

**DLAB**

20  
24



Scaling new heights  
in Research  
**DLAB**  
your accessible solution

Catalog **2024**

## OUR ACCOMPLISHMENTS

Since its inception in 2002, DLAB Scientific has been a leading supplier of high-quality laboratory equipment. DLAB Scientific has its corporate offices in China and established subsidiaries in United States, Europe and India to enhance its business operations along with the expansion of its warehouse distribution. Our corporate facility is designed with international operation standards in about 35,000m<sup>2</sup> total area.

Our brands include DLAB, DRAGONLAB, DRAGONMED, DRAGON etc.

Over the years, the company has improved its product development, manufacturing and product portfolio utilizing state of the art technology solutions. We have developed and produced over 150 products covering liquid handling, thermal control, stirring & heating, distilling, centrifuges and mixing, etc. that are being deployed to meet various demands from small to conglomerate enterprises, academic organizations and research institutes in over 100 countries all over the world. We have developed a very strong network of over 500 distribution partners all over the world providing an impressive reach and accessibility to our end users.





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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/EEG Instrument guidelines: 73/023/EEG



# Liquid Handling

DLAB Liquid Handling range includes Micropipettes (Electronic Pipettes & Mechanical Pipettes), Pipette Filler, Pipette Controller and Stepper.

### List of DLAB models:

Series	Image	Model	Application	Operation Method	Volume Range	Channel Option	Autoclavable	Page
Mechanical Pipette		HiPette	Aqueous solution	Mechanical	0.1-10000µL	Single channel	YES	p.5
		MicroPette Plus	Aqueous solution	Mechanical	0.1-5000µL	Single Channel Adj. & Fixed;	YES	p.8
					0.5-300µL	8 Channel Adj.; 12 Channel Adj.;		
		MiniPette	Aqueous solution	Mechanical	25-300µL	Single Channel Fixed	NO	p.20
Electronic Pipette		dPette+	Aqueous solution	Electronic	0.5-1000µL	Single Channel Adj.	YES (lower part)	p.12
					0.5-300µL	8 Channel Adj.		
		dPette	Aqueous solution	Electronic	0.5-1000µL	Single Channel Adj.	YES (lower part)	p.14
Pipette Filler		Levo Plus	Aqueous solution	Electronic	0.1-100mL	Single channel	YES (silicon adapter&nozzle)	p.16
		Levo Me	Aqueous solution	Electronic	0.1-100mL	Single channel	YES (silicon adapter&nozzle)	p.18
Pipette Controller		Levo	Aqueous solution	Mechanical	0.1-100mL	Single channel	YES (silicon adapter&nozzle)	p.19
Pipette Pump		Levo E	Aqueous solution	Mechanical	2-25mL	Single channel	NO	p.20
Stepper		StepMate	Aqueous solution, high viscosity or volatile solution	Mechanical	0.5-50mL	Single channel	NO	p.21

In addition to Pipettes, Liquid Handling series also include various Dispensers, Electronic Burette 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 Burette	Vacuum Aspiration System	Economical Vacuum Aspirator	Bench top compact vacuum aspirator
Model	DispensMate	DispensMate-Pro	dFlow	dTrite	SafeVac	EcoVac	Smart VAC
Application	Reagent pipetting and liquid dispensing			Used in titration operations in chemical analysis, food industry, environmental analysis	Liquid collection and storage treatment, including cell culture medium, suspension, supernatant.		The product features for the aspiration and processing of liquids, including cell culture media, suspensions, and supernatants.
Operation	Manual	Manual	Electronic	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	0.1-99.9mL	0.01-99.99mL	Vacuum range: 0-600mbar Bottle volume:4L	Vacuum range: 0-500mbar Bottle volume:2L	Vacuum level 600mbar; Collection bottle volume: 1L
Reagent Recovery Function	NO	Yes	Yes	Yes	NO	NO	NO
Features	-	-Pro Glass piston (Part volume)	-	-	Sensitive level sensor,Self-closing connector	1L bottle optional, Switch manual and continuous aspiration	Optional 500mL bottle and filtration flask
Fully autoclavable	The part where the liquid flows	Whole	-	-	The part where the liquid flows	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.26	P.25	P.24	P.23	P.27	P.29	P.31





# HiPette

## Fully Autoclavable Mechanical Pipette

The DLAB new generation fully autoclavable mechanical pipette has the best ergonomic design and 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.



### Ultra-light ergonomic design

Light weight and light pipetting force with soft range adjustment and piston movement offers effortless & fatigue-less pipetting experience.



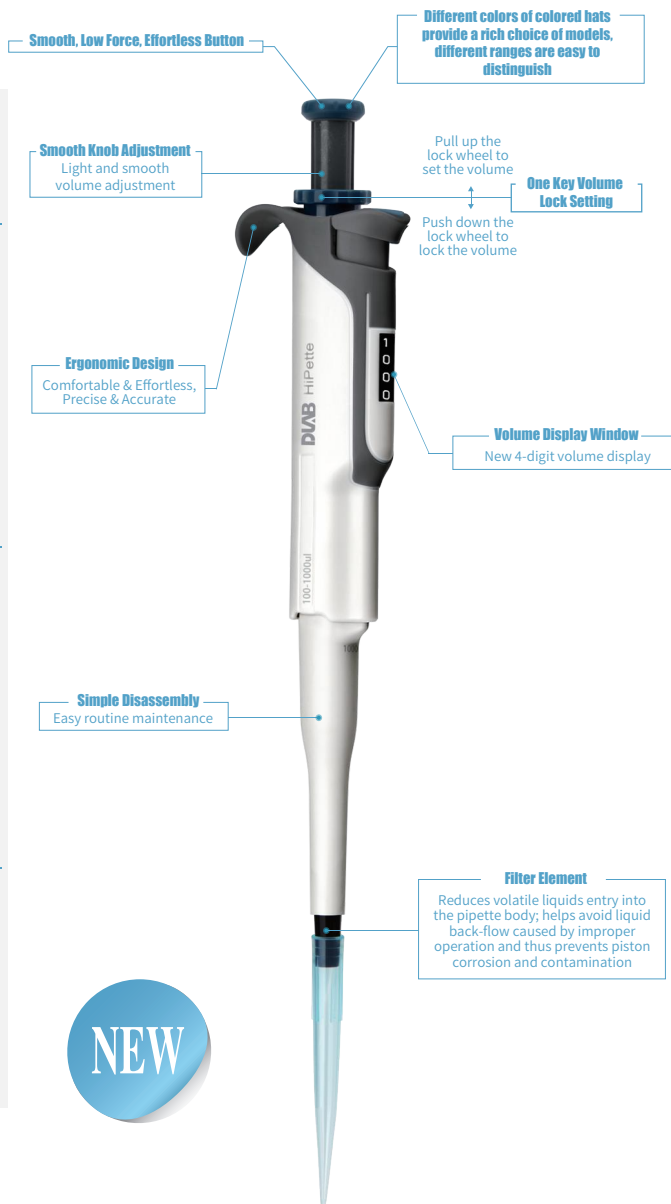
### Accurate pipetting

Special material and the updated components & technologies effectively reduces the operating force for accuracy, precision and reliability.



### 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.



## Specifications

SINGLE-CHANNEL ADJUSTABLE VOLUME PIPETTES  
(10 MODELS, COVERING 0.1µL~10mL.)

Volume Range	Increment	Test Volume	Systematic Error		Random Error	
µL	µL	µL	µL	%	µL	%
■ 0.1-2.5	0.002	2.5	±0.04	±1.4	±0.02	±0.7
		1.25	±0.03	±2.5	±0.02	±1.5
		0.25	±0.03	±12.0	±0.02	±6.0
■ 0.5-10	0.01	10	±0.10	±1.0	±0.04	±0.4
		5	±0.08	±1.5	±0.04	±0.8
		1	±0.03	±2.5	±0.02	±1.8
■ 2-20	0.02	20	±0.20	±1.0	±0.06	±0.3
		10	±0.12	±1.2	±0.06	±0.6
		2	±0.10	±5.0	±0.03	±1.5
■ 5-50	0.05	50	±0.45	±0.9	±0.15	±0.3
		25	±0.35	±1.4	±0.20	±0.8
		5	±0.15	±3.0	±0.08	±1.6
■ 10-100	0.1	100	±0.80	±0.8	±0.20	±0.2
		50	±0.50	±1.0	±0.15	±0.3
		10	±0.30	±3.0	±0.10	±1.0
■ 20-200	0.2	200	±1.20	±0.6	±0.40	±0.2
		100	±1.00	±1.0	±0.30	±0.3
		20	±0.50	±2.5	±0.14	±0.7
■ 30-300	0.2	300	±1.80	±0.6	±0.60	±0.2
		150	±1.50	±1.0	±0.45	±0.3
		30	±0.75	±2.5	±0.21	±0.7
■ 100-1000	1	1000	±6.00	±0.6	±2.00	±0.2
		500	±5.00	±1.0	±1.00	±0.2
		100	±3.00	±3.0	±0.60	±0.6
■ 500-5000	5	5000	±30.00	±0.6	±10.00	±0.2
		2500	±15.00	±0.6	±7.50	±0.3
		500	±12.00	±2.4	±3.00	±0.6
■ 1000-10000	10	10000	±60.00	±0.6	±20.00	±0.2
		5000	±40.00	±0.8	±10.00	±0.2
		1000	±30.00	±3.0	±6.00	±0.6

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

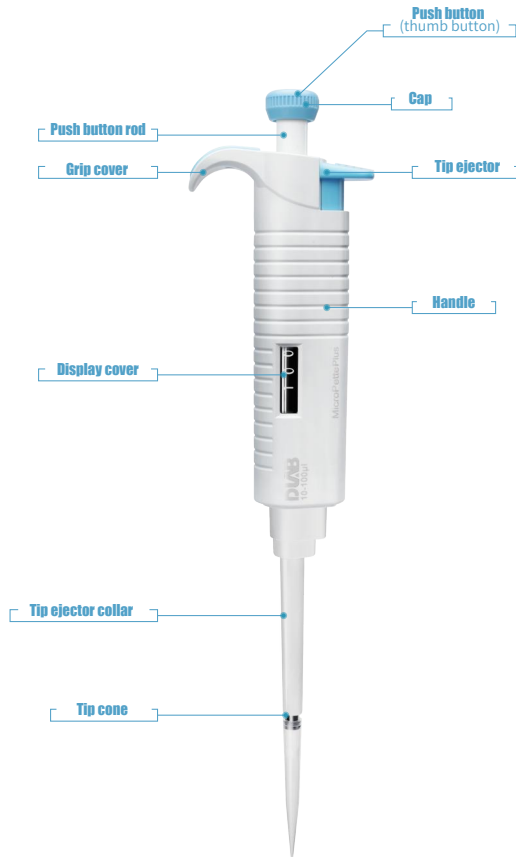
## **MicroPette Plus**

### **Fully Autoclavable Mechanical Pipette**

The MicroPette Plus pipette is fully autoclavable, being able to withstand temperatures of 121°C and pressure of 1ATM, and does not need to be pre-treated prior. Following the autoclave cycle, a 12 hour cooling and drying period ensures that the high performance of the MicroPette Plus is retained. It is recommended the piston and rubber seals be greased after every 10 cycles of autoclaving.



**121°C**  
**FULLY**  
**Autoclavable**



## Features

- Available as Fixed Volume and Adjustable Volume formats
- Streamlined shape design
- Comprehensive volume range from 0.1µL to 10mL
- Easy calibration and maintenance
- 8 and 12 channel pipette options
- Dispensing head rotates for effortless pipetting convenience
- Individual piston and tip cone assembly
- Spring loaded tip cones for easy cleaning and maintenance
- Compound material-made tip cone secures high sealing performance



# Mechanical Pipette Volume Selection

## Specifications

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

Single-channel Adjustable Volume Pipettes						
Volume Range	Increment	Test Volume	Error limits in accordance with ISO8655-2			
			Systematic Error		Random Error	
$\mu\text{L}$	$\mu\text{L}$	$\mu\text{L}$	$\mu\text{L}$	%	$\mu\text{L}$	%
0.1-2.5	0.05	2.5	$\pm 0.0625$	$\pm 2.50$	$\pm 0.05$	$\pm 2.00$
		1.25	$\pm 0.0375$	$\pm 3.00$	$\pm 0.0375$	$\pm 3.00$
		0.25	$\pm 0.03$	$\pm 12.00$	$\pm 0.015$	$\pm 6.00$
0.5-10	0.1	10	$\pm 0.1$	$\pm 1.00$	$\pm 0.08$	$\pm 0.80$
		5	$\pm 0.075$	$\pm 1.50$	$\pm 0.075$	$\pm 1.50$
		1	$\pm 0.025$	$\pm 2.50$	$\pm 0.015$	$\pm 1.50$
2-20	0.5	20	$\pm 0.18$	$\pm 0.90$	$\pm 0.08$	$\pm 0.40$
		10	$\pm 0.12$	$\pm 1.20$	$\pm 0.1$	$\pm 1.00$
		2	$\pm 0.06$	$\pm 3.00$	$\pm 0.04$	$\pm 2.00$
5-50	0.5	50	$\pm 0.3$	$\pm 0.60$	$\pm 0.15$	$\pm 0.30$
		25	$\pm 0.225$	$\pm 0.90$	$\pm 0.15$	$\pm 0.60$
		5	$\pm 0.1$	$\pm 2.00$	$\pm 0.1$	$\pm 2.00$
10-100	1	100	$\pm 0.8$	$\pm 0.80$	$\pm 0.15$	$\pm 0.15$
		50	$\pm 0.5$	$\pm 1.00$	$\pm 0.2$	$\pm 0.40$
		10	$\pm 0.3$	$\pm 3.00$	$\pm 0.15$	$\pm 1.50$
20-200	1	200	$\pm 1.2$	$\pm 0.60$	$\pm 0.3$	$\pm 0.15$
		100	$\pm 0.8$	$\pm 0.80$	$\pm 0.3$	$\pm 0.30$
		20	$\pm 0.6$	$\pm 3.00$	$\pm 0.2$	$\pm 1.00$
50-200	1	200	$\pm 1.2$	$\pm 0.60$	$\pm 0.3$	$\pm 0.15$
		100	$\pm 0.8$	$\pm 0.80$	$\pm 0.3$	$\pm 0.30$
		50	$\pm 0.5$	$\pm 1.00$	$\pm 0.2$	$\pm 0.40$
100-1000	5	1000	$\pm 6$	$\pm 0.60$	$\pm 2$	$\pm 0.20$
		500	$\pm 3.5$	$\pm 0.70$	$\pm 1.25$	$\pm 0.25$
		100	$\pm 2$	$\pm 2.00$	$\pm 0.7$	$\pm 0.70$
200-1000	5	1000	$\pm 6$	$\pm 0.60$	$\pm 2$	$\pm 0.20$
		500	$\pm 3.5$	$\pm 0.70$	$\pm 1.25$	$\pm 0.25$
		200	$\pm 1.8$	$\pm 0.90$	$\pm 0.6$	$\pm 0.30$
500-5000	50	5000	$\pm 25$	$\pm 0.50$	$\pm 7.5$	$\pm 0.15$
		2500	$\pm 15$	$\pm 0.60$	$\pm 7.5$	$\pm 0.30$
		500	$\pm 3.5$	$\pm 0.70$	$\pm 1.5$	$\pm 0.30$
1000-5000	50	5000	$\pm 25$	$\pm 0.50$	$\pm 7.5$	$\pm 0.15$
		2500	$\pm 15$	$\pm 0.60$	$\pm 7.5$	$\pm 0.30$
		1000	$\pm 7$	$\pm 0.70$	$\pm 3$	$\pm 0.30$
1000-10000	100	10000	$\pm 60$	$\pm 0.60$	$\pm 20$	$\pm 0.20$
		5000	$\pm 60$	$\pm 1.20$	$\pm 15$	$\pm 0.30$
		1000	$\pm 30$	$\pm 3.00$	$\pm 6$	$\pm 0.60$
2000-10000 Do not apply to MicroPette plus	100	10000	$\pm 60$	$\pm 0.60$	$\pm 20$	$\pm 0.20$
		5000	$\pm 60$	$\pm 1.20$	$\pm 15$	$\pm 0.30$
		2000	$\pm 60$	$\pm 3.00$	$\pm 12$	$\pm 0.60$
*2000-20000 Coming soon	100	2000	$\pm 120$	$\pm 6.00$	$\pm 60$	$\pm 3.00$
		10000	$\pm 120$	$\pm 1.20$	$\pm 60$	$\pm 0.60$
		20000	$\pm 120$	$\pm 0.60$	$\pm 60$	$\pm 0.30$

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

## Fixed Volume Pipettes

Volume Range	Increment	Test Volume	Systematic Error		Random Error	
$\mu\text{L}$	–	$\mu\text{L}$	$\mu\text{L}$	%	$\mu\text{L}$	%
5	–	5	$\pm 0.065$	$\pm 1.3$	$\pm 0.06$	$\pm 1.2$
10	–	10	$\pm 0.08$	$\pm 0.8$	$\pm 0.08$	$\pm 0.8$
20	–	20	$\pm 0.12$	$\pm 0.6$	$\pm 0.1$	$\pm 0.5$
25	–	25	$\pm 0.125$	$\pm 0.5$	$\pm 0.075$	$\pm 0.3$
50	–	50	$\pm 0.25$	$\pm 0.5$	$\pm 0.15$	$\pm 0.3$
100	–	100	$\pm 0.5$	$\pm 0.5$	$\pm 0.3$	$\pm 0.3$
200	–	200	$\pm 0.8$	$\pm 0.4$	$\pm 0.4$	$\pm 0.2$
250	–	250	$\pm 1.0$	$\pm 0.4$	$\pm 0.5$	$\pm 0.2$
500	–	500	$\pm 1.5$	$\pm 0.3$	$\pm 1.0$	$\pm 0.2$
1000	–	1000	$\pm 3.0$	$\pm 0.3$	$\pm 2.0$	$\pm 0.2$
2000	–	2000	$\pm 6.0$	$\pm 0.3$	$\pm 3.0$	$\pm 0.15$
5000	–	5000	$\pm 15$	$\pm 0.3$	$\pm 7.5$	$\pm 0.15$

## 8-channel Adjustable Volume Pipettes

Volume Range	Increment	Test Volume	Systematic Error		Random Error	
$\mu\text{L}$	$\mu\text{L}$	$\mu\text{L}$	$\mu\text{L}$	%	$\mu\text{L}$	%
0.5-10	0.1	10	$\pm 0.15$	$\pm 1.50$	$\pm 0.15$	$\pm 1.50$
		5	$\pm 0.125$	$\pm 2.50$	$\pm 0.125$	$\pm 2.50$
		1	$\pm 0.04$	$\pm 4.00$	$\pm 0.04$	$\pm 4.00$
5-50	0.5	50	$\pm 0.5$	$\pm 1.00$	$\pm 0.25$	$\pm 0.50$
		25	$\pm 0.375$	$\pm 1.50$	$\pm 0.25$	$\pm 1.00$
		5	$\pm 0.15$	$\pm 3.00$	$\pm 0.1$	$\pm 2.00$
10-100	1	100	$\pm 0.8$	$\pm 0.80$	$\pm 0.3$	$\pm 0.30$
		50	$\pm 0.5$	$\pm 1.00$	$\pm 0.4$	$\pm 0.80$
		10	$\pm 0.3$	$\pm 3.00$	$\pm 0.2$	$\pm 2.00$
50-300	5	300	$\pm 2.1$	$\pm 0.70$	$\pm 0.75$	$\pm 0.25$
		150	$\pm 1.5$	$\pm 1.00$	$\pm 0.75$	$\pm 0.50$
		50	$\pm 0.75$	$\pm 1.50$	$\pm 0.4$	$\pm 0.80$
100-1000	10	1000	$\pm 10$	$\pm 1.00$	$\pm 3$	$\pm 0.30$
		500	$\pm 10$	$\pm 2.00$	$\pm 2.5$	$\pm 0.50$
		100	$\pm 5$	$\pm 5.00$	$\pm 1$	$\pm 1.00$

## 12-channel Adjustable Volume Pipettes

Volume Range	Increment	Test Volume	Systematic Error		Random Error	
$\mu\text{L}$	$\mu\text{L}$	$\mu\text{L}$	$\mu\text{L}$	%	$\mu\text{L}$	%
0.5-10	0.1	10	$\pm 0.15$	$\pm 1.50$	$\pm 0.15$	$\pm 1.50$
		5	$\pm 0.125$	$\pm 2.50$	$\pm 0.125$	$\pm 2.50$
		1	$\pm 0.04$	$\pm 4.00$	$\pm 0.04$	$\pm 4.00$
5-50	0.5	50	$\pm 0.5$	$\pm 1.00$	$\pm 0.25$	$\pm 0.50$
		25	$\pm 0.375$	$\pm 1.50$	$\pm 0.25$	$\pm 1.00$
		5	$\pm 0.15$	$\pm 3.00$	$\pm 0.1$	$\pm 2.00$
10-100	1	100	$\pm 0.8$	$\pm 0.80$	$\pm 0.3$	$\pm 0.30$
		50	$\pm 0.5$	$\pm 1.00$	$\pm 0.4$	$\pm 0.80$
		10	$\pm 0.3$	$\pm 3.00$	$\pm 0.2$	$\pm 2.00$
50-300	5	300	$\pm 2.1$	$\pm 0.70$	$\pm 0.75$	$\pm 0.25$
		150	$\pm 1.5$	$\pm 1.00$	$\pm 0.75$	$\pm 0.50$
		50	$\pm 0.75$	$\pm 1.50$	$\pm 0.4$	$\pm 0.80$

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

# dPette+

## Multi-functional 8-channel Electronic Pipette

DLAB multi-functional high performance 8-channel electronic pipette offers productive pipetting with its easy to understand operations. Its uniquely lightweight streamlined design ensures an effortless transfer of multiple samples with an increased throughput and data reproducibility.



### Three easy steps to operate dPette+

1

Long press the Parameter Knob for 2 seconds to Start

2

Rotate the knob back and forth quickly to Switch Pipetting, Continuous Dispensing, and other Function Settings

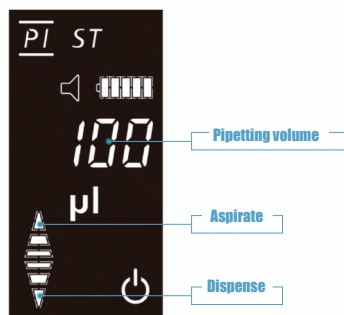
3

Quickly turn the Parameter Knob to unlock it, turn it to adjust the parameter such as volume, press it to pipette, long press it to mix



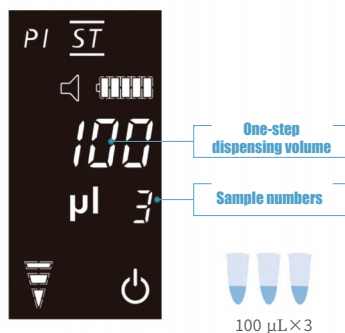
## Pipetting function

Parameter Knob press → Pipetting,  
Long press → Mixing



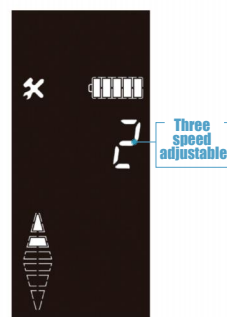
## Stepper function

Maximum steps = Pipette nominal volume /  
One step dispensing volume



## Other function

Pipetting speed adjustment  
Key tone ON/OFF



## Supports dual charging mode

### USB Charging



### Contact Charging



## Support automatic Calibration

Connect it to the computer, with the free software  
provided for calibration

Complimentary Pipette Holder

# Specifications

Channels	Volume Range	Increment	Test Volume	Systematic Error		Random Error	
	µL	µL	µL	µL	%	µL	%
8	0.5-10	0.01	10	±0.20	±2.00	±0.10	±1.00
			5	±0.20	±4.00	±0.10	±2.00
			1	±0.08	±8.00	±0.05	±5.00
8	10-100	0.1	100	±0.80	±0.80	±0.30	±0.30
			50	±0.50	±1.00	±0.40	±0.80
			10	±0.30	±3.00	±0.20	±2.00
8	15-300	1	300	±1.80	±0.60	±0.90	±0.30
			150	±1.50	±1.00	±0.75	±0.50
			15	±0.60	±4.00	±0.15	±1.00
8	30-300	1	300	±1.80	±0.60	±0.90	±0.30
			150	±1.50	±1.00	±0.75	±0.50
			30	±0.90	±3.00	±0.30	±1.00

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

dPette is an innovative Electronic Pipette developed by DLAB. It combines manual pipette features, as ergonomics and lightweight, with electronic pipette features, such as labor-saving and high accuracy, offering new pipetting experience to users.

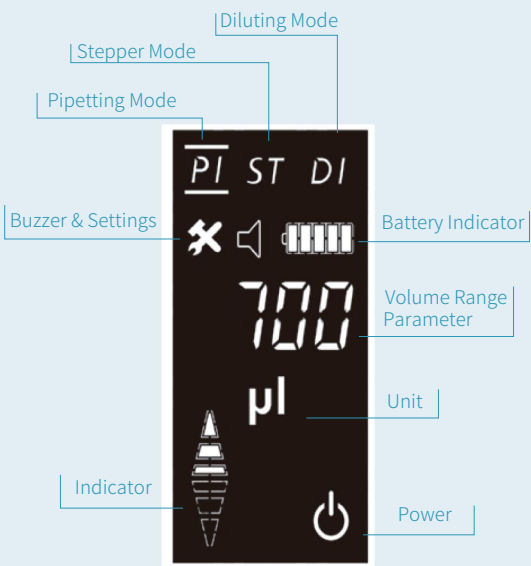
Parameter Knob

Function Wheel

Display

## ELECTRONIC PIPETTE

Pipette Tip cone





**dPette+**  
For Pipetting,  
Mixing, Stepper  
and Dilution



**dPette**  
For Pipetting  
and Mixing

## dPette+

Multi functional Electronic Pipette

## dPette

Simple Electronic Pipette

## Features

- Motor driven digitally control pipette with multifunctions
- Easy Operations and Handling
- Intuitive menu interface settings: functions and operations
- Minimal force for pipetting operation
- High performance ensuring accuracy & repeatability
- 2 buttons for all operational settings
- Adjustable speed for aspiration and dispensing
- Li-ion battery enable longer operation time
- Convenient and Versatile
- Self-calibration applicable

## Specifications

Channels	Volume Range	Increment	Test Volume	Systematic Error		Random Error	
	μL	μL	μL	μL	%	μL	%
1	0.5-10	0.01	10	±0.10	±1.00	±0.05	±0.50
			5	±0.10	±2.00	±0.10	±2.00
			1	±0.05	±5.00	±0.03	±3.00
1	5-50	0.1	50	±0.40	±0.80	±0.15	±0.30
			25	±0.25	±1.00	±0.25	±1.00
			5	±0.20	±4.00	±0.125	±2.50
1	30-300	1	300	±1.80	±0.60	±0.60	±0.20
			100	±1.00	±1.00	±0.40	±0.40
			30	±1.20	±4.00	±0.21	±0.70
1	100-1000	5	1000	±6.00	±0.60	±2.00	±0.20
			500	±5.00	±1.00	±1.00	±0.20
			100	±3.00	±3.00	±0.60	±0.60

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

# Levo Plus

## Pipette Filler

Ergonomic fast pipetting solution with accurate speed control



## Features

- Intuitive and convenient speed with 6 levels
- Lightweight pipette filler compatible with glass or plastic serological pipettes (0.1 -100mL)
- Ergonomic design for fatigue-free and effective streamlined pipetting
- LCD screen displays battery status and pipetting speed
- Quiet and powerful motor and pump fills 25mL pipette in less than 5 seconds
- Long-lasting lithium-ion battery





Select pipetting speed by pressing ↑/↓ button

Large LCD display for low battery warning and speed settings

Aspiration button

Operating button for motor and gravity dispensing

Hydrophobic filter 0.45μm

Silicone adapter for 1.0-100mL pipette tip, fully autoclavable



## Specifications

Aspiration Speed	25mL<5s (6 Level)
Dispensing Speed	Motor/Gravity
Battery	Replaceable lithium battery
Battery Service Life	More than 12 Hours of Intermittence Use
Charging Time	4-5 Hours
Pipette Types	Glass or Plastic Pipette (0.1-100mL), Pasteur Pipettes
Filter	0.45μm Hydrophobic
Weight	208g

## Levo ME

### Pipette Filler

Elegant design & reliable performance,  
with long-life battery

## Features

- Enables single-handed operation with minimum effort
- Speed adjustment simply with finger tips
- Individually set aspiration (upper button) and dispensing (lower button) speeds
- Compatible with glass or plastic serological pipettes(0.1-100mL)
- 0.45µm replaceable hydrophobic filter
- High capacity Li-ion battery enables long operation time

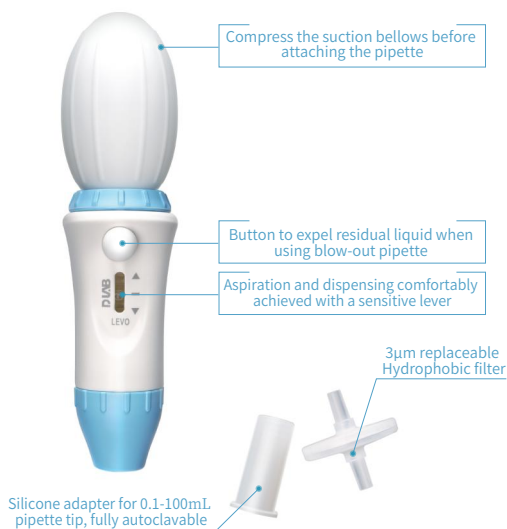
## Specifications

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

- Reduce hands-on time .
- Can realize the midway refill .
- Drip by drip drainage, precise control .
- Add the last drop of liquid discharge button
- Compatible with glass or plastic serological pipettes (0.1 - 100mL).
- 3µm replaceable hydrophobic filter.
- Fast suction, can absorb 25mL liquid in 4 secs.
- Humanized functional design, 118g ultra-light texture.
- Simple and sensitive liquid level regulation.
- Five color designs: blue, green, red, yellow, North Carolina blue, easy to distinguish between different applications.

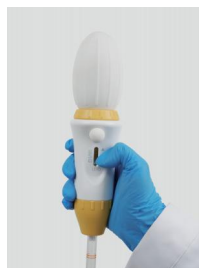
## Levo pipetting is easy and effortless :



**Manufacturing negative pressure:**  
Squeeze the ball to suck the liquid.



**Inhale:**  
The filling rate can be adjusted continuously with the help of the operating rod.



**Drainage:**  
Press the operating lever to drain the liquid. The unique valve system ensures that the accuracy of the instrument is not affected by the drainage speed.



**Blowout function:**  
When it is necessary to blow out the liquid, when the concave surface reaches the nozzle, press the blow out ball.

# Mini Pipette

Mini Pipette is specially customized for fast pipetting with fixed volume and it is the first choice for IVD assay kit accessory. Ultra-light body, precise pipetting, smooth aspiration and dispensing bring an easier pipetting experience to customers.

- Ergonomic design, compact body, with easy operation;
- Easy to press, consistent with standard manual pipettes in operating habits;
- Multiple optional volume from 10 to 300ul, marked with different colors;
- Compatible with the standard 200ul/300ul tips;
- Accurate pipetting and reliable quality;
- Support customization;



Standard style



New style

Color	Light Green	Grey	Dark Green	Yellow	Orange	Gray	Red	Blue	Grayish green	Other
Mini Pipette	10μL	20μL	25μL	30μL	50μL	60μL	75μL	100μL	200μL	OEM
Color	Dark Green	Orange	Red	Light Blue	Blue	Gray	Purple	Other	—	—
New Mini Pipette	25	50	75	80	100	200	300	OEM	—	—

## Levo E Pipette Pump

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.



## Features

- Volume capacity 2mL, 5mL, 10mL and 25mL
- Colour-coded by volume with Blue, yellow, green and red
- Thumb wheel guarantees precise operation
- Resistant to acids and alkalis
- Easy for cleaning and maintenance

# StepMate

## Stepper

Positive-displacement, continuously adjustable, repetitive dispenser



## Features

- Slim, light and robust
- Wide dispensing volume from 10μL to 5mL
- Up to 48 dispensing steps in succession
- Equipped with durable dispenser tip stop lever
- Fits different sizes of disposable polypropylene dispenser tips from 0.5mL to 50mL

## Applications

Ideal for any application requiring repetitive dispensing in the clinical, biological, chemical, food and beverage, pharmaceutical industry.

### How to select dispensing volume

Find the required dispensing volume in the table.

Use the volume selection dial to set the required volume.

Select and insert a suitable dispenser tip. Follow the maximum dispensing steps as stated.

