ONILAB



ONILAB LLC

ONILAB

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

ONILAB 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-quidelines: 89/336/EWG Instrument quidelines: 73/023/EWG

ONIUAB MIXING DISTILLING





7" inch hotplate magnetic stirrers are suitable for various heating and mixing applications with excellent chemical resistance, compact shape and efficient heat transfer. They are widely used in many scientific disciplines such as biology, chemistry, physics and medicine, etc.

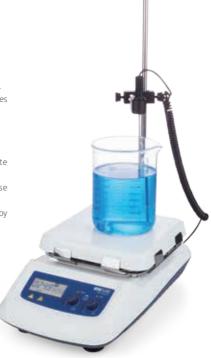
MS7-H550-Pro

LCD Hotplate Magnetic Stirrer

Features

- Microprocessor PID controls.
- LCD display with speed and temperature control knobs.
- Ceramic workplate with a high power of 1050W reaches a maximum temperature of 550°C.
- Max. heating temperature of 550°C.
- Ceramic workplate of 184x184mm.
- Speed is adjustable from 100 to 1500rpm.
- "Hot" safety indication on LCD when the plate temperature is above 50°C.
- PT1000 external temperature sensor for precise temperature control.

• RS232 interface enables data preservation and control by a PC.





MS7-H550-S

LED Hotplate Magnetic Stirrer

- LED display with speed and temperature control
 knobs
- Adjustable speed range: 0-1500rpm.
- Ceramic workplate with a maximum temperature of 550°C.
- PT1000 external temperature sensor for precise temperature control at ±0.2°C.
- "Hot" Safety indication on LED when the plate temperature is above 50°C.





Specifications	MS7-H550-Pro	MS7-H550-S
Workplate Dimension [W x D]	184x184mm (7 inch)	184x184mm (7 inch)
Workplate material	Glass ceramic	Glass ceramic
Motor type	Brushless DC motor	Shaded pole motor
Motor rating input	18W	15W
Motor rating output	10W	1.5W
Power	1050W	1030W
Heating output	1000W	1000W
Voltage	100-120/200-240V 50/60Hz	100-120/200-240V 50/60Hz
Stirring positions	1	1
Max. stirring volume, [H ₂ O]	20L	10L
Max. magnetic bar[length]	80mm	80mm
Speed range	100-1500rpm resolution ±1rpm	0-1500rpm
Speed display	LCD	Scale
Temperature display	LCD	LED
Heating temperature range	Room Temp550°C, increment 1°C	Room temp550°C, increment 5°C
Temperature control accuracy	±1°C(<100°C) ±1%(>100°C)	±10°C
Overheating protection	580°C	580°C
Temperature display resolution	±0.1°C	±1°C
External temperature sensor	PT1000 (accuracy ±0.2)	PT1000 (accuracy ±0.2)
"Hot" safety indication	50°C	50°C
Data interface	RS232	-
Protection class	IP21	IP21
Dimension [WxDxH]	215x360x112mm	215x360x112mm
Weight	5.3kg	4.5kg
Permissible ambient temperature and humidity	5-40°C, 80%RH	5-40°C, 80%RH

ONILAB

These magnetic stirrers deliver powerful, smooth mixing and safe heating. They are useful in biological, physical, chemical, pharmaceutical laboratories, etc.



MS-H-Pro⁺

LCD Digital Hotplate Magnetic Stirrer

Features

- LCD digital control of speed and temperature.
- Maintenance free brushless DC motor.
- RS232 interface enables data preservation, transmission and control by a PC.
- Speed setting range from 0-1500rpm.
- RS232 interface provides PC control and data transmission.
- Ceramic workplate with max. temperature of 340°C.
- Various optional accessories make it suitable for many applications.
- "Hot" safety indication on LED when the plate temperature is above 50°C.
- PT1000 external temperature sensor for precise temperature control at of ±0.2°C.

MS-H-Pro^T

LCD Digital Hotplate Magnetic Stirrer with Timer

- LCD digital control of speed, temperature and time.
- Brushless DC motor with 550W power.
- Speed setting range up to 1500rpm.
- RS232 interface provides PC control and data transmission.
- Ceramic workplate with max. temperature of 340°C.
- Various optional accessories make it suitable for many applications.
- "Hot" safety indication on LED when the plate temperature is above 50°C.
- PT1000 external temperature sensor for precise temperature control at ±0.2°C.
- Timer setting ranges from 1min to 99h59min.







MS-H-S **Magnetic Hotplate Stirrer**

Features

- Maximum heating temperature 340°C.
- Maximum speed setting range up to 1500rpm.
- 530W high power brushless DC motor.
- · Ceramic workplate provides good resistance and efficient heat transfer.
- · Overheating protection with "hot" safety indication if temperature is above 50°C.
- Various optional accessories makes it suitable for many applications.

Specifications

Workplate dimension

Workplate material

Motor type

Motor rating input

Motor rating output Power

Heating output

Voltage

Max. stirring volume[H2O]

Max. magnetic bar[length]

Speed range

Speed display Temperature display

Heating temperature range

Temperature control accuracy

Overheating protection Temperature display resolution External temperature sensor

"Hot" safety indication

Timer function

Data interface Protection class

Dimension[WxDxH]

Weight

Permissible ambient temperature and humidity

MS-H-PRO*

φ135mm(5 inch)

stainless steel cover with ceramic

Brushless DC motor

18W

10W

500W

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

80mm

100-1500rpm

resolution±1rpm

Room temp.-340°C increment 1°C

±1°C(<100°C)

±1%(>100°C)

360°C ±0.1°C

PT1000 (accuracy ±0.2)

50°C

RS232

IP42

160×280×85mm

2.8kg

5-40°C, 80%RH

MS-H-PRO^T

Φ135mm(5 inch) stainless steel cover with

ceramic

Brushless DC motor

18W

10W

550W

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

201

80mm

100-1500rpm

resolution±1rpm

Room temp.-340°C

increment 1°C

±1°C(<100°C)

±1%(>100°C) 360°C

±0.1°C

PT1000 (accuracy ±0.2)

50°C

1min to 99h 59min

RS232

IP/12

160×280×85mm 2.8kg

5-40°C, 80%RH

MS-H-S

φ135mm(5 inch)

stainless steel cover with

ceramic

Brushless DC motor

18W

10W

530W 500W

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

201

80mm

0-1500rpm

resolution±1rpm

Dial

Room temp.-340°C

±0.5°C

IP42 160×280×85mm

2.8kg

5-40°C, 80%RH



These magnetic stirrers deliver powerful, smooth mixing and safe heating. They are useful in biological, physical, chemical, pharmaceutical laboratories, etc. They are designed to work with weak acid or alkaline solutions in laboratory.

MS-H280-Pro

Hotplate Magnetic Stirrer

Features

- LED digital display of temperature and speed.
- Temperature and speed control knobs are present below the display screen.
- Maximum temperature and speed ranges are 280°C and 1500rpm respectively.
- Ceramic coated stainless steel workplate with good chemical resistance.
- PT1000 external temperature sensor for precise temperature control accuracy at ±0.5°C.
- "Hot" safety indication on LED if the plate temperature is above 50°C.



Specifications

Workplate dimension
Workplate material
Motor type
Motor rating input
Motor rating output
Power
Heating output
Voltage
Stirring positions
Max. stirring volume
Max. magnetic bar[length]
Speed range
Speed display
Temperature display
Speed display resolution
Heating temperature range
Temperature control accuracy
Overheating protection
Temperature display resolution
External temperature sensor
"Hot" safety indication
Protection class
Dimension[WxDxH]
Weight
Permissible ambient temperature

and humidity

MS-H280-Pro
φ135mm(5 inch)
stainless steel coated with ceramic
Brushless DC motor
5W
3W
515W
500W
100-120/200-240V 50/60Hz
1
3L
50mm
200-1500rpm
LED
LED
±1rpm
Room temp280, increment 1°C
±1°C(<100°C) ±1%(>100°C)
320°C
±1°C
PT1000 (accuracy ±0.5°C)
1P21
150×260×100mm
1.8kg
5-40°C, 80%RH





MS-H-S10

10-Position Magnetic Hotplate Stirrer

Features

- Max. of 10 stirring positions on one workplate with an anti-slip silicone mat.
- Stirring speed setting range: 0-1100rpm.
- Single temperature setting at all positions from 0-120°C.
- 490W powerful brushless DC motor.



