpm (2500×g)	8x15ml 12x10ml/7ml 1.5-5ml	P.106
& DM0408 Series	E-MAIL	DM0424	LCD	4000rpm (2500×g)	4x50ml 24x15ml	P.106
DM0636 Series		DM0636	LCD	6000rpm (4020×g)	4x100ml 36x3-7ml	P.108

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D1008 Series

Palm Micro Centrifuge

Features

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



Quiet operation



Vibration free



Specifications

Max. Speed

Max. RCF

Rotor Capacity

Run Time

Driving Motor

Power

Noise Level

Dimension [D×W×H]

Weight Certification

D1008

7000rpm

2680×g

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

Continuous operation

DC motor

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

≤45dB

160x170x122mm

0.5kg CE cTÜVus FCC MCA



Available rotors



A8-2P

Cat. No. 19400015

Max. speed:7000rpm Max. RCF:2680×g

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

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



A04-RCR8

Cat. No. 19200810

Max. speed:7000rpm Max. RCF:2680×g

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

Rotor material: High strength plastic

Available adapters



SA02P2

Cat. No. 19400029

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



Cat. No. 19400026

SA05P2

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

DLAB内文-2020-ok.indd 89 2020/11/30 上午10:51 High speed micro centrifuges are widely used in physical and chemical analysis, biochemistry, cellular and molecular biology, clinical Labs ideal for high-end research applications

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

Conforms to international safety standards and regulations

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

Outstanding Feature

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

Ergonomic design

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



D2012 Plus

High Speed Mini Centrifuge



Features

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



Brushless DC motor



LCD display



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Specifications

Max. Speed

Max. RCF

Speed Accuracy

Rotor Capacity

Run Time

Acceleration /Braking time

Driving Motor

Safety Devices

Power

Noise level

Dimension[D×W×H]

Weight

Certification

Other functions

D2012 plus

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

15100×g, increment: 100×g

±20rpm

0.2mL/0.5mL/1.5mL/2mL×12

30sec-99min/Continuous

11s ↑ /9s ↓

Brushless DC motor

Door interlock,
Over-speed detection,

Over-temperature detection, Automatic internal diagnosis

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

≤54dB

255×245×140mm

6kg

EMC, CE, FCC, ICES, cTUVus, CB

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

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

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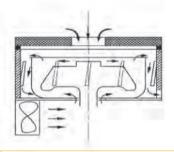
D3024 High Speed Micro Centrifuge

Unique Features

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

Effective Ventilation System

Conventional design

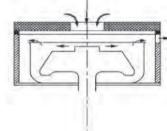


Proprietary design of dual path

ventilation enforcing air cooling

from both the upper and lower

side for the rotor.



Limiting ventilation on the upper

side of the rotor





Brushless DC motor







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Specifications

Max. Speed

Max. RCF

Speed Accuracy

Rotor Capacity

Run Time

Acceleration

/Braking time [Sec]

Motor

Safety Devices

Power

Noise Level

Dimension[W×D×H]

Weight

Certification

Other functions

D3024

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

21380×g, increment:10×g

±20 rpm

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

30sec-99min/Continuous

 $25s\uparrow 25s\downarrow$

Brushless DC motor

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

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

≦64dB

280×364×266mm

12kg

CE cTÜVus FCC MCA

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





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D1524R

High-speed Refrigerated Micro Centrifuge

Features

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





Specifications

Max. Speed

Max. RCF

Capacity

Temperature setting

Run Time

Acceleration and deceleration time

Motor Type

Safety Performance

Power Requirements

Noise

Dimensions(mm)

Weight

Other functions

D1524R

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

21,380×g, step: 10×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)

25s ↑ 25s ↓

DC brushless motor

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

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

> > ≤56dB

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

30kg

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

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

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

Seals within the aluminum alloy rotor

Rotor Features

Fully autoclavable

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

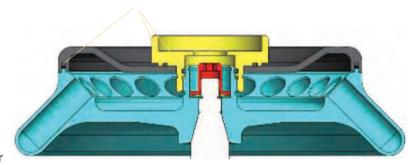
Three-layer seal

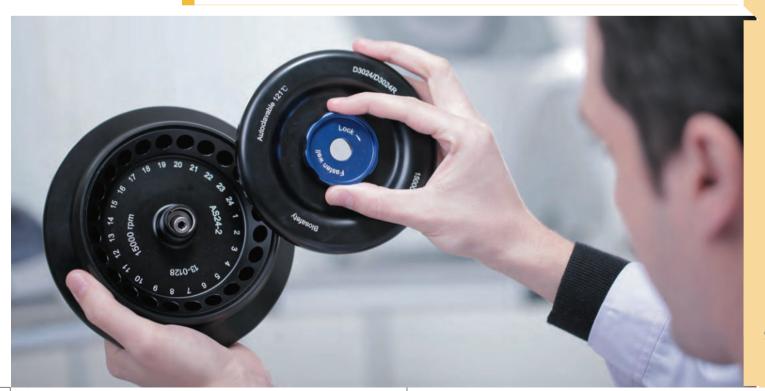
Aspired to be the top-of-the-line model, D3024 & D3024R rotors are designed to prevent sample leakage. Each and every rotor is hermetically sealed by three rubber seals.