## Precision Dispenser Tip

DLAB dispenser tips are convenient for viscous or foaming solutions, volatile liquids and applications where repetitive dispensing of volumes in long series is required

The dispenser tips are made from high quality materials without soft lubricants or other additives.

## Specifications

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

Dial setting		1	2	3	4	5			
Number of steps		48	23	15	11	8			
Cat. No.	dispenser tip volume	Dispensing volume per step					Systematic Error	Random Error	Description
	mL	μL					%	%	
17900032	0.50	10	20	30	40	50	± 0.8	≤ 0.7	0.5mL, piston PE-HD, cylinder PP, 1 packing, 5 pcs/packing
17900033	1.25	25	50	75	100	125	± 0.8	≤ 0.5	1.25mL, piston PE-HD, cylinder PP, 1 packing, 5 pcs/packing
17900034	2.50	50	100	150	200	250	± 0.8	≤ 0.4	2.5mL, piston PE-HD, cylinder PP, 1 packing, 5 pcs/packing
17900035	5.00	100	200	300	400	500	± 0.4	≤ 0.3	5mL, piston PE-HD, cylinder PP, 1 packing, 5 pcs/packing
17900036	12.50	250	500	750	1000	1250	± 0.3	≤ 0.3	12.5mL, piston PE-HD, cylinder PP, 1 packing, 5 pcs/packing
17900037	25.00	500	1000	1500	2000	2500	± 0.2	≤ 0.3	25mL, piston PE-HD, cylinder PP, 1 packing, 2pcs/packing with 1 pc adapter
17900038	50.00	1000	2000	3000	4000	5000	± 0.2	≤ 0.2	50mL, piston PE-HD, cylinder PP, 1 packing, 2pcs/packing with 1 pc adapter



# dTrite

## Electronic Burette

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

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

## Features

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



## Specifications

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

\* Notice: R: Relative error; CV: coefficient of variation.

# dFlow

## Electronic Bottle-Top Dispenser

Error-free, easy to use, motorized solution

## Features

- Motor controlled digital, fatigue free operation
- High quality stepper motor provides smooth and accurate dispensing
- Adjustable aspiration and dispensing speed
- Reagent recovery feature minimizes waste
- TFT display module for simple volume selection and control
- Two operation modes: continuous dispenser or stepper

## Applications

Ideal for safe, accurate and precise dispensing of bases, saline solutions, acids and some organic solvents.



## Specifications

Volume Range	0.1-99.9mL, Max piston lift is 10mL, resolution is 100μL
Volume Accuracy	Dispenser: R = 0.3%; CV = 0.1% Stepper: R = 0.6%; CV = 0.9%
Speed	16 Levels
Operating Temperature Range	10°C-30°C
Quality Control	DIN EN ISO 8655
Control Type	External control

\* Notice: R: Relative error; CV: coefficient of variation.





# DispensMate-Pro

## Premium Bottle-Top Dispenser

Designed for safe, sturdy & stable dispensing directly from the bottle in the range of volumes up to 100 mL

- ❶ Fast, precise, and reproducible volume locking mechanism on a clear scale
- ❷ Reagent recovery function reduces reagent waste and prevents dripping when not in use
- ❸ 6 adapters to comfortably fit most laboratory reagent bottles
- ❹ Adjustable aspirating tube for different bottle heights

## Features

- High chemical compatibility with use of inert materials and glass/PTFE piston
- Easy to disassemble and clean for periodic maintenance
- Fully autoclavable at 121°C to ensure sterility
- Available in 5 dispensing volume ranges from 0.5mL to 100mL
- Supplied with most popular adapters (S40, GL32, GL38, GL25, GL28)

## Specifications

Cat. No.	Volume Range	Graduation	Systematic Error		Random Error	
	mL	mL	$\mu$ L	%	$\mu$ L	%
7032212001	0.5-5	0.1	$\pm 25$	$\pm 0.5$	$\pm 10$	$\pm 0.2$
7032212002	1.0-10	0.2	$\pm 50$	$\pm 0.5$	$\pm 20$	$\pm 0.2$
7032212003	2.5-25	0.5	$\pm 125$	$\pm 0.5$	$\pm 50$	$\pm 0.2$
7032111004	5.0-50	1.0	$\pm 250$	$\pm 0.5$	$\pm 100$	$\pm 0.2$
7032111005	10-100	2.0	$\pm 500$	$\pm 0.5$	$\pm 200$	$\pm 0.2$

Cat. No.	17000817	17400132	17400133	17400134	17400135	17400037	17900158	17000802	17100735	17900236	17900237
Accessories	GL32, Adapter, 45/32mm	GL38, Adapter, 45/38mm	GL25, Adapter, 32/25mm	GL28, Adapter, 32/28mm	S40, Adapter, 45/40mm	Reagent Bottle (Brown, 1L)	Filling tube combination	Discharge tube(m) (adapter 25mL, 50mL, 100mL)	Discharge tube(m) (adapter 5mL, 10mL)	Discharge tube combination (adapter 25mL, 50mL, 100mL)	Discharge tube combination (adapter 5mL, 10mL)



# DispensMate

## Bottle-Top Dispenser

For safer and more efficient way to handle chemicals

## Features

- Excellent chemical resistance, Inert and high strength components made of PTFE, FEP, BSG, PP
- Fully autoclavable at 121°C (only liquid accessible parts)
- Available in 4 dispensing volume ranges from 0.5mL to 50mL
- Easy to disassemble and clean for periodic maintenance
- Supplied with most popular adapters (S40, GL32, GL38, GL25, GL28)

## Applications

DLAB bottle-top dispensers offer high precision and accuracy with ISO 8655 conformed calibration for use in areas such as pharmacology, biotechnology, healthcare, food and beverage, chemistry, environmental monitoring and academy&research.

- ① Easy-to-use volume adjustment
- ② Smooth piston design provides effortless dispensing experience
- ③ Easy-to-use closure cap protects user from exposure to reagent
- ④ Adapters to comfortably fit most laboratory reagent bottles

## Specifications

Cat. No.	Volume Range	Graduation	Systematic Error		Random Error	
	mL	mL	μL	%	μL	%
7032100101	0.5-5	0.1	±25	±0.5	±10	±0.2
7032100102	1.0-10	0.2	±50	±0.5	±20	±0.2
7032100103	2.5-25	0.5	±125	±0.5	±50	±0.2
7032100104	5.0-50	1.0	±250	±0.5	±100	±0.2



Cat. No.	17400131	17400132	17400133	17400134	17400135	17400037	17400021	17100073	17100553	17100696	17100767
Accessories	GL32, Adapter, 45/32mm	GL38, Adapter, 45/38mm	GL25, Adapter, 32/25mm	GL28, Adapter, 32/28mm	S40, Adapter, 45/40mm	Reagent Bottle (Brown, 1L)	Filling tube (m)	Discharge tube(m)	GL45, adapter, 45mm	Discharge tube combination (adapter 25mL, 50mL)	Discharge tube combination (adapter 5mL, 10mL)

# SafeVac

## Vacuum-Controlled Aspiration System

Safe and efficient system for labs handling critical or biological liquid waste.

### Features

- Compact, user-friendly design
- Level detection system prevents bottle overflow
- Control knob for vacuum setting
- The parts in contact with liquids are autoclavable
- Easy to disassemble and clean
- Ideal tool to avoid lab air contamination and protect personnel safety
- Adjustable vacuum level with indicator light is designed for various applications

### Applications

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. Best replacement for the common vacuum pump, for all kinds of waste liquid recovery, especially biological, chemical and radioactive liquids.

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

Stand for transferring the bottle securely and holding the hand operator

vacuum level indicator light

Sensitive level sensor to prevent liquid overflow



# Specifications

Wide range of adapters to fit well with different tubes, microplate and disk plate, 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).

Vacuum range	0-600mbar
Max. Flow	15L/min (air)
Max. aspiration speed	17mL/s ( Liquid )
Bottle	4L
Autoclave component	Tube;waste bottle;operation handle;
Noise Level	≤55dB
Input voltage	100-240VAC, 50/60Hz
Dimension[WxDxH]	180x240x450mm
Weight	3kg

A	8-channel tip detrusion adapter 200μL tip
B	8 channel needle Ø1.5mm
C	Single needle Ø2.5mm, 40mm
D	Single needle Ø2.5mm, 120mm
E	Single needle Ø1.5mm, 40mm
F	Single needle Ø1.5mm, 120mm
G	tip detrusion adapter 200μL tip
H	tip detrusion adapter 1mL tip
I	SafeVac Handle bracket
J	Handle Hoop (Vacuum Aspirator)



# EcoVac

## Economical Vacuum Aspirator

Small, compact and easy to use system for the convenient handling of liquid waste disposal.

Easy to switch between manual aspiration and two-level adjustable continuous aspiration:  
Level 1: Standard continuous aspiration mode.  
Level 2: Fast continuous aspiration mode enhanced

## Features

- Small and compact to fit in the cabinet, on the benchtop or even beneath the bench
- Easy to switch between manual aspiration and continuous aspiration mode, reducing RSI (Repetitive Strain Injury) and improving efficiency
- Collection bottle outlet with hydrophobic filter prevents aerosol and liquid contamination
- Brushless motor offers low noise and long life
- Different adapters are available to fit a multitude of laboratory supplies
- The parts in contact with liquids can be autoclaved
- Adjustable vacuum level with indicator light is designed for various applications

## Specifications

Vacuum range	0-500mbar
Max. Flow	15L/min(air)
Max. aspiration speed	17mL/s(Liquid)
Bottle	2L standard, 1L optional with adaptor
Motor type	Brushless Motor
Input voltage	100-220VAC, 50/60Hz
Dimension [W×D×H]	180×240×340 mm
Weight	2.8kg

Hanging handles on both sides

Vacuum level indicator light



## 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., and other applications such as RNA/DNA extraction, Western blots and ELISA.

- Aspiration of supernatants after centrifugation
- Aspiration of eluent
- Removal of supernatants during nucleic acid extraction
- Removal of culture media
- Removal of wash solutions from immuno-assay well-plate
- Removal of buffers of Western blot strips
- Removal of excess liquid from slides and Petri dishes



A	8-channel tip detrusion adapter 200μL tip
B	8 channel needle Ø1.5mm
C	Single needle Ø2.5mm, 40mm
D	Single needle Ø2.5mm, 120mm
E	Single needle Ø1.5mm, 40mm
F	Single needle Ø1.5mm, 120mm
G	tip detrusion adapter 200μL tip
H	tip detrusion adapter 1mL tip
I	1L bottle fitting
J	1L collection bottle
K	Handle Hoop (Vacuum Aspirator)



# Smart VAC

## Bench top compact vacuum aspirator

The 1L bench-top compact vacuum aspirator with replaceable battery is designed for flexible handling of small amounts of liquids, with one key control, easy operation and wide application.

### Features

- **Compact and portable, small foot print**  
Suitable for any bench top space including laminar flow cabinet. the collection bottle is independent of the vacuum source and power supply, and can be placed at any position.
- **One-key start to work with built-in rechargeable battery independent of exterior power supply**  
Continuous work for 5 hrs after fully charged.
- **Fast, safe and reliable**  
Aspiration speed up to 1.6 L/min;  
hydrophobic filters against contamination.
- **Dual function of aspiration and filtration**  
1L collection bottle in standard package, with 500mL collection bottle (autoclavable) and filtration flask optional.

### Specifications

Vacuum Range	0-600mbar
Aspiration speed	1.6 L/min(air)
Bottle	1L collection bottle in Standard package, 500mL bottle with an adaptor, or filtration flask optional
Adapter	1mL tip detrusion adapter, 8-channel tip detrusion adapter
Motor type	Brushless DC motor/ Brush motor
Power	DC 12V , 1.0A
Battery	Rechargeable lithium battery 2000mA/h
Noise Level	53dB
Dimension [WxDxH]	127 x 144 x 244mm
Weigh	0.5kg



- Removal of supernatant from pellets;
- Removal of culture media;
- Quick removal of spillage from the bench top;
- Vacuum Filtration





## Thermal Control

### Digital Dry Bath

The microprocessor controlled Digital Dry Baths offer control over both temperature and time, eliminating the need for an external thermometer or timer.

Used to thaw, boil, incubate and warm samples for different applications in molecular biology, assay preparation, tissue/cell culture, biochemistry, genetics, histology, clinical, environmental and industrial laboratories.



Dry bath provides precise temperature for various experiments. Thermo mix also has mixing function, and 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	Image	Function	Temp. Setting Range	Mixing speed	Blocks	Page
HB60-S		Heating	25°C, 30°C, 37°C, 45°C, 60°C	-	5mL×30+10mL×8	p.35
HB120-S/SC		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 PCR Microplate ELISA Microplate Bead/Water bath	p.35
HB105-S1/ S2		Heating	25°C-105°C	-	0.2mL×30 0.5mL×20 1.5mL×20 2mL×20 5mL×12 15mL×12 50mL×4 Bead/Water bath	p.35
HB150-S1/ S2		Heating	25°C-150°C	-		p.35
H100-Pro		Heating	25°C-100°C	-	0.5mL×24 1.5mL×24 2mL×24 5mL×8(Round/Cone Bottom) 15mL×8 50mL×4 0.2mL×96 PCR Microplate ELISA Microplate	p.36
HC110-Pro		Heating&Cooling	-5°C-110°C	-		p.40
HCM100-Pro		Heating&Cooling&Mixing	0°C-100°C	200-1500rpm		p.39
HM100-Pro		Heating&mixing	15°C-100°C	200-1500rpm		p.39
Mini H100		Heating	25°C-100°C	-	0.2mL×40 0.5mL×24 1.5mL×15 2mL×15 5mL×6 15mL×4 50mL×2	p.38
Mini HC100		Heating&Cooling	0°C-100°C	-		p.38
Mini HCL100		Heating&Cooling (with hot lid)	0°C-100°C	-		p.38

# DLAB Dry Bath Series

## HB105-S1/S2/HB150-S1/S2/HB120-S/SC/HB60-S/H100-Pro

Small footprint. Rapid & accurate temperature control. Overheating protection.  
Accommodates various types of tube holders to meet every lab need.



HB105-S1



HB105-S2



HB150-S1



HB150-S2



HB120-S/SC



HB60-S



MiniHCL100



H100-Pro

## Features

- Accurate and uniform temperature control
- Digital control and display of time and temperature
- Wide range of temperature control for different applications
- Monitor temperature in real-time, and set timer
- Wide range of heating blocks compatible with most popular lab tubes
- Overheating protection ensures sample and user safety
- Equipped with a lid for heat preservation, and preventing pollution
- User-friendly setting knob for easy and simple operation



## HB105-S1 HB105-S2 HB150-S1 HB150-S2

**Durable, reliable safe and convenient to use**

## Features

- Single and double heat block modules available
- Highest temperature up to 150 °C
- Buzzer alert when the time is up
- External temperature sensor PT1000



## HB120-S/SC/HB60-S

**Easy to use, safe and durable**

## Features

- Low profile - space saving design
- The max heating temperature is 120°C (HB120-S/HB120-SC), and the timer function support available
- Discrete heating temperature levels: 25 °C, 30 °C, 37 °C, 45 °C, 60 °C (HB60-S)
- 5mL×30+10mL×8 dual purpose heating block
- Temperature calibration function inbuilt for users (HB120-SC)



## H100-Pro

**Digitally accurate with exceptional temperature uniformity**

## Features

- Customizable user setting program with up to 6 sequential steps
- Temperature calibration function inbuilt for users
- Magnetic heat block mounting eliminating need of any tools
- Interchangeable sample blocks designed to provide versatility, easy cleaning and disinfecting
- Accurate temperature control of each heating block with lid to minimize the heat loss

## Applications

Suitable for clinical laboratories, for sample preparation, Enzyme-substrate reactions, biochemistry tests, serum coagulation tests and many other.



Specifications	H100-Pro	HB105-S1 HB105-S2	HB150-S1 HB150-S2	HB120-S/SC	HB60-S
Temperature range[°C]	Room temp+5-100	Room temp+5-105	Room temp+5-150	Room temp+5-120	Room temp+5-60
Temperature Setting range [°C]	0-100	25-105	25-150	15-120	5 gears:25, 30, 37,45,60
Temperature control accuracy[°C]	±0.5	25-90: ±0.3 90-105: ±0.6	25-90: ±0.3 90-150: ±0.6	±0.5	±0.5
Temperature uniformity@ 37°C[°C]	±0.5	±0.2	±0.2	±0.5	±0.3
Power [W]	200	HB105-S1:100 HB105-S2:200	HB150-S1:100 HB150-S2:200	170	160
Time setting range	0min-99h59min	0min~99h59min	0min~99h59min	0min-99h59min	0min-99h59min
External sensor	-	Yes	Yes	-	-
Display	TFT	LED	LED	LED	LED
Voltage,Frequency	110/220V,50/60HZ	110/220V,50/60HZ	110/220V,50/60HZ	110/220V,50/60HZ	110/220V,50/60HZ
External Dimension[WxDxH]	200x235X120	290x210X120	290x210X120	175X290X85	175X290X85
Weight (kg)	7.3	3.2	3.2	3	2.5
Operating temperature[°C]	10-40	10-40	10-40	10-40	10-40
Operating humidity[% RH]	<80	<80	<80	<80	<80



# Mini Dry Bath

## MiniHCL100/MiniHC100/MiniH100

Portable and option to power by automobile power adapter

## Features

- Mini, lightweight, safe with LCD display
- Digital control over both temperature and time
- Built-in user recalibration function guarantees long term temperature accuracy
- Overheating protection
- Optional cooling function
- Interchangeable blocks for a wide variety of test tube sizes
- Mini HCL100 with hot lid to prevent water condensing on the tube cap



## Applications

Useful for rapid and uniform heating of biological samples in applications like preservation, denaturation of nucleic acids and proteins, and many other applications.

Specifications	Mini HCL100	Mini HC100	Mini H100
Display	LCD	LCD	LCD
Temperature setting range[°C]	0-100	0-100	25-100
Temperature range [°C]	Room temperature-23~100	Room temperature-23~100	Room temperature+5~100
Temperature control accuracy[°C]	±0.5	±0.5	±0.5
Temperature display accuracy[°C]	0.1	0.1	0.1
Minimum time taken for heating(25°C+100°C)	≤20min	≤20min	≤20min
Minimum time for cooling(20°C-0°C)	≤25min	≤25min	-
Max. Heating Rate	8°C/min	8°C/min	6.5°C/min
Max. Cooling Rate	3°C/min	3°C/min	-
Time setting range	0-999min/0-999sec	0-999min/0-999sec	0-999min/0-999sec
Program Memory	9(2steps for each)	9(2steps for each)	9(2steps for each)
Temperature self-calibration	Support	Support	Support
Error code display	Support	Support	Support
Dimension[WxDxH]	110x162x140mm	110x162x140mm	110x162x140mm
Total Weight [kg]	≤1	≤1	≤1
Voltage,Frequency	100-240V, 50/60Hz or DC12V	100-240V, 50/60Hz or DC12V	100-240V, 50/60Hz or DC12V
Power [w]	60	60	60
Operating temperature[°C]	+10-40	+10-40	+10-40
Operating humidity [% RH]	≤80	≤80	≤80

# Thermo Mix

## HCM100-Pro/HM100-Pro

Thermo Mix series integrates precise and efficient heating & cooling and mixing function

DLAB HCM100-Pro-Heating/Cooling/Mixing

DLAB HCM100-Pro combines the excellent mixing and accurate temperature control, to make your work efficiently and productively

### Magnet adhesion technology

Quick interchange of blocks with magnet adhesion technology without any tools

### Program keys

Freely programmable  
Fast and simple access to the most frequently used temperature and time parameters  
Save up to 9 user defined programs

### Module compatibility

Flexible adapter selection, compatible with various tubes

### Intuitive display

LCD display for time, speed and temperature parameters

### Block self-recognition

The system can automatically identify the heating module to ensure the smooth completion of the experiment

### Add-ons

Three point temperature calibration for precise temperature control

### Temperature protection

Block equipped with a lid for heat preservation



## Features

- Fully programmable
- Precise temperature control for heating and cooling
- Real-time display of speed, temperature and time
- Excellent mixing (200-1500rpm)
- Quick interchange of blocks without tools and automatic block recognition
- Compatible with most popular tubes
- Block equipped with a lid for heat preservation
- Temperature self-calibration

## Applications

Precise and efficient heating/cooling and mixing is applicable for many applications such as Gene synthesis, gene purification, gene and protein denaturation, enzymatic reaction, bacterial growth, and others.

# Thermo Control

## HC110-Pro

heating and cooling with digital display



## Features

- Compact, programmable and overheating protection for safe sample handling
- Precise temperature control for heating and cooling -5°C to 110°C for all major lab applications
- Interchangeable sample blocks available
- Most common application includes reagent warming/cooling, DNA extractions, enzymatic reactions and reactions that need to be processed at or near room temperature.

## As low as -5°C

Precise temperature control for heating and cooling between -5°C-110°C.

Specifications	HCM100-Pro	HM100-Pro	HC110-Pro
Functions	Heating,cooling&mixing	Heating&mixing	Heating&cooling
Temperature range [°C]	Below room temp 15- 100	Room temp-100	Below room temp 25- 110
Temperature Setting range [°C]	0-100	0-100	-5-110
Temperature control accuracy@20-45 [°C]	±0.5	±0.5	±0.5
Temperature uniformity@20-45 [°C]	±0.5	±0.5	±0.5
Power [W]	200	200	200
Time setting range	0min-99h30min	0min-99h30min	0min-99h30min
Max Heating speed	5.5°C/min	5.5°C/min	5.5°C/min
Max Cooling speed	5°C/min (100°C-room temp) 0.5°C/min (below room temp)	-	2.5°C/min (100°C-room temp) 0.5°C/min (below room temp)
Mixing speed [rpm]	200-1500	200-1500	-
Mixing orbit [mm]	3	3	-
Display	TFT	TFT	TFT
Program	9	9	9
Overheating protection [°C]	150	150	150
Voltage,Frequency	110/220V, 50/60HZ	110/220V, 50/60HZ	110/220V, 50/60HZ
Dimension [mm]	200x235X120	200x235X120	200x235X120
Weight [kg]	7.3	7.3	7.3
Operating temperature [°C]	10-40	10-40	10-40
Operating humidity [% RH]	<80	<80	<80



# Blocks

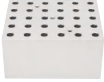

## H100-Pro/HC110-Pro/HCM100-Pro/HM100-Pro

Cat.No	Magnetic	18900401	18900402	18900403	18900404	18900405	
	Mechanical fixation	18900344	18900343	18900345	18900637	18900638	
Block types							
Capacity	0.5mL×24	1.5mL×24	2mL×24	5mL×8 round bottom	5mL×8 cone bottom		
Speed	1500rpm	1500rpm	1500rpm	1500rpm	1400rpm		
Diameter×depth	8.1×26mm	10.9×30.8mm	10.9×30.8mm	13.6×42mm	17×51.5mm		
Cat.No	Magnetic	18900874	18900406	18900407	18900420	18900423	18900746
	Mechanical fixation	—	18900241	18900242	18900349	18900350	—
Block types							
Capacity	1.5mL×24 Chromatography Vial	15mL×8	50mL×4	0.2mL×8 PCR strips or 0.2mL×96 PCR microplate	ELISA microplate	Deep well Plate	
Speed	1500rpm	800rpm	600rpm	1500rpm	1500rpm	—	
Diameter×depth	12×20.5mm	16.9×80mm	29.6×80mm	5.7×13.2mm	127×85mm	127×85×42mm	


## HB120-S/HB120-SC (Standard:151×95×50mm, Thin:151×95×36.5mm)

Cat.No	Standard	18900218	18900219	18900253	18900220	18900818	18900221
	Thin	18900274	18900275	18900276	18900277	18900877	—
Block types							
Capacity		0.2mL×54	0.5mL×40	1.5mL×40	2mL×40	2mL×60 Ampoules tubes	5/15mL×28
Diameter×depth		6.4×15mm	8.2×26.4mm	11×34.7mm	11×34.7mm	12×37mm	17×48mm
Cat.No	Standard	18900222	18900224	18900223	18900546	—	
	Thin	—	18900278	18900279	—	18900504	
Block types							
Capacity		50mL×8	0.2mL+0.5mL +1.5/2mL 18+18+18	microplate	5mL blood collection tubex45	0.2mL×8 PCR strips or 0.2mL×96 PCR microplate	
Diameter×depth		29.8×48mm	Each capacity	127×85mm	13.5×48mm	5.7×13.2mm	
Capacity	Cat. No.18900523						
Two-in-one block, bead bath/water bath Adapt to S2							
							
Capacity	Cat. No.18900520						
Aluminum beads							
							





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

Cat.No	18900459	18900460	18900461	18900462	18900463
Block types					
Capacity	0.2mL×30	0.5mL×20	1.5mL×20	2mL×20	5mL×12
Diameter×depth	6.4×15mm	7.85×28.4mm	11×34.7mm	11×34.7mm	16.6×46mm




  

Cat.No	18900464	18900465	18900522	18900523	18900520
Block types					
Capacity	15mL×12	50mL×4	Dual purpose block,bead bath/water bath Adapt to S1	Dual purpose block,bead bath/water bath Adapt to S2	Aluminum beads
Diameter×depth	16.6×73mm	29.2×73.5mm	95×76×56mm	151×95×62mm	—

## Mini HCL100/Mini HC100/Mini H100

Cat.No	18900414	18900415	18900416	18900428
Block types				
Capacity	0.2mL×40	0.5mL×24	1.5mL×15	2mL×15
Diameter×depth	6.4×20 mm	8.2×28.4mm	11.2×31mm	11×31mm

Cat.No	18900417	18900426	18900427
Block types			
Capacity	5mL×6	15mL×4	50mL×2
Diameter×depth	17×31mm	16.4×45mm	29×45mm

# TC1000-G/TC1000-G-Pro

## Thermal Cycler Gradient

# TC1000-S

## Thermal Cycler Standard

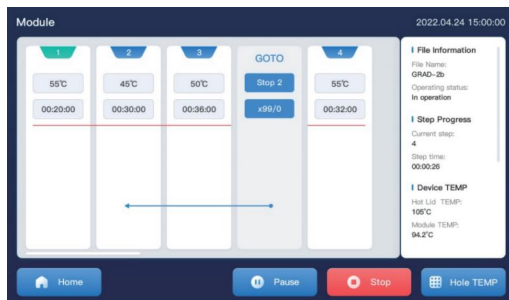
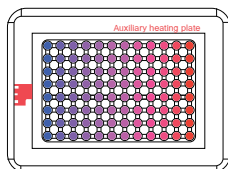
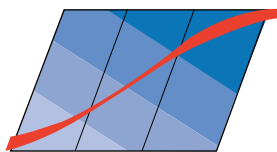
Elegant in design, precise and accurate, with high repeatability, specifically designed for PCR optimization, the TC1000-G/S/Pro Thermal Cycler supports Touchdown PCR and Long PCR experiments. It features advanced gradient temperature control technology and high-performance, durable Peltier heating and cooling, allowing for precise temperature control in different zones. Its edge temperature compensation technology ensures outstanding temperature uniformity. Through gradient settings, experimental conditions can be easily optimized. The TC1000-G/S/Pro gene amplifier is a fundamental instrument in molecular laboratories, widely used in gene detection, molecular cloning, gene expression, mutagenesis, and other tasks, involving fields such as drug discovery, agriculture, and the food industry.



Excellent temperature uniformity



Temperature gradient

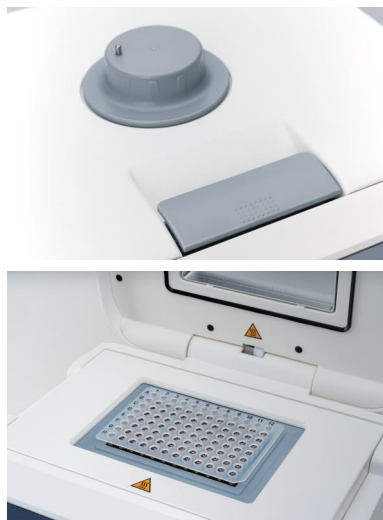


## Features

- Featuring a brand-new UI user interface, the graphical menu is simple and easy to use, with a color touch panel that makes it easier for users to edit programs.
- It includes an automatic power-off protection feature that automatically completes unfinished cycles upon power restoration, ensuring the amplification process runs safely.
- The system supports Touchdown PCR (-9.9°C to +9.9°C) and Long PCR (-9min 59s to +9min 59s) experiments.
- The hot lid temperature and working mode can be set to meet various experimental needs, with the hot lid function automatically turning off when the heating module's temperature is below 30°C.
- A one-touch quick incubation feature is available to meet the needs of denaturation, enzyme digestion/ligation, ELISA, and other experiments.

## Additional Features of the TC1000-G-Pro:

- Compatible with common PCR tubes, 8-strip tubes, and 96-well PCR plates with no skirt, half-skirt, and full-skirt.
- Real-time display of program progress and remaining time, with the option to set user security accounts and passwords according to different customer needs.
- Built-in WIFI module allows for connection to a computer via a local area network (LAN), enabling simultaneous control of multiple PCR instruments.
- USB interface supports saving and retrieving PCR data via USB drive, software updates through USB and LAN, and customization of programs to meet the storage needs for multiple files.