Workplate dimension[W x D] Workplate material Motor type Motor rating input Motor rating output Power Heating output Voltage Stirring positions Max. stirring volume Max. magnetic bar[length] Speed range

Speed display Temperature display Heating temperature range Overheating protection Protection class Dimension[WxDxH] Weight

Permissible ambient temperature and humidity

MS-H-S10

180x450mm Stainless steel with silicone Brushless DC motor 12W 4W 470W 100-120/200-240V 50/60Hz 0.4Lx10 40mm 0-1100rpm Dial oom temp.-120 140°C IP42 182×622×65mm 3.2kg









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







Stirrer bars

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

	Models	
MS7-H550-Pro MS7-H550-S MS-H-Pro [†] MS-H-Pro ^T MS-H-S MS-S	MS-H280-Pro MS-PA MS-PB	MS-H-S10 MS-M-S10 FlatSpin EcoStir
May etimen	May etimon	No. otimos

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





HP550-S LED Hotplate

Features

- Built-in PID temperature control.
- LED digital display of set and actual temperature.
- Glass ceramic workplate with a max. temperature setting of 550°C.
- Overheating protection at 580°C.
- PT1000 external temperature sensor for precise temperature control accuracy at ±0.5°C.

• "Hot" safety indication on LED if the plate temperature is above 50°C.





Specifications

Specifications	
Workplate dimension[WxD]	
Workplate material	
Power	
Voltage	
Heating Power	
Heating position	
Heating temperature range	
Temperature control accuracy	
Overheating protection	
Temperature display	
Temperature display resolution	
External temperature sensor	
"Hot" safety indication	
Protection class	
Dimension[WxDxH]	
Weight	

Permissible ambient temperature and humidity

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



MS7-S

7" Square Magnetic Stirrer

Features

- Speed adjustable from 0-1500rpm with a simple dial knob.
- Max. stirring capacity of 10L[H20].
- Ceramic workplate highly resistance to chemical erosion.





Workplate dimension[WXD]
Workplate material
Motor type
Motor rating input
Motor rating output
Power
Voltage
Stirring positions
Max. stirring volume[H ₂ O]
Max. magnetic bar[length]
Speed range
Speed display
Protection class
Dimension[WxDxH]
Weight
Permissible ambient

IVI37-3
184x184mm(7inch)
Glass ceramic
Shaded pole motor
15W
1.5W
30W
100-120/200-240V,50/60Hz
1
10L
80mm
0-1500rpm
Dial
IP21
215x360x112mm
3.8kg
5-40°C 80%RH

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



MS-S Magnetic Stirrer

temperature and humidity

Features

• Speed adjustable from 0-1500rpm with a simple dial knob.

• Max. stirring capacity of 20L[H20].

• Stainless steel ceramic workplate which can provide good chemical resistance.



ONIUB

MS-PA

LED Digital Magnetic Stirrer

Features

- Broad speed range from 100-1500rpm.
- Suitable for high speed mixing applications.
- Max. stirring capacity is 3L [H20].
- LED digital speed control.
- Good chemical resistant workplate.





MS-PB

Magnetic Stirrer

Features

- Broad speed range from 100-1500rpm.
- Suitable for high speed mixing applications.
- Max. stirring capacity is 3L [H20].
- Good chemical resistant workplate.

Specifications

Workplate dimension[WXD]
Workplate material
Motor type
Motor rating input
Motor rating output
Power
Voltage
Stirring positions
Max. stirring volume[H ₂ O]
Max. magnetic bar[length]
Speed range
Speed display
Protection class
Dimension[WxDxH]
Weight
Permissible ambient temperature and humidity

м	S-	Ð	Δ
W	9	44	٠,

MS-PA
ф135(5 inch)mm
Nylon+GF
Brushless DC motor
5W
3W
15W
00-120/200-240V,50/60Hz
1
3L
50mm
200-1500rpm
LED
IP42
150×260×80mm
1.8kg

5-40°C, 80%RH

MS-PB

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





MS-M-S10

10-Position Magnetic Stirrer

Features

- Max. of 10 stirring positions on one workplate with an anti-slip silicone mat.
- Strong magnetism keeps stirrer bars in control.



Specifications

Workplate Dimension[WxD]

Workplate material

Motor type

Motor rating input

Motor rating output

Power

Voltage

Stirring positions

Max. stirring volume[H₂O] Max. magnetic bar[length]

Speed range

Speed display

Protection class

Dimension[WxDxH]

Weight

Permissible ambient temperature and humidity

MS-M-S10

180×450mm

Stainless steel with silicone coating

Brushless DC motor

12W

4W

20W

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

10

0.4L × 10

40mm

0-1100rpm

Dial IP21

622×205×65mm

3.2kg

5-40°C, 80%RH





FlatSpin

Ultra-flat Compact Magnetic Stirrer

FlatSpin is a motor less magnetic stirrer available in portable shape and size with high speed range up to 1500rpm. FlatSpin with PET top workplate is suitable for small volume stirring applications.

- Light in weight, portable and easy to operate.
- Electronic speed regulation: from 0-1100rpm.
- High resistance to chemicals.
- Maintenance-free ultra-flat magnetic stirrer.
- Auto reverse rotation ensures enhanced mixing.











EcoStir Economical Magnetic Stirrer

EcoStir is designed for small volume of liquids. These portable economical magnetic stirrers are useful in day-to-day regular stirring applications in any biological and chemical laboratories.

- Powerful BLDC motor for fast and efficient mixing.
- Maintenance-free ultra model magnetic stirrer.
- Speed is adjustable from 300-2000rpm.
- Compact, noise and vibration free design.
- PET top provides good chemical resistance.

Specifications	FlatSpin	EcoStir
Workplate dimension	ф90mm	φ120mm
Workplate material	PET	PET
Motor type	Motorless	Brushless DC motor
Motor rating output	3W	1.2W
Power	5W	7.2W
Voltage	100-120/200-240V,50/60Hz	100-120/200-240V,50/60Hz
Stirring positions	1	1
Max. stirring volume[H ₂ O]	0.8L	1.5L
Max. magnetic bar[length]	40mm	40mm
Speed range	15-1500rpm	300-2000rprm
Speed setting	Touch key	Dial
Protection class	IP65	IP21
Dimension [W x D x H]	175x120x15mm	150x145x50mm
Weight	0.3kg	0.3kg
Permissible ambient temperature and humidity	5-40°C,80%RH	5-40°C,80%RH



OniLab Overhead Stirrers are designed for high volume and high viscosity sample stirring applications. These are used in polymer processing, organic and inorganic solvent mixing, chemical synthesis and many more pharmaceutical applications.

OS20-Pro OS40-Pro

LCD Digital Overhead Stirrer

- Easy and user friendly operation with LCD digital display of set and actual
- Speed adjustable within 50-2200rpm with precise speed control.
- High performance BLDC motor with overload protection.
- · Speed maintains as the viscosity changes.
- RS232 interface to control and data document.

Powerful torque suitab	lle for stirring of highly	viscous liquids.
Specifications	OS20-Pro	OS40-Pro
	U320-P10	U340-P10
Max. stirring volume[H ₂ O]	20L	40L
Motor type	brushless DC motor	brushless DC motor
Motor rating input	60W	120W
Motor rating output	50W	100W
Voltage	100-240V, 50/60 Hz	100-240V, 50/60 Hz
Power	70W	130W
Speed range	50-2200rpm	50-2200rpm
Speed control accuracy	±3rpm	±3rpm
Speed display	LCD	LCD
Torque display	LCD	LCD
Overload protection display	LED indicator	LED indicator
Max. torque	40N·cm	60N·cm
Max. viscosity	10000mPa-s	50000mPa-s
Chuck clamping range	0.5-10mm	0.5-10mm
Dimension[WxHxD]	83x220x186mm	83x 220x 186mm
Weight	2.8kg	2.8kg
Protection class	IP21	IP21
Permissible ambient temperature and humidity	5-40°C, 80%RH	5-40°C, 80%RH
Data interface	RS232	RS232





OS20-S OS40-S

LED Digital Overhead Stirrer

- Easy and user friendly operation with LED digital display of actual speeds.
- Speed adjustable within 50-2200rpm with precise speed control.
- High performance BLDC motor with overload protection.
- Speed maintains as the viscosity changes.
- Protection class of IP42.
- Microprocessor controlled safety circuits prevent splashing.
- A wide range of shaft accessories for different kinds of applications.





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Max. stirring volume(H₂O)
Motor type
Motor rating input
Motor rating output
Voltage
Power
Speed range
Speed control accuracy
Speed display
Overload protection display
Max. torque
Max. viscosity
Chuck clamping range
Dimension[WxHxD]
Weight
Protection class
Permissible ambient temperature and humidity

OS20-S
20L
brushless DC motor
60W
50W
100-240V, 50/60 Hz
70W
50-2200rpm
±3rpm
LED
LED indicator
40N·cm
10000mPa·s
0.5-10mm
83x220x186mm
2.8kg
IP21
5-40°C, 80%RH

OS40-S
40L
brushless DC motor
120W
100W
100-240V, 50/60 Hz
130W
50-2200rpm
±3rpm
LED
LED indicator
60N·cm
50000mPa·s
0.5-10mm
83x.220x186mm
2.8kg
IP21
5-40°C 80%RH



Universal plate stand

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

Cat. No. 18900258



Propeller stirrer

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

high speeds



Straight stirrer

shaft length 40cm stirrer diameter 6cm

Material: 316L stainless steel Application: Ideal for the mixing of low viscosity media at medium and high speeds

Cat. No.