Mechanical safety

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

Three rubber seals fitted to achieve bio-safe condition





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Available rotors



Cat. No. 19400069

AS24-2 for D3024 & D1524R

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

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

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

Available rotor adapters: A02P2,A05P2



Cat. No. 19400070

AS12-5V (cone bottom)

for D3024 & D1524R

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

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



AS36-05

for D3024 & D1524R

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

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



AS4-PCR8

for D3024 & D1524R

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

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

Cat. No. 19400071

Cat. No. 19400072



Cat. No. 19400073

AS18-5 (round bottom)

for D3024 & D1524R

Max. speed :15000rpm Max. RCF:21380×g

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

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

Available adapters



A02P2

Cat. No. 19500001

0.2mL rotor adapter Used with A12-2, A12-2P, AS24-2 and A24-2P rotors



A05P2

Cat. No. 19500002

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



A02P05

Cat. No. 19500003

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

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

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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 200-12000rpm, max. RCF 13680×g
- Precise control of speed and time separately
- Easy operation with intuitive menu and easy-to-read display
- Maintenance-free brushless DC motors
- Pulse operation for quick spins
- Rotor capacity: Hematocrit rotor
- Hematocrit rotor:24 capillary max. speed:12000rpm

DM1224

Economical Hematocrit Centrifuge

Features

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





Specifications	DM1424	DM1224
Speed Range	200-12000rpm, increment: 10rpm	500-12000rpm, increment: 100rpm
Max. RCF	13680×g	13680×g
Speed Accuracy	±20	±100
Run Time	30sec-99min/Continuous	10sec-99min/Continuous
Motor	Brushless DC motor	Brushless DC motor
Display	LCD	LCD
Safety Devices	Door interlock,Overspeed detector; Automatic internal diagnosis, Automatic rotor identification	Door interlock
Acceleration/Braking time	30s↑30s↓	40s↑40s↓
Power	Single-phase, 200V-240V,50Hz/60Hz, 5A; 100V-120V,50Hz/60Hz, 5A 160W	Single-phase, 200V-240V,50Hz/60Hz, 5A; 380W
Dimension[WxDxH]	280×364×274mm	280×364×213mm

10kg

CE cTÜVus FCC MCA IVD

Speed/RCF switch;Short-time run

function; sound-alert function



Cat. No. 19400047

Available rotors

10kg

Speed/RCF switch; Short-time run

function; sound-alert function

AC24 DM1424 & DM1224

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

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



Weight

Certification

Advanced features





Precise control

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

Ergonomic design

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

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

Conforms to international safety standards and regulations

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



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

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





Features

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



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Specifications

DM0412

Speed Range

Max. RCF

Speed accuracy

Rotor type

Run Time

Motor

Display

Safety Devices

Acceleration/Braking time

Power

Dimension[WxDxH]

Weight

Certification

Advanced features

300-4500rpm, increment: 100rpm

2490×g

±20rpm

A12-10P, A6-50P

30sec-99min HOLD(Continuous operation)

Brushless DC motor

LCD

Door interlock, Overspeed detector; Automatic internal diagnosis

A12-10P: 20s ↑ 13s ↓ A6-50P: 20s ↑ 20 s /90 s ↓

Single-phase, 100V-240V,50Hz/60Hz, 3A 70W

354×304×215mm

6kg

CE, cTUVus, IVD

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





Available rotors



Cat. No. 19200348

A12-10P (round bottom)

for DM0412 & DM0412s & DM0424 & DM0408

Max. speed: 4500rpm Max. RCF: 2490×g

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



Cat. No. 19100197

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

Max.speed: 4000rpm Max.RCF: 1800×g

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

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

Available tubes	Tube quantity	Dimension (⊕Lxmm)	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	12	13×100	A10P15	4500	11	2490
		16×75			11	2218
8.5-10 mL vacu	12	16×107		4500	11	2490
2.7-3 mL(EU) collection tube	12	11×66	A10P15 & Plug	4500	9.8	2218
7.5-8.2 mL(EU) collection tube	12	15×92	A10P15	4500	11	2490

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

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DM0412P centrifuge

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

Features

- Max. speed 4500rpm;
- Rotor speed can be set in RPM/RCF;
- 3 preloaded programs for fast operation;
- 9 programs for customization can be stored in memory;
- Powerful CPU for easy operation of speed, time and all other parameters;
- Easy-to-read processing display and sound alert;
- Automatic lid-lock release after running;
- Conforms to international safety standards and regulations marked with CE, cTUVus and FCC, and passed the explosion-proof test / MCA test according to IEC/EN61010-2-20;
- Passed EN61010-2-101: 2 0 0 2 particular requirements for In-Vitro diagnostic (IVD) medical equipment;
- Maintenance-free brushless DC motor.