LCD touch panel



Excellent temperature accuracy

Technical Parameters	TC1000-S	TC1000-G	TC1000-G-Pro
Sample Capacity	96×0.2mL PCR tube 12×0.2mL PCR-8 strips 0.2mL 96 PCR Microplate		
Heating Temperature Range /°C	4-105	4-105	0-105
Lid Temperature Range /°C	30-110	30-110	30-115
Temperature Display Accuracy /°C	±0.1	±0.1	±0.1
Temperature Display Accuracy@55°C	±0.3	±0.3	±0.1
Temperature uniformity@55°C	<0.3	<0.3	±0.2
Max. Heating/Cooling Rate	5°C/Sec	5°C/Sec	5°C/Sec
Gradient Temperature Setting Range /°C	-	30-99	30-105
Gradient Range /°C	-	1-42	1-42, enter 0 to turn off the gradient.
Temperature control method	Block/Tube	Block/Tube	Block/Tube
Adapter block material	Aluminum	Aluminum	Aluminum
Display	7" LCD 800×480	7" LCD 800×480	7" LCD 1024×600
Input	Touch panel	Touch panel	Touch panel
Computer host system	-	-	Yes
Communication interface	-	-	USB、WIFI
User defined file system	Max.30 segments 99 cycles, and storage for over 200 files		20000+ (USB FLASH)
Power off protection	Yes	Yes	Yes
Voltage,Frequency	100~120V /200~240V,50/60HZ		
Dimension[WxDxH]	280×370×250mm		
Weight	11Kg		9.5Kg













**Stirring&Heating**

Magnetic hotplate stirrers are used for low viscosity liquids or solid mixing, 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	Image	Stirring Position	Display	Work plate Size	Max. Heating Temp.	Max. stirring quantity(L):Øl	Page
<b>550 series</b>	MS7-H550-Pro		1	LCD	184x184mm	550°C	20L	p.52
	MS7-H550-S		1	LED	184x184mm	550°C	10L	p.52
<b>500series</b>	MS10-H500-Pro		1	LCD	254X254mm	500°C	30L	p.51
<b>340 series</b>	MS-H-ProM		1	LCD	Ø135mm	340°C	20L	p.54
	MS-H-Pro <sup>A</sup>		1	LCD	Ø135mm	340°C	20L	p.56
	MS-H-Pro <sup>r</sup>		1	LCD	Ø135mm	340°C	20L	p.56
	MS-H-Pro <sup>f</sup>		1	LCD	Ø135mm	340°C	20L	p.56
	MS-H-S		1	Scale	Ø135mm	340°C	20L	p.56
	MS-H340-S4		4	LCD	Ø135mm	340°C	10Lx4	p.62
<b>380 series</b>	MS-H380-Pro		1	LCD	140x140mm	380°C	5L	p.57
<b>280 series</b>	MS-H280-B100		1	LED	100mL Beaker	280°C	100mL	p.59
	MS-H280-B250		1	LCD	25mL Beaker	280°C	250mL	p.59




**Magnetic Hotplate Stirrers:**

Series	Model	Image	Stirring Position	Display	Work plate Size	Max. Heating Temp.	Max. stirring quantity(H <sub>2</sub> O)	Page
280 series	MS-H280-B500		1	LCD	500mL Beaker	280°C	500mL	p.59
	MS-H280-B1000		1	LCD	1000mL Beaker	280°C	1000mL	p.59
	MS-H280-F100		1	LCD	100mL Flask	280°C	100mL	p.59
	MS-H280-F250		1	LCD	250mL Flask	280°C	250mL	p.59
	MS-H280-F500		1	LCD	500mL Flask	280°C	500mL	p.59
	MS-H280-F1000		1	LCD	1000mL Flask	280°C	1000mL	p.59
	MS-H280-Pro		1	LED	Ø135mm	280°C	3L	p.57
	MS-H280-S4		4	LCD	Ø134mm	280°C	3Lx4	p.63
	MS-H280-S6		6	LCD	Ø134mm	280°C	3Lx6	p.63
120 series	MS-H-S10		10	Scale	180x450mm	120°C	0.4Lx10	p.66

**Magnetic Stirrers:**

Image	Model	Stirring Position	Display	Work plate Size	Max. stirring quantity (H <sub>2</sub> O)	Page
	MS7-S	1	Scale	184x184mm	10L	p.70
	MS6-Pro	1	LCD	140x140mm	5L	p.70
	MS-S	1	Scale	Ø135mm	20L	p.70
	MS-PA	1	LED	Ø135mm	3L	p.71
	MS-PB	1	Scale	Ø135mm	3L	p.71
	EcoStir	1	Scale	120x115mm	1.5L	p.75
		1	Scale	Ø120mm	1.5L	p.74
	FlatSpin	1	-	Ø90mm	0.8L	p.74
	MS-M-S4	4	LCD	Ø134	3LX4	p.64
	MS-M-S6	6	LCD	Ø134	3LX6	p.64
	MS-T-S15	15	LCD	460x304mm	0.4LX15	p.72
	MS-M-S10	10	Scale	180x450mm	0.4Lx10	p.73

**Hotplate:**

Image	Model	Display	Work plate Size	Max. Heating Temp.	Page
	HP500-Pro	LCD	254x254mm	500°C	p.67
	HP550-S	LED	184x184mm	550°C	p.68
	HP380-Pro	LCD	140x140mm	380°C	p.69





### Application guidance:

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

Fields		MS10-H500-Pro MS7-H550-S/ HP500-pro HP550-S	MS-H-Pro <sup>4</sup> / MS-H-Pro <sup>1</sup> / MS-H-Pro <sup>2</sup> / MS-H-S/ MS-H340-S	MS-H380-Pro/ HP380-Pro	MS-H280-Pro	MS-H-S10	Magnetic Stirrers (none heating models)
Pharmaceutical	Chemical Synthesis	■	■				
	Biochemical Drugs	■	■				
	Medicine Testing	■	■				
	Drug Formulation	■	■				
Chemical Industry	Petrochemical Industry	■	■				
	Inorganic Chemical Synthesis	■	■				
	Organic Chemical Synthesis	■	■				
	Daily Use Chemical Industry	■	■				
	Painting/Rubber/Plastic	■	■				
	Fertilizer/Pesticide	■	■				
Environmental	Water Quality Analysis				■	■	■
	Pesticide Residue Testing				■	■	■
	Chemical Pollution Analysis				■	■	■
Research & Education	Basic Chemical Experiments	■	■		■	■	■
	Material Analysis			■	■	■	■
	Liquid Mixing			■	■	■	■
	Chemical Synthesis	■	■				
Food Industry	Food Additive	■	■	■	■		
	Dairy Products	■	■	■	■		
	Nutrition Analysis	■	■	■	■		
Biological Engineering	Cell Culture						
	Biological Reagents		■	■	■	■	
	Biochemistry		■	■	■	■	

**Homogenizer series**

Image	Model	Speed Range	speed levels	Working volume	Max. viscosity	Page
	D-160	8000-32000rpm	10stage	0.1-250mL	5000Pas	P.81
	D-500	10000-30000rpm	6stage	10-40000mL	10000Pas	P.82

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:**

Image	Models	Max. Stirring Quantity(L):20L	Constant Speed	Display	Speed Range	Max. Torque	Viscosity Max.	Page
	OS20-Pro	20L	YES	LCD	50-2200rpm	40N · cm	10000mPa · s	P.85
	OS20-S	20L	NO	LED	50-2200rpm	40N · cm	10000mPa · s	P.86
	OS40-Pro	40L	YES	LCD	50-2200rpm	60N · cm	50000mPa · s	P.85
	OS40-S	40L	NO	LED	50-2200rpm	60N · cm	50000mPa · s	P.86
	OS70-Pro	70L	YES	LCD	50-1100rpm	300N · cm	100000mPa · s	P.85

## MS10-H500-Pro

**LCD Digital Magnetic Hotplate Stirrer  
With 10 Inch Ceramic Plate**



## Features

- Large volume: Up to 30L of liquid on 10-inch hot plate with powerful magnetic stirring
- Glass ceramic work plate provides excellent chemical resistant performance and most efficient heat transfer
- LCD display for precise monitoring of speed and temperature. External temperature control is possible by connecting the temperature sensor (PT1000) with an accuracy at  $\pm 0.2^{\circ}\text{C}$
- Digital speed control of 100 ~ 1500rpm
- Max. heating plate temperature  $500^{\circ}\text{C}$
- The “HOT” warning will flash when the work plate temperature is above  $50^{\circ}\text{C}$  even when the hotplate is turned off
- Data connector: The SD card records the instrument's running data in real time.
- Timing function: the running time of the instrument can be set.

## MS7-H550-Pro

**LCD Digital Magnetic Hotplate Stirrer  
With 7 Inch Ceramic Plate**

## MS7-H550-S

**LED Magnetic Hotplate Stirrer  
With 7 Inch Ceramic Plate**



## Features

- LCD displays actual temperature & speed
- Built-in PID controller ensures safe heating of the medium with overheating protection
- Maximum heating plate temperature up to 550°C
- Glass ceramic work plate is resistant to corrosion and is easy to clean
- External temperature control is possible by connecting temperature sensor(PT1000) with an accuracy of  $\pm 0.2^{\circ}\text{C}$
- Digital speed control with maximum range of 1500rpm
- Outstanding brushless DC motor offers more stirring power
- Two knobs enable easy adjustment of speed and temperature
- "HOT" warning flashes when work plate temperature is above 50°C even when hotplate is turned off
- Remote function provides PC control and data transmission



Specifications	MS10-H500-Pro	MS7-H550-Pro	MS7-H550-S
Work plate Dimension [W x D]	254x254mm (10 inch)	184x184mm (7 inch)	184x184mm (7 inch)
Work plate material	Glass ceramic	Glass ceramic	Glass ceramic
Motor type	Brushless DC motor	Brushless DC motor	Shaded pole motor
Stirring positions	1	1	1
Max. stirring quantity, [H <sub>2</sub> O]	30L	20L	10L
Max. magnetic bar[length]	80mm	80mm	80mm
Speed range	100-1500rpm, resolution $\pm 1$ rpm	100-1500rpm, resolution $\pm 1$ rpm	0-1500rpm
Speed display	LCD	LCD	Scale
Temperature display	LCD	LCD	LED
Heating temperature range	Room Temp.-500°C, increment 1°C	Room Temp.-550°C, increment 1°C	Room Temp.-550°C, increment 5°C
Temperature control accuracy	$\pm 1^\circ\text{C}(<100^\circ\text{C}) \pm 1\%(>100^\circ\text{C})$	$\pm 1^\circ\text{C}(<100^\circ\text{C}) \pm 1\%(>100^\circ\text{C})$	$\pm 10^\circ\text{C}$
Overheating protection	540°C	580°C	580°C
Temperature display accuracy	$\pm 0.1^\circ\text{C}$	$\pm 0.1^\circ\text{C}$	$\pm 1^\circ\text{C}$
External temperature sensor	PT1000(accuracy $\pm 0.2^\circ\text{C}$ )	PT1000(accuracy $\pm 0.2^\circ\text{C}$ )	PT1000(accuracy $\pm 0.2^\circ\text{C}$ )
"Hot" warning	50°C	50°C	50°C
Data connector	SD card	RS232	-
Protection class	IP20	IP21	IP21
Motor rating output	10W	10W	1.5W
Power	1700W	1050W	1030W
Heating output	1500W	1000W	1000W
Voltage,Frequency	100-120/200-240V, 50/60Hz	100-120/200-240V, 50/60Hz	100-120/200-240V, 50/60Hz
Dimension [WxDxH]	328x424x138mm	215x360x112mm	215x360x112mm
Weight	7.2kg	5.3kg	4.5kg
Timer function	1min-99h59min	-	-
Permissible ambient temperature and humidity	5-40°C,80%RH	5-40°C,80%RH	5-40°C,80%RH



Overheating protection



External sensor



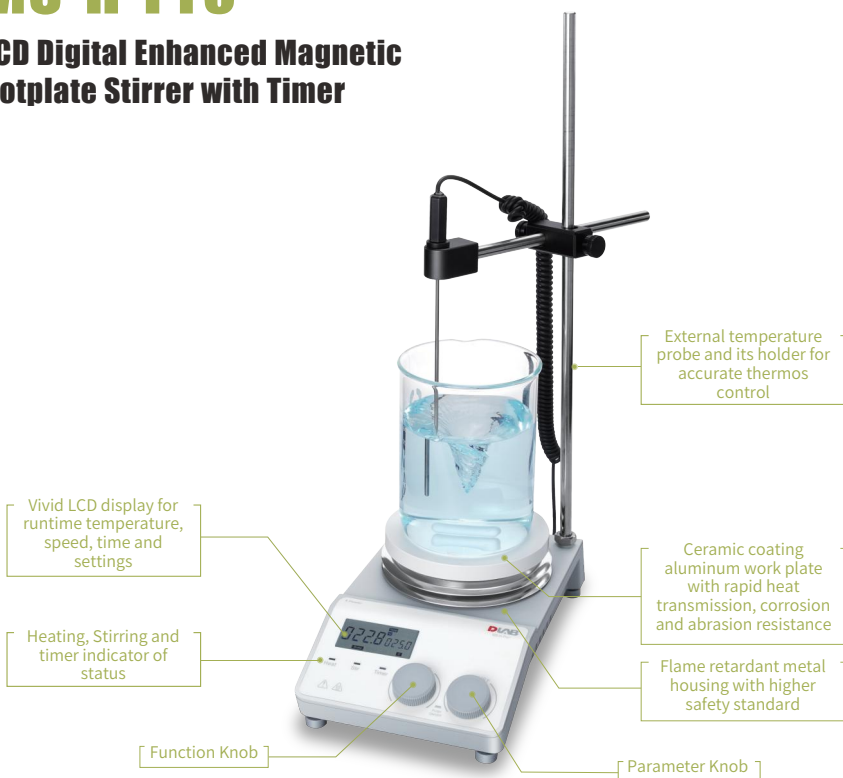
Chemical resistance



Wide range of accessories

# MS-H-Pro<sup>M</sup>

## LCD Digital Enhanced Magnetic Hotplate Stirrer with Timer



## Features

- Enhanced magnets and powerful motors for outstanding performance in the stirring of viscous liquid.
- Smooth acceleration and deceleration for stable running without spillage
- Timer control from 1 minute to 99 hours and 59 minutes. When the time countdown completes, it will keep stirring but turn off heating to keep the sample safe from heat damage.
- Three heating modes for different demands: A) Fast heating; B) Standard heating; C) Steady heating.
- “HOT” warning flashes on the LCD display if the work plate temperature is above 50 °C after the user turn off the power switch.
- Two independent safety circuits keep monitoring the instrument. When overheating is detected and the sensor malfunctions, it will stop heating and sound alarm; When short circuit is detected, it will cut off the power to ensure the human safety.
- Can be connected to PC with remote control.



Specifications	MS-H-Pro <sup>M</sup>
Work plate dimension	Ø135mm (5 inch)
Work plate material	Aluminum with ceramic coating
Motor type	Brushless DC motor
Stirring positions	1
Max. stirring quantity (H <sub>2</sub> O)	20L
Max. magnetic bar [length]	80mm
Motor rating output	15W
Speed range	100-1500rpm
Speed display	LCD
Temperature display	LCD
Heating temperature range	Room temperature ~ 340°C, increment 1°C
Temperature control accuracy	±1°C(<100°C), ±1%(>100°C)
Overheating protection	420°C
Temperature display resolution	0.1°C
External temperature sensor	PT1000 (accuracy±0.2°C)
"Hot" warning	50°C
Data connection	RS232
IP protection class	IP21
Timer range	1min~99h59min
Motor rating output	10W
Total power	720W
Heating power	600W
Voltage, Frequency	100~120/200~240V, 50/60Hz
Dimensions (WxDxH)	160x280x100mm
Weight	2.8kg
Permissible ambient temperature and humidity	5~40°C, 80% RH

## MS-H-PRO<sup>A</sup>

### LCD Digital Magnetic Hotplate Stirrer

Three heating models for selecting  
(fast heating, standard heating and stable heating)

## MS-H-PRO<sup>+</sup>

### LCD Digital Magnetic Hotplate Stirrer

## MS-H-Pro<sup>T</sup>

### LCD Digital Magnetic Hotplate Stirrer with Timer

## MS-H-S

### Analog Magnetic Hotplate stirrer



## Features

- Brushless DC motor is maintenance free and explosion-proof
- Digital temperature control up to 340°C
- Digital speed control up to 1500rpm
- Maximum stirring quantity of H<sub>2</sub>O is 20L
- Safety circuits provide overheating protection
- "HOT" warning flashes if plate temperature is above 50°C even when hotplate is turned off
- Wide range timer function from 1 min to 99h 59min (MS-H-Pro<sup>T</sup> only)
- High-resolution LCD display shows actual temperatures and speed (MS-H-Pro<sup>T</sup> displays the time)
- External temperature control is possible by connecting the temperature sensor (PT 1000) with accuracy at  $\pm 0.2^\circ\text{C}$
- Work plate with ceramic coating provides good chemical-resistant performance
- Remote function provides PC control and data transmission
- Wide variety of accessories available to choose

## Security

- International safety certification: CE, CTÜVus, FCC and other product safety cert, certifications issued by TUV Rheinland
- Safety circuits provide overheating protection
- "HOT" warning flashes if the work plate temperature is above 50°C
- DC brushless motor free of maintenance and spark, and with long service life
- Fully enclosed aluminum alloy housing with good heat dissipation performance and reliable protection capability



External sensor



RS232 connector



Wide range of accessories



Chemical resistance



Brushless DC motor



# MS-H380-Pro

## LCD Digital Magnetic Hotplate Stirrer

### Features

- Maximum heating temperature is 380°C
- High resolution LCD displays actual temperature and speed
- Brushless DC motor is maintenance free
- Aluminum ceramic coating work plate, allowing immediate heat transfer
- External temperature control is possible with temperature sensor PT1000
- Digital speed control with maximum speed up to 1500rpm
- Maximum stirring quantity of H<sub>2</sub>O at 5L



# MS-H280-Pro

## LED Digital Magnetic Hotplate Stirrer

DLAB MS-H280-Pro is a perfect hotplate stirrer for handling small volume task and daily applications, with maximum temperature of 280°C

### Features

- Digital temperature control with maximum temperature up to 280°C
- Digital speed control with maximum speed up to 1500rpm
- Stainless steel with ceramic coating work plate provides high chemical resistant performance
- External temperature control is possible by connecting temperature sensor(PT1000) with an accuracy at  $\pm 0.2^{\circ}\text{C}$
- LED display shows temperature and stirring speed
- "HOT" warning flashes if work plate temperature is above 50°C

Specifications	MS-H-Pro <sup>A</sup>	MS-H-PRO <sup>+</sup>	MS-H-PRO <sup>T</sup>	MS-H-S	MS-H380-Pro	MS-H280-Pro
Work plate Dimension [W x D]	Ø135mm (5 inch)	Ø135mm (5 inch)	Ø135mm (5 inch)	Ø135mm (5 inch)	140x140mm	Ø135mm (5 inch)
Work plate material	Aluminum cover with ceramic coating	stainless steel cover with ceramic coating	stainless steel cover with ceramic coating	stainless steel cover with ceramic coating	Aluminum cover with ceramic coating	stainless steel cover with ceramic coating
Motor type	Brushless DC motor	Brushless DC motor	Brushless DC motor	Brushless DC motor	Brushless DC motor	Brushless DC motor
Stirring positions	1	1	1	1	1	1
Max. stirring quantity, [H <sub>2</sub> O]	20L	20L	20L	20L	5L	3L
Max. magnetic bar [length]	80mm	80mm	80mm	80mm	50mm	50mm
Speed range	100-1500rpm resolution ±1rpm	100-1500rpm resolution ±1rpm	100-1500rpm resolution ±1rpm	0-1500rpm	200-1500rpm	200-1500rpm
Speed display	LCD	LCD	LCD	Scale	LCD	LED
Temperature display	LCD	LCD	LCD	Scale	LCD	LED
Heating temperature range	Room temp.-340°C, increment 1°C	Room Temp.-340°C, increment 1°C	Room Temp.-340°C, increment 1°C	Room Temp.-340°C	Room Temp-380°C	Room Temp-280°C
Heating liquid temperature control accuracy	±1°C(<100°C) ±1%(>100°C)	±1°C(<100°C) ±1%(>100°C)	±1°C(<100°C) ±1%(>100°C)	-	±1°C(<100°C) ±1%(>100°C)	±1°C (<100°C) ±1% (>100°C)
Overheating temperature protection	420°C	420°C	420°C	420°C	420°C	320°C
Temperature display accuracy	±0.1°C	±0.1°C	±0.1°C	-	±0.1°C	±1°C
External temperature sensor	PT1000 (accuracy ±0.2°C)	PT1000 (accuracy ±0.2°C)	PT1000 (accuracy ±0.2°C)	-	PT1000 (accuracy ±0.2°C)	PT1000 (accuracy ±0.2°C)
"Hot" warning	50°C	50°C	50°C	-	-	50°C
Data connector	RS232	RS232	RS232	-	-	-
Protection class	IP21	IP21	IP21	IP21	IP21	IP42
Timer function	1min to 99h59min	-	1min to 99h59min	-	-	-
Motor rating output	10W	10W	10W	10W	1.8W	3W
Power	720W	550W	550W	530W	510W	515W
Heating output	600W	500W	500W	500W	500W	500W
Voltage,Frequency	100-120/200-240V, 50/60Hz	100-120/200-240V, 50/60Hz	100-120/200-240V, 50/60Hz	100-120/200-240V, 50/60Hz	100-120/200-240V, 50/60Hz	100-120/200-240V, 50/60Hz
Dimension [WxDxH]	280x160x100mm	160x280x100mm	160x280x100mm	160x280x100mm	320x180x108mm	150x260x100mm
Weight	2.8kg	2.8kg	2.8kg	2.8kg	2.2kg	1.8kg
Permissible ambient temperature and humidity	5-40°C,80%RH	5-40°C,80%RH	5-40°C,80%RH	5-40°C,80%RH	5-40°C,80%RH	5-40°C,80%RH



# MS-H280-B100/250/500/1000& MS-H280-F100/250/500/1000

## LCD Digital Magnetic Stirrer with Electric Heating Mantle



Heating Mantle model	HB100	HB250	HB500	HB1000	HF100	HF250	HF500	HF1000
Picture								
Specification	Beaker	Beaker	Beaker	Beaker	Flask	Flask	Flask	Flask
Capacity	100mL	250mL	500mL	1000mL	100mL	250mL	500mL	1000mL
Heating Mantle Inner Diameter	54.75mm	72.75mm	89.75mm	118.75mm	72.75mm	89.75mm	118.75mm	144.75mm

## Advantages

- The smart magnetic stirrer can be flexibly set up with inter-changeable heating sleeves for 100mL, 250mL, 500mL, 1000mL round-bottom flask, or 100mL, 250mL, 500mL, 1000mL flat bottom beakers.
- Even more flexible configurations: as one heating magnetic stirrer, or as one heating sleeve plus one magnetic stirrer.
- Temperature self calibration function for higher temperature accuracy.
- Heating sleeve made of high-quality Aluminum silicate fiber cotton with accurate temperature control, uniform heating and corrosion resistance.
- Strengthened magnetic fields with enhanced stirring power.
- Fireproof metal outcast with higher safety level.
- Explosion-proof DC brushless motor free of maintenance and spark, and with long service life.
- The “HOT” warning will flash if the work plate temperature is above 50°C even when the hotplate is turned off, as long as the power cable is connected.
- Two independent safety circuits are designed to continuously monitor the equipment. When the sensor malfunctions and overheating occurs, an error code will be generated and the stirrer will stop heating. When the first safety circuit is shorted, the second safety circuit will cut off the power supply to ensure the safety of the operator

## Applications

Magnetic stirrer with heating sleeve is a very popular product for laboratories in scientific research, industry and mining, food processing, biochemistry, agriculture, petrochemical, pharmaceutical, and educational aspect. It is used for heating and incubation of liquids at a certain temperature. It provides fast and uniform heating with highly precise temperature control and strong stirring power. It can serve as a magnetic stirrer with heating sleeve, or as a magnetic stirrer and a heating sleeve .



# Specification

Model number	MS-H280-B100/250/500/1000	MS-H280-F100/250/500/1000
Motor type	Brushless DC motor	Brushless DC motor
Speed range [rpm]	200-1500rpm	200-1500rpm
Speed control accuracy [rpm]	±20rpm	±20rpm
Speed display	LCD	LCD
Temperature display	LCD	LCD
Temperature control range [°C]	25-280°C	25-280°C
“Hot” warning	50°C	50°C
Overheat protection [°C]	420°C	420°C
Temperature display accuracy [°C]	±0.1°C	±0.1°C
Heating liquid temperature control accuracy	±1°C(<100°C), ±1%(>100°C)	±1°C(<100°C), ±1%(>100°C)
External temperature sensor	PT1000 (accuracy ±0.2°C)	PT1000 (accuracy ±0.2°C)
Protection class	IP21	IP21
Motor output power [W]	1.8W	1.8W
Heating power [W]	210W/240W/380/440W	210W/240W/380/440W
Voltage, Frequency	100-120V,60Hz;200-240V,50Hz	100-120V,60Hz;200-240V,50Hz
Dimension [WxDxH]	295X160X160mm	295X160X160mm
Weight	3.7Kg	3.7Kg
Permissible ambient temperature	5-40°C	5-40°C
Permissible ambient humidity	80%	80%
Compatible containers	100mL、250mL、500mL、 1000mL flat bottom beakers	100mL、250mL、500mL、 1000mL round bottom flasks





# MS-H340-S4

## LCD 4-Channel Digital Magnetic Hotplate Stirrer



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

## Features

- Independent heating and stirring control for each position
- LCD display shows real-time temperature and speed
- PID controller ensures a precise and stable heating process (maximum temperature up to 340°C)
- Brushless DC motor is quiet, reliable & maintenance free, and provides more powerful speed control
- External temperature sensor (PT1000) with accuracy 0.2°C
- Overheating protection temperature at 420°C
- Stainless steel work plate with ceramic coating provides good chemical resistance
- Wide variety of accessories available to choose from

Specifications	MS-H340-S4
Work plate dimension	Ø135mm(5inch) x4
Plate material	Stainless steel with ceramic coating
Motor type	Brushless DC motor
Stirring positions	4
Max. stirring quantity of single position (H <sub>2</sub> O)	10L x 4
Max. magnetic bar	40mm
Speed range	200-1500rpm
Speed display	LCD
Temperature display	LCD
Control accuracy of sensor	±20rpm
Temperature range	25-340°C
Over temperature protection	420°C
Temperature display accuracy	±0.1°C
External temperature sensor	PT1000( accuracy±0.2°C )
IP Protection class	IP20
Motor output power	1.8Wx4
Power	515Wx4
Heating Power	500Wx4
Voltage,Frequency	100-120V,60Hz; 200-240V,50 Hz
Dimensions[WxDxH]	698x270x128mm
Weight	9.5kg
Permissible ambient temperature	5~40°C
Permissible relative humidity	80%RH

# MS-H280-S4/ MS-M-S4/ MS-H280-S6/ MS-M-S6

## 4/6 Channel LCD Digital Hotplate Magnetic Stirrer



## Features

- 4/6 channels with independently control of start/stop, temperature, speed and display for better parallel experiment control.
- Ceramic coating aluminum work plate with fast heat transmission and strong resistance to corrosion.
- Powerful, rapid heating with accurate PID temperature control
- Spark-free DC brushless motor with extended life and no maintenance
- Compatible with various heating block or reaction vessels for a variety of application scenario
- Ultra space-saving with 4/6 channel integrated in one instrument
- “HOT” warning flashes on the LCD display if the work plate temperature is above 50°C after the user turn off the power switch.
- Two independent safety circuits keep monitoring the instrument. When overheating is detected and the sensor malfunctions, it will stop heating and sound alarm; When short circuit is detected, it will cut off the power to ensure the human safety.
- Reliable safety mechanism, compliant to IEC61010-1\UL61010-1\BSEN61010-1\CAN\CSA-C22.2NO.61010-1 and all other safety regulations of laboratory heating devices, competent with tasks without human surveillance.

## Applications

The 4/6 channel hotplate magnetic stirrers are designed for parallel experiment and multiple parameter optimization, thus can serve as handy tools for Kjeldahl nitrogen determination, Soxhlet extraction and parallel synthesis, etc. They are ideal choices for test laboratories in food, animal feed, textile, soil, sewage, water treatment, pharmaceutical, polymerization, petroleum products, resin and plastic sectors. The user can handle 4 or 6 tests at the same time with stable performance, good reproducibility, high accuracy and easy operation.



**MS-H280-S4**



**MS-H280-S6**



**MS-M-S4**



**MS-M-S6**

The design of 4/6 channel hotplate magnetic stirrers aim to turn your laboratory into a space-saving, safe, highly efficient, tidy and neat benchmark among peers. They are well recognized by higher education, pharmaceutical manufacturer, biotech company, research institute and food manufacturer as an eco-friendly magnetic stirrer for synthesis.



Specifications	MS-H280-S4	MS-M-S4	MS-H280-S6	MS-M-S6
Work plate dimension	Ø134mm	Ø134mm	Ø134mm	Ø134mm
Work plate material	Aluminum with ceramic coating	Aluminum with ceramic coating	Aluminum with ceramic coating	Aluminum with ceramic coating
Motor type	Brushless DC motor	Brushless DC motor	Brushless DC motor	Brushless DC motor
Motor rating output	5WX4	5WX4	5WX6	5WX6
Heating power	600WX4	-	600WX6	-
Total power	605WX4	5WX4	605WX6	5WX6
Voltage, Frequency	100-120V,60Hz; 200-240V,50Hz	100-240V,50/60Hz	100-120V, 60Hz; 200-240V,50Hz	100-240V,50/60Hz
Stirring positions	4	4	6	6
Max. stirring quantity (H <sub>2</sub> O)	3LX4	3LX4	3LX6	3LX6
Max. stirring quantity (H <sub>2</sub> O) per channel	3L	3L	3L	3L
Max. magnetic bar [length]	40mm	40mm	40mm	40mm
Speed range	200-1500rpm	200-1500rpm	200-1500rpm	200-1500rpm
Speed control accuracy [rpm]	±20	±20	±20	±20
Speed display	LCD	LCD	LCD	LCD
Temperature display	LCD	LCD	LCD	LCD
Heating temperature range	25-280°C	-	25-280°C	-
Overheating protection	420°C	-	420°C	-
Temperature display resolution	0.1°C	-	0.1°C	-
Temperature control accuracy	±1°C(<100°C), ±1%(>100°C)	-	±1°C(<100°C), ±1%(>100°C)	-
External temperature sensor	PT1000 (accuracy±0.2°C)	-	PT1000 (accuracy±0.2°C)	-
IP protection class	IP21	IP21	IP21	IP21
Dimensions (WxDxH)	701X265X127mm	701X265X127 mm	564X523X127 mm	564X523X127 mm
Weight	8.7Kg	8.7Kg	12.7Kg	12.7Kg
Permissible ambient temperature and humidity	5~40°C, 80% RH	5~40°C, 80% RH	5~40°C, 80% RH	5~40°C, 80% RH



# MS-H-S10

## 10-Position Magnetic Hotplate Stirrer



Specifications	MS-H-S10
Work plate dimension[W x D]	180x450mm
Work Plate material	Stainless steel covered with silicone cushion
Motor type	Brushless DC motor
Stirring positions	10
Max. stirring quantity	0.4Lx10
Max. magnetic bar [length]	40mm
Speed range	0-1100rpm
Speed display	scale
Temperature display	scale
Heating temperature range	Room temp.-120°C
Over temperature protection	140°C
IP Protection class	IP20
Motor rating output	4W
Power	490W
Heating Power	470W
Voltage,Frequency	100-120/200-240V, 50/60Hz
Dimensions[WxDxH]	182×622×65mm
Weight	3.2kg
Permissible ambient temperature and humidity	5-40°C, 80%RH

## Features

- Maintenance-free brushless DC motor °C
- Maximum speed 1100rpm
- Maximum temperature of work plate up to 120°C
- Stainless steel work plate, Covered with silicone cushion, provide excellent of heating uniformity and skid resistance



Skid resistance



Multiple position



Brushless DC motor



## HP500-Pro

### LCD Digital Hotplate

## Features

- LCD screen shows temperature, Max. temperature up to 500°C
- 10-inch glass ceramic work plate provides excellent chemical-resistant performance and most efficient heat transfer
- External temperature control is possible by connecting the temperature sensor (PT 1000) with an accuracy at  $\pm 0.2^{\circ}\text{C}$
- The “HOT” warning will flash if the work plate temperature is above 50°C even when the hotplate is turned off
- Heating temperature: room temperature -500°C.
- Data connector: The SD card records the instrument's running data in real time.
- Timing function: the running time of the instrument can be set.

Specifications	HP500-Pro
Work plate Dimension [W x D]	254x254mm (10 inch)
Work plate material	Glass ceramic
Heating position	1
Heating temperature range	Room Temp.-500°C, increment 1°C
Temperature control accuracy	$\pm 1^{\circ}\text{C}$ (<100°C) $\pm 1\%$ (>100°C)
Safety temperature	540°C
Temperature,time display	LCD
Timer function	1min-99h59min
Temperature display accuracy	$\pm 0.1^{\circ}\text{C}$
External temperature sensor	PT1000( $\pm 0.2^{\circ}\text{C}$ )
"Hot" warning	50°C
Protection class	IP20
Power	1700W
Heating output	1500W
Voltage,Frequency	100-120/200-240V, 50/60Hz
Dimension[WxDxH]	328x424x138mm
Weight	7.2kg
Permissible ambient temperature and humidity	5-40°C, 80%RH

# HP550-S

## LED Hotplate



Specifications	HP550-S
Work plate Dimension [W x D]	184x184mm (7 inch)
Work plate material	Glass ceramic
Heating position	1
Heating temperature range	Room Temp.-550°C, increment 5°C
Control accuracy of work plate	±10°C
Safety temperature	580°C
Temperature display	LED
Temperature display accuracy	±1°C
External temperature sensor	PT1000 ( accuracy ±0.2°C )
Heating warning	50°C
Protection class	IP21
Power	1010W
Heating Power	1000W
Voltage, Frequency	100-120/200-240V, 50/60Hz
Dimension [WxDxH]	215x360x112mm
Weight	4.5kg
permissible ambient temperature and humidity	5-40°C, 80%RH

## Features

- LED screen display actual and accurate temperature
- Maximum temperature up to 550°C
- Separate safety circuits with safety temperature of 580°C
- External temperature control is possible by connecting temperature sensor (PT 1000) with an accuracy of ±0.2°C
- Work plate provides excellent chemical-resistant performance and most efficient heat transfer
- “HOT” warning flashes when the workplate temperature is above 50°C

## HP380-Pro

### LCD Digital Hotplate



## Features

- Maximum heating temperature is 380 °C
- High resolution LCD displays actual temperature
- Aluminum ceramic coating work plate, allowing a immediate heat transfer
- External temperature control is possible with temperature sensor PT1000

Specifications	HP380-Pro
Work plate Dimension [W x D]	140x140mm (6 inch)
Work plate material	Aluminum cover with ceramic coating
Heating position	1
Heating temperature range	Room temp.-380°C increment 1°C
Over heat Protection	420°C
Temperature,time display	LCD
Temperature display accuracy	±1°C
External temperature sensor	PT1000(±0.2°C)
Protection class	IP21
Power	510W
Heating output	500W
Voltage,Frequency	100-120/200-240V, 50/60Hz
Dimension[WxDxH]	180x320x108mm
Weight	2.2kg
Permissible ambient temperature and humidity	5-40°C, 80%RH

## MS-S

### Magnetic Stirrer

## MS7-S

### 7" Square Magnetic Stirrer

- Speed range of 0-1500rpm
- Maximum stirring quantity of H<sub>2</sub>O up to 10L
- Ceramic work plate provides excellent corrosion resistance



MS7-S



MS-S



MS6-Pro

## MS6-Pro

### LCD Digital Magnetic Stirrer

- High resolution LCD displays actual stirring speed
- Brushless DC motor is maintenance free
- Aluminum covered ceramic coating, corrosion resistant and easy to clean
- Digital speed control up to 1500rpm
- Maximum stirring quantity of H<sub>2</sub>O at 5L

Specifications	MS7-S	MS-S	MS6-Pro
Work plate Dimension [W x D]	184x184mm (7 inch)	Ø135mm (5 inch)	140x140mm
Work plate material	Glass ceramic	Stainless steel cover with ceramic	Aluminum cover with ceramic coating
Motor type	Shaded pole motor	Brushless DC motor	Brushless DC motor
Stirring positions	1	1	1
Max. stirring quantity[H <sub>2</sub> O]	10L	20L	5L
Max.magnetic bar[length]	80mm	80mm	40mm
Speed range	0-1500rpm	0-1500rpm	200-1500rpm
Speed display	Scale	Scale	LCD
Protection class	IP21	IP21	IP21
Motor output Power	1.5W	10W	1.8W
Power	30W	30W	10W
Voltage,Frequency	100-120/200-240V, 50/60Hz	100-240V, 50/60Hz	100-240V, 50/60Hz
Dimension[WxDxH]	215x360x112mm	160x280x85mm	320x180x108mm
Weight	3.8kg	2.8kg	2.2kg
Permissible ambient temperature and humidity	5-40°C, 80%RH	5-40°C, 80%RH	5-40°C, 80%RH

# MS-PA

## LED Digital Magnetic Stirrer

### Features

- Digital speed control within the range of 0-1500rpm
- Maximum stirring quantity of H<sub>2</sub>O at 3L
- LED display shows stirring speed (MS-PA)



Specifications	MS-PA	MS-PB
Work plate Dimension	Ø135mm (5 inch)	Ø135mm (5 inch)
Work plate material	Nylon+GF	Nylon+GF
Motor type	Brushless DC motor	Brushless DC motor
Stirring positions	1	1
Max. stirring quantity[H <sub>2</sub> O]	3L	3L
Max.magnetic bar[length]	50mm	50mm
Speed range	200-1500rpm	0-1500rpm
Speed display	LED	scale
Protection class	IP42	IP42
Motor output Power	3W	3W
Power	15W	10W
Voltage,Frequency	100-240V, 50/60Hz	100-240V, 50/60Hz
Dimension[WxDxH]	150x260x80mm	150x260x80mm
Weight	1.8kg	1.8kg
Permissible ambient temperature and humidity	10-40°C,80%RH	5-40°C,80%RH



Strong magnetism



Chemical resistance



LED display

# MS-T-S15

## 15-Position magnetic stirrer

### Features

- LCD display for precise speed and time control.
- Maintenance free DC brushless motor for long life and high stirring power.
- Aluminum laser engraving work plate surface, anti-abrasive, skid and corrosion proof
- Strong magnets ensure fast and intense stirring
- 15 stirring positions are divided into 3 independent groups and each group can be controlled respectively at different speeds and with different timer settings.
- Buzzer function : When the time countdown ends, the buzzer will remind the user by sound.