18900072



Paddle stirrer

shaft length 40cm stirrer diameter 6.8cm

Material: 316L stainless steel **Application:** Suitable for samples needed gentle processing at low and medium speeds

Cat. No.

18900073



Centrifugal stirrer

shaft length 40cm stirrer diameter 9cm

Material: 316L stainless steel

Application: Two-bladed stirrer of which blades open at an increasing angle as the speed increases. Perfect for stirring in round vessels with narrow necks. Medium to high

speeds required.

Cat. No. 18900074



Propeller stirrer

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

Application: Standard stirring element, used at medium and

high speeds



Straight stirrer

shaft length 35cm stirrer diameter 7cm

Material: PTFF coated

Application: Ideal for the mixing of low viscosity media at medium and high speeds

Cat. No.

18900076



Paddle stirrer

shaft length 35cm stirrer diameter 6.8cm Material: PTFE coated

Application: Suitable for samples needed gentle processing at low and

medium speeds

Cat. No.

18900077



Centrifugal stirrer

shaft length 35cm stirrer diameter 8.5cm

Material: PTFE coated

Application: Two-bladed stirrer of which blades open at an increasing angle as the speed increases. Perfect for stirring in round vessels with narrow necks. Medium to high speeds required

Cat. No.

18900078





The vortex mixer is used in most bioscience laboratories for mixing liquids in tubes. In a biochemical or analytical laboratory they may be used to mix the reagents of an assay or to mix the experimental samples.

MX-S

Vortex Mixer

Features

- Speed adjustable from 0-2500rpm.
- Standard configuration with an adapter for Ø30mm tube or smaller.
- 3 position power switch with touch/continuous modes of operation.
- · Wide range of accessories available.
- · Shaded pole motor for less maintenance.
- Good corrosion resistant aluminum alloy casing exterior.
- Small rubber vacuum grippers hold the unit during operation.
- LED indicator of power.





MX-F

Vortex Mixer

Features

- Fixed speed of 2500rpm.
- Standard configuration with an adapter for Ø30mm tube or smaller.
- 3 position power switch with touch/continuous modes of operation.
- Wide range of accessories available.
- Shaded pole motor for less maintenance.
- Good corrosion resistant aluminum alloy casing exterior.
- Small rubber vacuum grippers hold the unit during operation.
- · LED indicator of power.

VT1.1 standard top (Default)

For <Ø30mm tubes and small vessels

Cat. No.18900034



VT1.3.7 vacuum

Made of rubber Cat. No.18900158



Specifications

Voltage
Power
Туре
Orbital diameter
Motor type
Motor rating input
Motor rating output
Speed range
Speed control
Operation mode
Dimension[W×H×D]
Weight
Permissible ambient temperature and humidity Protection class

INIX-2	
(Adjustable speed)	
100-120V/200-240V,50/60Hz	
60W	
Orbital	
4mm	
Shaded pole motor	
58W	
10W	
0-2500rpm	
Dial	
Touch / Continuous	
127×130×160mm	
3.5kg	
5-40°C, 80%RH	
IP21	

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

ONIUB



VT1.2 Tube holding rod

used with tube adapters Cat. No. 18900044



VT1.3 Universal top plate

Ø 100mm

Cat. No.18900035



VT1.3.1 tube adapter With 48 holes for Ø6mm test tubes Cat. No.18900020



VT1.3.2 tube adapter With 15 holes for Ø10mm test tubes Cat. No.18900021



VT1.3.3 tube adapter

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



VT1.3.4 tube adapter

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



VT1.3.5 tube adapter

With 8 holes for Ø20mm test tubes Cat. No.18900024



VT1.3.6 plateform pad

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

Application of accessories

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



ONIUB

ONILAB Microplate Mixer is used for holding single or double microplates. The compact shape of MX-M Microplate Mixer occupies less bench space and makes the storage easier. It is widely used in life sciences including microbiology, cell and molecular biology, immunology and biotechnology.

MX-M

Microplate Mixers

Features

- · High efficiency BLDC motor.
- Small and compact design requires minimum bench top space.
- Speed adjustable within 0-1500rpm using speed control knob.
- Designed for mixing of single or double microplates in orbital motion.
- Wide range of accessories are available.
- The standard pack includes a single microplate clamp.





PS1.1 universal top plate

Used with tube adapters
Cat. No.18900067



VT1.3.4 tube adapter

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



VT1.3.5 tube adapter

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



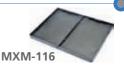
VT1.3.1 tube adapter

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



PS1.2 microplate clamp

Cat. No.18900042



Double microplate clamps

Cat. No.18900079



VT1.3.2 tube adapter

With 15 holes for Ø10mm test tubes

Cat. No.18900021



VT1.3.3 tube adapter

With 12 holes for Ø12mm test tubes

Cat. No.18900022

Specifications

Type
Orbital diameter
Max. load
(with accessory)
Motor type
Motor rating input
Motor rating output
Speed range
Speed control
Voltage
Power
Dimension
Weight

Permissible ambient

temperature and humidity
Protection class

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

IP21

ONIUAB

Rotators

Rotators perform more intense mixing than rollers. Rotators can use rotisserie type or disk type design accessory which holds sample tubes of 1.5mL to 50mL. With adjustable rotation speed, they are useful in various applications which need continuous agitation, such as hematology, blood chemistry and diagnostic applications.

MX-RD-Pro

LCD Digital Rotator

Features

- LCD digital control of speed and time.
- Speed adjustable from 10-70rpm.
- Fully adjustable tilt angle up to 90°.
- DC motor with less maintenance.
- Low speed rotation enhances the agitation of biological samples.
- Various types of disk and clip accessories to accommodate most common tubes.





MX-RD-E

Economical Rotator

- Speed adjustable from 0-80rpm.
- Low speed rotation enhances the agitation of biological samples.
- Various types of disk and clip accessories to accommodate most common tubes.

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



ONIUAB



MX-RL-Pro

LCD Digital Rotator

Features

- LCD digital control of speed and time.
- Speed adjustable from 10-70rpm.
- Low speed rotation provides effective mixing.
- Various types of rotisserie and clip accessories to accommodate centrifuge tubes of different sizes.
- DC motor with less maintenance.



MX-RL-E

Economical Rotator

- Speed adjustable from 0-80rpm.
- Low speed rotation provides effective mixing in a variety of centrifuge tubes.
- Various types of rotisserie and clip accessories to accommodate most common tubes.



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

ONIUB



Disk Accessories Type-1

Used for MX-RD-Pro for 60 × 1.5mL centrifuge tubes

Cat. No.

18900160



Disk Accessories Type-3

Used for MX-RD-Pro for 8 × 50mL centrifuge tubes

Cat. No. 18900162



Disk Accessories Type-2

Used for MX-RD-Pro for 16 × 15mL centrifuge tubes

Cat. No.

18900161



Disk support rods

4pcs in a group use with disk accessories

Cat. No.

18900140



Rotisserie Accessory Type-1

Used for MX-RL-Pro, holding 48 x 1.5mL centrifuge tubes horizontally

Cat. No.

18900142

Rotisserie Accessory Type-2

Used for MX-RL-Pro, holding 24 × 15mL centrifuge tubes horizontally

Cat. No.

18900143

Plastic Clips

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

Rotisserie Accessory Type-3

Used for MX-RL-Pro, holding 24 × 50mL centrifuge tubes horizontally

Cat. No.

18900144

Rotisserie Accessory Type-4

Used for MX-RL-Pro, holding 32 × 1.5mL centrifuge tubes vertically

18900145



Rotisserie Accessory Type-5

Used for MX-RL-Pro, holding 48 × 1.5mL centrifuge tubes vertically

Cat. No.

18900146



Rotisserie Accessory Type-6

Used for MX-RL-Pro.holding 16 × 50mL centrifuge tubes vertically

Cat. No.

18900147





Tube Rollers

Tube Rollers are used for uniform mixing of blood samples, viscous liquids, and whole blood components in the anticoagulation tubes or bottles. These rollers can mix samples in any type of liquid containers. Tube rollers are controlled by microprocessor with digital timer.

MX-T6-Pro

Tube Roller

Features

- Maximum load of up to 4Kg.
- Gentle mixing in rolling motion with a capacity of 6 tubes.
- LCD digital display of adjustable speed and time.
- Speed adjustable from 10-70rpm and timer from 1-1199min.
- LED overload indicator.



MX-T6-S

Tube Roller

Features

- Maximum load of up to 4Kg.
- Gentle mixing in rolling motion with a maximum of 6 tubes capacity.
- Speed adjustable from 0-70rpm.
- LED power indicator.