Specifications				
Speed Range				
Max. RCF				
Speed accuracy				
Rotor capacity				
Run Time				
Motor				
Display				
Preloaded Program				
Custom Programs Memory				

Rotor capacity
Run Time
Motor
Display
Preloaded Program
Custom Programs Memory
Safety Devices
Noise
Power
Dimension[WxDxH]
Weight
Certification
Advanced features

DM0412P 300-4500rpm, increment:10rpm 2490xg, increment: 10g ±10rpm 8x15ml,12x10mL/7mL/5mL 30sec-99min Brushless DC motor LCD
2490xg, increment: 10g ±10rpm 8x15ml,12x10mL/7mL/5mL 30sec-99min Brushless DC motor
±10rpm 8x15ml,12x10mL/7mL/5mL 30sec-99min Brushless DC motor
8x15ml,12x10mL/7mL/5mL 30sec-99min Brushless DC motor
30sec-99min Brushless DC motor
Brushless DC motor
LCD
PRP PRF CGF
9 programs (6 steps for each program)
Door interlock, Overspeed detector, Automatic internal diagnosis
≤56dB
Single-phase, 100V-240V,50Hz/60Hz, 3A,70W
301X354X217mm
6kg
CE, cTUVus, IVD

Speed/RCF switch; sound-alert function



Rotor(A12-10P)&Adapters:

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





DLAB内文-2020-ok.indd 104 2020/11/30 上午10:53 DLAB DM0506 low-speed centrifuge, supplied with built in fixed angle rotor A6-15P which can hold up to 15mL/10mL/7mL/5mL×6 tubes. It is widely used for blood or urine separation in medical routine practice in hospitals, clinics or research institutes.

DM0506 Low-speed Centrifuge

New



Features

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

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



Available adapters

Weight

Advanced features



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A5P17

Cat. No.19500022

5.2kg Speed/RCF switch; sound-alert

function

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



A2P17

Cat. No.19500023

1.5/2ml Cryogenic Vials/ centrifuge tube adapter

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

DM0424

low Speed Centrifuge

Features

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





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Specifications

Speed range

Max. RCF

Speed accuracy

Rotor

Run time Motor

Display

Program

Safety Device

Acceleration/deceleration

Power

 $\mathsf{Dimension}(\mathsf{W} \! \times \! \mathsf{D} \! \times \! \mathsf{H})$

Weight Noise

DM0424

500-4000rpm increment: 100rpm

2500×g

±100rpm

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

1-99min, HOLD

Brushless DC motor

LCD

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

Automatic internal diagnosis

3 ↑ 4 ↓ steps

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

364×440×268mm

14.5kg ≤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)

DM0408Clinical Centrifuge

Features

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



Available rotors



S6-15 Cat. No.19400082 for DM0424

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

Cat. No.19400100



S4-50 for DM0424

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

A24-15P Cat. No.19400101 for DM0424



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

The world

A8-15P Cat. No.19400084

for DM0424/DM0408

Max. Speed: 4000rpm Rotor capacity:15ml×8

Rotor material: High strength plastic Default adaptor: A15P22



DM0424

DM0424&DM0408

A12-10P Cat. No.19200348

for DM0424/DM0408 DM0412/DM0412S

Cat.No. 19200348

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

Rotor Capacity Hole Diameter (mm) S6-15 15mlx6 22 S4-50 50mlx4 29.4 A24-15P 15mlx24 22 A8-15P 15mlx8 22.6 A12-10P 15mlx8/10mlx12 18.6

Available adapters



A15P30

Cat. No.19500024

50ml change 15ml adapter, Adapted to 17×120 mm centrifuge tube, $13/16\times100$ mm blood collection tube 4pcs/pk, for S4-50



A15P22

Cat. No.19500021

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



A5P17

Cat. No.19500022

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



A2P17

Cat. No.19500023

(Optional)

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

Hole Depth (mm)	Max. Tube Height (mm)	Max. Speed (rpm)
97.7	120.6	4000
87.8	125	4000
97.7	120.6	4000
90.8	120.3	4000
83.4	123	4000

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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 rotors optional(fixed angle and swing-out bucket rotors)
- Automatic rotor identification
- Timers can be set up to 99 min or HD for contionous running
- Pulse Key for quick spin function
- 9 procedures stored in memory makes the operation much simplified
- Maintenance-free brushless DC motors



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Specifications

Conned range
Speed range
Max. RCF
Speed accuracy
Max. Capacity
Run Time
Motor
Display
Program Memory
Safety Devices
Acceleration/Deceleration
Power
Dimension[WxDxH]
Weight
Certification
Advanced features

DM0636

300-6000rpm increment:10rpm 4020xg ±20rpm 100mLx4 30sec-99mins/continuous Brushless DC LCD Door Imbalance protection Over speed & Over temperature detection 9 ↑ /10 ↓ steps 660W; Single-phase AC220V-240V, 50Hz/60Hz, 6.3A; AC110V-120V,50Hz/60Hz,10A 445x579x269mm 36kg CE