### Specifications

### MS-T-S15

Work plate Dimension [WxD]	460x304mm
Work plate material	Aluminum
Motor type	DC brushless
Stirring positions	15
Max. stirring quantity [H <sub>2</sub> O]	0.4Lx15
Max. magnetic bar[length]	40mm
Speed control accuracy	±10rpm
Speed 、 Time display	LCD
Speed range	100-1500rpm
Timer function	1min-99h59min
Protection class	IP21
Power	54W
Voltage ,Frequency	100-240V , 50Hz/60Hz
Dimension [DxWxH] [mm]	615x307x90mm
Weight	9.2kg
Permissible ambient temperature and humidity	5-40°C , 80%RH



0.4Lx15



100-1500rpm



Timer



Skid resistance



Multiple position



Brushless DC motor



# MS-M-S10

## 10-Position Magnetic Stirrer



Specifications	MS-M-S10
Work plate Dimension [W x D]	180×450mm
Work plate material	Stainless steel with silicone coating
Motor type	Brushless DC motor
Stirring positions	10
Max. stirring quantity[H <sub>2</sub> O]	0.4Lx10
Max.magnetic bar[length]	40mm
Speed range	0-1100rpm
Speed display	Scale
Protection class	IP20
Motor output Power	4W
Power	20W
Voltage,Frequency	100-120/200-240V, 50/60Hz
Dimension[WxDxH]	622x205x65mm
Weight	3.2kg
Permissible ambient temperature and humidity	5-40°C, 80%RH

## Features

- Efficient, simple and safe stirring
- High performance and space-saving design to maximize the use of benchtop space and saving time by stirring multiple solutions
- Maintenance-free brushless DC motor
- Speed range 0-1100rpm
- Stainless steel work plate covered with silicone cushion, provides excellent performance of skid resistance



Skid resistance



Multiple position

# FlatSpin

## Ultra-flat Compact Magnetic Stirrer

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

Specifications	FlatSpin
Work plate Dimension	Ø90mm
Work plate material	PET
Stirring positions	1
Max. stirring quantity[H <sub>2</sub> O]	0.8L
Max.magnetic bar[length]	40mm
Speed range	15-1500rpm
Protection class	IP21
Output Power	3W
Power	5W
Voltage,Frequency	100-240V, 50/60Hz
Dimension[WxDxH]	175x120x15mm
Weight	0.3kg
Permissibleambient temperature and humidity	5-40°C,80%RH



## Features

- Speed range 15 to 1500rpm
- Automatic reverse rotation for excellent mixing
- PET top work plate provides excellent chemical resistance
- Motorless technology provides ultra silent and vibration-free operation
- Perfect magnetic stirrer for use during titration (bottle-top burette) in analytical chemistry



# EcoStir

## Economical Magnetic Stirrer

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

## Features

- Maintenance free brushless 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 other sensors for different purposes

# 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.



Specifications	EcoStir	EcoStir
Work plate size	120x115mm	Ø120mm
Work plate material	PET	PET
Motor type	Brushless DC Motor	Brushless DC motor
Stirring position	1	1
Max. stirring quantity (H <sub>2</sub> O)	1.5L	1.5L
Max. magnetic bar (length)	40mm	40mm
Speed range	300-2000rpm	300-2000rpm
Speed setting	Scale	scale
Protection class	IP21	IP21
Motor output power	1.2W	1.2W
Power	7.2W	7.2W
Voltage, Frequency	100-240V, 50/60Hz or DC 12V	100-240V, 50/60Hz or DC 12V
Dimension [WxDxH]	150x144x54mm	150x145x50mm
Weight	0.3Kg	0.3kg
Permissible ambient temperature and humidity	5-40°C, 80%RH	5-40°C, 80%RH



## Tips for temperature control

- It is recommended to use the beads with all full ranges Dlab 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

## Alloy-Bead Heating Bath

### Features












- High strength aluminum alloy beads provides high thermal conductivity over wide temperature range
- Flexible, convenient, easy to operate and adaptable to reaction essels with different shapes and sizes
- Accommodates the external temperature probe on hotplate magnetic stirrer to achieve precise temperature control
- The alloy beads do not adhere to the container inside surface. whereas the silicone oil when used is difficult to dean in oil bath application
- Eco-friendly, pollution free, paisan free, fume free,highly safe and splash free heating
- PTFE shell can effectively retains the heat and ensure human safety fram burn injuries
- The beads are easy to clean and replace separately



## Magnetic stirrer accessories

Cat. No.	Description	MS10-H500-PRO	MS7-H550-Pro MS7-H550-S	MS-H-Pro <sup>a</sup> MS-H-Pro <sup>†</sup>	MS-H340-S4	MS-H-S	MS-H280-Pro	MS-H380-Pro
 18900001	Blue carrying plate, use with color quarter pies			■	■	■	■	
 18900065	Blue Fixed ring, use with color quarter pies			■	■	■	■	
 18900002	Red quarter pie, 11 holes, 4mL reaction vessel, Ø15.2mm, 20mm depth	■	■	■	■	■	■	■
 18900003	Purple quarter pie, 4 holes, 20mL reaction vessel, Ø28mm, 24mm depth	■	■	■	■	■	■	■
 18900004	Blue quarter pie, 4 holes, 30mL reaction vessel, Ø28mm, 30mm depth	■	■	■	■	■	■	■
 18900005	Black quarter pie, 4 holes, 40mL reaction vessel, Ø28mm, 43mm depth	■	■	■	■	■	■	■
 18900048	Green quarter pie, 6 holes, 8mL reaction vessel, Ø17.8mm, 26mm depth	■	■	■	■	■	■	■
 18900049	Golden quarter pie, 4 holes, 16mL reaction vessel, Ø21.6mm, 31.7mm depth	■	■	■	■	■	■	■
 18101006	Reaction block for 50mL round bottom flask (one flask capacity)			■	■	■	■	
 18101007	Reaction block for 100mL round bottom flask (one flask capacity)			■	■	■	■	
 18101008	Reaction block for 250mL round bottom flask (one flask capacity)			■	■	■	■	
 18101009	Reaction block for 500mL round bottom flask (one flask capacity)			■	■	■	■	
 18900019	F101 protective cover, temperature resistance of 135°C			■		■	■	
 18900016	PT1000-A, length of 230mm	■	■	■	■		■	■
 18900136	PT1000-B, temperature sensor with glass coated, length of 230mm	■	■	■	■		■	■
 18900017	Support clamp of PT1000 Vertical bar length: 45cm, stents length: 25cm, Stem diameter:10cm	■	■	■				
 18900540	Support clamp of PT1000 Vertical bar length: 35cm, stents length: 18cm, Stem diameter:10cm				■		■	■

Cat. No.	Description	MS10-H500-PRO	MS7-H550-Pro MS7-H550-S	MS-H-Pro <sup>A</sup> MS-H-Pro <sup>T</sup> MS-H-PRO <sup>M</sup>	MS-H340-S4 MS-H280-S4 MS-H280-S6	MS-H-S	MS-H280-Pro	MS-H380-Pro
 18204540	Square Module, capacity of 16 x 4mL flat bottom, hole dimensions: Ø15.2x 18.5mm	■	■	■	■	■	■	■
 18204542	Square Module, capacity of 16 x 8mL flat bottom, hole dimensions: Ø17.5x23.5mm	■	■	■	■	■	■	■
 18204544	Square Module, capacity of 9 x 16mL flat bottom, hole dimensions: Ø20.5x 28.5mm	■	■	■	■	■	■	■
 18204546	Square Module, capacity of 4 x 20mL flat bottom, hole dimensions: Ø28.5x23.5mm	■	■	■	■	■	■	■
 18204548	Square Module, capacity of 4 x 30mL flat bottom, hole dimensions: Ø28.5x33.5mm	■	■	■	■	■	■	■
 18204550	Square Module, capacity of 4 x 40mL flat bottom, hole dimensions: Ø28.5x43.5mm	■	■	■	■	■	■	■
 18204552	Ø65x25.5mm - 150mL (Aperture x Hole depth — Adapted container volume) Spherical Square Module	■	■	■	■	■	■	■
 18204554	Square Module, capacity 250mL round bottom, hole dimensions: Ø86x31.5mm	■	■	■	■	■	■	■
 18204535	Square Tray with Handle (Length x depth x width: 160 x 32 x 160 mm, Suitable for 5-inch Ø135mm magnetic stirrer)			■	■	■	■	
 18204538	Square Tray without Handle (Length x depth x width: 160 x 32 x 160 mm, Suitable for 5-inch Ø135mm magnetic stirrer)			■	■	■	■	

Cat.NO.	Picture	Name of stirrer bars	Size [mm]
18900693		Stirrer bar, cross	Ø5 X 10
18900694		Stirrer bar, cross	Ø10 X 20
18900695		Stirrer bar, cross	Ø9 X 25
18900696		Stirrer bar, cross	Ø10 X 30
18900697		Stirrer bar, cross	Ø11 X 38
18900698		Stirrer bar, cross	Ø20 X 65
18900699		Stirrer bar, Triangular prism	Ø14 X 25
18900700		Stirrer bar, Triangular prism	Ø14 X 50
18900701		Stirrer bar, Triangular prism	Ø9 X 35
18900702		Stirrer bar, Triangular prism	Ø14 X 80
18900703		Stirrer bar, Gear shape	Ø8 X 30
18900704		Stirrer bar, Gear shape	Ø8 X 38
18900705		Stirrer bar, Gear shape	Ø10 X 50
18900706		Stirrer bar, ellipse	Ø10 X 20
18900707		Stirrer bar, ellipse	Ø12 X 25
18900708		Stirrer bar, ellipse	Ø11X 30
18900709		Stirrer bar, ellipse	Ø15X 35
18900710		Stirrer bar, ellipse	Ø20 X 40
18900711		Stirrer bar, ellipse	Ø20 X 50
18900712		Stirrer bar, ellipse	Ø22 X 70
18900713		Stirrer bar, slide round	Ø6 X 25
18900714		Stirrer bar, slide round	Ø6 X 30
18900715		Stirrer bar, slide round	Ø8 X 40
18900716		Stirrer bar, slide round	Ø8 X 50
18900717		Stirrer bar, slide round	Ø10 X 60
18900718		Stirrer bar, slide round	Ø13 X 80
18900719		Stirrer bar, slide round	Ø24 X 159
18900720		Stirrer bar, Eight prism	Ø8 X 20
18900721		Stirrer bar, Eight prism	Ø10 X 30
18900722		Stirrer bar, Eight prism	Ø8 X 40
18900723		Stirrer bar, Eight prism	Ø8 X 50
18900724		Stirrer bar, Eight prism	Ø9 X 90
18900725		Stirrer bar, round	Ø27X57
18900726		Stirrer bar, round	Ø27X108
18900727		Stirrer bar, round	Ø27X159
18900006		Stirrer bar, round	Ø6 X 10
18900007		Stirrer bar, round	Ø8 X 15
18900008		Stirrer bar, round	Ø8 X 20
18900009		Stirrer bar, round	Ø8 X 25
12500005		Stirrer bar, round	Ø6X 30
18900011		Stirrer bar, round	Ø8 X 40
12500004		Stirrer bar, round	Ø8 X 50
18900013		Stirrer bar, round	Ø8X 65
18900014		Stirrer bar, round	Ø13X 80
18900728		Stirrer bar, crown	Ø9X6
18900015		Stirrer bar remover	length of 30cm
18900610		Stirrer bar remover	length of 25cm


**18900740** 7 inch Magnetic Stirrer transparent safety shield

**18900739** 5 inch Magnetic Stirrer transparent safety shield

**18900741** 10 inch Magnetic Stirrer transparent safety shield

Cat.NO./Picture	RS 1 Set of magnetic stirring bars	Cat.NO./Picture	RS 2 Set of magnetic stirring bars
 18900731	Stirrer bar, round, Ø6X10, 2	 18900732	Stirrer bar, round, Ø8X40, 2
	Stirrer bar, round, Ø6X15, 2		Stirrer bar, Eight prism, Ø8 X 40, 2
	Stirrer bar, round, Ø8X20, 2		Stirrer bar, Gear shape, Ø8 X 30, 2
	Stirrer bar, round, Ø8X25, 2		Stirrer bar, slide round, Ø8 X 40, 2
	Stirrer bar, round, Ø6X30, 2		Stirrer bar, ellipse, Ø20 X 40, 2
	Stirrer bar, round, Ø8X40, 2		Stirrer bar, cross, Ø9 X 25, 2
	Stirrer bar, round, Ø8X50, 2		Stirrer bar, crown, Ø9X6, 2
	Stirrer bar, round, Ø10X80, 2		Stirrer bar, round, Ø8X50, 2
	Stirrer bar, Triangular prism, Ø14 X 25, 2		Stirrer bar, Triangular prism, Ø9 X 35, 2
	Stirrer bar, Triangular prism, Ø14 X 50, 2		

**Magnetic Stirrer accessories:**

Cat. No.	Picture	Name	Specification	Instructions
18900798		Stainless steel pot Volume-2.5L	Volume:2.5L, Outside diameter:20cm, Inside diameter:18cm, High:11cm, Bottom diameter:18cm	—
18900799		Stainless steel pot Volume-3.5L	Volume:3.5L, Outside diameter:22cm, Inside diameter:20cm, High:12cm, Bottom diameter:20cm	—
18900800		Stainless steel pot Volume-4.5L	Volume:4.5L, Outside diameter:24cm, Inside diameter:22cm, High:13cm, Bottom diameter:22cm	—
18900801		Stainless steel pot Volume-5.5L	Volume:5.5L, Outside diameter:26cm, Inside diameter:24cm, High:13.5cm, Bottom diameter:24cm	—
18900813		Aluminum alloy and ceramic coating pot	Volume:1.5L, Outside diameter:14cm, High:12cm	—
18900811		Aluminum alloy test tube holder Ø23mm	Ø23mm x10	Used with 18900813
18900812		Aluminum alloy test tube holder Ø33.5mm	Ø33.5mm x 8	Used with 18900813
18900814		DLAB beaker cap	500mL & 1000mL & 2000mL	Suitable for 500mL, 1000mL and 2000mL beakers
18204333		Magnetic stirring extension assembly M8	M8	Adaptation: 18900540 support clamp
18204334		Magnetic stirring extension assembly M10	M10	Adaptation: 18900017 support clamp



# D-160

## Handheld Homogenizer

## Features

- Portable, lightweight with ergonomic design ideal for manual operations
- Processing volumes from 0.1-50mL or 1-250mL
- Variable speed from 8,000 to 32,000 rpm
- 316L stainless steel shafts are fully autoclavable
- Interchangeable shafts for easy dismantling and cleaning

## Applications

Designed for rapidly homogenize, emulsify, suspend and disrupt biological samples like tissue of animal, bacteria, yeast, plant samples, etc. in liquids. Ideal for samples from 0.1mL to 250mL depending on shaft chosen.



Specifications	D-160
Speed range	8000-32000rpm
Max linear velocity	6.3、10、14 m/sec
Speed level	10 stage
Working volume [H <sub>2</sub> O]	0.1-50mL (Dispersing shaft DS-160/5)
	1-150mL (Dispersing shaft DS-160/7)
	1-250mL (Dispersing shaft DS-160/10)
Max. viscosity	5,000mPas
Material of Dispersing Shaft	SS 316L stainless steel, PTFE
Noise Level	72 dB(A)
Protection class	IP20
Voltage, Frequency	110-120V/60Hz 220-240V/50-60Hz
Power	160W
Motor Type	AC carbon brush motor
Dimension [WxDxH]	45mm x 55mm x 190mm
Weight	0.54 kg
Permissible ambient temperature and humidity	0-40°C, 85%RH

### DS-160/5 Cat. No.18900543

Volume 0.1-50mL  
Max. Circum. Speed 6.3m/sec  
Material: 316L stainless steel  
Application: small amounts of solid liquid mixed  
Function: dispersing tool for solid/liquid media



### DS-160/7 Cat. No.18900815

Volume 1-150mL  
Max. Circum. Speed 10m/sec  
Material: 316L stainless steel  
Application: small amounts of solid liquid mixed  
Function: dispersing tool for solid/liquid media



### DS-160/10 Cat. No.18900544

Volume 1-250mL  
Max. Circum. Speed 14m/sec  
Material: 316L stainless steel  
Application: small amounts of solid liquid mixed  
Function: dispersing tool for solid/liquid media



**NEW**

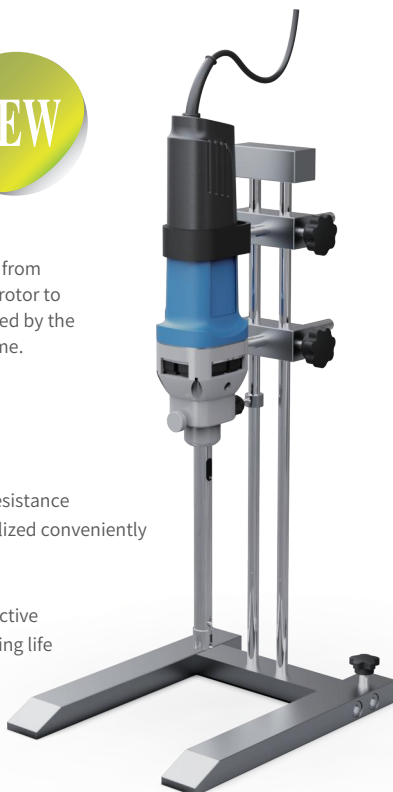
# D-500

## High Shear Homogenizer

The high shear homogenizer D500 is applicable to various tasks from sample preparation to formulation study. The motor drives the rotor to rotate at high speed, and the sample is homogenized or dispersed by the gap between the rotor and stator, usually in a short period of time.

## Features

- High quality 316L stainless steel with corrosion and autoclave resistance
- Rotor with simple design can be dismantled, cleaned, and sterilized conveniently
- 6 speed levels
- Applicable for sample with viscosity up to 10000mPa · s
- Replaceable rotors and stators sharing the same shaft, cost-effective
- Automatic overload protection mechanism maximizes the working life of motor.
- Smooth motor start, stable acceleration without spillage risk



## Applications

Widely applied for histocyte lysis, cell homogenization, emulsion, nanometer scale dispersion process in biology, pharmaceutical, genetic and pathology study, dairy product or fruit homogenization, polymerization reaction, production of fragrance, cosmetics, textile auxiliary, food, ink, paints, asphalt, fine chemicals, agricultural chemicals, and analysis in mineral exploration, environmental protection and energy resource exploration.

- Routine homogenization, emulsion, depolymerization, dispersion application
- Disperse substance to form suspension and emulsion
- Disperse pigment and resin
- Disperse animal or human tissue into various solution
- Facilitate the dissolve of solid substances
- Sample preparation for quality control test
- Animal or plant cell lysis
- Emulsion, cream cosmetics, and food formulation study
- Extraction of active pharmaceutical ingredient from pills and tablets

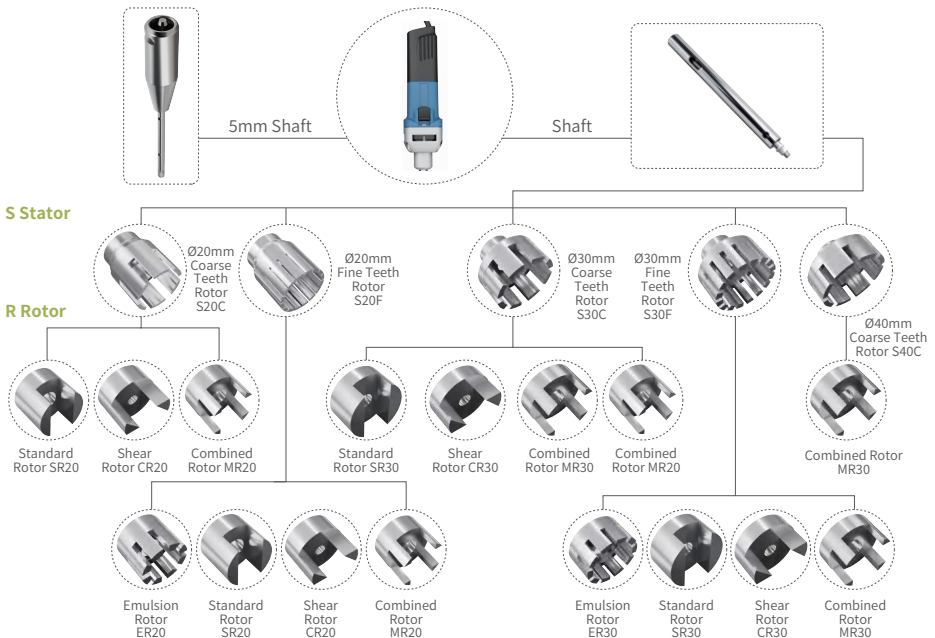
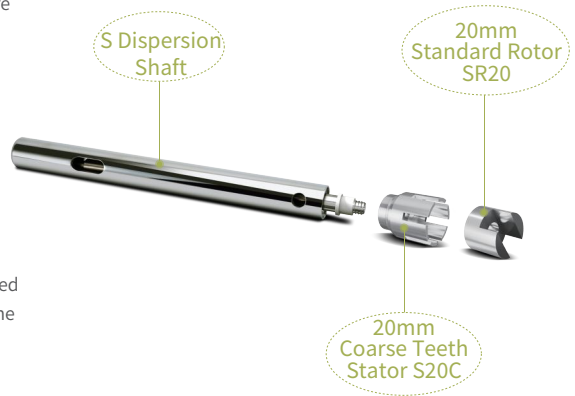
Specifications	D-500
Speed range	10000-30000rpm
Max linear velocity	22.7-36m/sec
Speed Level	6 stage
Working volume	10-40000mL
Max. viscosity	10000mPa · s
Material of dispersing shaft	SS 316L stainless steel, PTFE
Noise Level	79dB(A)
Protection class	IP20
Voltage, frequency	110-120V/60Hz, 220-240V/50-60Hz
Power	500W
Motor type	AC carbon brush motor
Dimension [WxDxH]	75x75x280mm
Weight	1.7kg
Permissible ambient temperature and humidity	0-40°C, 85%RH

# Dispersion Head Selection Guide

**Material:** All dispersion head components are made of high quality 316L stainless steel to ensure the mechanical performance while rotating at high speed of 30000rpm.

**Bearing:** Made of excellent material, the bearing is sturdy, durable and corrosion resistance. Its mechanical performance and chemical characteristics are stable.

**Easy to clean:** The dispersion head is designed to be easily dismantled and thus cleaned. The components can be cleaned manually or automatically, and can be autoclaved. Even the precision components can be removed to clean.



**DS-500/1 Cat No.18201331**

Solid and liquid dispersion  
Volume 10-5000mL  
Max. circum. Speed 22.7m/sec  
General purpose  
Emulsion granularity range 1-10µm  
Suspension granularity range 10-50µm

**DS-500/2 Cat No.18201332**

Emulsion  
Volume 10-5000mL  
Max. circum. Speed 22.7m/sec  
General emulsion purpose  
Emulsion granularity range 1-10µm  
Suspension granularity range 10-50µm

**DS-500/5 Cat No.18900117**

Small amounts of solid and liquid dispersion  
Volume 1-50mL  
Max. circum. Speed 5.8m/sec  
Compatible with 5mm stator and 3.8mm rotor  
Special design for 1-50mL tissue  
homogenization, mixing and suspension in  
Eppendorf tube, tube strip and centrifuge  
tubes for clinical and diagnostic application

Stator & Rotor		Purpose	Working Volume	Max. circum. Speed	Rotor Dia.	Stator Dia.	Min./Max.	Granularity (µm)		Application
Combinations			mL	m/s	mm	mm	Immersion Depth	Suspension	Emulsion	
18201331	SS20CSR20	Solid-liquid mix	10-5000	23.5	15	20	40/170	10-50	1-10	P,CI,PC
18900205 18900215	S20C CR20	Fiber	10-5000	23.5	15	20	40/170	10-50	1-10	SP,M,F,PT,TI
18900205 18900216	S20C MR20	Solid-liquid mix	10-5000	23.5	15	20	40/170	10-50	1-10	CI,PI
18201332	SS20FER20	Emulsion	10-5000	23.5	15	20	40/170	10-50	1-10	SP,PI,PT,P
18900206 18900215	S20F CR20	Fiber	10-5000	23.5	15	20	40/170	10-50	1-10	SP,BT,M,F,PT,TI
18900206 18900216	S20F MR20	Solid-liquid mix	10-5000	23.5	15	20	40/170	10-50	1-10	CI,C,PI,F,PT,PC
18900213 18900216	S30C MR20	As stirring paddle	250-20000	36.1	15	30	40/170	High speed mixing		CI,F,SP
18900213 18900208	S30C SR30	Solid-liquid mix	100-8000	36.1	23	30	40/170	5-25	1-5	SP,M,F,PT,P
18900213 18900209	S30C CR30	Fiber	100-8000	36.1	23	30	40/170	5-25	1-5	SP,M,F,PT,P
18900213 18900229	S30C MR30	Solid-liquid mix	100-8000	36.1	23	30	40/170	5-25	1-5	CI,PI
18900228 18900208	S30F SR30	Solid-liquid mix	100-8000	36.1	23	30	40/170	5-25	1-5	SP,PI,PT,P
18900228 18900212	S30F ER30	Emulsion	100-8000	36.1	23	30	40/170	5-25	1-5	SP,PI,PT,P
18900228 18900229	S30F MR30	Solid-liquid mix	100-8000	36.1	23	30	40/170	5-25	1-5	CI,C,P,F,DT,TI
18900214 18900229	S40C MR30	As stirring paddle	1000-40000	36.1	23	40	40/170	High speed mixing		CI,F,SP
18900117	SS5CSR5	Small amount solid-liquid mix	1-50	6.3	4	5	40/60	10-50	1-10	BT,M

**Note:**

BT: Biotech; F: Food; P: Pharmaceuticals; C: Cosmetics; M: Medicine Analysis; PC: Petroleum Chemistry; PT: Paper and Pulp Industry; SP: Sewage Treatment; CI: Ceramic Industry; CH: Chemical Industry; PI: Paints Industry; TI: Tobacco Industry

The common combinations of rotor and stator are listed in the table above. Dispersion head can be mounted on the homogenizer main body and fixed on the holder with fixtures. All the components of dispersion head can be sterilized with all usual methods (including chemicals, autoclave, etc.)

# 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.



Specifications	OS20-Pro	OS40-Pro	OS70-Pro
Max. stirring quantity[H <sub>2</sub> O]	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	Brushless DC motor	Brushless DC motor
Voltage,Frequency	100~240V, 50/60 Hz	100~240V, 50/60 Hz	100~240V, 50/60 Hz
Speed display	LCD	LCD	LCD
Torque display	LCD	LCD	LCD
Overload protection display	LCD	LCD	LCD
Chuck clamp range diameter	0.5~10mm	0.5~10mm	0.5~10mm
Motor input/output power	60W/50W	120W/100W	180W/160W
Power	70W	130W	200W
Dimension[WxHxD]	83 x 220 x 186mm	83 x 220 x 186mm	83 x 220 x 186mm
Protection class	IP21	IP21	IP21
Permissible ambient temperature and humidity	5~40°C,80%RH	5~40°C,80%RH	5~40°C,80%RH
Data interface	RS232	RS232	RS232



# OS20-S/OS40-S

## LED Overhead Stirrer

## Features

- High reliability and outstanding performance
- 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
- Large chuck diameter for many shaft types

### Set of Overhead Stirrer tools

**Cat.No. 18900743**



Contains one vertical rod, six stirring blades, Such as Propeller stirrer, Paddle stirrer, Centrifugal stirrer, Flat-blade stirrer, Radial-flow stirrer, Anchor stirrer and Disassembling tool

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

## Plate Stands

### Universal Plate Stand (for OS20/40/70)

**Cat. No.18900605**



Dimension [W x D x H] :  
20x31x78cm  
Material: cast iron




### Grand Plate Stand (for OS70)

**Cat. No.18900497**



Dimension [W x D x H] :  
33.5x46.3x78cm  
Material: cast iron

**DLAB Overhead Stirrer provides a variety of stirring tools, such as impellers, paddles and blades:**

<b>Propeller stirrer</b> Shaft length: 40cm Stirrer diameter: 5cm Shaft diameter: Ø8mm Material: 316L stainless steel Standard stirring applications at medium and high speed	<b>Cat. No.18900071</b> 	<b>Paddle stirrer</b> Shaft length: 40cm Stirrer diameter: 6.8cm Shaft diameter: Ø8mm Material: 316L stainless steel For gentle mixing at low and medium speeds	<b>Cat. No.18900073</b> 
<b>Straight stirrer</b> Shaft length: 40cm Stirrer diameter: 6cm Shaft diameter: Ø8mm Material: 316L stainless steel For low viscosity media at medium and high speeds	<b>Cat. No.18900072</b> 	<b>Centrifugal stirrer</b> Shaft length: 40cm Stirrer diameter: 9cm Shaft diameter: Ø8mm Material: 316L stainless steel Blades open while speeding. For narrow neck vessels at medium to high speed.	<b>Cat. No.18900074</b> 
<b>Propeller stirrer</b> Shaft length: 35cm Stirrer diameter: 6.5cm Shaft diameter: Ø8mm Material: PTFE coated Standard stirring applications at medium and high speed	<b>Cat. No.18900075</b> 	<b>Paddle stirrer</b> Shaft length: 35cm Stirrer diameter: 6.8cm Shaft diameter: Ø8mm Material: PTFE coated For gentle mixing at low and medium speeds	<b>Cat. No.18900077</b> 
<b>Straight stirrer</b> Shaft length: 35cm Stirrer diameter: 7cm Shaft diameter: Ø8mm Material: PTFE coated For low viscosity media at medium and high speeds	<b>Cat. No.18900076</b> 	<b>Centrifugal stirrer</b> Shaft length: 35cm Stirrer diameter: 8.5cm Shaft diameter: Ø8mm Material: PTFE coated Blades open while speeding. For narrow neck vessels at medium to high speed.	<b>Cat. No.18900078</b> 
<b>Grand propeller stirrer</b> Shaft length: 60cm Stirrer diameter: 10cm Shaft diameter: Ø8mm Material: 316L stainless steel Standard stirring	<b>Cat. No. 18900478</b> 	<b>Grand paddle stirrer</b> Shaft length: 60cm Stirrer diameter: 10cm Shaft diameter: Ø8mm Material: 316L stainless steel Gentle mixing for those stratify easily or sensitive to shear	<b>Cat. No.18900499</b> 
<b>Grand anchor stirrer</b> Shaft length: 60cm Stirrer diameter: 10cm Shaft diameter: Ø8mm Material: 316L stainless steel Standard stirring or for those easily precipitate	<b>Cat. No. 18900498</b> 	<b>Grand dissolving stirrer</b> Shaft length: 60cm Stirrer diameter: 10cm Shaft diameter: Ø8mm Material: 316L stainless steel Breaking down granules in the mixture with strong shear	<b>Cat. No.18900500</b> 
<b>Flat-blade stirrer</b> Shaft length: 40cm Stirrer diameter: 6cm Shaft diameter: Ø8mm Material: 316L stainless steel Suitable for medium speed stirring, low viscosity and medium viscosity materials	<b>Cat. No. 18900625</b> 	<b>Anchor stirrer</b> Shaft length: 40cm Stirrer diameter: 6cm Shaft diameter: Ø8mm Material: 316L stainless steel Suitable for low speed stirring, medium viscosity and high viscosity materials	<b>Cat. No.18900627</b> 
<b>Radial-flow stirrer</b> Shaft length: 40cm Stirrer diameter: 5cm Shaft diameter: Ø8mm Material: 316L stainless steel Suitable for medium speed or high speed agitation, low viscosity or medium viscosity materials, recommended for the treatment of gas in liquid	<b>Cat. No. 18900626</b> 	<b>Spiral stirrer</b> Shaft length: 40cm Stirrer diameter: 5cm Shaft diameter: Ø8mm Material: 316L stainless steel Suitable for medium speed or high speed agitation, medium viscosity and high viscosity materials, recommended for liquid homogenization or suspension treatment	<b>Cat. No. 18900628</b> 

A male scientist with short brown hair and a beard, wearing a white lab coat over a blue shirt and clear safety goggles, is focused on his work. He is using a rotary evaporator, a piece of laboratory equipment used for the gentle removal of solvents from samples. The device consists of a rotating flask held by a motor, connected to a condenser and a collection flask. In this image, the rotating flask contains a blue liquid. The scientist is wearing blue nitrile gloves on his left hand, which is resting on the base of the equipment. The background is a bright, clean laboratory setting with white shelves and equipment.