Specifications

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

MX-T6-Pro 24mm

24mm
DC motor
Rocking and rolling
4kg
6
280mm
10 -70rpm
LCD
Yes
LCD
1-1199min
Continuous/timer
100-240V,50/60Hz
30W
450×260×120mm
5.1kg

IP21

MX-T6-S

24mm
DC motor
Rocking and rolling
4kg
6
280mm
0-70rpm
Dial
Continuous
100-240V,50/60Hz
25W
450×260×120mm
4.5kg
5-40°C,80%RH





Orbital and Linear Shakers

Orbital shakers with a variety of accessories are suitable for use in different laboratories in microbiology, chemistry, biochemistry and molecular biology in applications like drug analysis, ELISA, Enzyme immunoassays, protein synthesis, etc.,

SK-O330-Pro SK-O180-Pro

LCD Digital Orbital Shaker

Features

- · Compact design and small footprint.
- Microprocessor PID control ensures powerful and consistent shaking motion.
- Load capacity up to 7.5Kg (O330) or 2.5Kg (O180) with platform.
- LCD digital control of speed and time.
- Programmable speed ranges from 100-500rpm.
- Easy-to-set digital timer from 1min-19h59min.
- High performance BLDC motor with overspeed detection.
- Variety of accessories suitable for most commonly used vessels.
- RS232 interface for data documentation and external control through PC.







SK-O180-S LED Digital Orbital Shaker

- · Load capacity up to 3Kg with platform.
- Independent LED digital control of speed and time.
- Light in weight with low maintenance DC motor.
- Programmable speed ranges from 40-200rpm.
- Variety of accessories are available for most commonly used vessels.





SK-0180-E

Economical Orbital Shaker

- Max. load capacity up to 3Kg with platform.
- Speed adjustable from 0-200rpm.
- Wide variety of platforms for use with a variety of vessels.
- Light in weight with low maintenance DC motor.



	Specifications	SK-O330-Pro	SK-O180-Pro	SK-O180-S	SK-O180-E
	Orbital diameter	10mm	4mm	20mm	20mm
	Max. load capacity (with platform)	7.5kg	2.5kg	3kg	3kg
	Motor type	Brushless DC motor	Brushless DC motor	DC motor	DC motor
	Motor rating input	28W	28W	16W	16W
	Motor rating output	15W	15W	10W	10VV
	Speed range	100-500rpm	100-800rpm	40-200rpm	0-200rpm
	Speed display	LCD	LCD	LED	Dial
	Timer display	LCD	LCD	LED	-
	Time setting range	1min-19h59min	1min-19h59min	1min-19h59min	-
	Voltage	100-240V,50/60Hz	100-240V,50/60Hz	100-240V,50/60Hz	100-240V,50/60Hz
	Power	30W	30W	20W	20W
	Weight	13.5kg	8.1kg	3.1kg	3.1kg
	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
	Dimension[W×D×H]	370×420×100mm	300×340×100mm	270×330×110mm	270×330×110mm
	Protection class	IP21	IP21	IP21	IP21
	Data interface	RS232	RS232	-	-





SK-L330-Pro SK-L180-Pro

LCD Digital Linear Shaker

Features

- Load capacity up to 7.5Kg (O330) or 2.5Kg (O180) with platform.
- Shaking amplitude of 10mm performs gentle motion of samples.
- LCD digital control for speed and time.
- Adjust speed with control knob from 100-350rpm.
- Timer control from 1min-19h59min or unlimited continuous operation.
- High performance BLDC motor with overspeed detection.
- Wide range of accessories and attachments are available.
- RS232 interface for data documentation and external control through PC.



SK-L180-S

LED Digital Linear Shaker

- Load capacity up to 3Kg with platform.
- Independent LED digital control of speed and time.
- Light in weight with low maintenance DC motor.
- Adjustable speed ranges from 40-200rpm.
- Variety of accessories suitable for most commonly used vessels.







SK-L180-E

Economical Linear Shaker

- Load capacity up to 3Kg with platform.
- Light in weight with low maintenance DC motor.
- Speed adjustable from 0-200rpm.
- Varieties of accessories are available.





Specifications	SK-L330-Pro	SK-L180-Pi	ю	SK-L180-S	SK-L180-E
Amplitude	10mm	4mm		20mm	20mm
Max. load capacity (with platform)	7.5kg	2.5kg		3kg	3kg
Motor type	Brushless DC motor	Brushless DC m	otor	DC motor	DC motor
Motor rating input	28W	28W		16W	16W
Motor rating output	15W	15W		10W	10W
Speed range	100-350rpm	100-350rpm		40-200rpm	0-200rpm
Speed display	LCD	LCD		LED	Dial
Timer display	LCD	LCD		LED	-
Time setting range	1min-19h59min	1min-19h59m	in	1min-19h59min	-
Voltage	100-240V, 50/60Hz	100-240V, 50/6	0Hz	100-240V, 50/60Hz	100-240V, 50/60Hz
Power	30W	30W		20W	20W
Weight	13.5kg	8.1kg		3.1kg	3.1kg
Permissible ambient temperature and humidity	5-40°C, 80%RH	5-40°C, 80%F	RH	5-40°C, 80%RH	5-40°C, 80%RH
Dimension[W×D×H]	370×420×100mm	300×340×100r	nm	270×330×110mm	270×330×110mm
Protection class	IP21	IP21		IP21	IP21
Data interface	RS232	RS232		-	-



Rocking and 3D shakers

Rocking& 3D shakers perform efficient mixing of liquids in tubes in a speed range of 40-200rpm (approx.) and are useful in hybridization reactions, gel washing, cell cultures, blood sample mixing by smooth and three dimensional rotations.

SK-R330-Pro

LCD Digital Rocking Shaker

Features

- SK-R330-Pro is a large model and the load capacity is 10Kg.
- Speed and time are adjustable from 10-70rpm and 1min-19h59min with LCD display.
- Tilt angle of 9°.
- Wide range of accessories and attachments are available.





SK-R1807-S

LED Digital Rocking Shaker

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







SK-R1807-E

Economical Rocking Shaker

- Tilt angle of 7° gives best results at economical price.
- Load capacity up to 3Kg with platform.
- Speed adjustable with a control knob from 0-80rpm.
- Wide range of accessories and attachments are available.



Specifications	SK-R330-Pro		SK-R1807-S	SK-R1807-E
Tilt angle	9°		7°	7°
Max. load capacity (with platform)	10kg		3kg	3kg
Motor type	DC motor		DC motor	DC motor
Motor rating input	40W		16W	16W
Motor rating output	24W		10W	10W
Speed range	10-70rpm		10-80rpm	0-80rpm
Speed display	LCD		LED	-
Timer display	LCD		LED	-
Time settings range	1min-19h59min		1min-19h59min	-
Voltage	100-240V, 50/60Hz		100-240V, 50/60Hz	100-240V, 50/60Hz
Power	50W		20W	20W
Weight	9kg		3.2kg	3.2kg
Permissible ambient temperature and humidity	5-40°C, 80%RH		5-40°C, 80%RH	5-40°C, 80%RH
Dimension[W×D×H]	360×410×200mm		270×330×130mm	270×330×130mm
Protection class	IP21		IP21	IP21



SK-D3309-Pro

LCD Digital 3D Shaker

Features

- 3D rocking motion gives best mixing results of viscous media at low speed.
- SK-D3309-Pro is a medium sized model and the load capacity is 5Kg.
- Independent LED digital control of speed and time.
- Adjustable speed from 10-70rpm suitable for cell culture plates
- Wide range of accessories and attachments are available.





SK-D1807-S

LED Digital 3D Shaker

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





SK-D1807-E

Economical 3D Shaker

- Three dimensional rocking angle of 7° gives best results at economical price.
- Load capacity up to 3Kg with platform.
- Speed adjustable with an analog control knob from 0-80rpm.
- Wide range of accessories and attachments are available.