> speed/rcf switch; Rotor identification

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Uncapping block

for S4-100 rotor



SE4-100(Standard accessory) for DM0636

Max. speed: 4000rpm Max. RCF: 2950×g

Rotor material: stainless steel body and adapter





A15V

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







19400044



19400043



19400042

Cat. No. 19500025

bucket						x 4					
tube	x 3	36		x 16		x 8	x 4	x 4	x 4	x 8	x 20
Nominal volume	3-7	mL	10mL	12mL	15mL	50mL	100mL	85mL	50mL	15mL	3-7mL
φ×L mm	13×75	13×100	16×100	17×105	17×120	29.5×100	38×108	38×104	29.5×100	17×120 13×100 13×75	13×100 13×75
tube											
adapter	with plug					A 50V	A100	DP80	A100P50 A50V	A100P15	(i) A100P10
Package	36					8		1	4	8	4
Tubes per rotor	36	36	16	16	16	8	4	4	4	8	20
Radius(cm)	14	16.5	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.1	14.7
Max RCF (g-force)	2500	2950	2840	2840	2840	2840	2840	2840	2840	2700	2630

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Available rotors



S2-MP

DM0636

Max. speed: 4000rpm Max. RCF: 2200×g

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

plates×8pcs; Deep well plates×4pcs

Rotor material: stainless steel body and aluminum buckets



AS12-PCR8

DM0636

Max. speed: 6000rpm Max. RCF: 4020×g

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

Biosealing: Yes



AS30-2

DM0636

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

Biosealing: Yes



AS60-2 DM0636

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

Biosealing: Yes

Cat. No. 19400034

Cat. No. 19400062

Cat. No. 19400036

Cat. No. 19400037

Available rotors



AS6-50V (cone bottom)

DM0636

Max. speed: 6000rpm Max. RCF: 4020×g

Rotor capacity: 50mL×6 or 15mL×6

Rotor material: aluminum

Biosealing: Yes



AS18-5V (cone bottom) Cat. No. 19400035 DM0636

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

Rotor material: stainless steel body and aluminum buckets

Biosealing: Yes



A8-50 (round bottom) DM0636

Cat. No. 19400039

Cat. No. 19400038

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

Rotor capacity: 50mL×8 or 15mLx16

Rotor material: aluminum body and stainless steel adapter

Default adapters: SE100P31x8,SE100P17x6



A30-15 (round bottom) Cat. No. 19400040

DM0636

Max. speed: 4500rpm Max. RCF: 3210xg Rotor capacity: 15mL×30

Rotor material: aluminum body and stainless steel

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

Rotor	Capacity	Hole Diameter (mm)
AS30-2	2mlx30	11.2
AS60-2	2mlx60	11.2
AS6-50V	50mlx6	31
AS18-5V	5mlx18	17.5
A8-50	50mlx8	35
A6-50	15mlx16	17.5
A30-15	15mlx30	17.5
	Micro platex8/	
S2-MP	Deep well	-
	platex4	

ı	Hole Depth (mm)	Max. Tube Height (mm)	Max. Speed (rpm)
	39	43	6000
	39	43	6000
	87.8	118	6000
	51	56	6000
	85.8	118	5000
	98	123	5000
	98	123	4500
			4000
	-	-	4000

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DLAB mixers range can be divided into different series as per mixing speed, working mode, load capacity etc:

Series	lmage	Model	Speed Range	Working mode	Capacity	Page
		MX-S	0~2500rpm	Orbital (touch + continuous modes)	-	P.115
Vortex Mixer	Ė	MX-F	2500rpm (fixed)	Orbital (touch + continuous modes)	-	P.115
		MX-E	3000rpm (fixed)	Orbital (touch mode)	-	P.116
Cell disruptor		MX-C	0~2500rpm	Orbital (touch + continuous modes)	8x2ml	P.118
Microplate Mixer		MX-M	0~1500rpm	Orbital (continuous mode)	0.5Kg	P.122
		MX-T6-Pro	0~70rpm	360° rocking&rolling (timer + continuous)	4Kg	P.127
Roller Mixer	Tim.	MX-T6-S	0~70rpm	360° rocking&rolling (continuous)	4Kg	P.127
	("")	SK-R30S-E	0~30rpm	30±3° rocking (continuous)	10x10ml, 4x50ml	P.126
Rocking Rotator	Junion -	SK-R30L-E	0~30rpm	30±3° rocking (continuous)	16x10ml 6x50ml	P.126
		SK-R30D-E	0~30rpm	40±3° rocking (continuous)	32x10ml,12x50ml	P.126
Disk Potator		MX-RD-Pro	10~70rpm	360° rolling (timer + continuous)	60x1.5ml,16x15ml, 8x50ml, (available for 3 layers)	P.123
Disk Rotator		MX-RD-E	0~80rpm	360° rolling (continuous)	48x2ml,16x15ml, 8x50ml	P.123
Doticsonia Datat		MX-RL-Pro	10~70rpm	360° rolling (timer + continuous)	48x1.5ml,24x15ml, 24x50ml	P.124
Rotisserie Rotator	Merchin	MX-RL-E	0~80rpm	360° rolling (continuous)	32x2ml, 20x15ml,16x50ml	P.124