**D**istilling

**Evaporation Solutions!**  
**Leading Laboratory & Industrial Rotary evaporator**



Rotary evaporator is an indispensable equipment for processes of evaporation, concentration, crystallization, drying, separation, and solvent recovery in many fields, and it is mainly used for continuous distillation of large amounts of volatile solvents under reduced pressure. It can be applied in different areas such as biological, pharmaceutical, chemical and even food & beverage industries.

#### DLAB Rotary Evaporator models:

Series	Image	Evaporating Flask Volume	Evaporation capacity	Temperature range	Automatic lifting	Display	Page
RE100-Pro		50-3000mL	Max.1.56L/h (H <sub>2</sub> O)	RT-180°C	YES	LCD	p.92
RE100-S		50-3000mL	Max.1.56L/h (H <sub>2</sub> O)	RT-180°C	No (Manual lifting)	LCD	p.93
RE200-Pro		20L	Max.4.5L/h (75% Alcohol)	RT-180°C	YES	LCD	p.90
RE500-E		5L	Max.2L/h (75% Alcohol)	20-100°C	YES	LCD	p.97
RE1000-E		10L	Max.3.8L/h (75% Alcohol)	20-100°C	YES	LCD	p.97
RE2000-E		20L	Max.5L/h (75% Alcohol)	20-100°C	YES	LCD	p.97
RE5000-E		50L	Max.11L/h (75% Alcohol)	20-100°C	YES	LCD	p.97

# RE200-Pro

## 20L Industrial Digital Rotary Evaporator

A promise of safety, reliability & highest level of efficiency for large volumes



### Features

- Large LCD digital display with heating temperature, rotation speed, clockwise&anticlockwise and time information
- One-click automatic motor lifting (stroke 180mm), smooth and silent
- Water/ oil heating bath with wide temperature range from RT to 180 °C
- Speed range from 10 to 150rpm, and interval operation in clockwise and anticlockwise directions for drying process
- Two-section vertical triple coil condensing tube with large area and strong evaporation capacity ensuring high-efficiency sample recovery
- The connector device allows for easy and quick installation of the evaporating flask
- PTFE double sealing ring with excellent sealing performance
- Switch valve for continuous collection without compromising the system vacuum and solvent distillation

### Applications

Suitable for pilot-scale production, large-scale application in biology engineering, pharmaceutical industry, chemical industry, beauty industry, medical industry and food processing.



Large LCD display



Overheating protection



Chemical resistance



### Two-section vertical triple coil condenser

large condensation area and strong evaporation capacity ensuring high efficient sample recovery



### Switching valve design

switch valve for continuous collection without compromising the system vacuum and solvent distillation



### Heating bath

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

Specifications		RE200-Pro
performance	Temperature range	Room temp. ~180°C (water and oil bath)
	Temperature control accuracy	Water: $\pm 1^\circ\text{C}$ Oil: $\pm 3^\circ\text{C}$
	Rotation Speed	10~150rpm
	Ultimate vacuum	Less 2.6mbar
	Evaporation capacity	Max.4.5L/h(75% Alcohol)
function	Temperature control	Micro processor PID control
	Display	LCD (temperature/speed/clockwise and Anti-clockwise/time)
	Time Setting Range	0-999min
	Lift stroke	Motorized 180mm
	Safety features	Motor over-current protection, earth-leakage protection lifting overload protection, Boil-dry protection, Overheating protection
components	Evaporation flask	Round flask 20L
	Receiving flask	Round flask 10L with drain valve
	Condenser	Two-section vertical triple coil condenser, cooling surface 1.2m <sup>2</sup>
specification	Heating bath size	Ø 450×240mm
	Hose connection	Cooling/suction nozzle outer diameter 16mm, vacuum pump nozzle outer diameter 16mm
Dimension[D×W×H]		1160×600×1860mm
Voltage/Frequency		220V/50/60Hz
Power		4600w
Heating Power		4400w

# RE100-Pro

## Digital Rotary Evaporator

It is highly used in chemical industries, pharmaceutical industries and also higher learning institution

## Features

- Digital LCD 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 temperature 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
- Condenser (cooling surface 1700cm<sup>2</sup>) with excellent cooling effect
- Ejection mechanism ensures easy removal of evaporating flask
- Double spring sealing ring made of PTFE provides an excellent sealing performance
- Optional glassware with explosion proof film available



Large LCD display



USB connector



Chemical resistance



Overheating protection



Compatible with all range of glassware

Specifications	RE100-Pro
Evaporating Flask Volume	50-3000mL (Optional Thickened glass axis compatible with 3L evaporating flask)
Motor Type	Brushless DC motor
Speed Range	20-280rpm
Display	LCD(speed, temperature, time)
Direction of Rotation	Clockwise and counterclockwise
Heating Temperature Range	Room temp. to 180°C
Control Accuracy	water: $\pm 1^\circ\text{C}$ oil: $\pm 3^\circ\text{C}$
Evaporation capacity	Max. 1.56L/h(H <sub>2</sub> O)
Heating Power	1300W
Lift stroke	Motorized 150mm
Timer	Yes
Time Setting Range	1-999min
Dimension[D×W×H]	465×457×583mm
Weight	15kg
Permissible Ambient Temperature	5-40°C
Permissible Relative Humidity	80%RH
Protection Class	IP20
USB Interface	Yes
Voltage/Frequency	100-120/200-240V, 50/60Hz
Power	1400W

# RE100-S

## LED Digital Rotary Evaporator

DLAB LED Digital Rotary Evaporator is a basic chemical laboratory instrument suitable for evaporation, distillation and separation of chemicals. It can be used as a multifunctional system in combination with vacuum pump, vacuum controller and low temperature circulators 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 just through a switch
- Manual lift combined with auxiliary lift for precise positioning of the glassware
- PID control ensures high temperature accuracy at  $\pm 1^{\circ}\text{C}$  (water)
- Overheating protection temperature at  $220^{\circ}\text{C}$
- 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
- Condenser (cooling surface 1200/1700cm<sup>2</sup> for selection), speeding up the flow rate of liquid with excellent cooling effect
- Ejection mechanism ensures easy exchange of evaporating flask
- Adjustable immersion angle
- Double spring sealing ring which is made of PTFE provides an excellent sealing performance
- Compatible with the entire range of RE100-Pro glassware
- Optional glassware with explosion proof film available
- High temperature warning when above  $50^{\circ}\text{C}$



Chemical resistance



Overheating protection



Compatible with wide range of glassware



Specifications	RE100-S
Evaporating Flask Volume	50-3000mL (Optional Thickened glass axis compatible with 3L evaporating flask)
Motor Type	Brushless DC motor
Speed Range	20-200rpm
Display	LED(speed, temperature, time)
Direction of Rotation	Clockwise and counterclockwise
Heating Temperature Range	Room temp. to $180^{\circ}\text{C}$
Control Accuracy	water: $\pm 1^{\circ}\text{C}$ oil: $\pm 3^{\circ}\text{C}$
Evaporation capacity	Max.1.56L/h(H <sub>2</sub> O)
Heating Power	1200W
Lift stroke	Manual 110mm+auxiliary 100mm
Interval Time Setting Range	1-999s
Dimension[D×W×H]	Main Unit:440×320×450mm Heating Bath:300×300×240mm
Weight	Main Unit:7kg Heating Bath:3kg
Permissible Ambient Temperature	5-40°C
Permissible Relative Humidity	80%RH
Protection Class	IP20
USB Interface	Yes
Voltage/Frequency	100-120/200-240V, 50/60Hz
Power	1245W

**Vertical**

Cat. No.	Glassware type	Volume	Cooling surface
18900165	Evaporating flask(NS29/32) Receiving flask(KS35/20)	1000mL	1700cm <sup>2</sup>
18900173	Evaporating flask(NS24/40) Receiving flask(KS35/20)	1000mL	1700cm <sup>2</sup>
18900166	(COATED)Evaporating flask(NS29/32) Receiving flask (KS35/20)	1000mL	1700cm <sup>2</sup>
18900174	(COATED)Evaporating flask(NS24/40) Receiving flask (KS35/20)	1000mL	1700cm <sup>2</sup>
18202410	Evaporating flask (NS 29/32) Receiving flask (KS 35/20)	1000mL	1200cm <sup>2</sup>
18900476	Evaporating flask (NS 24/40) Receiving flask (KS 35/20)	1000mL	1200cm <sup>2</sup>

**Diagonal**

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

**Heating Bath**

Cat. No.	Description	Volume
18900201	Heating bath for Rotary Evaporator RE100-Pro, 220V	5L
18900202	Heating bath for Rotary Evaporator RE100-Pro, 110V	5L
6033100210	LED heating bath, 100V-120/200-240V,50/60HZ	5L

**Heating Bath Lid**

Cat. No.	Description
18900547	heating Bath lid for RE100-S, improve distillation efficiency & ensure personnal safety from liquid splash

## Glassware



### Evaporating flask

Cat. No.	Volume	Size
18300116	50mL	NS 29/32
18300117	100mL	NS 29/32
18300118	250mL	NS 29/32
18300119	500mL	NS 29/32
18300120	1000mL	NS 29/32
18300121	2000mL	NS 29/32
18300122	3000mL	NS29/32
18300655	50mL	NS24/40
18300201	100mL	NS 24/40
18300202	250mL	NS 24/40
18300203	500mL	NS 24/40
18300204	1000mL	NS 24/40
18300205	2000mL	NS 24/40
18900204	3000mL	NS24/40
18900563	20L	RE200-Pro



### Foam brake

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



### Glass axis

Cat. No.	Volume	Size
18100998	Glass axis	NS 29/32
18203431	Thickened glass axis	NS24/40
18300206	Glass axis	NS 24/40
18204253	Thickened glass axis	NS29/32



### Receiving flask

Cat. No.	Volume	Size
18300107	100mL	KS 35/20
18300108	250mL	KS 35/20
18300109	500mL	KS 35/20
18300110	1000mL	KS 35/20
18300111	2000mL	KS 35/20
18900564	10L	RE200-Pro



### Distilling spider with 5 flasks(without flask)

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

# Optional Add-ons

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



C410

### C410 Chemistry-design diaphragm pump

#### Specifications

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

Noise:50dB

### Seals and other accessories

Cat. No.	Description	
18204186	vacuum seal ( PTFE+Viton)	
18204187	Evaporation bottle spring Used with 18204186	
18900190	Evaporation flask clip(red) NS29/42	
18900188	Evaporation flask clip(green) NS24/40	
18901001	Evaporation flask clip(Black) , NS24/40, Adapted to 3L/5L Evaporating flask	
18901002	Evaporation flask clip(Black) , NS29/32, Adapted to 3L/5L Evaporating flask	
18900871	Cooling water silicone hose line	
18900879	Secondary Condenser Component	
18900744	Rotary Evaporator Protective Shield Assembly (compatible with RE100-Pro)	
18900789	Rotary Evaporator Protective Shield (RE100-S)	

### Regulator /Moisture

Cat. No.	Description
18900186	Material: PVDF, PTFE, ABS, Borosilicate Glass, Stainless Steel 



# RE500-E&RE1000-E& RE2000-E&RE5000-E





## Pilot Scale Digital Control Rotary Evaporator

### Features

- LCD digital display with intuitive interface for operation and control.
- PID controller, precise control, fast setting.
- Stepless automatic motor lifting of the heat bath, smooth and silent.
- The reciprocation rotation function is the most useful for concentration of sample with power or solid particles.
- Double-layer high-efficiency condenser with anti-backflow design, large condensation surface area, strong evaporation capacity is a guarantee of high efficient sample recovery.
- Professional air tightness system design with PTFE sealing ring, featured with heat/corrosion resistance, and high durability.
- Optional vacuum controller to control the vacuum degree freely.
- Keep the outer surface of the heat bath at mild temperature with proprietary heat insulation design to avoid accidental personnel burn injury.
- Equipped with automatic switching valve, continuous collection can be carried out without affecting the negative pressure index of the system and solvent distillation.
- Optional water bath/oil bath heating mode (standard water bath).
- Solution can be continuously fed into evaporating flask.
- Digital display steam temperature sensing device can feed back the solvent steam temperature in real time



# Specification

Photos				
Model	RE500-E	RE1000-E	RE2000-E	RE5000-E
Evaporating flask volume	5L	10L	20L	50L
Speed range	20-180	20-130	20-130	20-130
Display	LCD			
Evaporation Capacity (Max.L/h) For 75% Alcohol	2	3.8	5	11
Ultimate vacuum	9 mbar			
Timer	Yes			
Temperature range	Water Bath: 20- 100°C Oil Bath: 20-180°C (Optional)			
Temperature control accuracy 1°C	±1			
Heating Power (W)	2000	3000	4000	5000
Temperature Display	LCD			
Lifting mode	Motorized			
Lifting Stroke (mm)	130	200	180	253
Time Setting Range	0-999min			
Voltage	220V			
Frequency (Hz)	50/60			
Motor	Brushless DC motor			
Heat Bath	Teflon coating			
Protection Class	IP20			
Dimension(D×W×H)	600*290*720	790*480*1130	900*490*1320	1030*510*1370
Permissible ambient temperature 1°C	5-40			
Permissible ambient humidity	≤80%			
Safety features	Motor over current protection, earth leakage protection, dry heating protection, overheat protection function			

### Vertical

Cat. No.	Glassware type & Volume	Cooling surface
18900674	5L Main condenser	0.28m <sup>2</sup>
18900639	10L Main condenser	0.49m <sup>2</sup>
18900640	10L Secondary condenser	
18900688	20L Main condenser	1.29m <sup>2</sup>
18900689	20L Secondary condenser	
18900648	50L Main condenser	1.75m <sup>2</sup>
18900649	50L Secondary condenser	



### Evaporating flask

Cat. No.	Volume	Size
18900677	5L	RE500-E
18900643	10L	RE1000-E
18900690	20L	RE2000-E
18900650	50L	RE5000-E



### Receiving flask

Cat. No.	Volume	Size
18900678	3L	RE500-E
18900644	5L	RE1000-E
18900691	10L	RE2000-E
18900651	20L	RE5000-E



### Three way bottle

Cat. No.	Volume	Size
18900676	—	RE500-E
18900642	—	RE1000-E/RE2000-E/RE5000-E








### Rotation axis

Cat. No.	Volume	Size
18900679	—	RE500-E
18900645	—	RE1000-E/RE2000-E/RE5000-E



## Other accessories

Cat. No.	Description	Size	Photograph
18900683	5L Locking clamp	30#	
18900682		40#	
18900655		50#	
18900656		60#	
18900657	80#		
18204035	5L Vacuum sealing ring	Teflon + fluorine rubber	
18203979	10L/20L/50L Vacuum sealing ring		
		90mm	
18204228	Flask holder (50mL-1L and 1L-20L)		
		160mm	
18901003	Evaporation bottle bracket	adapted to RE500-E	
18901004		adapted to RE1000-E	
18901005		adapted to RE2000-E	
18901006		adapted to RE5000-E	



# VC100

## Vacuum Controller Reliable, robust, efficient and extremely durable

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.



## Features

- Wide range of measurement and control, 1-1,000mbar
- Two control modes available Single-point control and programmed control
- Stores up to 5 programs, each containing up to 5 steps of programming control
- Large TFT touch screen display control provides easy operation
- All parts in contact with vapor or liquid are made of PTFE, ceramics or other high-performance materials which effectively resists corrosion caused by organic solvents, water, acid and alkali
- Built-in vent valve can feed inert gas into system equipment
- One-click 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 status of pump
- Reliable and functional design to fulfill essential needs of precise vacuum regulation

Specifications	VC100
Vacuum setting range	1-1000mbar
Vacuum measurement range	1-1000mbar
Control mode	Single-point control mode, Programmed control mode
Control program	Can store up to 5 programs, each containing 5-step control (capable to set the degree of vacuum and time)
Setting method	Touch screen setting
Display	5" TFT
Sensor overload pressure	1,500mbar
Connector diameter	8mm
Materials in contact with vapor	PTFE, PP, silicone and ceramics
Power	600W
Compatible conditions with vacuum pump	Power of 50Hz vacuum pump ≤400W Power of 60Hz vacuum pump ≤500W
Overall dimensionsWxDxH	189x207x193mm
Weight	4.0kg
Voltage,Frequency	110 240V,50Hz/60Hz
Operating environment	10°C ~40°C ≤80%RH



# Centrifuges

Centrifuge is used to separate liquid and solid particles or components in a liquid mixture. 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	Image	Model	Display	Max. speed(RCF)	Rotor Capacity	Page
Palm Micro Centrifuge		D1012UA	OLED	10000rpm (7490×g)	44×0.2mL PCR tubes 12×0.5/1.5/2mL+ 4PCR8-Strips	p.104
		D1008	-	7000rpm (2680×g)	32×0.2mL PCR tubes 8×0.5/1.5/2mL 4×PCR-8 strips	p.105
High speed Mini Centrifuge		D2012Plus	LCD	15000rpm (15100×g)	12×0.2/0.5/1.5/2mL	p.106
		D2012S	LCD	15000rpm (15100×g)	12×0.2/0.5/1.5/2mL	p.107
High speed Refrigerated Micro Centrifuge		D1524R	LCD	15000rpm (21380×g)	24×0.2/0.5/1.5/2mL 36×0.5mL 4×PCR-8 strips 12×5mL (cone bottom) 18×5mL (round bottom)	p.108
High speed Micro Centrifuge		D3024	LCD	15000rpm (21380×g)		p.109
Hematocrit Centrifuge		DM1424	LCD	12000 rpm (13680×g)	24×capillary tubes	p.112
		DM1224	LCD	12000 rpm (13680×g)	24×capillary tubes	p.112
Low-speed Centrifuge		DM0412	LCD	4500rpm (2490×g)	8×15mL 12×1.5-5/7/10mL	p.114
Multi-Purpose low Speed Centrifuge		DM0424	LCD	4000rpm (2500×g)	Angel: 8×15mL Angel: 12×1.5-5/7/10mL Angel: 24×15mL Swing: 6×15mL Swing: 4×50mL	p.116
		DM0408	LED	4000rpm (1900×g)	Angel: 8×15mL Angel: 12×1.5-5/7/10mL	p.116
Low-speed Centrifuge		DM0506	LCD	5000rpm (2600×g)	6×1.5-5/7/10/15mL	p.118
Multi-Purpose Low-speed Centrifuge		DM0636	LCD	6000rpm (4100×g)	60×2mL 18×5mL 30×15mL 8×50mL 12×PCR-8 strips 4×Deep Well Plates 8×PCR Microplate or ELISA Microplate	p.119

# D1012UA

## High Speed Palm Micro Centrifuge

### Applications


This centrifuge is ideal for quick spins, microfiltration of samples, cell separations and many other routine laboratory procedures.

### Features

- Max.Speed 10000rpm (7490xg) ;
- OLED display, may switch speed and time;
- DC motor drive, smooth and quiet operation;
- Safe, endurable and robust rotor with clamp locking design, easy to operate;
- Wide voltage technology: the speed is not affected by voltage fluctuations, high speed accuracy;
- Compatible with 0.5/1.5/2mL×12 tubes+4×PCR8 strips, 0.2mL×44 PCR tubes;
- Screen buttons can adjust the start/stop of the motor, supports both soft braking and instant stop modes;
- Simple appearance and structure, only weight 1.5Kg;



SA02P2	Cat.No.19400132
0.2mL rotor adapter Used with FA12-2P rotor 12pcs/pk	

SA05P2	Cat.No.19400133
0.5mL rotor adapter Used with FA12-2P rotor 12pcs/pk	

Specifications	D1012UA
Speed Range	2000-10000rpm, increment:1000rpm
Max.RCF	6708×g-1.5/2mL; 6596-7490×g-PCR8 strips;
Rotor Capacity	0.2mL×44 PCR tubes 0.5/1.5/2mL×12+ 0.2mLPCR 8 strips×4
Run Time	10s-20min
Display	OLED
Acceleration/Deceleration	1 ↑ / 2 ↓
Driving Motor	DC motor
Power	AC100-240V/50Hz/60Hz 40W
Noise Level	≤58dB
Dimension (D x W x H)	210×180×130mm
Weight	1.5kg



# D1008

## Palm Micro Centrifuge



## Applications

This centrifuge is ideal for quick spins, microfiltration of samples, cell separations and many other routine laboratory procedures.

## Features

- Easy to operate with dual start/stop function – Close lid for a spin speed up to 7000 rpm
- Smooth and quiet operation (noise level  $\leq 45\text{dB}$ )
- Accelerates and brakes in seconds
- Safe, durable and robust rotor with clamp locking design
- Compatible with 2mLx8 and PCR8x4 rotors
- Quick-change rotor without any tool

Specifications	D1008
Max. Speed	7000rpm
Max. RCF	2680×g
Rotor Capacity	0.2/0.5/1.5/2mL×8 0.2mL×32PCR tubes 0.2mL×4PCR8-strips
Run Time	Continuous operation
Driving Motor	DC motor
Power Requirements	AC100-240V/50Hz/60Hz 20W
Noise Level	$\leq 45\text{dB}$
Dimension [D×W×H]	160x170x122mm
Weight	0.5kg

## Available rotors

### A4-PCR8P

Cat.No.19201165

Max. speed:7000rpm  
Max. RCF:2680×g  
Rotor capacity:  
0.2mL×32PCR tubes,  
0.2mL×4PCR8-strips  
Rotor material: High strength plastic



### A8-2P

Cat.No.19201164

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



## Available adapters

### SA02P2

Cat.No.19400029

0.2mL rotor adapter  
Used with A8-2P rotor  
8pcs/pk



### SA05P2

Cat.No.19400026

0.5mL rotor adapter  
Used with A8-2P rotor  
8pcs/pk



Quiet operation



Vibration free

# D2012 Plus

## High Speed Mini Centrifuge

### Features

- Pulse operation for fast and convenient quick spins
- Speed up to 15000rpm (15100×g)
- Brushless DC motor drive quickly to the target speed
- Smooth and quiet operation (noise ≤54dB)
- Automatic lid-lock and over-speed detection
- Passed rigorous explosion-proof test, certified with CE, cTUVus, FCC



Brushless DC motor



LCD display

### Applications

Microcentrifuges are mainly used in molecular biology laboratories for Plasmid extraction; Nucleic acid purification; Pre-sequencing processing and other applications including extracting of DNA/RNA samples, sedimentation biological components, biochemical and chemical analyses of microsamples.

### Available rotors



Specifications	D2012 plus
Max. Speed	15000rpm(500-15000rpm), increment: 100rpm
Max. RCF	15100×g, increment: 100×g
Speed Accuracy	±20rpm
Rotor Capacity	0.2mL/0.5mL/1.5mL/2mL×12
Run Time	30sec-99min/Continuous
Acceleration/Braking time	11s ↑ /9s ↓
Driving Motor	Brushless DC motor
Safety Devices	Door interlock, Over-speed detection, Over-temperature detection, Automatic internal diagnosis
Power Requirements	Single-phase, AC100V-240V, 50Hz/60Hz, 3A100W
Noise level	≤54dB
Dimension[D×W×H]	255×245×140mm
Weight	6kg
Other functions	Speed/RCF switch, Short-time run function, sound-alert function

#### A12-2P

Cat.NO.19400010

#### for D2012plus only

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



### Available adapters

#### A02P2

Cat. No.19500001

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



#### A05P2

Cat. No.19500002

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



# D2012S

## High Speed Mini Centrifuge

### Features

- Pulse operation for fast and convenient quick spins;
- Speed up to 15000rpm (15100xg) ;
- Brushless DC motor drive quickly to the target speed;
- Smooth and quiet operation (noise $\leq$ 65dB) ;
- Automatic door lock and over-speed detection ;
- Wide voltage technology:  
speed is not affected by voltage fluctuations, high speed accuracy;



### Applications

Microcentrifuges are mainly used in molecular biology laboratories for plasmid extraction; Nucleic acid purification; Pre-sequencing processing and other applications including extracting of DNA/RNA samples, sedimentation biological components, biochemical and chemical analyses of microsamples.

Specifications	D2012S
Max.Speed	15000rpm (300-15000rpm), increment:100rpm
Max.RCF	15100xg
Speed Accuracy	$\pm 20$ rpm
Rotor Capacity	0.2/0.5/1.5/2mL $\times 12$ ;
Run Time	30s-99min
Driving Motor	Brushless DC motor
Safety Devices	Door interlock, over-speed detection, over-temperature detection, automatic internal diagnosis
Display	LCD
Power	100~240 V, 50/60 Hz; 70W
Noise Level	$\leq 65$ dB
Dimension (D x W x H)	272mm $\times$ 260mm $\times$ 154mm
Weight	6.2Kg
Other functions	Speed/RCF switch, short-time run function, sound-alert function



# D1524R

## High-speed Refrigerated Micro Centrifuge



## Applications

Ideal for centrifugation of temperature sensitive samples, such as live cells, animals or proteins. It allows them to be used in a multitude of applications, including pelleting of DNA and RNA samples, pelleting of PCR amplified nucleic acids, separation of antibody and protein precipitates, performing enzymatic tests, removing cell debris from cell homogenates, and achieving bacterial and yeast cell fractionation.



## Features

- Electronic Magnetic door locking system - the lid can be closed with one hand soft touch
- Precooling, the compressor automatically starts cooling as long as the set temperature is lower than the ambient temperature
- Sound indicator at the end of running.
- Temperature range -20°C to 40°C
- Short pre-cooling time of only 7minutes from room temperature to 4°C
- Up to 9 program storage capacity
- 3-layer sealed rotors ensure safe centrifugation
- High-strength aluminum alloy rotor can be fully autoclavable at 121°C
- Rotor imbalance detection alarm
- Adjustable acceleration/deceleration at 9 levels allows gentle braking at low speed for better separation
- 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 centrifuge chamber

Specifications	D1524R
Max. Speed	15,000rpm (200-15,000rpm) in 100rpm increments.
Max. RCF	21,380 × g, step: 10 × g
Capacity	1.5/2mL × 24, 0.2/0.5mL × 36, PCR-8 strips × 4, 5mL × 12, 5mL × 18
Temperature setting	-20°C - 40°C
Run Time	30s-99 min; HOLD (continuous running)
Acceleration and deceleration time	25s ↑ 25s ↓
Motor Type	Brushless DC motor
Safety Performance	Dual door lock, over-speed detection, over-temperature detection with Internal diagnosis system.
Power Requirements	Single-phase, 100-120V/200-240V, 50Hz/60Hz.500W
Noise Level	≤56dB
Dimensions[WxDxH]	332 × 553 × 283mm
Weight	30kg
Other functions	Rotation speed/RCF switchover, inching operation, running processindicator, sound alert. Adjustable acceleration/deceleration at 9 levels program storage capacity.

# D3024

## High Speed Micro Centrifuge

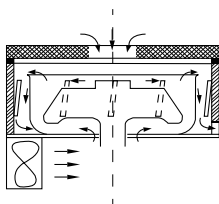


Brushless DC motor



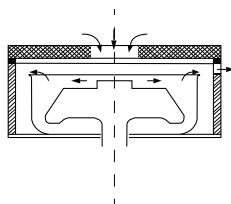
Wide range of rotors

### Effective Ventilation System



Double cooling air design, enforcing air cooling from both the upper and lower side for the rotor.

### Conventional design



Limited ventilation on the upper side of the rotor

## Features

- Double cooling air design ensures fast cooling of the rotor and low energy consumption
- 3-layer sealed rotors ensure safe centrifugation
- Brushless motor drive, maintenance free
- Safety features include door interlock; excessive speed and temperature detection; automatic self-diagnostics
- Outstanding aluminum alloy rotors fully autoclavable at 121°C temperature and high pressure disinfection
- Five rotors are optional complete with 24 places 1.5/2.0mL tubes, 5.0mL, 0.2mL and 0.5mL tubes with adapters

## Applications

Suitable for numerous biological, chemistry, clinical and research applications including molecular biology, clinical chemistry labs, wide variety of microbiology applications, such as DNA, RNA or protein isolation and many more.

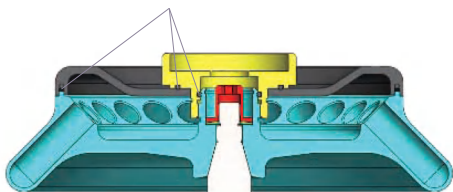


DLAB rotors are manufactured from military-industrialgrade aluminum alloy with high mechanical strength for precise running and safety (excludes D2012 plus rotor)

- Every rotor can reach a maximum 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
- D3024 & D1524R rotors have passed MCA test according to IEC/EN61010-2-20, including mechanical safety and bio-safety tests
- Powerful cooling system minimizes rotor heating. D3024 rotors maintain at 10°C and D1524R rotors less than 8°C after running an hour

### Seals within the aluminum alloy rotor

Three rubber seals fitted to achieve bio-safe condition



## Rotor Features

### Fully autoclavable

High strength aluminum alloy rotors are fully autoclavable, withstanding steam sterilizing at 121°C for 20 minutes

### Three-layer seal

D3024 & D1524R rotors are designed to prevent sample leakage. Each and every rotor is hermetically sealed by three rubber seals.

### Mechanical safety

DLAB centrifuges confirm to MCA standard IEC/EN61010-2-20, causing disruption by partially cutting and overloading rotor assembly, and guarantees that no part shall be detached to cause danger to person or the environment.

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

## Available rotors

### AS24-2 Cat. No.19400069

#### 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

Biosealing: Yes

Available rotor adapters: A02P2, A05P2



### AS18-5 (round bottom) Cat. No.19400073

#### for D3024 & D1524R

Max. speed :15000rpm

Max. RCF:21380 × g

Rotor capacity:5mL × 18 ( Round bottom )

Rotor material:Aluminum alloy

Biosealing:Yes



### AS12-5V (cone bottom) Cat. No.19400070

#### for D3024 & D1524R

Max. speed: 15000rpm

Max. RCF: 21380 × g

Rotor capacity: 5mL × 12 (Cone bottom)

Rotor material: Aluminum alloy

Biosealing: Yes



## Available adapters

### A02P2 Cat. No.19500001

0.2mL rotor adapter

Used with A12-2, A12-2P, AS24-2 and

A24-2P rotors 24pcs/pk



### AS36-05 Cat. No.19400071

#### for D3024 & D1524R

Max. speed: 15000rpm

Max. RCF: 21380 × g

Rotor capacity: 0.5mL × 36, 0.2mL × 36

Rotor material: Aluminum alloy

Biosealing: Yes

Available rotor adapters: A02P05



### A05P2 Cat. No.19500002

0.5mL rotor adapter

Used with A12-2, A12-2P, AS24-2

and A24-2P rotors

24pcs/pk



### AS4-PCR8 Cat. No.19400072

#### for D3024 & D1524R

Max. speed: 15000rpm

Max. RCF: 21380 × g

Rotor capacity:0.2mL/PCR8 × 4

Rotor material: Aluminum alloy

Biosealing: Yes



### A02P05 Cat. No.19500003

0.2mL rotor adapter

Used with AS36-05 rotor

36pcs/pk



# DM1424

## Hematocrit Centrifuge

### Features

- Speed range of 200-12000 rpm Precise and independent control of speed and time
- Easy operation with intuitive menu and LCD display
- Maintenance-free brushless DC motor
- Pulse operation for fast and convenient quick spins
- Advance features include speed/RCF switch; short-time run function; audible alert function
- Safety features include door interlock, overspeed detector; over-temperature detector; automatic internal diagnosis and automatic rotor identification



# DM1224

## Economical Hematocrit Centrifuge

### Features

- Speed range of 500-12000 rpm
- Precise control of speed and time
- Maintenance-free brushless DC motors
- Door interlock

### Applications

DLAB hematocrit centrifuges are used for determination of erythrocyte fractions in blood as well as micro solution separations. It provides hematocrit values (HCT) for testing in biochemistry, immunity, genetics, blood separation and for general clinical tests for diagnostic purposes and also for dope tests. They have special applications for the photometric determination of bilirubin content in neonate blood samples. They are suitable for extraction of DNA and RNA. Veterinary clinics and Vitamins testing for Infants.