Sp	ecif	icati	ions

Tilt angle			
Max. load capacity (with platform)			
Motor type			
Motor rating input			
Motor rating output			
Speed range			
Speed display			
Timer display			
Time setting range			
Voltage			
Power			
Weight			
Permissible ambient temperature			
and humidity			
Dimension[W×D×H]			
Protection class			
Data connector			

SK-D3309-Pro	SK-D1807-S	SK-D1807-E
9°	7°	7°
5kg	3kg	3kg
DC motor	DC motor	DC motor
40W	16W	16W
24W	10W	10W
10-70rpm	10-80rpm	0-80rpm
LCD	LED	Dial
LCD	LED	-
1min-19h59min	1min-19h59min	-
100-240V, 50/60Hz	100-240V, 50/60Hz	100-240V, 50/60Hz
50W	20W	20W
9kg	2.7kg	2.7kg
5-40°C, 80%RH	5-40°C, 80%RH	5-40°C, 80%RH
360×430×106mm	270×330×130mm	270×330×130mm
IP21	IP21	IP21
-	-	-





	Cat. No.	Description	SK-O330-Pro SK-L330-Pro SK-R330-Pro SK-D3309-Pro	SK-O180-Pro/S/E SK-L180-Pro/S/E SK-R1807-S/E SK-D1807-S/E
1	18900155	Dish tray with non-slip mat and fixed string (8pcs) Dimension[WxD]: 30x28.5cm	√	
2	18900185	Dish tray with non-slip mat Dimension[WxD]: 24x21.5cm		√
3	18900200	Large size dish tray with non-slip mat Dimension[WxD]: 30x23cm		\checkmark
4	18900326	Dish tray with non-slip mat Dimension[WxD]: 28x28cm		√
5	18900027	Universal attachment with 4 bars Dimension[WxD]: 30x30cm	√	
6	18900040	Lengthways roller attachment Dimension[WxD]: 30x30cm	√	
7	18900025	Universal attachment with 3 bars Dimension[WxD]: 24x24cm		√
8	18900038	Lengthways roller attachment Dimension[WxD]: 24x24cm		√
9	18900036	Bar for SK330.1 universal attachment	√	
10	18900037	Bar for SK180.1 universal attachment		√
11)	18900280	Connect sticks for multiple layer shaker	√	√





SK330.2

1



SK180.2

2













	Cat. No.	Description	SK-O330-Pro SK-L330-Pro SK-R330-Pro SK-D3309-Pro	SK-O180-Pro/S/E SK-L180-Pro/S/E SK-R1807-S/E SK-D1807-S/E
1	18900028	Fixing clip attachment	√	
2	18900026	Fixing clip attachment		$\sqrt{}$
3	18900029	Fixing clip for 25mL flask, used with SK330.2[28pcs] SK180.2[9pcs]	√	√
4	18900030	Fixing clip for 50mL flask, used with SK330.2[16pcs] SK180.2[9pcs]	√	√
5	18900031	Fixing clip for 100mL flask, used with SK330.2[16pcs] SK180.2 [9pcs]	√	V
6	18900032	Fixing clip for 200/250mL flask, used with SK330.2[9pcs] SK180.2[4pcs]	√	√
7	18900033	Fixing clip for 500mL flask, used with SK330.2[9pcs] SK180.2[2pcs]	√	V





RE100-Pro

Digital Rotary Evaporator

RE100-PRO is a digital rotary evaporator with motorized lift suitable for a wide range of applications which involve distillation processes. Rotary evaporator is an essential equipment in most chemical laboratories. These are useful in removal of high boiling point solvents from samples under low pressure.



- · Large LCD digital display indicates rotation speed, heating temperature and time.
- User friendly operation with automatic motor lift. Automatically lift the evaporation flask out of the bath in case of accidental power failure.
- 5L flask capacity heating bath with stainless steel interior, compatible with both water and oil bath.Water/oil heating mode can be changed only through a switch.
- Safety circuits prevent overheating at 220°C and these can be used for high temperature
- Chemically resistant PTFE sealing ring designed to be vacuum tight.
- USB interface for data documentation and control through PC.
- Vertical condenser with large surface area of 1700 cm² provides excellent cooling effect.
- · Wide variety of glassware suitable for various applications.

seals and other accessories				
Cat. No.	Description			
18202027	PTFE vacuum seal			
18900362	Ultra resistant FFKM seal for applications with highly abrasive solutions			
18900190	Evaporation flask clip(red) CS002440	9		

Evaporation flask clip(green) 18900188 CS002942





Specifications

Specifications
Motor type
Speed range
Display
Clockwise and counter-clockwise
Heating temperature range
Temperature accuracy
Heating power
Lifting stroke
Timer
Time setting range
Dimension[D×W×H]
Weight
Permissible ambient temperature and humidity
Protection Class

USB Interface

Voltage

Power

RE 100-Pro
Brushless DC motor
20-280rpm
LCD (speed,temperature, time)
Yes
Room temp. to 180°C
water: ±1°C oil: ±3°C
1300W
150mm by the motor
Yes
1-999min
465×457×583mm
15kg
5-40°C, 80%RH
ID20

Yes

100-120/200-240V

50/60 Hz

1400 W



Condenser



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



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



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







Glassware





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

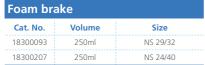
Receiving flask				
Cat. No.	Volume	Size		
18300107	100ml	KS 35/20		
18300108	250ml	KS 35/20		
18300109	500ml	KS 35/20		
18300110	1000ml	KS 35/20		
18300111	2000ml	KS 35/20		





Distilling spider for 5 flasks (without flask)

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





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

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

ONIUB CENTRIFUGES SPECTROPHOTOMETER





D1008

Palm Micro Centrifuge

Features

- Extremely guiet with noise level ≤45dB.
- Compact design for less bench space.
- Easy-to-use, one-button control.
- Powerful motor up to 7000rpm (D1008).
- Suitable for 2mLx8/1.5mLx8 and PCR8x2 rotors.
- Accelerates and brakes in seconds.





Specifications	D1008				
Max. speed	7000rpm				
Max. RCF	2680×g				
Rotor capacity	0.2/0.5/1.5/2.0mL×8; 0.2mL×16 PCR strips or 0.2mL×2 PCR 8 strips				
Run control	Close the lid to run and open it to stop				
Motor type	DC motor				
Power	AC100-240V/50Hz/60Hz 20W				
Noise level	≤45dB				
Dimension [D×W×H]	160x170x122mm				
Weight	0.5kg				
Certification	ROSH CE cTÜVus FCC MCA				





Available rotors

Cat. No. 19400015



A08-2

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

Cat. No. 19400017



A02-PCR8

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

Available adapters

Cat. No. 19400029



SA02P2

0.2mL rotor adapter Used with A08-2 rotor 8pcs/pk Cat. No. 19400026



SA05P2

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

44 | 45



High Speed Micro Centrifuge

High speed micro centrifuges are widely used in physical and chemical analysis, biochemistry, cellular and molecular biology, as well as clinical laboratories. They are also ideal for high-end research applications.

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

Precise control

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

Conforms to international safety standards and regulations

- ONILAB centrifuges are compliant with ROSH, CE, cTUVus and FCC requirements. All ONILAB centrifuges are proven of high level of reliability and confidence according to IEC/ EN 61010-1, and have passed MCA test according to IEC/ EN61010-2-20, including mechanical safety and bio safety tests.
- · Quiet operation, high reliability.
- High strength metal casing ensures safety during centrifugal process.
- Dual door interlock design for safety(D3024 & D3024R).
- Gentle braking by slow deceleration for efficient separation.

Ergonomic design

- User-friendly large LCD display shows real-time information.
- Set the speed in RPM or RCF (xg).
- · The parameters can be modified during running.
- The pulse function starts instantaneously by pressing and holding PULSE key. The centrifuge will accelerate and hold at the target speed.
- The lid lock will be released automatically after centrifuge program (except D3024R) to cool down samples and offer easy access to them.
- Concise display and sound alert.



D2012 plus

High Speed Mini Centrifuge

Features

- Large LCD display with intuitive menu for quick and easy operational settings.
- · Compact design and small foot print.
- Maintenance free motor with a powerful centrifugal force up to 15100xg and max. speed of 15000rpm.
- High efficiency BLDC motor quickly accelerates the rotor to set speed.
- Precise rotation speed and quiet operation with noise level ≤45dB.
- D2012 Plus is not only ROSH, CE, cTUVus and FCC certified, but also passed the most strict mechanical safety test, the MCA test according to IEC/EN61010-2-20.







Specifications

Speed range

RCF range

Speed accuracy

Rotor capacity

Time setting range

Motor type

Safety mechanism

Power

Noise level

Acceleration /Braking time

Dimension[D×W×H]

Weight

Certification

Additional features

D2012 plus

500-15000rpm, increment: 100rpm Up to 15100×g,

increment: 100×g ±20rpm

0.2mL/0.5mL/1.5mL/2mL×12

30sec-99min/Continuous

Brushless DC motor

Door interlock, Overspeed detection, Overheat detection, Error code runtime display

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

≤54dB

11s ↑ /9s ↓

255×245×140mm

6kg

EMC, ROSH, CE, FCC, ICES, cTUVus, CB

Speed/RCF switch,
Pulse operation (instantaneous
centrifugation),
Buzzer notification & alert







Available rotors

Cat. No. 19400010



A12-2P for D2012plus only

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

Rotor capacity: 2mL/1.5mL×12,0.2mL×12,0.5mL×12 Rotor material: high strength plastic

Available rotor adapters: A02P2,A05P2

Available adapters



Cat. No. 19500001

0.2mL rotor adapter

Used with A12-2, A12-2P, AS24-2 and A24-2P rotors 24 pcs/pk

A05P2

A02P2

Cat. No. 19500002

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







D3024

High Speed Micro Centrifuge

Unique Features

- Microprocessor control with high precision.
- Large LCD digital display with a control knob for parameter settings.
- High performance BLDC motor for fast acceleration/ deceleration.
- Speed is adjustable in both RPM and RCF.
- Triple sealing mechanism of rotor prevents accidental leakage during centrifugal process.
- Five fixed angle rotors are available for use.
- Rotors are fully autoclavable.
- Apply up to 18 \times 5.0mL tubes, 24 \times 1.5/2.0mL tubes, or 36 \times 0.5/0.2mL tubes with adapters.