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DLAB shaker series can be divided to different types as per different motion models:

Series	Image	Model	Plate Size	Display	Speed Range	Max. Load Capacity	Page
Orbital Shaker	En.	SK-O330-Pro	32x32cm	LCD	100-500rpm	7.5Kg	P.128
	The state of the s	SK-O180-Pro	25x24.5cm	LCD	100-800rpm	2.5Kg	P.128
	100	SK-O180-S	24x21.5cm	LED	40-200rpm	3Kg	P.128
		SK-0330-M	33.5x33.5cm	LCD	70-400rpm	3Kg	P.130
		SK-L330-Pro	32x32cm	LCD	100-350rpm	7.5Kg	P.131
Linear Shaker		SK-L180-Pro	25x24.5cm	LCD	100-350rpm	2.5Kg	P.131
		SK-L180-S	24x21.5cm	LED	40-200rpm	3Kg	P.131
Rocking	33	SK-R330-Pro	30x28.5cm	LCD	10-70rpm	10Kg	P.133
Shaker	3	SK-R1807-S	24x21.5cm	LED	10-80rpm	3Kg	P.133
3D	33	SK-D3309-Pro	30x28.5cm	LCD	10-70rpm	5Kg	P.135
Shaker	3	SK-D1807-S	24x21.5cm	LED	10-80rpm	3Kg	P.135

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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	S	oe	cif	ic	at	io	n	S
----------------	---	----	-----	----	----	----	---	---

V/n	tane

Power

Mixing motion

Orbital diameter

Motor type

Motor rating input

Motor rating output

Speed range

Speed display

Run type

Dimension[W×H×D]

Weight

Permissible ambient temperature

Permissible relative humidity

Protection class

MX-S Adjustable speed)

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

60W
Orbital
4mm
Shaded pole motor
58W
10W

0-2500rpm Scale

Touch operation/ Continuous 127×130×160mm 3.5kg

> 5-40°C 80%RH

> > IP21

MX-F (Fixed speed)

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

Orbital 4mm Shaded pole motor 58W

10W 2500rpm

-Touch operation/

Continuous 127×130×160mm

3.5kg

5-40°C

80%RH -----IP21 D AB

Market Parket

VT1.1 Standard top (Default)

for <Ø30mm tubes and small vessels

Cat. No.18900034



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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

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
J-4U
≤80%RH
IP21





VT1.2 Tube holding rod

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

VT1.3 Universal top plate

Ø 100mm

Cat. No.18900505





VT1.3.1 tube adapter

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





VT1.3.2 tube adapter

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





VT1.3.3 tube adapter for 16 holes test tubes, Ø12mm (5ml) Cat. No.18900022





VT1.3.4 tube adapter

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





VT1.3.5 tube adapter for 8 holes test tubes, Ø20mm (10ml-15ml) **Cat. No.**18900024



VT1.3.6 Platform pad

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





Application of accessories

Adjustable speed model Accessories (0-2500rpm)

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



VT1.3.7 vacuum chuck

made of rubber Cat. No.18900158



MX-C Cell Disruptor

Cell disruption is the method or process for releasing biological molecules from inside a cell. The cell suspension and the microbeads are fully mixed under controlled rapid oscillation. The microbeads and the cells shear and collide with each other effectively breaking the cell wall and releasing its contents. Best suited for research work in laboratories ideal for accurate, reproducible, repeatable results.

Features

- Easy to operate Rapid hands-free disruption
- Processes at a Constant, Controlled Shear Rate
- Simultaneous processing of multiple samples
- Maintains genome integrity of the biological samples
- Facilitates subsequent purification





Key Applications

Suitable for all sample types; Lysing highly contagious samples; Lysis of yeast and fungi; Used for Isolation of PCRReady Genomic DNA from Fecal Samples; Used for Isolation of PCR-Ready Genomic DNA from Fungi and Bacteria Samples; Used for Isolation of PCR-Ready Genomic DNA from Soil Samples; DNA & RNA Purification; Lysis of bacteria; Lysis of soft tissues; Isolation of genomic DNA; Purification of DNA; Cell Lysis; Used to lyse cell wall of yeast; Break hard/brittle samples.

The Cell Disruptor effectively solves the cell disruption difficulties caused by cell wall structure and cell number.

- 1. The cell wall of Gram-positive bacteria is mainly composed of peptidoglycan and acid polysaccharide. The cell walls of various yeasts and fungi are mainly composed of polysaccharides and proteins, and their dense network structure is not easy to break.
- 2. Some samples are more rare and precious and limited in number or volume.
- 3. Inappropriate crushing methods may cause genome breakage and affect subsequent experiments.