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 Requirements	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
Weight	10.5kg	8.5Kg
Advanced features	Speed/RCF switch; Short-time run function; sound-alert function	Speed/RCF switch; Short-time run function; sound-alert function



## Available rotors

AC24

Cat. No.19400047

### DM1424 & DM1224

Max. speed: 12000rpm

Max. RCF: 13680×g

Rotor capacity: capillary tubes x24

Rotor material: High strength aluminum



# DM0412

## Low Speed Centrifuge

### Features

- Easy operation with intuitive menu and easy-to-read display
- Speed can be set in RPM/RCF
- Maintenance-free brushless DC motor
- Quick spin function with press and hold pulse key
- Lid with electric lock and automatic release function
- Automatic lid-lock release after running
- Braking time 2 steps adjustable only for A6-50P rotor
- High strength plastic rotor gives excellent balance to guarantee stable working
- Dual protection housing particularly benefit for safe running
- Gentle braking at low speeds with efficient separation
- CE marked, cTÜVus, and passed explosion-proof test



### Applications

DM0412 is ideal for separation of whole blood components, such as serum, plasma, buffy coat, red blood cells, as well as other bodily fluids.



Specifications	DM0412
Speed Range	300-4500rpm, increment: 100rpm
Max. RCF	2490×g
Speed accuracy	±20rpm
Rotor type	A12-10P, A6-50P
Run Time	30sec-99min HOLD (Continuous operation)
Motor	Brushless DC motor
Display	LCD
Safety Devices	Door interlock, Overspeed detector; Automatic internal diagnosis
Acceleration/Braking time	A12-10P: 20s ↑ 13s ↓ A6-50P: 20s ↑ 20 s /90 s ↓
Power Requirements	Single-phase, 100V-240V, 50Hz/60Hz, 3A70W
Dimension[WxDxH]	354×304×215mm
Weight	6kg
Advanced features	Speed/RCF switch; Short-time run function; sound-alert function

## Available rotors

### A12-10P (round bottom)

Cat. No.19400068

for DM0412 & DM0424 & DM0408

Max. speed: 4500rpm

Max. RCF: 2490×g

Rotor capacity: 8x15mL, 12x10mL

Rotor material: High strength plastic



### A6-50P (round bottom)

Cat. No.19100197

For DM0412(A6-50P)

Max. speed: 4000rpm

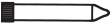





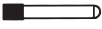
Max. RCF: 1800×g

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 (ØLxmm)	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
4-7mL vacu 	12	13×100	A10P15 	4500	11	2490
		16×75	Plug 		9.8	2218
8.5-10mL vacu 	12	16×107	-	4500	11	2490

# DM0424&DM0408

## Multi-Purpose low Speed Centrifuge

### Features

- Quiet, compact, and convenient with LCD display
- Maximum up to 4000rpm Speed can be set in RPM/RCF, with 3 customizable routine programs (Blood, Urine & Faecal)
- 3 acceleration level & 4 level deceleration
- Maximum capacity 50mL × 4, Accommodating 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

### Applications

Multi-purpose low speed centrifuge are versatile and can be used in applications from clinical to biochemical for qualitative analysis of serum, plasma, blood, and urine.



Specifications	DM0424	DM0408
Speed range	500-4000rpm increment: 100rpm	300-4000rpm increment: 100rpm
Max. RCF	2500 × g	1900 × g
Speed accuracy	± 100rpm	± 100rpm
Rotor	Swing6 × 15mL Swing4 × 50mL Angle 24 × 15mL, Angle 12 × 10mL/8 × 15mL	Angel 8 × 15mL(Default), Angel 12 × 10mL
Run time	1-99min, HOLD	1-99min, HOLD
Motor	Brushless DC motor	Brushless DC motor
Display	LCD	LED
Program	Blood: 3200rpm, 10min. Urine: 1800rpm, 5min. Faecal: 1300rpm, 10min.	Blood: 3200rpm, 10min Urine: 1800rpm, 5min Faecal: 1300rpm, 10min
Safety Device	Automatic internal diagnosis	Automatic internal diagnosis
Acceleration/deceleration	3 ↑ 4 ↓ steps	25s ↑ 35s ↓
Power Requirements	Single phase, 100-240V, 50Hz/60Hz, 110W	Single phase, 100-240V, 50Hz/60Hz, 85W
Dimension(W × D × H)	364 × 440 × 268mm	286 × 367 × 227mm
Weight	14.5kg	9.2kg
Noise Level	≤ 62dB(A)	≤ 60dB(A)

## Available rotors

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

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


**A12-10P**
**Cat.No.19400068**
**for DM0424/DM0408  
 DM0412**

Max. speed : 4000rpm  
 Rotor capacity: 8×15mL or 12×10mL  
 Rotor material: High strength plastic


**S4-50**
**Cat. No.19400100**
**for DM0424**

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



## Available adapters

**A15P30**
**Cat. No.19500024**

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


**A24-15P**
**Cat. No.19400101**
**for DM0424**

Max. speed: 4000rpm  
 Rotor capacity: 15mL×24  
 Rotor material: High strength plastic  
 Default adaptor: A15P22, A5P17


**A15P22**
**Cat. No.19500021**

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


**A5P17**
**Cat. No.19500022**

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


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

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


**A2P17(Optional)**
**Cat. No.19500023**

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



# DM0506

## Low-speed Centrifuge



### Available adapters

#### A5P17 Cat. No.19500022

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



#### A2P17 Cat. No.19500023

1.5/2mL Cryogenic Vials/ centrifuge tube adapter



## Features

- Speed range from 300-5000 rpm
- Set and displayed by RPM or G-force
- Two programs P1/P2, easy to start the procedure by one key
- Two deceleration speeds setting to meet different requirements
- Easy-to-read LCD display and sound alert
- Automatic lid-lock release after running
- Maintenance-free brushless DC motor

## Applications

DM0506 is 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.

Specifications	DM0506
Speed Range	300-5000rpm, increment:10rpm
Max. RCF	2600×g, increment: 10×g
Speed accuracy	±20rpm
Rotor type	6x15mL/10mL/7mL/1.5-5mL
Run Time	30sec-99min, HD (continuous running)
Display	LCD
Preloaded Program	P1/P2
Acceleration/Deceleration	1 ↑ 2 ↓
Safety Devices	Door interlock, Overspeed detector, Automatic internal diagnosis
Motor	Brushless DC motor
Power Requirements	Single-phase, 100V-240V, 50Hz/60Hz, 70W
Dimension[WxDxH]	300X240X180mm
Weight	5.2kg
Advanced features	Speed/RCF switch; sound-alert function

# DM0636

## Multi-Purpose Low-speed Centrifuge

### Features

- Speed from 300-6000 rpm
- Maximum capacity : 100 mLx4
- 9 Acceleration/10 Brake speed settings to ensure optimal separation
- A wide range of rotors optional(fixed angle and swing-out rotors)
- Automatic rotor identification
- Pulse Key for quick spin
- 9 procedures stored in memory makes the operation much simplified
- Maintenance-free brushless DC motor
- Suitable for tubes with caps, blood collection or urine tubes
- Comprehensive and versatile range of accessories



Specifications	DM0636
Speed Range	300-6000rpm increment:10rpm
Max. RCF	4100xg
Speed accuracy	±20rpm
Max. Capacity	100mLx4
Run Time	30sec-99mins/continuous
Motor	Brushless DC motor
Display	LCD
Program Memory	9
Safety Devices	Door Imbalance protection Over speed & Over temperature detection
Acceleration/Deceleration	9 ↑ /10 ↓ steps
Power Requirements	400W; Single-phase AC220V-240V, 50Hz/60Hz, 6.3A; AC110V-120V,50Hz/60Hz,10A
Noise Level	≤65dB
Dimension[WxDxH]	570 × 445 × 295mm
Weight	36kg
Advanced features	speed/rcf switch; Rotor identification

### Applications

DM0636 is ideal for chemistry, cytology, research laboratories, industrial laboratories and other. This is suitable for tubes with caps, blood collection or urine tubes. Swing-out rotors and adapters can be compatible with standard tubes up to 100mL at low speed.







## Available rotors

### S2-MP

Cat. No.19400062

#### 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



### AS6-50V (cone bottom)

Cat. No.19400038

#### DM0636

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



### AS12-PCR8

Cat. No.19400036

#### DM0636

Max. speed: 6000rpm  
Max. RCF: 4020×g  
Rotor capacity: PCR 8 trips×12  
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



### AS30-2

Cat. No.19400034

#### DM0636

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



### A8-50 (round bottom)

Cat. No.19400039

#### DM0636

Max. speed: 5000rpm  
Max. RCF: 3960×g  
Rotor capacity: 50mL×8 or  
15mL×16  
Rotor material: aluminum body  
and stainless steel adapter  
Default adapters: SE100P31x8, SE100P17x16



### AS60-2

Cat. No.19400037

#### DM0636

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



### A30-15 (round bottom)

Cat. No.19400040

#### DM0636

Max. speed: 4500rpm  
Max. RCF: 3210×g  
Rotor capacity: 15mL×30  
Rotor material: aluminum body and  
stainless steel  
adapter






**Mixing**

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

Series	Image	Model	Speed Range	Working mode	Capacity	Page
Vortex Mixer		MX-S	0~3000rpm	Orbital (touch + continuous modes)	-	p.125
		MX-F	3000rpm (fixed)	Orbital (touch + continuous modes)	-	p.128
		MX-E	3000rpm (fixed)	Orbital (touch mode)	-	p.129
Cell disruptor		MX-C	0~3000rpm	Orbital (touch + continuous modes)	8x2mL	p.130
Microplate Mixer		MX-M	0~1500rpm	Orbital (continuous mode)	0.5Kg	p.131
Disk Rotator		MX-RD-Pro	10~70rpm	360° rolling (timer + continuous)	60x1.5mL, 16x15mL, 8x50mL, (available for 3 layers)	p.133
Rotisserie Rotator		MX-RL-Pro	10~70rpm	360° rolling (timer + continuous)	48x1.5mL, 24x15mL, 24x50mL	p.134
Disk Rotator		MX-RD-E	0~80rpm	360° rolling (continuous)	48x2mL, 16x15mL, 8x50mL	p.136
Rotisserie Rotator		MX-RL-E	0~80rpm	360° rolling (continuous)	32x2mL, 20x15mL, 16x50mL	p.137
Rocking Rotator		SK-R30S-E	0~30rpm	30±3° rocking (continuous)	10x10mL, 4x50mL	p.138
		SK-R30L-E	0~30rpm	30±3° rocking (continuous)	16x10mL 6x50mL	p.138
		SK-R30D-E	0~30rpm	40±3° rocking (continuous)	32x10mL, 12x50mL	p.138
Roller Mixer		MX-T6-Pro	0~70rpm	360° rocking&rolling (timer + continuous)	4Kg	p.139
		MX-T6-S+	0~70rpm	360° rocking&rolling (continuous)	4Kg	p.139

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		SK-O330-Pro	32x32cm	LCD	100-500rpm	7.5Kg	p.140
		SK-O180-Pro	25x24.5cm	LCD	100-800rpm	2.5Kg	p.140
		SK-O330-M	33.5x33.5cm	LCD	70-400rpm	3Kg	p.141
		SK-O180-S	26.8X26.8cm	LED	40-200rpm	2Kg	p.141
Linear Shaker		SK-L330-Pro	32x32cm	LCD	100-350rpm	7.5Kg	p.143
		SK-L180-Pro	25x24.5cm	LCD	100-350rpm	2.5Kg	p.144
		SK-L180-S	26.8X26.8cm	LED	40-200rpm	2Kg	p.144
Rocking Shaker		SK-R330-Pro	30x28.5cm	LCD	10-70rpm	10Kg	p.145
		SK-R1807-S	26.8x26.8cm	LED	10-80rpm	2Kg	p.145
3D Shaker		SK-D3309-Pro	30x28.5cm	LCD	10-70rpm	5Kg	p.147
		SK-D1810-S	26.8X26.8cm	LED	10-80rpm	2Kg	p.147

# MX-S

## Variable speed Vortex Mixer

### Features

- Variable speed of 0 to 3,000rpm for gentle shaking to rapid mixing of samples
- Touch or continuous operation mode
- Includes a standard top head for mixing a single test tube or other small vessel up to 30mm in diameter
- Electronic speed control maintains constant speed even during changes in load
- Steel base with specially designed vacuum suction feet provides stability and dampens vibration
- Robust aluminum-cast construction



#### VT1.1 Standard top(Default) Cat. No.18900034

for <Ø30mm tubes and small vessels



Specifications	MX-S (Adjustable speed)
Voltage,Frequency	100-120V/200-240V,50/60Hz
Power	60W
Mixing motion	Orbital
Orbital diameter	4mm
Motor type	Shaded pole motor
Motor rating input	58W
Motor rating output	10W
Speed range	0-3000rpm
Speed display	Scale
Run type	Touch operation/Continuous
Dimension[W×H×D]	127×130×160mm
Weight	2.0kg
Permissible ambient temperature	5-40°C
Permissible relative humidity	80%RH
Protection class	IP20



<b>VT1.3.1 tube adapter</b>	<b>Cat. No.18900020</b>	<b>VT1.3.10 tube adapter</b>	<b>Cat. No.18900855</b>
for 48 test tubes, Ø6mm (1mL)		for 4 holes test tubes, Ø28mm (50mL)	
<b>VT1.3.2 tube adapter</b>	<b>Cat. No.18900021</b>	<b>VT1.3.11 Tube adapter</b>	<b>Cat. No.18900862</b>
for 15 test tubes, Ø10mm (1.5-2mL)		12XØ9.8mm+12XØ6.6mm+12XØ5mm (1.5/2.0/0.5/0.2mL)	
<b>VT1.3.3 tube adapter</b>	<b>Cat. No.18900022</b>	<b>VT1.2 Tube holding rod</b>	<b>Cat. No.18900044</b>
for 16 test tubes, Ø12mm (5mL)		used with tube adapters	
<b>VT1.3.4 tube adapter</b>	<b>Cat. No.18900023</b>	<b>VT1.3 Universal top plate</b>	<b>Cat. No.18900505</b>
for 8 test tubes, Ø16mm (10mL)		Ø 100mm Includes 4 vacuum chuck	
<b>VT1.3.5 tube adapter</b>	<b>Cat. No.18900024</b>	<b>PS1.0 Microplate clamp</b>	<b>Cat. No.18204342</b>
for 8 test tubes, Ø20mm (10-15mL)		Includes rectangle PCR tube adapter	
<b>VT1.3.6 Platform pad</b>	<b>Cat. No.18900043</b>	<b>VT1.3.12 Large Platform Multi-Specimen Test Tube Adapter</b>	<b>Cat. No.18900875</b>
Ø99mm, multiple small tubes and vessels		44 holesXØ5mm+55 holesXØ6.6mm+30 holesXØ9.8mm (1.5/2.0/0.5/0.2mL)	
<b>VT1.3.7 vacuum chuck</b>	<b>Cat. No.18900158</b>	<b>VT1.4 Ampule/Tube Attachment</b>	<b>Cat. No.18204566</b>
made of rubber		4pc ampule/tube (0.2mL-15mL)	
<b>VT1.3.8 tube adapter</b>	<b>Cat. No.18900395</b>	<b>VT1.5 Erlenmeyer flask attachment</b>	<b>Cat. No.18204561</b>
for 24 holes test tubes, Ø 10mm (1.5-2mL)		100mL-250mL, Operating speed: 0~1500rpm	
<b>VT1.3.9 PCR tube adapter</b>	<b>Cat. No.18204185</b>		
for 56 test PCR tubes, strips of 8, Ø5mm (0.1mL-0.5mL)			





## Application of accessories

Accessories	Adjustable speed model (0-2500rpm)	
	Touch mode (High speed area)	Continuous mode (Low speed area)
VT1.1	Y	Y
VT1.2 + VT1.3.1	Y	
VT1.2 + VT1.3.2	Y	
VT1.2 + VT1.3.3	Y	
VT1.2 + VT1.3.4	Y	
VT1.2 + VT1.3.5	Y	
VT1.3 + VT1.3.6	Y	
VT1.3 + VT1.3.1		Y
VT1.3 + VT1.3.2		Y
VT1.3 + VT1.3.3		Y
VT1.3 + VT1.3.4		Y
VT1.3 + VT1.3.5		Y

# MX-F

## Fixed speed Vortex Mixer

### Applications

Vortex mixers are ideal for mixing liquid components in tubes, resuspension of cells, using an eccentric mechanism. They are widely used in clinical labs performing virus diagnostic tests and in biological & chemical analysis applications.

It is perfect for mixing high-viscosity materials, such as waxes and slurries; to mix battery slurries, paints, pharmaceuticals and more.



#### VT1.1 Standard top(Default) Cat. No.18900034

for <Ø30mm tubes and small vessels



Specifications	MX-F (Fixed speed)
Voltage,Frequency	100-120V/200-240V,50/60Hz
Power	60W
Mixing motion	Orbital
Orbital diameter	4mm
Motor type	Shaded pole motor
Motor rating input	58W
Motor rating output	10W
Speed range	3000rpm
Speed display	-
Run type	Touch operation/Continuous
Dimension[W×H×D]	127×130×160mm
Weight	2.0kg
Permissible ambient temperature	5-40°C
Permissible relative humidity	80%RH
Protection class	IP20





# MX-E

## Economic Vortex Mixer



## Features

- Compact , portable and fits nicely on bench-top (erase desktops and table tops)
- Touch operation, Fixed speed of 3,000rpm for rapid mixing of samples
- Powerful and efficient 12V DC brushless motor is smooth operation and has long life
- Foot pad design secures the mixer in place and does not wobble during operation

## Applications

Used to rapidly mix small samples of liquids for lab researches or other works like to mix Nail Polish, Gel Polish, Eyelash Adhesives acrylic paint, tattoo ink and so on.

Specifications	MX-E
Voltage	100-240V
Frequency	50/60Hz
Power	12W
Mixing motion	Orbital
Revolving diameter	4.8mm
Motor rating output	10W
Rotational speed	3000rpm
Operating mode	Touch Operation
External dimension	133X133X80mm
Dimension of packing box	250X185X130mm
Weight	0.6kg
Permissible ambient temperature	5-40°C
Permissible relative humidity	≤80%RH
Protection class	IP21



# MX-C

## Cell Disruptor

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	4mm
Speed range	0-3000rpm (Adjustable)
Speed display	Scale
Capacity	8×2mL
Power Requirements	200-240V/ 100-120V, 50/60 Hz, 60W
Dimension	127X130X160mm
Weight	2.0kg



## Features

- Durable, reliable and affordable
- Easy to operate, rapid hands-free disruption of up to 8 microtubes
- Processes at a constant, controlled shear rate
- Maintains genome integrity of the biological samples
- Facilitates subsequent purification of genomic material
- Best suited for research laboratories demanding accurate, reproducible, repeatable results

## Applications

Suitable for all sample types; Lysis of yeast and fungi; for Isolation of genomic material from faecal samples; fungi and bacteria samples; soil samples; 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.

# MX-M

## Microplate Mixer

### Features

- Wide range of speed from 0 to 1,500 rpm (Double microplate: 0-1,000 rpm)
- Excellent performance with electronic speed control
- High speed and effective mixing for microplates
- With adapters for most popular vessels and microtiter plates
- Used for various mixing applications with optional adapters
- Maintenance-free brushless DC motor



### Applications

DLAB Microplate Mixer is used for holding single or double microplates. The footprint 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



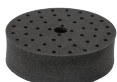
Brushless DC motor



Wide range of accessories

**VT1.3.1 tube adapter****Cat. No.18900020**

for 48 holes test tubes, Ø6mm

**VT1.3.2 tube adapter****Cat. No.18900021**

for 15 holes test tubes, Ø10mm

**VT1.3.3 tube adapter****Cat. No.18900022**

for 12 holes test tubes, Ø12mm

**VT1.3.4 tube adapter****Cat. No.18900023**

for 8 holes test tubes, Ø16mm

**VT1.3.5 tube adapter****Cat. No.18900024**

for 8 holes test tubes, Ø20mm

**VT1.3.6 Platform pad****Cat. No.18900043**

Ø99mm, multiple small tubes and vessels

**VT1.3.8 tube adapter****Cat. No.18900395**

for 24 holes test tubes, Ø10mm

**VT1.3.9 PCR tube adapter****Cat. No.18204185**for 56 test PCR tubes, strips of 8 ,  
Ø5mm (0.1mL-0.5mL)**VT1.3.10 tube adapter****Cat. No.18900855**

for 4 holes, Ø28mm (50mL)

**VT1.3.11 Tube adapter****Cat. No.18900862**12XØ9.8mm+12XØ6.6mm+12XØ5mm  
(1.5/2.0/0.5/0.2mL)**VT1.3.12 Large Platform  
Multi-Specimen Test Tube Adapter****Cat. No.18900875**44 holesXØ5mm+55 holesXØ6.6mm+30  
holesXØ9.8mm (1.5/2.0/0.5/0.2mL)**PS1.1 Universal top plate****Cat. No.18900067**

Used with tube adapters

**PS1.2 Single Well Plate Tray Kit****Cat. No.18204340**Work Plate (Suitable for fully-skirted PCR  
plates, cell culture plates, enzyme  
immunoassay plates, and deep-well  
plates. Use with a well plate adapter for  
half-skirted or non-skirted PCR plates.)**PS1.3 Double microplate clamps****Cat. No.18204341**

Double microplate clamps

**Specifications****MX-M**

Shaking movement	Orbital
Orbital diameter	4.5mm
Max. shaking weight (with accessory)	0.5kg
Motor type	Brushless DC motor
Motor rating input	18W
Motor rating output	10W
Speed range	Single microplate: 0-1500rpm Double microplate: 0-1000rpm
Speed display	Scale
Voltage,Frequency	100-240V,50/60Hz
Power	20W
Dimension	260×150×80mm
Weight	3kg
Permissible ambient temperature and humidity	5-40°C,80%RH
Protection class	IP20



# MX-RD-Pro

## LCD Digital Tube Rotator

### Features

- LCD display of speed and time
- Circular rotating action, gives gentle but effective mixing
- Adjustable speed range from 10 to 70 rpm
- Adjustable angle from 0 to 90°
- Brushless motor ideal for extended use, and longer life
- Wide variety of accessories are available

### Applications

Laboratory Tube Rotators are ideal for Biochemistry, Molecular Biology and Clinical applications. Provides a gentle but effective mixing of biological samples in 1.5mL to 50mL micro tubes, used in a variety of applications including immune precipitations, prevention of blood coagulation, latex diagnostics etc.



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

# MX-RL-Pro

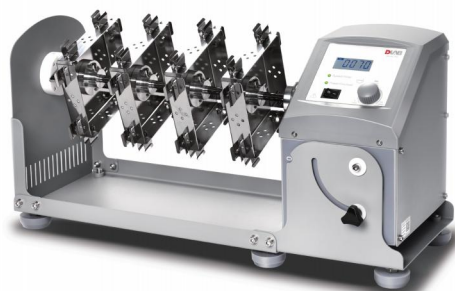
## LCD Digital Tube Rotator, Horizontal

### Features

- LCD displays speed and time
- Adjustable speed range of 10 to 70 rpm
- Provides gentle but effective rolling and mixing
- Can be used in cold rooms or incubators
- Wide variety of Disk accessories and Rotisserie accessories available

### Applications

Laboratory Tube Rotators are ideal for Biochemistry, Molecular Biology and Clinical applications. Provides a gentle but effective mixing of biological samples in 1.5mL to 50mL micro tubes, used in a variety of applications including immune precipitations, prevention of blood coagulation, latex diagnostics etc.



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



**Disk Accessories Type-1 Cat. No.18900160**

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

**Disk Accessories Type-2 Cat. No.18900161**

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

**Disk Accessories Type-3 Cat. No.18900162**

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

**Rotisserie Accessory Type-3 Cat. No.18900144**

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

**Rotisserie Accessory Type-4 Cat. No.18900145**

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

**Disk support rods****Cat. No.18900140**

4pcs in a group  
use with disk accessories

**Rotisserie Accessory Type-1 Cat. No.18900142**

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

**Rotisserie Accessory Type-5 Cat. No.18900146**

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

**Rotisserie Accessory Type-2 Cat. No.18900143**

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

**Rotisserie Accessory Type-6 Cat. No.18900147**

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





# MX-RD-E

**Effective affordable mixing**

## Features

- Speed controlled by Scale
- Adjustable speed range from 0 to 80 rpm

## Applications

Laboratory Tube Rotators are ideal for Biochemistry, Molecular Biology and Clinical applications. Provides a gentle but effective mixing of biological samples in 1.5mL to 50mL micro tubes, used in a variety of applications including immune precipitations, prevention of blood coagulation, latex diagnostics etc.



### Plastic Clips

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



Specifications	MX-RD-E
Motor type	DC motor
Speed range	0-80rpm
Speed display	Scale
Operation mode	Continuous
Voltage,Frequency	100-240V, 50/60Hz
Power	20W
Dimension [D×W×H ]	300×220×310mm
Permissible ambient temperature and humidity	5-40°C,80%RH
Protection class	IP21



# MX-RL-E

## Economical Rotator



## Features

- Provides gentle but effective rolling
- Adjustable speed range from 0 to 80 rpm

## Applications

Rotisserie Horizontal Tube Rotator provides slow to vigorous mixing of your biological samples and solutions with advanced features you expect. Used in a variety of applications including immune precipitations, prevention of blood coagulation, latex diagnostic tests etc. Not recommended for extended use in incubators or cold rooms.

### Plastic Clips

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



Specifications	MX-RL-E
Motor type	DC motor
Speed range	0-80rpm
Speed display	Scale
Operation mode	Continuous
Voltage,Frequency	100-240V, 50/60Hz
Power	20W
Dimension [D×W×H ]	150X530X190mm
Permissible ambient temperature and humidity	5-40°C,80%RH
Protection class	IP21

# Laboratory Deck Rocking Rotator Mixer

## SK-R30S-E

Short Deck Rocking Rotator

## SK-R30L-E

Long Deck Rocking Rotator

## SK-R30D-E

Long Deck Double Layer Rocking Rotator



## Applications

Laboratory Deck Rocking Rotator Mixer is suitable for molecular biology, virology, microbiology, pathology, immunology and other laboratories in scientific research units, medical schools, emergency control centres, and medical and health units.

## Features

- Brushless DC motor
- Continuous mode of operation
- Available with various silicon mattress accessories

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

## Accessories Information



Cat.No.18202835

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



Cat.No.18202846

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



Cat.No.18202852

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



Cat.No.18202853

Silicone mattress for 4× 50mL test tubes on short decks ( SK-R30S-E )

# MX-T6-Pro

## LCD Digital Tube Roller

## Features

- LCD displays the speed and time
- Rocking & rolling at variable-speed
- Adjustable speed range from 10 to 70 rpm
- Six roller design for gentle and efficient rolling, and easy to clean
- DC brushless motor quiet and maintenance free
- Cold room and incubator compatible



LCD display



Timer



# MX-T6-S/S+

## Standard tube roller

## Features

- Adjustable speed range from 0 to 70 rpm
- Six roller design for gentle and efficient rolling, and is easy to clean

## Applications

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

Specifications	MX-T6-Pro	MX-T6-S	MX-T6-S+
Amplitude	24mm	24mm	
Motor type	Brushless DC motor	Brush DC motor	Brushless DC motor
Rocking motion	Rocking and rolling	Rocking and rolling	
Max. load capacity	4kg	4kg	
Number of rollers	6	6	
Roller size[length]	280mm	280mm	
Speed range	10 - 70rpm	0-70rpm	
Speed display	LCD	Scale	
Timer	Yes	-	
Timer display	LCD	-	
Time setting range	1-1199min	-	
Operation mode	Continuous/timer	Continuous	
Voltage,Frequency	100-240V,50/60Hz	100-240V,50/60Hz	
Power	30W	25W	
Dimension [D×W×H]	485×250×100mm	485×250×100mm	
Weight	5.1kg	4.5kg	
Permissible ambient temperature and humidity	5-40°C,80%RH	5-40°C,80%RH	
Protection class	IP21	IP21	

# SK-0330-Pro SK-0180-Pro

## Multifunctional Orbital Decolorizing Shaker

## Features

- Independent LCD display for speed and time
- Compact footprint
- Provides smooth and uniform shaking
- Two options: 7.5 kg (O330) with platform and 2.5kg (O180) with platform speed range 100-500 rpm and 100-800 rpm
- Continuous or timer operation mode
- Maintenance- free brushless DC motor
- Over speed detection and protection
- Wide range of optional platform for flasks, and other popular vessels
- Remote function provides PC control and data transmission
- Free software for PC control & data logging

## Applications

Suitable for mixing in culture dishes, flasks and beakers. Ideal for aeration and extraction applications. It can be used in environmental chambers and CO2 incubators.



**SK-0330-Pro**



**SK-0180-Pro**



Orbital Motion



Specifications	SK-0330-Pro	SK-0180-Pro
Orbital diameter	10mm	4mm
Max. load capacity (with platform)	7.5kg	2.5kg
Motor type	Brushless DC motor	Brushless DC motor
Motor input power	28W	28W
Motor output power	15W	15W
Speed range	100-500rpm	100-800rpm
Speed display	LCD	LCD
Timer display	LCD	LCD
Time settings range	1min-99h59min	1min-99h59min
Voltage,Frequency	100-240V,50/60Hz	100-240V,50/60Hz
Power	30W	30W
Weight	12kg	8.1kg
Permissible ambient temperature and humidity	5-40°C,80%RH	5-40°C,80%RH
Dimension[W×D×H]	370×420×100mm	300×340×100mm
Protection class	IP21	IP20
Data connector	RS232	RS232

## Features

- Double-screen display for time and speed
- respectively
- Compact footprint
- Provides smooth and uniform shaking
- Two options:
  - 9.8kg (O330-M) and speed range 70-400rpm,
  - 3.1kg (O180-S) and speed range 40-200rpm
- Continuous or timer operation mode
- Maintenance- free brushless DC motor
- Over speed detection and protection

## Applications

Orbital Shaker is ideal for applications like bacterial suspension, solubility studies, growth of bacteria and yeast, extraction procedures, washing procedures, diagnostics tests, hybridization, general mixing, staining & destaining, mixing, and extracting.

It is suitable for almost any vessel from micro-centrifuge tubes through petri dishes and microplates to conical flasks.



Orbital Motion

## SK-0330-M

### Orbital Decolorizing Shaker



## SK-0180-S

### Intelligent Decolorizing Shaker





**Basic model (fixed plate)**

**Multifunctional models  
(multiple plate are optional)**

Specifications	SK-O180-S	SK-O330-M
Orbital diameter	20mm	10mm
Max. load capacity (with platform)	2kg	3kg
Motor type	Brushless DC motor	Brushless DC motor
Motor input power	20W	20W
Motor output power	16W	15W
Speed range	40-200rpm	70-400rpm
Speed display	LED	LCD
Timer display	LED	LCD
Time settings range	1min-99h59min	1min-99h59min
Voltage,Frequency	100-240V,50/60Hz	100-240V,50/60Hz
Power	20W	25W
Weight	3.1kg	9.8kg
Permissible ambient temperature and humidity	5-40°C,80%RH	5-40°C,80%RH
Dimension[W×D×H]	294×348×123mm	420×370×100mm
Protection class	IP21	IP21
Work plate Dimension [W x D]	268x268mm	335×335mm

# SK-L330-Pro

## Large Multifunctional Linear Decolorizing Shaker

### Features

- **Efficient Mixing:** Employing a linear reciprocating shaking action ensures thorough and even mixing of samples within containers, enhancing experiment reliability and precision.
- **Versatile Capacity:** Offering two choices with different load capacities, suitable for experiments of various scales and sample handling needs, catering to diverse experimental requirements.
- **User-Friendly Operation:** The device is equipped with an independent LCD display, simultaneously presenting speed and time, facilitating an intuitive operation, allowing you to effortlessly oversee the experimental process.
- **Broad Speed Range:** It encompasses a wide speed range, enabling speed adjustment based on specific experimental demands, ensuring optimal outcomes.
- **Reliability:** Utilizing a maintenance-free brushless DC motor reduces equipment maintenance needs and extends its operational lifespan.
- **Safety Measures:** Featuring over-speed detection and protection functions, guaranteeing the equipment operates safely within prescribed parameters, mitigating potential issues.
- **Diverse Selection:** Providing multiple platform options, accommodating various container types and sizes, augmenting flexibility and diversity.