D3024R

Refrigerated High Speed Micro Centrifuge

Powerful cooling system for precise temperature control

- Microprocessor control with high precision.
- Large LCD digital display with a control knob for parameter settings.
- High performance BLDC motor for fast acceleration and deceleration.
- Speed is adjustable in both RPM and RCF.
- Inbuilt cooling system with auto lid lock to maintain low temperature within the chamber. .
- Sample can be cooled down to 4°C within 7 minutes at maximum speed.
- CFC-free, environmental friendly refrigerants with high energy efficiency.
- Rotors are fully autoclavable at 121°C for 20 minutes and are bio safe.
- Quiet and smooth operation with noise level ≤54dB.
- Five(optional) fixed angle rotors are available for use.

AS24-2 - 0.2/0.5/1.5/2.0mLx24,

AS12-5V - 5mLx12 culture tubes,

AS18-5 - 5mLx18,

AS36-05 - 0.5/0.2mL x 36,

AS4-PCR8 - 0.2mL/PCR8 x 4











Specifications

Speed range

Max. RCF

Speed accuracy

Temperature range

Rotor capacity

Time setting range Motor type

Safety mechanism

Power

Acceleration /Braking time [Sec]

 $\mathsf{Dimension}[\mathsf{W}{\times}\mathsf{D}{\times}\mathsf{H}]$

Weight

Certification

Advanced features

Noise level

D3024

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

21380×g, increment: 10×g

±20 rpm

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

30sec-99min/Continuous
Brushless DC motor

Dual door interlock, Over-speed detection, Error code runtime display

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

25s ↑ 25s ↓

280×364×266mm

12kg

ROSH CE cTÜVus FCC MCA

Speed/RCF switch; Pulse operation (instantaneous centrifuge); Buzzer notification & alert

≦64dB

D3024R

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

21380×g, increment: 10×g

±20 rpm

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

30sec-99min/Continuous
Brushless DC motor

Dual door interlock, Overspeed detection, Overheat detection, Error code runtime display

Single-phase, AC200V-240V, 50Hz/60Hz, 10A, AC100V-120V, 50Hz/60Hz, 10A 400W

25s↑25s↓

338×580×324mm

30kg

ROSH CE cTÜVus FCC MCA

Speed/RCF switch; Pulse operation (instantaneous centrifuge); Buzzer notification & alert

≦56dB





Rotor Features

Fully autoclavable

High strength aluminum alloy rotors are fully autoclavable, at 121°C for 20 minutes, with extended life.

Bio-safety

D3024 & D3024R rotors are designed to prevent sample leakage. Each rotor is hermetically sealed by three rubber seals.

Mechanical safety

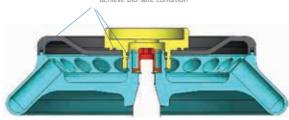
ONILAB centrifuges have passed the MCA (maximum credible accident) test according to IEC/EN61010-2-20. The test confirms that in the event of an accident caused by partially cutting or overloading rotor assembly, no fragments are expelled from the centrifuge to cause danger to person or the environment.

ONILAB rotors are made of military grade aluminum alloy with high mechanical strength for precise control and safety.

- All rotors can reach a max. speed of 15000rpm.
- Rotors are seated on a tapered shaft, concentric and self-aligning, perfect to achieve running stability at high speeds.
- Bio-safe rotors for D3024 & D3024R prevent accidental sample leakage and keep the centrifugal process free from microbial contamination risk.
- Powerful ventilation system minimizes rotor heating. D3024 rotors heat up less than 10 °C after running for an hour.



Three rubber seals fitted to achieve bio-safe condition





Seals within the aluminum alloy rotor



Available rotors

Cat. No. 19400006



AS24-2 for D3024 & D3024R

Max. speed: 15000rpm
Max. RCF: 21380×g
Rotor capacity: 2mL/1.5mL×24/0.2mL×24/0.5mL×24
Rotor material: aluminum alloy
Bio-safe sealing: yes

Available rotor adapters: A02P2,A05P2

Cat. No. 19400032



AS12-5V for D3024 & D3024R

Max. speed: 15000rpm Max. RCF: 21380xg Rotor capacity: 5mLx12(cone bottom) Rotor material: aluminum alloy Bio-safe sealing: yes

Cat. No. 19400007



AS36-05 for D3024 & D3024R

Max. speed: 15000rpm Max. RCF: 21380xg Rotor capacity: 0.5mL×36,0.2mL×36 Rotor material: aluminum alloy Bio-safe sealing: yes Available rotor adapters: A02P05 Cat. No. 19400008



AS4-PCR8 for D3024 & D3024R

Max. speed: 15000rpm Max. RCF: 21380×g Rotor capacity:0.2mL/PCR8×4 Rotor material: aluminum alloy Bio-safe sealing: yes

ONIUAB

Cat. No. 19400012



AS18-5 for D3024 & D3024R

Max. speed :15000rpm
Max. RCF:21380xg
Rotor capacity:5mL×18 (round botton)
Rotor material:aluminum alloy
Bio-safe sealing:yes

Available adapters



A02P2

Cat. No. 19500001

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

A05P2

Cat. No. 19500002

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

A02P05

Cat. No. 19500003

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





Hematocrit Centrifuges

Hematocrit centrifuges are used to measure the ratio of volume of RBC to whole blood. The information is useful in diagnosis of anemia. Hematocrit centrifuges are widely used in biochemistry, microbiology, blood separation, immunogenetics, etc.

DM1424

Hematocrit Centrifuge

Features

- Adjustable speed up to 14000rpm or 19620×g.
- High performance BLDC motor.
- High precision microprocessor control of speed and time.
- Intuitive LCD digital display.
- Pulse operation for instantaneous centrifuge applications.
- Two optional fixed angle rotors are available.
 A24-2P(Tube rotor) 2mL/1.5mL×24,0.2mL×24,0.5mL×24
 AC24(Hematocrit rotor) Capillary tubes x24











Specifications	DM1424				
Speed range	200-14000rpm, increment: 10rpm				
Max. RCF	18620×g				
Speed accuracy	±20				
Rotor capacity	2 type				
Time setting range	30sec-99min/Continuous				
Motor type	Brushless DC motor				
Display	LCD				
Safety mechanism	Door interlock,Overspeed detection; Overheat detection, Error code runtime display, Automatic rotor identification				
Acceleration/Braking time	30s↑30s↓				
Power	Single-phase, 200V-240V,50Hz/60Hz, 5A; 100V-120V,50Hz/60Hz, 5A 500W				
Dimension[WxDxH]	280×364×266mm				
Weight	10kg				
Certification	ROSH CE FDA cTÜVus FCC MCA IVD				
Additional features	Speed/RCF switch; Pulse operation (instantaneous centrifuge); Buzzer notification & alert				





Available rotors

Cat. No.19400013



A24-2P DM1424

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

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

Rotor material: high strength plastic

Available rotor adapters: A02P2,A05P2,A10P15 & Mat

Cat. No. 19400046



AC24 DM1424

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

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

Available adapters



A02P2

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

A05P2

Cat. No. 19500002

Cat. No. 19500001

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

A02P05

Cat. No. 19500003

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



Low-speed Centrifuges

Low-speed centrifuges are useful for effective and efficient processing of clinical samples with precise and reproducible results. These are useful in separation of clinical samples like serum, urea, blood, preparation of PRP and PRF samples, etc.

Conforms to international safety standards and regulations

- ONILAB low-speed centrifuges are compliant with ROSH CE, cTUVus and FCC, and have passed MCA test according to IEC/EN61010-2-20.
- Fully conform to EN61010-2-101:2002 particular requirements for In-Vitro Diagnostic(IVD) medical equipment.
- Excellently balanced high strength plastic rotor for stable operation .
- Double layer enhanced housing ensures mechanical safety.
- Brushless DC motor with precise speed control.





Precise control

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

Ergonomic design

- Easy operation thanks to intuitive menu and easy-to-read display.
- Easily switch between RPM and RCF setting/display.
- Parameters can be modified during running.
- Press and hold the PULSE key to centrifuge instantaneously.
- · Automatic lid-lock release.
- Easy-to-read runtime status display and buzzer notification & alert.