Specifications	MX-C
Functions	Disrupts cells, yeast, bacteria, algae, fungi, etc. to prepare cell lysates for further processing
Mixing motion	High-speed circumferential vortex and oscillation function
Orbital diameter [mm]	4
Speed range [rpm]	0-2500 (Adjustable)
Speed display	Scale
Capicity	8×2mL
Voltage [VAC]	200-240V/ 100-120V, 50/60 Hz, 60W
Dimension [mm]	127×130×160
Weight [kg]	3.5

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For most research of microorganism and algae, the cell wall lysis is the first step, no matter what the subsequent process is such as sequencing, identification and cloning, or intracellular substances research such as various proteins and other biomolecules. The existing common cell disruption methods has its own disadvantages which are explained below:

Common methods

Disadvantage

Enzymatic method

It is not versatile. Different microorganism need different enzymes, and their effects are different. Enzymes cause product inhibition, and its price is high.

Chemical method

The addition of chemical reagents will form new pollution, adding trouble to further separation and purification.

Ultrasonic method

It is easy to generate heat during the ultrasonic process, which may cause protein denaturation and destroy

Liquid nitrogen grinding

The operation is required fast, and it is easy to be frostbite if the operation is careless. Only one sample can be processed one time.

Repeated freeze-thaw

This method can be used for bacteria with weak cell walls, but the process takes longer time. The freeze-thawing time and frequency need to be optimized to preserve cell lysate.

High-pressure homogenization It is suitable for large number of samples. Gram-positive bacterial and fungal hyphae may cause blockage and damage to the instrument, and its cost is high too.

Application Examples

Yeast cells

1ml yeast solution (OD600=1) is diluted 10 times and counted using microscope (magnification ×400/×1000). Add 0.5g 1mm/0.2mm mixed microbeads and 300ul yeast solution to the 2ml centrifuge tube. Set maximum rotation to disrupt for 5 minutes. Then count again using microscope quantification.

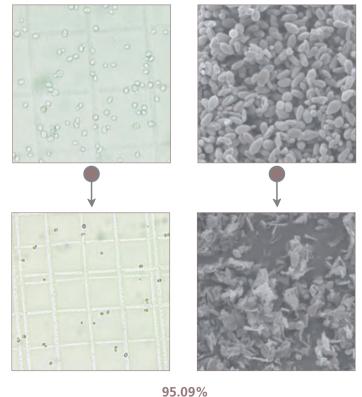


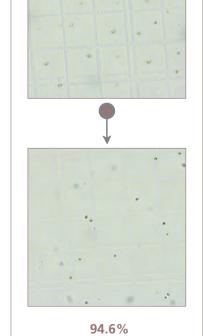
Microscopic verification

8.2×10⁷cell/ml

 4.0×10^6 cell/ml







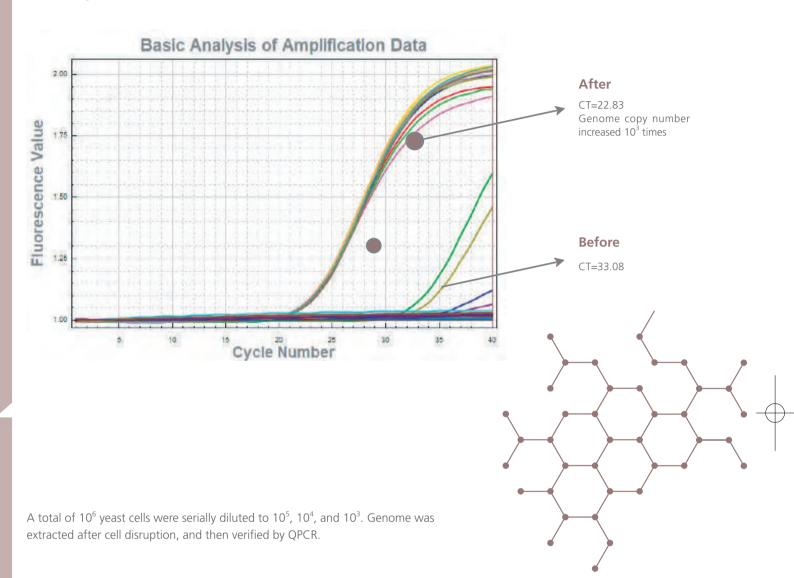
Efficiency

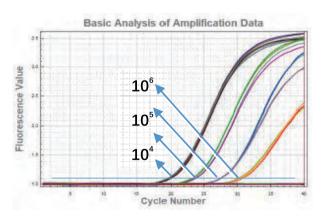
After disruption

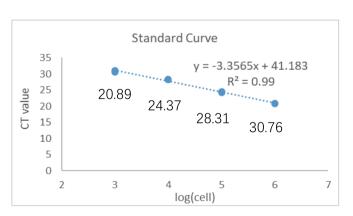
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QPCR verification

Extract the genomes of 10⁶ cell for QPCR verification.







 $R^2 = 0.99$. It indicate that the cell disruption efficiency is basically the same when cells number are in the range of 10^3 - 10^6 . This method is very suitable for rare-cell analysis.

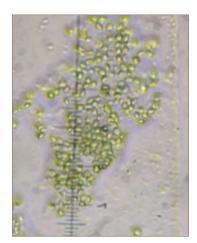
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2 Chlorella cells

Use the same method to disrupt Chlorella cells.