### Applications

Suitable for mixing in culture dishes, flasks and beakers. Ideal for aeration and extraction applications.

It can be used in environmental chambers and CO2 incubators.



Linear Motion

Specifications	SK-L330-Pro
Amplitude	10mm
Max. load capacity (with platform)	7.5kg
Motor type	Brushless DC motor
Motor input power	28W
Motor output power	15W
Speed range	100-350rpm
Speed display	LCD
Timer display	LCD
Time settings range	1min-99h59min
Voltage,Frequency	100-240V, 50/60Hz
Power	30W
Weight	13.5kg
Permissible ambient temperature and humidity	5-40°C,80%RH
Dimension[W×D×H]	370×420×100mm
Protection class	IP21
Data connector	RS232

# SK-L180-Pro

**Multifunctional Linear Decolorizing Shaker**

# SK-L180-S

**Intelligent Linear Decolorizing Shaker**

## Features

- Ensure uniform mixing to enhance experiment reliability and accuracy
- Provide different load capacities suitable for experiments of varying scales and sample processing, meeting diverse experimental needs.
- Independent display screen, simultaneously showing speed and time, user-friendly operation for easy control of the experiment process.
- Offer a wide range of speed settings that can be adjusted according to specific experimental requirements to ensure optimal results.
- Maintenance-free brushless DC motor for extended lifespan.
- Equipped with safety speed protection features.
- Provide various platform options to accommodate a variety of container types and sizes, increasing flexibility and versatility (SK-L180-Pro) .



**SK-L180-Pro**



**SK-L180-S**

## Applications

Suitable for mixing in culture dishes, flasks and beakers. Ideal for aeration and extraction applications. It can be used in environmental chambers and CO2 incubators.



Linear Motion

Specifications	SK-L180-Pro	SK-L180-S
Amplitude	4mm	20mm
Max. load capacity(with platform)	2.5kg	2kg
Motor type	Brushless DC motor	Brushless DC motor
Speed range	100-350rpm	40-200rpm
Speed display	LCD	LED
Timer display	LCD	LED
Time settings range	1min-99h59min	1min-99h59min
Voltage, Frequency	100-240V, 50/60Hz	100-240V, 50/60Hz
Power	30W	20W
Motor input power	28W	16W
Motor output power	15W	10W
Weight	8.1kg	3.4kg
Permissible ambient temperature and humidity	5-40°C, 80%RH	5-40°C, 80%RH
Dimension[W×D×H]	300X340X100mm	294X348X130mm
Protection class	IP21	IP20
Data connector	RS232	-



# SK-R330-Pro

**Large Multifunctional  
Transference Rocking Shaker**

# SK-R1807-S

**Intelligent Transference  
Decolorizing Shaker**

## Features

- Rocking motion angle 9°(R330-Pro) and 7°(R1807-S)
- Two options:  
10kg (R330-Pro) and speed range 10-70rpm,  
2kg (R1807-S) and speed range 10-80rpm
- Double LCDs/LEDs for independent display of time and speed
- Continuous or timer operation mode
- Electronic time switching clock: 1min-99h59min
- Wide range of platforms for use with a variety of vessels (R330-Pro)
- Fixed work plate (R1807-S)
- Simple appearance, save operating space

## Applications

Designed for time-dependent and low rpm sensitive shaking applications such as ELISA washes, enzyme immunoassays, protein synthesis, hybridization staining/destaining gels, immune precipitation and Western blots, cell culture, pharmaceutical profiling, etc.



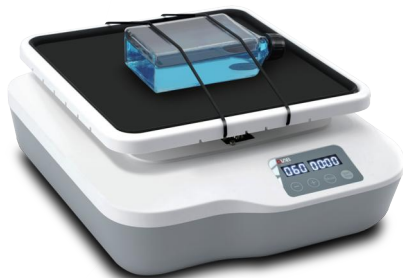
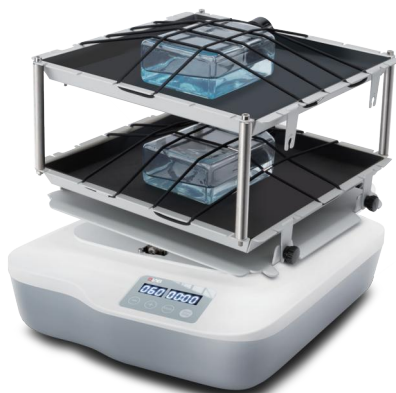
Rocking Motion



**SK-R330-Pro**



**SK-R1807-S**

**SK-R1807-S (fixed plate)****SK-R1807-S (multiple plate are optional)**

Specifications	SK-R330-Pro	SK-R1807-S
Tilt angle	9°	7°
Max. load capacity(with platform)	10kg	2kg
Motor type	DC motor	DC motor
Motor input power	40W	20W
Motor output power	24W	16W
Speed range	10-70rpm	10-80rpm
Speed display	LCD	LED
Timer display	LCD	LED
Time settings range	1min-99h59min	1min-99h59min
Voltage,Frequency	100-240V, 50/60Hz	100-240V, 50/60Hz
Power	50W	20W
Weight	9kg	3.1kg
Permissible ambient temperature and humidity	5-40°C,80%RH	5-40°C,80%RH
Dimension[W×D×H]	360×410×200mm	294×348×123mm
Protection class	IP21	IP21

# SK-D3309-Pro

## Large Multifunctional 3D Shaker

# SK-D1810-S

## Intelligent 3D Shaker

## Features

- Provide a gentle three-dimensional motion shaker at a fixed tilt angle
- Anti slip silicone disc surface, better anti slip effect, and better sample processing effect
- Adjustable rotational mixing speed
- Independent LCD/LED display of time and speed
- Incubator compatible
- Various platform accessories (D3309-Pro)

## Applications

3D shaker used for uniform shaking mixing in flasks, culture flasks, petri dishes and tubes. Ideal for culturing a variety of cell cultures, DNA extractions, distributing of cells and gel staining & destaining of cells.



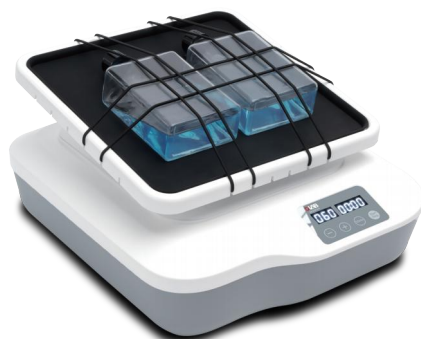
Wide range of accessories



3D Motion
















**SK-D3309-Pro**



**SK-D1810-S**

Specifications	SK-D3309-Pro	SK-D1810-S
Tilt angle	9°	10°
Max. load capacity(with platform)	5kg	2kg
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-99h59min	1min-99h59min
Voltage,Frequency	100-240V, 50/60Hz	100~240V,50/60Hz
Power	50W	20W
Weight	9kg	3.7kg
Permissible ambient temperature and humidity	5-40°C,80%RH	5-40°C,80%RH
Dimension[W×D×H]	360×430×106mm	294X348X170mm
Protection class	IP21	IP21



Cat. No.	Description	SK-0330-Pro	SK-L330-Pro	SK-R330-Pro	SK-D3309-Pro	SK-0330-M	SK-0180-Pro	SK-L180-Pro	SK-0180-S (Multifunc)	SK-R1807-S (Multifunc)
 18900155	SK330.5, Dish platform with non-slip mat and fixed string (8pcs) Dimension[WxD]: 30x28.5cm	■	■	■	■					
 18202835	Silicone mattress for 16 × 5-15mL tubes, use with SK330.5	■	■	■	■					
 18202846	Silicone mattress for 6 × 50mL tubes, use with SK330.5	■	■	■	■					
 18900185	SK180.4, Dish attachment with non-slip mat Dimension[WxD]: 24x21.5cm						■	■	■	■
 18900869	SK330.4 Dish platform with non-slip mat and fixed string(8 pcs), 34X34cm					■				
 18900859	SK330.6 Transparent shield, serologic test for syphilis, 41X39.5X10cm	■	■			■				
 18900860	SK180.5 Transparent Cover for Syphilis Serum Test, 32X32X8.3cm						■	■		
 18202852	Silicone mattress for 10 × 5-10mL tubes						■	■	■	■
 18202853	Silicone mattress for 4 × 50mL tubes						■	■	■	■
 18900027	SK330.1, Universal attachment with 4 bars Size: 32x32cm Capacity for flask: 25mLx21pcs, 50mLx15pcs, 100mLx12pcs, 250mLx6pcs, 500x4pcs	■	■	■	■					
 18900040	SK330.3 Lengthways roller attachment, Mainly used for separation funnel oscillation extraction applications 500mL*3pcs 250mL*4pcs 100/125mL*4pcs 50mL*5pcs	■	■	■	■					
 18900025	SK180.1, Universal attachment with 3 bars Size: 25x24.5cm Capacity for flask: 25mLx10pcs, 50mLx8pcs, 100mLx6pcs, 250mLx4pcs, 500x2pcs						■	■	■	■
 18900038	SK180.3 Lengthways roller attachment, Mainly used for separation funnel oscillation extraction applications 500mL*2pcs 250mL*3pcs 100/125mL*3pcs 50mL*4pcs						■	■	■	■

Cat. No.	Description	SK-O330-Pro	SK-L330-Pro	SK-R330-Pro	SK-D3309-Pro	SK-O330-M	SK-O180-Pro	SK-L180-Pro	SK-O180-S (Multifunc)	SK-R1807-S (Multifunc)
 18900036	Bar for SK330.1 universal attachment	■	■	■	■					
 18900037	Bar for SK180.1 universal attachment						■	■	■	■
 18900280	Connect sticks for double dishes shaker	■	■	■	■	■	■	■	■	■
 18900028	SK330.2, Fixing clip attachment Size: 32 x 32cm	■	■	■	■					
 18900026	SK180.2, Fixing clip attachment Size: 25 x 24cm						■	■	■	■
 18900029	Fixing clip for flask volume 25mL, used with SK330.2[28pcs] SK180.2[9pcs]	■	■	■	■		■	■	■	■
 18900030	Fixing clip for flask volume 50mL, used with SK330.2[16pcs] SK180.2[9pcs]	■	■	■	■		■	■	■	■
 18900031	Fixing clip for flask volume 100mL, used with SK330.2[16pcs] SK180.2 [9pcs]	■	■	■	■		■	■	■	■
 18900032	Fixing clip for flask volume 200/250mL, used with SK330.2[9pcs] SK180.2[4pcs]	■	■	■	■		■	■	■	■
 18900033	Fixing clip for flask volume 500mL, used with SK330.2[9pcs] SK180.2[2pcs]	■	■	■	■		■	■	■	■

# UV-visible spectrophotometer

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



## Features

- The shape is professional, concise, friendly and mellow, and the appearance design conforms to ergonomics. The use of high-quality materials, fine craftsmanship, soft texture, showing a good user experience
- Attention to human-device experience, friendly interactive interface, easy for users to operate and detect
- Up to 128 sets of standard curves and 4000 test data can be saved
- Test data is saved in real time to avoid data loss in case of sudden power failure.
- Automatic wavelength calibration and dark current correction
- It can automatically switch the light source and turn off the corresponding light source, so as to prolong the service life of the light source to the greatest extent.
- The instrument has rich functions and can realize various functional operations, and the host can independently complete photometric measurement and quantitative test, kinetics measurement and other functions
- Can be used with automatic cell holder, film holder, tube rack, constant temperature cell holder, reflectivity accessory, variable optical path sample holder, variable angle solid sample holder and other special accessories
- The computer software is designed with single interface and multiple functions, which has friendly interface, simple operation, rich and powerful functions, and fast response speed. Real-time monitoring data change. The unique shortcut toolbar makes the experimental process clear at a glance, which greatly facilitates the use. And can be extended more application functions, such as wavelength scanning, time scanning (kinetics), multi-wavelength scanning, and DNA/protein detection analysis.

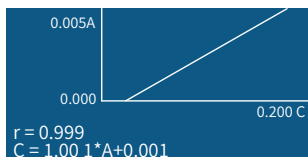
## Applications

The spectrophotometer produced by our company refers to the absorbance or transmittance of a substance at a specific wavelength or within a certain wavelength range, carry out qualitative or quantitative analysis on that substance, as well as kinetic experiments, protein or DNA detection, DNA and RNA quantitative analysis, protein quantitative analysis and other applications. It can be widely used in medicine and health, clinical testing, biochemistry, petrochemical industry, environmental protection testing, food hygiene and quality control. It can also be used as a teaching demonstration and experimental instrument for related courses in colleges and universities.

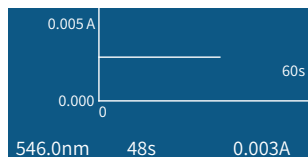
Photometry

546.0nm		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

Quantitation



Kinetics





Model	SP-V1000	SP-UV1000	SP-V1100	SP-UV1100
Optical system	Single Beam	Single Beam	Single Beam	Single Beam
Light source	Tungsten lamp	Tungsten and deuterium lamp	Tungsten lamp	Tungsten and deuterium lamp
Spectral bandwidth	4.0nm	4.0nm	2.0nm	2.0nm
Wavelength range	325-1000nm	200-1000nm	320-1100nm	190-1100nm
Wavelength accuracy	$\pm 2\text{nm}$	$\pm 2\text{nm}$	$\pm 0.5\text{nm}$	$\pm 0.5\text{nm}$
Wavelength repeatability	$\leq 1\text{nm}$	$\leq 1\text{nm}$	$\leq 0.3\text{nm}$	$\leq 0.3\text{nm}$
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	$\pm 0.003\text{A}/0.5\text{A}$ , $\pm 0.006\text{A}/1.0\text{A}$ , $\pm 0.5\%T/100\%T$	$\pm 0.003\text{A}/0.5\text{A}$ , $\pm 0.006\text{A}/1.0\text{A}$ , $\pm 0.5\%T/100\%T$	$\pm 0.002\text{A}/0.5\text{A}$ , $\pm 0.004\text{A}/1.0\text{A}$ , $\pm 0.3\%T/100\%T$	$\pm 0.002\text{A}/0.5\text{A}$ , $\pm 0.004\text{A}/1.0\text{A}$ , $\pm 0.3\%T/100\%T$
Photometric repeatability	$\leq 0.0015\text{A}/0.5\text{A}$ , $\leq 0.003\text{A}/1.0\text{A}$ , $\leq 0.25\%T/100\%T$	$\leq 0.0015\text{A}/0.5\text{A}$ , $\leq 0.003\text{A}/1.0\text{A}$ , $\leq 0.25\%T/100\%T$	$\leq 0.001\text{A}/0.5\text{A}$ , $\leq 0.002\text{A}/1.0\text{A}$ , $\leq 0.15\%T/100\%T$	$\leq 0.001\text{A}/0.5\text{A}$ , $\leq 0.002\text{A}/1.0\text{A}$ , $\leq 0.15\%T/100\%T$
Stability	$\leq 0.002\text{A}/\text{h}/500\text{nm}$ (preheat for 2 hours)	$\leq 0.002\text{A}/\text{h}/500\text{nm}$ (preheat for 2 hours)	$\leq 0.002\text{A}/\text{h}/500\text{nm}$ (preheat for 2 hours)	$\leq 0.002\text{A}/\text{h}/500\text{nm}$ (preheat for 2 hours)
Stray light	$\leq 0.2\%T/360\text{nm}$	$\leq 0.2\%T/360\text{nm}$	$\leq 0.05\%T/360\text{nm}$	$\leq 0.05\%T/(220-360\text{nm})$
Sample room	4-connected cell 10 mm	5-connected cell, 10 mm	4-connected cell 10 mm	5-connected cell 10 mm
Display	LCD	LCD	LCD	LCD
Output	USB port Print port	USB port Print port	USB port Print port	USB port Print port
Power requirements	110/220VAC, 50/60Hz, 80W	110/220VAC, 50/60Hz, 120W	110/220VAC, 50/60Hz, 80W	110/220VAC, 50/60Hz, 120W
Dimensions (L×W×H)	490×360×210mm	490×360×210mm	490×360×210mm	490×360×210mm
Weight	12kg	14kg	12kg	14kg





item No. 18204261

micro-volume cell holder



item No. 18204257

4 position cell holder(100mm)



item No. 18204255

4 position cell holder(10mm)



item No. 18204256

4 position cell holder(10-50mm)



item No. 18204262

Tube rack(ø8-ø22mm)



item No. 18204268 glass  
18204277 quartz

Cuvette glass/quartz



item No. 18204265

Tungsten lamp



item No. 18204266

Deuterium lamp



item No. 18204263

Solid Specimen Holder



item No. 1820434

Bluetooth thermal printer



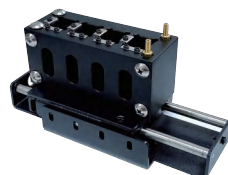
item No. 18204264

4 position cell holder( -10mm)



item No. 18204258

cylindrical cell holder(ø16mm)



item No. 18204260

10mm water-jacketed 4-cell holder  
(for SP-V1100 & SP-UV1100)



# SP-UV2101

## Touch screen single beam Visible spectrophotometer



## Features

- 10.1 inches high resolution TFT colored capacitive touch screen (1024\*600) and windows graphic interface.
- Powerful functions like Photometric measurement, Quantitative measurement, Kinetics, Spectrum scan, DNA\Protein test, multi-wavelength test, etc
- In-house massive memory is capable of saving up to 1024M for test data & working curves.
- Various optional accessories, like automatic cell holder, thermostatic automatic sampler, adjustable micro cell holder, reflection accessory and integrating sphere, etc. which extend the application range of device and combine the requirements of common samples and special ones.
- Supports USB storage. The USB port can be used for data transfer, which is easily exported to Excel for further processing, analysis and storage.
- Socket type deuterium and tungsten lamp can make lamps switching without optics debugging and easy to be replaced.
- Follow GLP/GMP standards, user management, logging, data tracking and exporting, etc. are all available.

Specifications	SP-UV2101
Optical System	Single Beam, Grating 1200 lines/mm
Wavelength Range	190-1100 nm
Spectral Bandwidth	1nm
Wavelength Accuracy	$\pm 0.1\text{nm}@656.1\text{nm}$ , $\pm 0.3\text{nm}@all$
Wavelength Repeatability	$\leq 0.1\text{nm}$
Photometric Accuracy	$0.2\%T(0\sim 100\%T)$ , $\pm 0.002A(0.0\sim 0.5A)$ , $\pm 0.004A(0.5\sim 1A)$
Photometric Repeatability	$\leq 0.15\%T(0\sim 100\%T)$ , $0.001A(0\sim 0.5A)$ , $0.002A(0.5\sim 1A)$
Photometric Range	$0\sim 200\%T$ , $-0.3\sim 3A$ , $0\sim 9999C(0\sim 9999F)$
Stray Light	$\leq 0.03\%T@220\text{nm}$ , $360\text{nm}$
Stability	$\pm 0.0003A/h @ 500\text{ nm}$
Baseline Flatness	$\pm 0.001A$
Noise	$0.0005A@500\text{nm}$
Work Mode	T, A, C, E
Scanning Speed	Hi, Med, Low (Max. 3000nm/min)
Wavelength Setting	Auto
Display	10.1" TFT Colored Capacitive Touch Screen
Light Source	Imported Deuterium & Tungsten lamp
Detector	Imported Silicon Photodiode
Cuvette Holder	10mm manual 4-cell holder
Output	USB drive, USB host, RS232
Power	AC 220V/50Hz or AC 110V/60Hz
Shipping Size	810*660*390mm
Gross Weight	26kg
Standard Accessories	10mm glass cuvette x 4, 10mm quartz cuvette x 2, Power cord, User's Manual, PC software

# SP-UV2102

## Touch screen single beam UV Vis spectrophotometer

### Features

- 10.1 inches high resolution TFT colored capacitive touch screen (1024\*600) and windows graphic interface.
- Powerful functions like Photometric measurement, Quantitative measurement, Kinetics, Spectrum scan, DNA\Protein test, multi-wavelength test, etc
- In-house massive memory is capable of saving up to 1024M for test data & working curves.
- Various optional accessories, like automatic cell holder, thermostatic automatic sampler, adjustable micro cell holder, reflection accessory and integrating sphere, etc. which extend the application range of device and combine the requirements of common samples and special ones.
- Supports USB storage. The USB port can be used for data transfer, which is easily exported to Excel for further processing, analysis and storage.
- Socket type deuterium and tungsten lamp can make lamps switching without optics debugging and easy to be replaced.
- Follow GLP/GMP standards, user management, logging, data tracking and exporting, etc. are all available.



Specifications	SP-UV2102
Optical System	Single Beam, Grating 1200 lines/mm
Wavelength Range	190-1100 nm
Spectral Bandwidth	2nm
Wavelength Accuracy	$\pm 0.1\text{nm}@656.1\text{nm}$ , $\pm 0.3\text{nm}@all$
Wavelength Repeatability	$\leq 0.1\text{nm}$
Photometric Accuracy	$0.2\%T(0\sim 100\%T)$ , $\pm 0.002A(0\sim 0.5A)$ , $\pm 0.004A(0.5\sim 1A)$
Photometric Repeatability	$\leq 0.15\%T(0\sim 100\%T)$ , $0.001A(0\sim 0.5A)$ , $0.002A(0.5\sim 1A)$
Photometric Range	$0\sim 200\%T$ , $-0.3\sim 3A$ , $0\sim 9999C(0\sim 9999F)$
Stray Light	$\leq 0.03\%T@220\text{nm}$ , $360\text{nm}$
Stability	$\pm 0.0003A/h @500\text{nm}$
Baseline Flatness	$\pm 0.001A$
Noise	$0.0005A@500\text{nm}$
Work Mode	T, A, C, E
Scanning Speed	Hi, Med, Low (Max. 3000nm/min)
Wavelength Setting	Auto
Display	10.1" TFT Colored Capacitive Touch Screen
Light Source	Imported Deuterium & Tungsten lamp
Detector	Imported Silicon Photodiode
Cuvette Holder	10mm manual 4-cell holder
Output	USB drive, USB host, RS232
Power	AC 220V/50Hz or AC 110V/60Hz
Shipping Size	810*660*390mm
Gross Weight	26kg
Standard Accessories	10mm glass cuvette x 4, 10mm quartz cuvette x 2, Power cord, User's Manual, PC software

# SP-UV3101

## Touch screen double beam UV Vis spectrophotometer



## Features

- 10.1 inches high resolution TFT colored capacitive touch screen (1024\*600) and windows graphic interface.
- Powerful functions like Photometric measurement, Quantitative measurement, Kinetics, Spectrum scan, DNA\Protein test, multi-wavelength test, etc
- In-house massive memory is capable of saving up to 1024M for test data & working curves.
- Various optional accessories, like automatic cell holder, thermostatic automatic sampler, adjustable micro cell holder, reflection accessory and integrating sphere, etc. which extend the application range of device and combine the requirements of common samples and special ones.
- Supports USB storage. The USB port can be used for data transfer, which is easily exported to Excel for further processing, analysis and storage.
- Socket type deuterium and tungsten lamp can make lamps switching without optics debugging and easy to be replaced.
- Follow GLP/GMP standards, user management, logging, data tracking and exporting, etc. are all available.

Specifications	SP-UV3101
Optical System	Double Beam, Grating 1200 lines/mm
Wavelength Range	190-1100 nm
Spectral Bandwidth	1nm
Wavelength Accuracy	$\pm 0.1\text{nm}@656.1\text{nm}$ , $\pm 0.3\text{nm}@all$
Wavelength Repeatability	$\leq 0.1\text{nm}$
Photometric Accuracy	$0.2\%T(0\sim 100\%T)$ , $\pm 0.002A(0\sim 0.5A)$ , $\pm 0.004A(0.5\sim 1A)$
Photometric Repeatability	$\leq 0.15\%T(0\sim 100\%T)$ , $0.001A(0\sim 0.5A)$ , $0.002A(0.5\sim 1A)$
Photometric Range	$0\sim 200\%T$ , $-0.3\sim -3A$ , $0\sim 9999C(0\sim 9999F)$
Stray Light	$\leq 0.03\%T@220\text{nm}$ , $360\text{nm}$
Stability	$\pm 0.0003A/h@500\text{nm}$
Baseline Flatness	$\pm 0.001A$
Noise	$0.0005A@500\text{nm}$
Work Mode	T, A, C, E
Scanning Speed	Hi, Med, Low (Max. 3000nm/min)
Wavelength Setting	Auto
Display	10.1" TFT Colored Capacitive Touch Screen
Light Source	Imported Deuterium & Tungsten lamp
Detector	Imported Silicon Photodiode
Cuvette Holder	10mm manual 4-cell holder
Output	USB drive, USB host, RS232
Power	AC 220V/50Hz or AC 110V/60Hz
Shipping Size	810*660*390mm
Gross Weight	27kg
Standard Accessories	10mm glass cuvette x 4, 10mm quartz cuvette x 2, Power cord, User's Manual, PC software

# SP-UV3102

## Touch screen double beam UV Vis spectrophotometer



## Features

- 10.1 inches high resolution TFT colored capacitive touch screen (1024\*600) and windows graphic interface.
- Powerful functions like Photometric measurement, Quantitative measurement, Kinetics, Spectrum scan, DNA\Protein test, multi-wavelength test, etc
- In-house massive memory is capable of saving up to 1024M for test data & working curves.
- Various optional accessories, like automatic cell holder, thermostatic automatic sampler, adjustable micro cell holder, reflection accessory and integrating sphere, etc. which extend the application range of device and combine the requirements of common samples and special ones.
- Supports USB storage. The USB port can be used for data transfer, which is easily exported to Excel for further processing, analysis and storage.
- Socket type deuterium and tungsten lamp can make lamps switching without optics debugging and easy to be replaced.
- Follow GLP/GMP standards, user management, logging, data tracking and exporting, etc. are all available.

Specifications	SP-UV3102
Optical System	Double Beam, Grating 1200 lines/mm
Wavelength Range	190-1100 nm
Spectral Bandwidth	2nm
Wavelength Accuracy	±0.1nm@656.1nm, ±0.3nm@all
Wavelength Repeatability	≤0.1nm
Photometric Accuracy	0.2%T(0-100%T), ±0.002A(0-0.5A), ±0.004A(0.5-1A)
Photometric Repeatability	≤0.15%T(0-100%T), 0.001A(0-0.5A), 0.002A(0.5-1A)
Photometric Range	0-200%T, -0.3-3A, 0-9999C(0-9999F)
Stray Light	≤0.03%T@220nm, 360nm
Stability	±0.0003A/h @500 nm
Baseline Flatness	±0.001A
Noise	0.0005A@500nm
Work Mode	T, A, C, E
Scanning Speed	Hi, Med, Low (Max. 3000nm/min)
Wavelength Setting	Auto
Display	10.1" TFT Colored Capacitive Touch Screen
Light Source	Imported Deuterium & Tungsten lamp
Detector	Imported Silicon Photodiode
Cuvette Holder	10mm manual 4-cell holder
Output	USB drive, USB host, RS232
Power	AC 220V/50Hz or AC 110V/60Hz
Shipping Size	810*660*390mm
Gross Weight	27kg
Standard Accessories	10mm glass cuvette x 4, 10mm quartz cuvette x 2, Power cord, User's Manual, PC software

# SP-XUV5101

## Touch screen xenon lamp double beam UV Vis spectrophotometer

### Features

- 10.1 inches high resolution TFT colored capacitive touch screen (1024\*600) and windows graphic interface.
- Powerful functions like Photometric measurement, Quantitative measurement, Kinetics, Spectrum scan, DNA\Protein test, multi-wavelength test, etc
- In-house massive memory is capable of saving up to 1024M for test data & working curves.
- Various optional accessories, like automatic cell holder, thermostatic automatic sampler, adjustable micro cell holder, reflection accessory and integrating sphere, etc. which extend the application range of device and combine the requirements of common samples and special ones.
- Supports USB storage. The USB port can be used for data transfer, which is easily exported to Excel for further processing, analysis and storage.
- Socket type deuterium and tungsten lamp can make lamps switching without optics debugging and easy to be replaced.
- Xenon lamp light source with extra-long service life saves you the trouble of changing lamps;
- Follow GLP/GMP standards, user management, logging, data tracking and exporting, etc. are all available.



Specifications	SP-XUV5101
Optical System	Double Beam, Grating 1200 lines/mm
Wavelength Range	190-1100 nm
Spectral Bandwidth	1nm
Wavelength Accuracy	±0.1nm@656.1nm, ±0.3nm@all
Wavelength Repeatability	≤0.1nm
Photometric Accuracy	0.2%T(0~100%T), ±0.002A(0-0.5A), ±0.004A(0.5-1A)
Photometric Repeatability	≤0.15%T (0-100%T), 0.001A(0-0.5A), 0.002A(0.5-1A)
Photometric Range	0-200%T, -0.3~3A, 0-9999C (0-9999F)
Stray Light	≤0.03%T@220nm, 360nm
Stability	±0.0003A/h @500 nm
Baseline Flatness	±0.001A
Noise	0.0005A@500nm
Work Mode	T, A, C, E
Scanning Speed	Hi, Med, Low (Max. 3000nm/min)
Wavelength Setting	Auto
Display	10.1" TFT Colored Capacitive Touch Screen
Light Source	Xenon lamp light
Detector	Imported Silicon Photodiode
Cuvette Holder	10mm manual 4-cell holder
Output	USB drive, USB host, RS232
Power	AC 220V/50Hz or AC 110V/60Hz
Shipping Size	810*660*390mm
Gross Weight	27kg
Standard Accessories	10mm glass cuvette x 4, 10mm quartz cuvette x 2, Power cord, User's Manual, PC software

# SP-XUV5102

## Touch screen xenon lamp double beam UV Vis spectrophotometer



## Features

- 10.1 inches high resolution TFT colored capacitive touch screen (1024\*600) and windows graphic interface.
- Powerful functions like Photometric measurement, Quantitative measurement, Kinetics, Spectrum scan, DNA\Protein test, multi-wavelength test, etc
- In-house massive memory is capable of saving up to 1024M for test data & working curves.
- Various optional accessories, like automatic cell holder, thermostatic automatic sampler, adjustable micro cell holder, reflection accessory and integrating sphere, etc. which extend the application range of device and combine the requirements of common samples and special ones.
- Supports USB storage. The USB port can be used for data transfer, which is easily exported to Excel for further processing, analysis and storage.
- Socket type deuterium and tungsten lamp can make lamps switching without optics debugging and easy to be replaced.
- Xenon lamp light source with extra-long service life saves you the trouble of changing lamps;
- Follow GLP/GMP standards, user management, logging, data tracking and exporting, etc. are all available.

Specifications	SP-XUV5102
Optical System	Double Beam, Grating 1200 lines/mm
Wavelength Range	190-1100 nm
Spectral Bandwidth	2nm
Wavelength Accuracy	±0.1nm@656.1nm, ±0.3nm@all
Wavelength Repeatability	≤0.1nm
Photometric Accuracy	0.2%T(0~100%T), ±0.002A(0-0.5A), ±0.004A(0.5-1A)
Photometric Repeatability	≤0.15%T (0-100%T), 0.001A(0-0.5A), 0.002A(0.5-1A)
Photometric Range	0-200%T, -0.3~-3A, 0-9999C (0-9999F)
Stray Light	≤0.03%T@220nm, 360nm
Stability	±0.0003A/h @500 nm
Baseline Flatness	±0.001A
Noise	0.0005A@500nm
Work Mode	T, A, C, E
Scanning Speed	Hi, Med, Low (Max. 3000nm/min)
Wavelength Setting	Auto
Display	10.1" TFT Colored Capacitive Touch Screen
Light Source	Xenon lamp light
Detector	Imported Silicon Photodiode
Cuvette Holder	10mm manual 4-cell holder
Output	USB drive, USB host, RS232
Power	AC 220V/50Hz or AC 110V/60Hz
Shipping Size	810*660*390mm
Gross Weight	27kg
Standard Accessories	10mm glass cuvette x 4, 10mm quartz cuvette x 2, Power cord, User's Manual, PC software



item No. 18901008

Film holder for double beam models  
1mm(H)\*10mm(W)\*30mm(L)



item No. 18901009

Cuvette holder for double beam  
1-5cm



item No. 18901010

Film holder for double beam models  
1mm(H)\*10mm(W)\*30mm(L)



item No. 18204256

Cuvette holder for double beam  
1-5cm



item No. 18901011

Xenon lamp (A510KU) 10V



item No. 18901012

Integrating Sphere  
95mm(L)\*101mm(W)\*99mm(H)



item No. 18901013

Automatic 8-position cell holder  
1cm



item No. 18901014

Automatic 5-position cell holder  
1cm-5cm

# | Pocket Testers



Standard battery: 4 × 1.5V AAA

Data locking function

Intelligent design, with self-diagnostic functions

Locking ring  
Designed with replaceable probes,  
Combines pH/Cond/TDS/RES/Sal.  
altogether



DPC1/DPC1+

Backlight display color:  
White color: measurement mode  
Green color: calibration mode  
Red color: alarm mode activated

Sample ID classification and  
measurement information share

Power key

- When turned off, short press to turn on the tester; long press to enter parameter setting.
- When turned on, long press to turn off the tester, short press to turn on/off backlight or exit set-up mode.