ONIUB



ONILAB DM0412 & DM0412S Low-speed Centrifuges support small volumes applications. With proper angle rotor, these centrifuges can hold up to 50mL×6, 15mL×6 (A6-50P),15mL×8, or 10mL/7mL/5mL×12 (A12-10P) vacuum tubes.

They are widely used in medical and veterinary practices for blood and urine samples, and in qualitative analysis of water and soil samples. These centrifuges are also used in universities and research institutes.

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DM0412

Low-speed Centrifuge

Features

- Efficient BLDC motor with precise speed control
- Easy setting with LCD digital display.
- Adjustable speed up to 4500rpm or RCF up to 2490xg.
- Pulse operation for instantaneous centrifuge applications.
- Automatic lid-lock and release save your trouble from unnecessary clicking and keep the sample in good ventilation after centrifugation.





DM0412S

Economical Low-speed Centrifuge

Features

- maintenance DC motor.
- up to 2490xg.
- for 12 ×15mL cell culture tubes/ 10mL/5mL centrifuge tubes.





Specifications

Speed range

Max. RCF

Speed accuracy

Rotor type

Time setting range

Motor type

Display

Safety Mechanism

Acceleration/Braking time

Power

Dimension[WxDxH]

Weight

Certification

Additional features

DM0412

300-4500rpm, increment: 100rpm

2490×g

±20rpm

A12-10P

30sec-99min HOLD(Continuous operation)

Brushless DC motor

LCD

Door interlock, Overspeed detection; Error code runtime display

A12-10P: 20s ↑ 13s ↓

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

301×354×217mm

6kg

ROSH CE, UL, IVD

Speed/RCF switch;Pulse operation (instantaneous centrifuge); Buzzer notification & alert

DM0412S

300-4500rpm, increment:100rpm

2490×g

±100rpm A12-10P

1sec-99min HOLD(Continuous operation)

DC motor

LED

Door interlock, Overspeed detection

23s ↑ 23s ↓

Single-phase,200V-240V,50Hz/60Hz, 3A;100V-120V,50Hz/60Hz, 3A 70W

301×354×217mm

6kg

Buzzer notification & alert





Available rotors

Cat. No. 19200348



A12-10P for DM0412 & DM0412S

Max. speed: 4500rpm Max. RCF: 2490×g

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



Available tubes	Capacity	Dimension (ФLxmm)	Adapters	Maximum speed(rpm)		Maximum RCF (×g)
15mL con	8	17×120		4500	11	2490
1.5-5mL vacu	12	13×75	A10P15 & Plug	4500	9.8	2218
4-7 mL vacu		13×100	A10P15		11	2490
	12	16×75		4500	9.8	2218
8.5-10 mL vacu	12	16×107		4500	11	2490
2.7-3 mL(EU) collection tube	12	11×66	A10P15 & Plug	4500	9.8	2218
7.5-8.2 mL(EU) collection tube	12	15×92	A10P15	4500	11	2490

Note: A12-10P plastic rotor cannot be sterilized by UV irradiation nor autoclave. Please use any other sterilization procedures.



ONILAB DM0636 Multi-Purpose Low Speed Centrifuge is ideal for sample centrifugation in clinical chemistry, cytology, research laboratories, industrial laboratories, etc.

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

DM0636

Multi-Purpose Low Speed Centrifuge

Features

- DM0636 is compatible with swing out rotor as well as fixed angle rotor.
- BLDC motor with high precision microprocessor control of speed
- Adjustable speed from 300-6000rpm in increments of 10rpm or RCF up to 4300xg.
- Flexible acceleration/deceleration speed settings.
- Up to 9 user-define programs.
- Automatic rotor identification.
- Five compatible rotors: SE4-100 100mLx4 AS12-PCR8 PCR8 strips x 12 AS30-2 2mL x 30

AS60-2 2mL x 60 S2-MP 384-PCR, 96-PCR



Specifications

Speed range

Max. RCF
Speed accuracy
Max. capacity
Time setting range
Motor type

Display Memory

Safety mechanism

Acceleration/ Deceleration

Dimension[WxDxH]
Weight

Power

Certification

Additional features

DM0636

300-6000rpm
increment:10rpm
4300va

±20rpm 100mLx4

30sec-99mins/continuous Brushless DC

Up to 9 programs

Door interlock;

Overheat detection

9 level adjustable acceleration
speed / 10 level deceleration

Overspeed detection;

660W; Single-phase AC220V-240V, 50Hz/60Hz,6.3A; AC110V-120V,50Hz/60Hz,10A

> 445x579x269mm 36kg

ROSH CE cTÜVus FCC IVD

Speed/rcf switch; Rotor identification; Rotor imbalance protection







Uncapping block

for S4-100 rotor

Cat. No. 19400041



SE4-100 for DM0636 & DM0636R

Max. speed: 4000rpm Max. RCF: 2910×g

Rotor material: stainless steel body and adapter









Bucket						x 4					
Nominal volume	3-7	'mL	10mL	12mL	15mL	50mL	100mL	85mL	50mL	15mL	3-7mL
φ×L mm	13×75	13×100	16×100	17×105	17×120	29.5×100	38×108	38×104	29.5×100	17×120 13×100 13×75	13×100 13×75
Tube											
Adapter	With plug						A100) DP80	A100P50	(i) A100P15	6 A100P10
Package	36						۷	1	4	8	4
Tubes per rotor	36	36	16	16	16	8	4	4	4	8	20
Radius (cm)	1.4	1.65	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.51	1.47
Max RCF (g-force)	2500	2950	2840	2840	2840	2840	2840	2840	2840	2700	2630

(g-force)

ONIUB

Available rotors

Cat. No. 19400062



S2-MP D0636

Max. speed: 4000rpm Max. RCF: 2200×g

Rotor capacity: 2 × Micro-plates 384-PCR; 96-PCR Rotor material: stainless steel body and aluminum buckets

Cat. No. 19400034



AS30-2 D0636

Max. speed: 6000rpm Max. RCF: 4020×g Rotor capacity: 2mL×30 Rotor material: aluminum Bio-safe sealing: yes





AS60-2 D0636

Max. speed: 6000rpm Max. RCF: 4020×g Rotor capacity: 2mL×60 Rotor material: aluminum Bio-safe sealing: yes Cat. No. 19400036



AS12-PCR8

D0636

Max. speed: 6000rpm Max. RCF: 4020xg Rotor capacity: PCR 8 tripsx12 Rotor material: aluminum Bio-safe sealing: yes





Available rotors

Cat. No. 19400038



AS6-50V DM0636

Max. speed: 6000rpm Max. RCF: 4020×g Rotor capacity: 50mL×6 Rotor material: aluminum Bio-safe sealing: yes Cat. No. 19400035



AS18-5V DM0636

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

Rotor material: stainless steel body and aluminum buckets

Cat. No. 19400039



A8-50 DM0636

Max. speed: 5000rpm Max. RCF: 3960×g

Rotor capacity: 50mL×8 or 15mLx16

Rotor material: aluminum body and stainless steel adapter

Cat. No. 19400040



A30-15

DM0636

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

Rotor material: aluminum body and stainless steel adapter

Bio-safe sealing: yes

Capacity	3-7mL Blood collection tube
φ×L mm	13×100
Tubes per rotor	30

10mL Blood collection tube
16×100
30

12mL urine tube	
17×105	
30	

15mL
17×120
30





Spectrophotometer

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

Spectrophotometer is essential in the identification and quantification of different compounds in solutions by measuring the transmission light intensity at specific wavelength in a spectrum of light compared with the light intensity from a standard source.

The instrument measures the absorbance, transmittance (in %) and concentration of the sample and is widely used in metallurgy, geology, physical chemistry, pharmaceutical chemistry, forensic physics, biotechnology and microbiology etc.



LCD digital display with consistent interface design

Concise LCD digital display provides a user friendly interface to set up and run procedures smoothly. It also supports plot display with 128×64 dots.

Automatic wavelength calibration.

Data Storage: 200 groups of data which can also be restored after power failure.

Auto switch of tungsten/ deuterium lamps covers a wavelength range of 190-1100nm.

'Wave Professional' Software: Connect the spectrophotometer to PC via the USB port and control it with the optional "Wave Professional" Software for data documentation and quantitative analysis. A wide range of sample holder to accommodate cuvettes of 5-100mm path length.