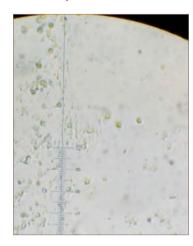
Microscopic verification

Untreated Solution



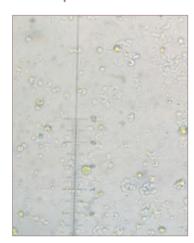
The cell structure can be clearly observed

Disruption Time: 3min



Large amount of cell debris and a small amount of unbroken cell structure can be observed.

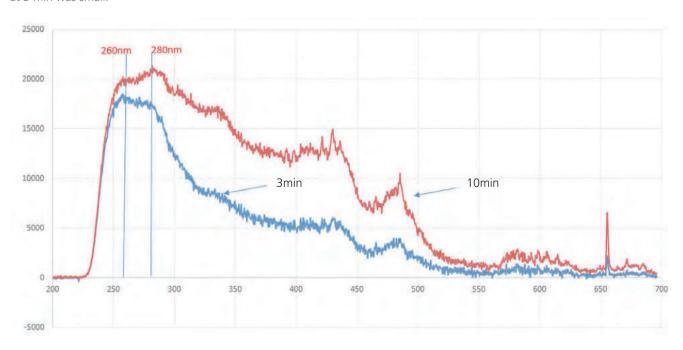
DisruptionTime:10min



A large amount of cell debris is observed.

Spectrophotometer verification

The broken cells were filtered with 0.45µm filter membrane. The spectral absorbance was measured with spectrophotometer. There was an obvious absorption at 260 nm and 280 nm after 3min disruption, but the difference of absorbance at 10 min and at 3 min was small.



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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.



Brushless DC motor



Wide range of accessories

MX-M

Microplate Mixers

Features

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







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



PS1.1 Universal top plate

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



VT1.3.1 tube adapter

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



VT1.3.2 tube adapter

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



VT1.3.3 tube adapter

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



VT1.3.4 tube adapter

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



VT1.3.5 tube adapter

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



1

MXM-116

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

Specifications	3pecilications
----------------	----------------

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

Motor type Motor rating input Motor rating output

Speed range

Speed display
Voltage
Power
Dimension
Weight
Permissible ambient
temperature and humidity

Protection class

MX-M

Orbital 4.5mm

0.5kg

Brushless DC motor 18W

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

> Scale -240V,50/

100-240V,50/60Hz 20W

260×150×80mm 3kg

5-40°C,80%RH

IP21

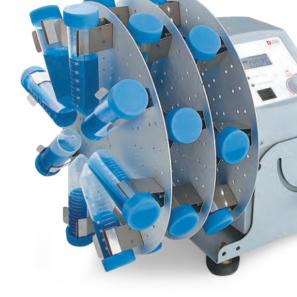
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DLAB rotators give gentle but effective mixing of biological samples held in 1.5mL to 50mL tubes, and are used in a variety of applications including immune precipitations, prevention of blood coagulation, latex diagnostics, etc.

MX-RD-Pro LCD Digital Rotator

Features

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



MX-RD-E

Economical Rotator

Features

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



LCD display



Adjustable angle



Wide range of accessories

Chacifications

Protection class





IP21

Specifications	MX-KD-Pro	IVIX-KD-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

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IP21

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

MX-RL-E
DC motor
0-80rpm
Scale
Scale
-
Continuous
100-240V, 50/60Hz
20W
150X530X190mm
5-40°C,80%RH
IP21

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Disk Accessories Type-1

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

Cat. No.

18900160



Disk Accessories Type-2

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

Cat. No.

18900161





Disk Accessories Type-3

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

Cat. No.

18900162



Disk support rods

4pcs in a group use with disk accessories

Cat. No.

18900140



Rotisserie Accessory Type-1

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

Cat. No.

18900142



Rotisserie Accessory Type-2

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

Cat. No.

18900143



Rotisserie Accessory Type-4

Used for MX-RL-Pro,for 1.5mLx32 centrifuge tubes held vertically

Cat. No.

18900145



Rotisserie Accessory Type-3

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

Cat. No.

18900144



Rotisserie Accessory Type-5

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

Cat. No.

18900146



Rotisserie Accessory Type-6

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

Cat. No.

18900147



Plastic Clips

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

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

SK-R30S-E

Short Deck Rocking Rotator

Features

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





SK-R30L-E

Long Deck Rocking Rotator

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

SK-R30D-E

Long Deck Double Layer Rocking Rotator

Features

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







Specifications

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

SK-R30S-E

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

SK-R30L-E

30±3°
1kg
Brushless DC motor
0~30
Continuous
405×160×120mm
100~240V, 50/60Hz
15W
2kg

5~40°C,80%RH

3K-K3UD-E
40±3°
1kg
Brushless DC motor
0~30
Continuous
405×160×160mm
100~240V, 50/60Hz
15W
2.2kg
5~40°C,80%RH

Accessories Information



Cat. No.18202835

5~40°C, 80%RH

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

Cat. No.18202852 Silicone mattress for 10x 5~10ml blood collection tubes on short decks (SK-R30S-E)