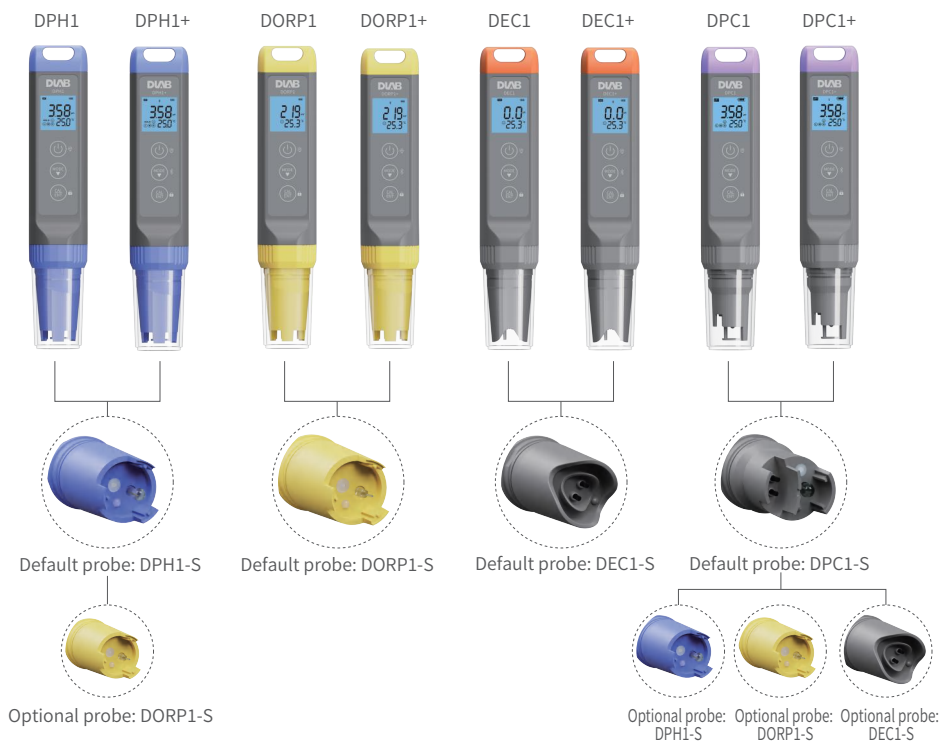
MODE key

- Long press to turn on/off Bluetooth connection
- short press to switch parameter

CAL/ENT key

- Long press to enter calibration mode.
- Short press to manually lock/unlock reading.





## Features

- Replaceable combined probe design, meeting different applications
- Multi-color backlight display, easy to read data in different modes
- Data reading indicator and automatic data locking when the reading is stable
- Low voltage indication ensures timely battery replacement
- Buffers solutions: CH, USA, NIST standards are selectable
- Auto shut-off time, customized backlight display time
- Supplied with standard solution, sample vials and lanyard for convenient field test
- Dual-control mode with mobile APP connection to achieve powerful data storage
- The mobile APP provides four types of measurement display for different situations, including Graph mode, Table mode, Dial mode, and General mode
- Protection class: IP67

## Specifications

Model		DPH1	DORP1	DEC1	DPC1	
Parameter		pH/mV.°C	✓	-	-	✓
		mV(ORP).°C	✓	✓	-	✓
		Cond/TDS/Sal./Res.°C	-	-	✓	✓
pH	Measurement range	(-2.00-16.00) pH	✓	-	-	✓
	Resolution	0.1/0.01	✓	-	-	✓
	Accuracy	±0.01pH±1digit	✓	-	-	✓
	Calibration points	1-, 2-, or 3-point	✓	-	-	✓
	ATC range	0-60°C (32-140°F)	✓	-	-	✓
ORP	Measurement range	(-1000.0+1000.0) mV	✓	✓	-	✓
	Resolution	0.1/1	✓	✓	-	✓
	Accuracy	±0.1%F.S±1digit	✓	✓	-	✓
Conductivity	Measurement range	0-19.99mS/cm, Auto-ranging: 0-19.99μS/cm; 20.0-199.9μS/cm; 200-1999μS/cm; 2.00-19.99mS/cm TDS: 0.0mg/L-10.0g/L (TDS factor adjustable) Resistivity: 50Ω · cm-20MΩ · cm Salinity: 0-10ppt	-	-	✓	✓
	Resolution	0.01/0.1/1	-	-	✓	✓
	Accuracy	±1.0%±1digit	-	-	✓	✓
Temperature	Measurement range	0-60°C (32-140°F)	✓	✓	✓	✓
	Accuracy	±0.2°C	✓	✓	✓	✓
Test Kit		Meter	✓	✓	✓	✓
		Probe(pre-installed)	DPH1-S	DORP1-S	DEC1-S	DPC1-S
		pH buffer solution: pH4.00/7.00/10.01, 30mL, one for each	✓	-	-	-
		3.0 mol KCl pH/ORP soaking solution, 10mL, 1 bottle	✓	✓	-	✓
		Sample Vials: 30mL	3	1	2	4
		Standard ORP solution 222 mV, 30mL	-	✓	-	-
		Standard Cond solution 1413μS/12.88mS/cm 30mL, one for each	-	-	✓	✓
		pH buffer solution: pH4.00/7.00, 30mL, one for each	-	-	-	✓
		4×1.5V AAA alkaline batteries (pre-installed)	✓	✓	✓	✓
		Lanyard	✓	✓	✓	✓
Hard carrying case (L/W/H: 28.0×23.0×8.2cm)		✓	✓	✓	✓	

## Specifications: Bluetooth Series

Model			DPH1+	DORP1+	DEC1+	DPC1+
Parameter		pH/mV.°C	✓	-	-	✓
		mV(ORP).°C	✓	✓	-	✓
		Cond/TDS/Sal./Res.°C	-	-	✓	✓
pH	Measurement range	(-2.00-16.00) pH	✓	-	-	✓
	Resolution	0.1/0.01	✓	-	-	✓
	Accuracy	±0.01pH±1digit	✓	-	-	✓
	Calibration points	1-, 2-, or 3-point	✓	-	-	✓
	ATC range	0-60°C (32-140°F)	✓	-	-	✓
ORP	Measurement range	(-1000.0 ~+1000.0) mV	✓	✓	-	✓
	Resolution	0.1/1	✓	✓	-	✓
	Accuracy	±0.1%F.S±1digit	✓	✓	-	✓
Conductivity	Measurement range	0-19.99mS/cm, Auto-ranging: 0-19.99µS/cm; 20.0-199.9µS/cm; 200-1999µS/cm; 2.00-19.99mS/cm TDS: 0.0mg/L-10.0g/L (TDS factor adjustable) Resistivity: 50Ω · cm-20MΩ · cm Salinity: 0-10ppt	-	-	✓	✓
	Resolution	0.01/0.1/1	-	-	✓	✓
	Accuracy	±1.0%±1 digit	-	-	✓	✓
Temperature	Measurement range	0-60°C (32-140°F)	✓	✓	✓	✓
	Accuracy	±0.2°C	✓	✓	✓	✓
APP		Calibration reminder	✓	✓	✓	✓
		Sample ID Classification	✓	✓	✓	✓
		Timing datalogging	✓	✓	✓	✓
		Operation guider	✓	✓	✓	✓
		Various display modes	✓	✓	✓	✓
Test Kit		Meter	✓	✓	✓	✓
		Probe(pre-installed)	DPH1-S	DORP1-S	DEC1-S	DPC1-S
		pH buffer solution: pH4.00/7.00/10.01, 30mL, one for each	✓	-	-	-
		3.0 mol KCl pH/ORP soaking solution, 10mL, 1 bottle	✓	✓	-	✓
		Sample Vials: 30mL	3	1	2	4
		Standard ORP solution 222 mV, 30mL	-	✓	-	-
		Standard Cond solution 1413µS/12.88mS/cm 30mL, one for each	-	-	✓	✓
		pH buffer solution: pH4.00/7.00, 30mL, one for each	-	-	-	✓
		4 × 1.5V AAA alkaline batteries (pre-installed)	✓	✓	✓	✓
		Lanyard	✓	✓	✓	✓
		Hard carrying case (L/W/H: 28.0×23.0×8.2cm)	✓	✓	✓	✓

# DPCD10

## Portable pH/Cond/DO meter



BNC,  
for pH/ORP probe



4 pins,  
for temperature/  
cond probe



8 pins,  
for DO probe



Silicone protective caps

# | Portable Meters



**Single parameter**



**Multiparameter**

## Features

- 3.5" TFT Color Display, easy to read
- The new UI interface, easy operation
- Intelligent function with Auto. timing datalogger, parameter setting, data holder
- Data storage up to 3000 groups
- Cond mode: Support probe constant calibration, conductivity standard solution calibration
- Power supply: rechargeable lithium battery/USB
- Charging socket: USB/Type-C, in line with the European new regulations.
- Protection class: IP57

# DDOPRO10

## Optical DO

Accurate, fast and stable reading, no minimum flow rate request, not sensitive to hydrogen sulfide.

### Features

- 3.5" TFT Color Display, user-friendly interface
- A robust POM housing and stainless-steel protective guard ensure durability when measuring in tough environments
- No membranes, no electrolyte, no warm up, minimize hassle
- Fast response (shorter than 15s), fluorescence sensor technology provides high accuracy and repeatability
- Intelligent function with Auto. timing datalogger, parameter setting, data hold
- Built-in temperature sensor, real-time temperature compensation
- Automatic barometric pressure compensation



## Specifications-Single parameter

Model			DPH10	DORP10	DEC10	DDO10 Polarographic Type	DDOPRO10 Optical Type
Parameter	pH/mV.°C		✓	-	-	-	-
	mV(ORP).°C		✓	✓	-	-	-
	Cond/TDS/Sal./Res.°C		-	-	✓	-	-
	DO. °C		-	-	-	✓	✓
pH	Measurement range	(-2.000-20.000) pH	✓	-	-	-	-
	Resolution	0.1/0.01/0.001	✓	-	-	-	-
	Accuracy	±0.002pH±one digit	✓	-	-	-	-
	Calibration points	1, 2, -3pts automatic	✓	-	-	-	-
	ATC range	(0.0-100.0) °C/(32.0-212.0)°F	✓	-	-	-	-
ORP	Measurement range	(-1999.9 - +1999.9) mV	✓	✓	-	-	-
	Resolution	0.1/1	✓	✓	-	-	-
	Accuracy	±0.03%F.S±one digit	✓	✓	-	-	-
Conductivity	Measurement range	0-2000.0mS/cm, auto-ranging: 0-19.999μS/cm; 20.0-199.9μS/cm; 200-1999μS/cm; 2.00-19.99mS/cm; 20.00-199.9mS/cm;200.0-2000mS/cm (K=10) Match test range: 0-200mS/cm TDS: 0 - 100.0g/L (TDS factor adjustable) Resistivity:5.000Ω · cm-100.0MΩ · cm Salinity: 0-100 ppt	-	-	✓	-	-
	Calibration points	one point	-	-	✓	-	-
	Resolution	0.001/0.01/0.1/1	-	-	✓	-	-
	ATC range	(0.0-50.0) °C/(32.0-122.0)°F	-	-	✓	-	-
	Accuracy	±0.5 % FS±one digit	-	-	✓	-	-
DO	Measurement range	(0.00-20.00) mg/L	-	-	-	✓	✓
	Accuracy	±0.30 mg/L	-	-	-	✓	-
		±0.20 mg/L				-	✓
	DO saturation	(0.0-200.0)%	-	-	-	✓	✓
	Automatic barometric pressure compensation	(0-200.0) kPa	-	-	-	✓	✓
	Automatic temperature compensation	(0.0-50.0) °C/(32.0-122.0)°F	-	-	-	✓	✓
	Manual salinity compensation	0~45ppt	-	-	-	✓	✓
Temperature	Measurement range	(0.0-100.0) °C/(32.0-212.0)°F	✓	✓	✓	✓	✓
	Accuracy	±0.2°C	✓	✓	✓	✓	✓
Others	Charging socket	Type-C	✓	✓	✓	✓	✓
	Power supply	rechargeable lithium battery	✓	✓	✓	✓	✓
	IP Rating	IP57	✓	✓	✓	✓	✓
Test kit	Meter		✓	✓	✓	✓	✓
	Plastic ATC pH probe D201T-H		✓	-	-	-	-
	Plastic ORP probe DORP301		-	✓	-	-	-
	Stainless-steel temperature probe DTEMP-02H		-	✓	-	-	-
	Plastic ATC Cond probe DCON201T, K=1.0		-	-	✓	-	-
	Polarographic DO probe DDO01-2M-H, cable length: 2m		-	-	-	✓	-
	Optical DO probe DDO01-3M, cable length: 3m		-	-	-	-	✓
	pH buffer solution: pH4.00/7.00/10.01, 50mL, one for each		✓	-	-	-	-
	Standard ORP solution: 222mV, 50mL,1btl		-	✓	-	-	-
	Standard Cond solution 84μS/1413μS/12.88mS/cm, 50mL, one for each		-	-	✓	-	-
	Membrane refill solution DDOS-01, 30mL,1btl		-	-	-	✓	-
	Membrane sensor caps DDOSC: 3pcs/group, 1pkg		-	-	-	✓	-
	Rechargeable lithium battery (pre-installed)		✓	✓	✓	✓	✓
	Charging cable: 1pc		✓	✓	✓	✓	✓
	Hard carrying case (L/W/H: 33.0×27.2×8.2cm): 1pc		✓	✓	✓	✓	✓

## Specifications-Multiparameter

Model		DPC10	DPD10	DCD10	DPO10	DPCD10	
Parameter		pH/mV.°C	✓	✓	-	✓	✓
		mV(ORP).°C	✓	✓	-	✓	✓
		Cond/TDS/Sal./Res.°C	✓	-	✓	-	✓
		DO.°C	-	✓	✓	-	✓
pH	Measurement range	(-2.000-20.000) pH	✓	✓	-	✓	✓
	Resolution	0.1/0.01/0.001	✓	✓	-	✓	✓
	Accuracy	±0.002pH±one digit	✓	✓	-	✓	✓
	Calibration points	1, 2, -3pts automatic	✓	✓	-	✓	✓
	ATC range	(0.0-100.0) °C/(32.0-212.0)°F	✓	✓	-	✓	✓
ORP	Measurement range	(-1999.9 - +1999.9) mV	✓	✓	-	✓	✓
	Resolution	0.1/1	✓	✓	-	✓	✓
	Accuracy	±0.03%F.S±one digit	✓	✓	-	✓	✓
Conductivity	Measurement range	0-2000.0mS/cm, auto-ranging: 0-19.999μS/cm; 20.0-199.9μS/cm; 200-1999μS/cm; 2.00-19.99mS/cm; 20.00-199.9mS/cm;200.0-2000mS/cm (K=10) Match test range: 0-200mS/cm TDS: 0 - 100.0g/L (TDS factor adjustable) Resistivity: 5.000Ω · cm~100.0MΩ · cm Salinity: 0-100ppt	✓	-	✓	-	✓
	Calibration points	one point	✓	-	✓	-	✓
	Resolution	0.001/0.01/0.1/1	✓	-	✓	-	✓
	ATC range	(0.0-50.0) °C/(32.0-122.0)°F	✓	-	✓	-	✓
	Accuracy	±0.5 % FS±one digit	✓	-	✓	-	✓
DO	Measurement range	(0.00-20.00) mg/L	-	✓	✓	-	✓
	Accuracy	±0.30 mg/L	-	✓	✓	-	✓
	DO saturation	(0.0-200.0)%	-	✓	✓	-	✓
	Automatic barometric pressure compensation	(0-200.0) kPa	-	✓	✓	-	✓
	Automatic temperature compensation	(0.0-50.0) °C/(32.0-122.0)°F	-	✓	✓	-	✓
	Manual salinity compensation	0~45ppt	-	✓	✓	-	✓
Temperature	Measurement range	(0.0-100.0) °C/(32.0-212.0)°F	✓	✓	✓	✓	✓
	Accuracy	±0.2°C	✓	✓	✓	✓	✓
Others	Charging socket	Type-C	✓	✓	✓	✓	✓
	Power supply	rechargeable lithium battery	✓	✓	✓	✓	✓
	IP Rating	IP57	✓	✓	✓	✓	✓
Test kit		Meter	✓	✓	✓	✓	✓
		Plastic ATC pH probe D201T-H	✓	✓	-	✓	✓
		Plastic ORP probe DORP301	-	-	-	✓	-
		Stainless-steel temperature probe DTEMP-02H	-	-	-	✓	-
		Plastic ATC Cond probe DCON201T, K=1.0	✓	-	✓	-	✓
		Polarographic DO probe DDO01-2M-H, cable length: 2m	-	✓	✓	-	✓
		pH buffer solution: pH4.00/7.00/10.01, 50mL, one for each	✓	✓	-	✓	✓
		Standard ORP solution: 222mV, 50mL,1btl	-	-	-	✓	-
		Standard Cond solution 84μS/1413μS/12.88mS/cm, 50mL, one for each	✓	-	✓	-	✓
		Membrane refill solution DDOS-01, 30mL,1btl	-	✓	✓	-	✓
		Membrane sensor caps DDOSC: 3pcs/group, 1pkg	-	✓	✓	-	✓
		Rechargeable lithium battery (pre-installed)	✓	✓	✓	✓	✓
		Charging cable	✓	✓	✓	✓	✓
		Hard carrying case (L/W/H: 36.0×32.0×9.0cm)	✓	✓	✓	✓	✓



# | BENCHTOP-Classical series



## Features

- High-res 7" display screen with white backlight, easy to read
- Automatic calibration, ATC measurement, parameter setup
- Automatic reading stable indication, calibration indication
- Data storage: 450 readings
- Data export: Flash disk/ Wireless printer (the printer is optional)
- Equipped with a flexible probe holder and pH buffer solutions for convenient use
- Protection class: IP54

## Specifications-Single parameter

Model		DPH100	DEC100	DDO100
Parameter	pH/mV.°C	✓	-	-
	mV(ORP).°C	✓	-	-
	Cond/TDS/Sal./Res.°C	-	✓	-
	DO. °C	-	-	✓
pH	Measurement range	(-2.00-20.00) pH	✓	-
	Resolution	0.1/0.01	✓	-
	Accuracy	±0.01pH±one digit	✓	-
	Calibration points	1, 2, -3pts automatic	✓	-
	ATC range	(0.0-100.0) °C/(32.0-212.0)°F	✓	-
ORP	Measurement range	(-1999.9 - +1999.9) mV	✓	-
	Resolution	0.1/1	✓	-
	Accuracy	±0.1%F.S±one digit	✓	-
Conductivity	Measurement range	0-200.0mS/cm, auto-ranging; 0-19.99μS/cm; 20.0-199.9μS/cm; 200-1999μS/cm; 2.00-19.99mS/cm; 20.00-199.9mS/cm; TDS: 0 - 100.0g/L Resistivity: 5.00Ω • cm-100.0MΩ • cm Salinity: 0-100ppt	-	✓
	Calibration points	one point	-	✓
	Resolution	0.001	-	✓
	ATC range	(0.0-50.0) °C/(32.0-122.0)°F	-	✓
	Accuracy	±1.0% FS±one digit	-	✓
DO	Measurement range	(0.00-20.00) mg/L	-	-
	Accuracy	±0.30 mg/L	-	-
	DO saturation	(0.0-200.0)%	-	-
	Automatic barometri pressure compensation	(0-200.0) kPa	-	-
	Automatic temperature compensation	(0.0-50.0) °C/(32.0-122.0)°F	-	-
	Manual salinity compensation	0-45ppt	-	-
Temperature	Measurement range	(0.0-100.0) °C/(32.0-212.0)°F	✓	✓
	Accuracy	±0.2°C	✓	✓
Others	Data export	Flash disk/Printer	✓	✓
	Power supply	DC12V	✓	✓
Test kit		Meter	✓	✓
		Plastic ATC pH probe D201T	✓	-
		Plastic ATC Cond probe DCON201T, K=1.0	-	✓
		Polarographic DO probe DDO01-2M, cable length: 2m	-	-
		pH buffer solution: pH4.00/7.00/10.01, 50mL, one for each	✓	-
		Standard Cond solution 84μS/1413μS/12.88mS/cm, 50mL, one for each	-	✓
		Membrane refill solution DDOS-01, 30mL,1btl	-	-
		Membrane sensor caps DDOSC: 3pcs/group, 1pkg	-	-
		Power adaptor: 1pc	✓	✓
		Flexible probe holder DF01: 1pc	✓	✓

## Specifications-Multiparameter

Model			DPC100	DPD100	DCD100	DPCD100
Parameter		pH/mV.°C	✓	✓	-	✓
		mV(ORP).°C	✓	✓	-	✓
		Cond/TDS/Sal./Res.°C	✓	-	✓	✓
		DO. °C	-	✓	✓	✓
pH	Measurement range	(-2.00-20.00) pH	✓	✓	-	✓
	Resolution	0.1/0.01	✓	✓	-	✓
	Accuracy	±0.01pH±one digit	✓	✓	-	✓
	Calibration points	1, 2, -3pts automatic	✓	✓	-	✓
	ATC range	(0.0-100.0) °C/(32.0-212.0)°F	✓	✓	-	✓
ORP	Measurement range	(-1999.9 - +1999.9) mV	✓	✓	-	✓
	Resolution	0.1/1	✓	✓	-	✓
	Accuracy	±0.1%F.S±one digit	✓	✓	-	✓
Conductivity	Measurement range	0-200.0mS/cm, auto-ranging; 0-19.99µS/cm; 20.0-199.9µS/cm; 200-1999µS/cm; 2.00-19.99mS/cm; 20.00-199.9mS/cm; TDS: 0 - 100.0g/L Resistivity: 5.00Ω • cm-100.0MΩ • cm Salinity: 0-100ppt	✓	-	✓	✓
	Calibration points	one point	✓	-	✓	✓
	Resolution	0.001	✓	-	✓	✓
	ATC range	(0.0-50.0) °C/(32.0-122.0)°F	✓	-	✓	✓
	Accuracy	±1.0% FS±one digit	✓	-	✓	✓
DO	Measurement range	(0.0-20.00) mg/L	-	✓	✓	✓
	Accuracy	±0.30 mg/L	-	✓	✓	✓
	DO saturation	(0.0-200.0)%	-	✓	✓	✓
	Automatic barometri pressure compensation	(0-200.0) kPa	-	✓	✓	✓
	Automatic temperature compensation	(0.0-50.0) °C/(32.0-122.0)°F	-	✓	✓	✓
	Manual salinity compensation	0-45ppt	-	✓	✓	✓
Temperature	Measurement range	(0.0-100.0) °C/(32.0-212.0)°F	✓	✓	✓	✓
	Accuracy	±0.2°C	✓	✓	✓	✓
Others	Data export	Flash disk/Printer	✓	✓	✓	✓
	Power supply	DC12V	✓	✓	✓	✓
Test kit		Meter	✓	✓	✓	✓
		Plastic ATC pH probe D201T	✓	✓	-	✓
		Plastic ATC Cond probe DCON201T, K=1.0	✓	-	✓	✓
		Polarographic DO probe DDO01-2M, cable length: 2m	-	✓	✓	✓
		pH buffer solution: pH4.00/7.00/10.01, 50mL, one for each	✓	✓	-	✓
		Standard Cond solution 84µS/1413µS/12.88mS/cm, 50mL, one for each	✓	-	✓	✓
		Membrane refill solution DDOS-01, 30mL,1btl	-	✓	✓	✓
		Membrane sensor caps DDOSC: 3pcs/group, 1pkg	-	✓	✓	✓
		Power adaptor: 1pc	✓	✓	✓	✓
		Flexible probe holder DF01: 1pc	✓	✓	✓	✓

# | BENCHTOP - Touch screen



## Features

- Display pH/Cond/DO simultaneously (DPCD100T)
- High-res 7" touch screen, easy for operation
- User-friendly operating navigation by graphics and texts
- Intelligent functions such as automatic calibration, automatic temperature compensation, timing data logger, parameter setup, etc.
- 1 to 5-point calibration for pH mode
- Data storage: 500 readings/parameter
- Data export: Flash disk/PC/Wireless printer (the printer is optional)
- Equipped with a flexible probe holder, magnetic stirrer and standard calibration solution
- Protection class: IP54

## Specifications- Single parameter

Model			DPH100T	DEC100T	DDO100T
Parameter		pH/mV.°C	✓	-	-
		mV(ORP).°C	✓	-	-
		Cond/TDS/Sal./Res.°C	-	✓	-
		DO. °C	-	-	✓
pH	Measurement range	(-2.000-20.000) pH	✓	-	-
	Resolution	0.01/0.001	✓	-	-
	Accuracy	±0.002pH±one digit	✓	-	-
	Calibration points	1, 2, -5 pts automatic	✓	-	-
	ATC range	(0.0-100.0) °C/(32.0-212.0)°F	✓	-	-
ORP	Measurement range	(-1999.9 - +1999.9) mV	✓	-	-
	Resolution	0.1/1	✓	-	-
	Accuracy	±0.03%F.S±one digit	✓	-	-
Conductivity	Measurement range	0-2000.0mS/cm, auto-ranging: 0-19.999μS/cm; 20.0-199.9μS/cm; 200-1999μS/cm; 2.00-19.99mS/cm; 20.00-199.9mS/cm; 200.0-2000mS/cm (K=10) Match test range: 0-200mS/cm TDS: 0 - 100.0g/L (TDS factor adjustable) Resistivity: 5.000Ω • cm-100.0MΩ • cm Salinity: 0-100ppt	-	✓	-
	Calibration points	one point	-	✓	-
	Resolution	0.001	-	✓	-
	ATC range	(0.0-50.0) °C/(32.0-122.0)°F	-	✓	-
	Accuracy	±0.5 % FS±one digit	-	✓	-
DO	Measurement range	(0.00-20.00) mg/L	-	-	✓
	Accuracy	±0.30 mg/L	-	-	✓
	DO saturation	(0.0-200.0)%	-	-	✓
	Automatic barometri pressure compensation	(0-200.0) kPa	-	-	✓
	Automatic temperature compensation	(0.0-50.0) °C/(32.0-122.0)°F	-	-	✓
	Manual salinity compensation	0-45ppt	-	-	✓
Temperature	Measurement range	(0.0-100.0) °C/(32.0-212.0)°F	✓	✓	✓
	Accuracy	±0.2°C	✓	✓	✓
Others	Data export	Flash disk/PC/Printer	✓	✓	✓
	Power supply	DC12V	✓	✓	✓
Test kit		Meter	✓	✓	✓
		Glass refillable combination pH probe D201G	✓	-	-
		Stainless-steel temperature probe DTEMP-01	✓	-	-
		Glass ATC conductivity probe DCON201TG, K=1.0	-	✓	-
		Polarographic DO probe DDO01-2M	-	-	✓
		pH buffer solution: pH4.00/7.00/10.01, 50mL, one for each	✓	-	-
		Standard Cond solution 84μS/1413μS/12.88mS/cm, 50mL, one for each	-	✓	-
		Membrane refill solution DDOS-01, 30mL, 1btl	-	-	✓
		Membrane sensor caps DDOSC: 3pcs/group, 1pkg	-	-	✓
		PC cable: 1pc	✓	✓	✓
		Flexible probe holder DF01: 1pc	✓	✓	✓
		Magnetic stirrer: 1pc	✓	✓	✓
		Power adaptor	✓	✓	✓

## Specifications-Multiparameter

Model			DPC100T	DPD100T	DCD100T	DPCD100T
Parameter		pH/mV.°C	✓	✓	-	✓
		mV(ORP).°C	✓	✓	-	✓
		Cond/TDS/Sal./Res.°C	✓	-	✓	✓
		DO. °C	-	✓	✓	✓
pH	Measurement range	(-2.000-20.000) pH	✓	✓	-	✓
	Resolution	0.01/0.001	✓	✓	-	✓
	Accuracy	±0.002pH±one digit	✓	✓	-	✓
	Calibration points	1, 2, -5 pts automatic	✓	✓	-	✓
	ATC range	(0.0-100.0) °C/(32.0-212.0)°F	✓	✓	-	✓
ORP	Measurement range	(-1999.9 - +1999.9) mV	✓	✓	-	✓
	Resolution	0.1/1	✓	✓	-	✓
	Accuracy	±0.03%F.S±one digit	✓	✓	-	✓
Conductivity	Measurement range	0-2000.0mS/cm, auto-ranging: 0-19.999µS/cm; 20.0-199.9µS/cm; 200-1999µS/cm; 2.00-19.99mS/cm; 20.00-199.9mS/cm; 200.0-2000mS/cm (K=10) Match test range: 0-200mS/cm TDS: 0 - 100.0g/L (TDS factor adjustable) Resistivity: 5.000Ω • cm-100.0MΩ • cm Salinity: 0-100ppt	✓	-	✓	✓
	Calibration points	one point	✓	-	✓	✓
	Resolution	0.001	✓	-	✓	✓
	ATC range	(0.0-50.0) °C/(32.0-122.0)°F	✓	-	✓	✓
	Accuracy	±0.5 % FS±one digit	✓	-	✓	✓
DO	Measurement range	(0.00-20.00) mg/L	-	✓	✓	✓
	Accuracy	±0.30 mg/L	-	✓	✓	✓
	DO saturation	(0.0-200.0)%	-	✓	✓	✓
	Automatic barometrical pressure compensation	(0-200.0) kPa	-	✓	✓	✓
	Automatic temperature compensation	(0.0-50.0) °C/(32.0-122.0)°F	-	✓	✓	✓
	Manual salinity compensation	0-45ppt	-	✓	✓	✓
Temperature	Measurement range	(0.0-100.0) °C/(32.0-212.0)°F	✓	✓	✓	✓
	Accuracy	±0.2°C	✓	✓	✓	✓
Others	Data export	Flash disk/PC/Printer	✓	✓	✓	✓
	Power supply	DC12V	✓	✓	✓	✓
Test kit		Meter	✓	✓	✓	✓
		Glass refillable combination pH probe D201G	✓	✓	-	✓
		Stainless-steel temperature probe DTEMP-01	✓	✓	-	✓
		Glass ATC conductivity probe DCON201TG, K=1.0	✓	-	✓	✓
		Polarographic DO probe DDO01-2M	-	✓	✓	✓
		pH buffer solution: pH4.00/7.00/10.01, 50mL, one for each	✓	✓	-	✓
		Standard Cond solution 84µS/1413µS/12.88mS/cm, 50mL, one for each	✓	-	✓	✓
		Membrane refill solution DDOS-01, 30mL,1btl	-	✓	✓	✓
		Membrane sensor caps DDOSC: 3pcs/group, 1pkg	-	✓	✓	✓
		PC cable: 1pc	✓	✓	✓	✓
		Flexible probe holder DF01: 1pc	✓	✓	✓	✓
		Magnetic stirrer: 1pc	✓	✓	✓	✓
		Power adaptor	✓	✓	✓	✓



## OUR VISION AND MISSION

With the vision “To become a Leading Manufacturer of General Lab Laboratory Equipment” and the Mission “Excellence in Manufacturing to Serve Science” , DLAB Scientific is an established high value laboratory equipment supplier dedicated to developing and manufacturing innovative and reliable application tools with unmatched performance to enhance customer operation success and value.

All DLAB instruments are designed and manufactured in accordance with ISO9001/13485. Our goal is to be one-stop supplier of a wide range of general laboratory devices & instruments covering chemical, biological, environmental, forensic, food and clinical diagnostic applications. Our technical experts with dedicated R&D team ensure to offer the most effective and time saving solutions. Our products provide comfort, accuracy and convenience to conduct safe and efficient experiments during research. We are experienced in developing and providing customized products suitable for end user applications. We are partners with many prestigious companies and institutions throughout the world.



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