Cat. No.18202846

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



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MX-T6-Pro

LCD Digital Tube Roller

Features

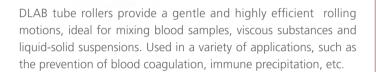
- LCD displays the speed and time
- Speed range of 10-70rpm
- Six roller design for gentle rolling and easy to clean
- Continuous or timer operation

MX-T6-S

Tube Roller

Features

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





LCD display



Time





Specifications

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

MX-T6-Pro

IVIA	-10-110
	24mm
DO	C motor
Rockin	g and rolling
	4kg
	6
2	80mm
10	-70rpm
	LCD
	Yes
	LCD
1-1	1199min
Conti	nuous/timer
100-24	10V,50/60Hz
	30W
450×2	60×120mm
	5.1kg
5-40	°C,80%RH
	IP21

MV TG

MIX-16-5
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.

Emiss Missel

SK-O330-Pro SK-O180-Pro

LCD Digital Orbital Shaker

Features

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



Timer



Wide range of accessories

SK-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











Specifications	SK-O330-Pro	SK-O180-Pro	-Pro SK-O180-S	
Orbital diameter	10mm	4mm	20mm	
Max. load capacity (with platform)	7.5kg	2.5kg	3kg	
Motor type	Brushless DC motor	Brushless DC motor	DC motor	
Motor input power	28W	28W	16W	
Motor output power	15W	15W	10W	
Speed range	100-500rpm	100-800rpm	40-200rpm	
Speed display	LCD	LCD	LED	
Timer display	LCD	LCD	LED	
Time settings range	1min-19h59min	1min-19h59min	1min-19h59min	
Voltage	100-240V,50/60Hz	100-240V,50/60Hz	100-240V,50/60Hz	
Power	30W	30W	20W	
Weight	13.5kg	8.1kg	3.1kg	
Permissible ambient temperature and humidity	5-40°C, 80%RH	5-40°C, 80%RH	5-40°C,80%RH	
Dimension[W×D×H]	370×420×100mm	300×340×100mm	270×330×110mm	
Protection class	IP21	IP21	IP21	
Data connector	RS232	RS232	-	



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SK-0330-M

Fixed Top LCD Digital Orbital Shaker

Features

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



Orbital Diameter

Specifications

Max. Load capacity

Motor type

Motor Input Power

Motor Output Power

Speed Range

Speed Display

Timer Display

Time Setting Range

Voltage

Power

Weight

Permissible Ambient temperature and humidity

Dimension(WxDxH)

Protection class

10mm

3kg

Brushless DC Motor
20W

15W

70~400rpm

LCD

LCD

1~1199min

100-240V, 50/60Hz
25W
9.8kg

5~40°C, 80%RH

420×370×100mm

IP21







SK-L330-Pro SK-L180-Pro

LCD Digital Linear Shaker

Features

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



Timer



Wide range of accessories

SK-L180-S

LED Digital Linear Shaker

Features

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



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

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

SK-R330-Pro LCD Digital Rocking Shaker

Features

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





Timer



Wide range of accessories

SK-R1807-S LED Digital Rocking shaker

Features

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









Specifications

Tilt angle

Max. load capacity
(with platform)

Motor type

Motor input power

Motor output power

Speed range

Speed range Speed display Timer display Time settings range Voltage Power

Weight
Permissible ambient temperature and humidity

Dimension[W×D×H]

Protection class

SK-R330-Pro

9°
10kg
DC motor
40W
24W
10-70rpm
LCD
LCD
1min-19h59min
100-240V, 50/60Hz
50W
9kg

5-40°C, 80%RH 360×410×200mm

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



SK-D3309-Pro

LCD Digital 3D Shaker

Features

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





Timer



Wide range of accessories



SK-D1807-S LED Digital 3D Shaker

Features

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







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

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

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Spectrophotometer

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

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



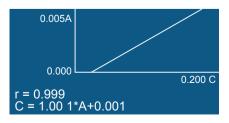
Features

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

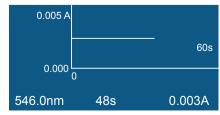
Basic Mode

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

Quantitative



Kinetics



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14kg

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

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14kg

12kg

12kg

Weight



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

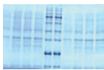


Cat. No. 18900342 Milas deuterium lamp,10V,300mA, 30W (for SP-UV1000&SP-UV1100)

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ECO Safe staining

Coomassie blue stained SDS-PAGE

colony dish image

Simple assemble



The GelSMART ael im

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.

Features

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



Applications:



Light source

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	

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

ST800-SA / ST800-EA

Infrared Sterilizer

Features

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

Specifications

ST800-SA	ST800-EA
LED	/
300~830	830
825±50	825±50
0-40°	0-40°
15	15
140	140
Ceramic	Ceramic
ABS	ABS
180x120x186	180x120x186
1.5	1.5
220V, 50/60Hz	220V, 50/60Hz
190	190
-10~40	-10~40
<80	<80
-40~60	-40~60
10~90	10~90

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