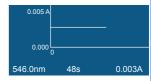
Basic Mode

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

Ouantitative

0.005A		
0.000		0.200 C
r = 0.999 C = 1.00 1	*A+0.001	

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 lamp & Deuterium lamp	Tungsten lamp	Tungsten lamp &Deu- terium lamp
Spectral bandwidth	4.0nm	4.0nm	2.0nm	2.0nm
Wavelength range	325-1000nm	200-1000nm	320-1100nm	190-1100nm
Wavelength accuracy	±2nm	±2nm	±0.5nm	±0.5nm
Wavelength repeatability	≤1nm	≤1nm	≤0.3nm	≤0.3nm
Photometric range	-0.3 - 3.0 A, 0 - 200%T	-0.3 - 3.0 A, 0 - 200 %T	-0.3 - 3.0 A, 0 - 200 %T	-0.3 - 3.0 A, 0 - 200%T
Photometric accuracy	±0.003 A @ 0.5 A, ±0.006 A @ 1.0 A, ±0.5%T @ 100%T	±0.003 A @ 0.5 A, ±0.006 A @ 1.0 A, ±0.5%T @ 100%T	±0.002 A @ 0.5 A, ±0.004 A @ 1.0 A, ±0.3%T @ 100%T	±0.002 A @ 0.5 A, ±0.004 A @ 1.0 A, ±0.3%T @ 100%T
Photometric repeatability	≤0.0015 A @ 0.5 A, ≤0.003 A @ 1.0 A, ≤0.25%T @ 100%T	≤0.0015 A @ 0.5 A, ≤0.003 A @ 1.0 A, ≤0.25%T @ 100%T	≤0.001 A @ 0.5 A, ≤0.002 A @ 1.0 A, ≤0.15%T @ 100%T	≤0.001 A @ 0.5 A, ≤0.002 A @ 1.0 A, ≤0.15%T @ 100%T
Stability	≤0.002 A/h @ 500 nm (after 2 hours warm up)	≤0.002 A/h @ 500 nm (after 2 hours warm up)	≤0.002 A/h @ 500 nm (after 2 hours warm up)	≤0.002 A/h @ 500 nm (after 2 hours warm up)
Stray light	≤0.2%T @ 360nm	≤0.2%T@ 220&360nm	≤0.05%T @ 360nm	≤0.05%T @ 220 & 360nm
Sample holder	4-position, 10mm pathlength cuvette	4-position, 10mm pathlength cuvette	4-position, 10mm pathlength cuvette	4-position, 10mm pathlength cuvette
Display	LCD	LCD	LCD	LCD
Data interface	USB Port & Parallel Port (Printer)	USB Port & Parallel Port (Printer)	USB Port & Parallel Port (Printer)	USB Port & Parallel Port (Printer)
Power	110/220VAC, 50/60Hz, 80W	110/220VAC, 50/60Hz, 120W	110/220VAC, 50/60Hz, 80W	110/220VAC, 50/60Hz, 120W
Dimension(L×W×H)	490×360×210mm	490×360×210mm	490×360×210mm	490×360×210mm
Weight	10kg	12kg	10kg	12kg

ONIUB



Cat. No. 18900337 Micro cell holder



Cat. No. 18900340 8-position auto cell changer (for SP-V1100&SP-UV1100)



Cat. No. 18900331 4-cell holder for 10mm squ.cuvette



Cat. No. 18900332 4-cell holder for 10mm to 50mm squ. cuvette



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



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



Cat. No. 18900334 cylindrical cell holder(ø16mm)



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



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



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



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



Cat. No. 18900341 12V20W Tungsten lamp



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

ONIUB THERMAL CONTROL





TC1000-G

Thermo Cycler Gradient

TC1000-S

Thermo Cycler Standard

Thermal cyclers are the instruments used to amplify DNA segments and perform temperature sensitive reactions. These thermal cyclers consist of a block designed to accommodate micro centrifuge tubes or 96-well plates for precise temperature control and uniform operation. They are widely used in molecular genetics research, biotech services and clinical laboratory tests.







- High precision temperature control with high heating/ cooling ramping rates.
- Large LCD digital touch screen for easy programming with clear display and user friendly software.
- The hot lid is flexible to press the tube caps or plate cover uniformly and ensure minimum loss of evaporation.
- Homogeneous temperature across plate wells or PCR tubes.
- Aluminum heating block for efficient heat transfer.
- User defined large program storage system of up to 16 folders and 16 files in each folder.







Sample capacity
Heating temperature range
Lid temperaturerange
Temperature display accuracy
Temperature control accuracy [at 55°C]
Temperature uniformity[at 55°C]
Max. heating/cooling rate
Gradient temperature setting range
Gradient range
Adapter block material
Display
Input
User defined file system
Power failure protection
Voltage
Dimension[WxDxH]
Weight

Specifications

TC1000-G
96X0.2mL PCR tube, 8X12 PCR strip or 96 well plate
4-105°C
30-110°C
±0.1°C
±0.3°C
<0.3°C
3°C/Sec
30-99°C
1-42°C
Aluminum
7" LCD 800x480
Touch panel
Max. 30 segments 99 cycles Up to 16 folder and 16 files each folder
Yes
100-120V/200-240V, 50/60Hz
280x370x250 mm
11kg

TC1000-S
96X0.2mL PCR tube, 8X12 PCR strip or 96 well plate
4-105°C
30-110°C
±0.1°C
±0.3°C
<0.3°C
3°C/Sec
-
-
Aluminum
7" LCD 800x480
Touch panel
Max. 30 segments 99 cycle Up to 16 folder and 16 files each folder
Yes
100-120V/200-240V, 50/60Hz
280x370x250 mm
11kg

ONIUB



HB120-S

Heating

Room temp.-120°C

± 0.5°C

± 0.5°C

5.5°C/min

0min-99h59min

140°C

Aluminum

100-120V/220-

240V.50Hz/60Hz

160W

175 x 290 x 85mm

3kg

Specifications

Functions
Temperature range
Temperature control
accuracy [at 37°C]
Temperature uniformity
Max. heating rate
Time setting range
Display
Overheating protection

Heating block material

Voltage

Power

Dimension[W×D×H]
Weight

HB120-S

Dry Bath

Features

- Useful for heating of samples at low temperatures.
- LED digital display of temperature and time.
- A wide range of tube holding blocks to accommodate tubes with different capacities.
- A transparent plastic Lid is available to better preserve the temperature.
- Excellent temperature accuracy and uniformity to minimize the operation error of final test.









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



HCM100-Pro& HM100-Pro

Thermo Mix

Features

- Clear and easy-to-read TFT screen.
- Excellent performance for temperature controlled mixing applications.
- Up to 9 user define programs.
- A wide range of heating blocks to accommodate tubes with different capacities.
- · Aluminum heating blocks enhance heat transfer.
- Easily interchangeable blocks with magnetic adhesion and without any tools..
- A transparent plastic lid is available to better preserve the temperature.

Specifications

Functions Temperature range Temperature control accuracy[@ 20-45°C] Temperature setting range Temperature uniformity[@ 20-45°C] Max. heating rate Max. cooling rate Mixing speed Mixing orbit Display Memory Overheating protection Heating block material Voltage Power Dimension[W×D×H] (without the heating block)

Weight

HCM100-Pro
Heating, cooling & mixing
15 degrees below room temp. (No less than 0°C) - 100°C
± 0.5°C
0.1~100°C
Max. ± 0.5°C
5.5°C/min
5°C /min(100°C-room temp.) 0.5°C/min(below room temp.)
200-1500rpm
φ3mm
TFT
Up to 9 programs
150°C
Aluminum
100-240V, 50Hz/60Hz
200W
200×235×120mm

7.3kg

HM100-Pro
Heating & mixing
Heating: room temp 100 °C
± 0.5°C
15~100°C
Max. ± 0.5 °C
5.5°C/min
-
200-1500rpm
φ3mm
TFT
Up to 9 programs
150°C
Aluminum
100-240V, 50Hz/60Hz
200W
200×235×120mm
7.3kg





HC	110-	Pro		
Dry	Rath	with	Cool	ina

Features

- · Clear and easy-to-read TFT screen.
- · Suitable for heating and cooling.
- Up to 9 user define programs.
- Control temperature from 25 degrees below room temp. (No less than -5°C) to 110°C.
- · A wide range of heating blocks to accommodate tubes with different capacities.
- · Aluminum heating blocks enhance heat transfer.
- · Quick replace of blocks with magnet adhesion without any
- · A transparent plastic Lid is available to better preserve the temperature.

Cat Na	
Cat.ivo.	

18900401

18900402

18900403

18900404



Blocks

Speed 1500rpm

Capacity

Diameter x Depth

8.1x26mm



1500rpm 24x1.5mL 10.9x30.8mm

24x0.5mL



1500rpm 24x2mL 10.9x30.8mm



8x5mL 1500rpm (round bottom)

13.6x42mm

18900405

8x5mL 1400rpm (cone bottom) 17x51.5mm

8x15ml 800rpm

16.9x80mm

18900407

18900406

600rpm 4x50mL

29.6x80mm

18900420



0.2mLx96 1500rpm PCR plate

18900423



1500rpm microplate

Specifications

Functions

Temperature range

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

Temperature uniformity[@20-45°C]

Max. heating rate

Max. cooling rate

Display

Memory Overheating protection

Heating block material

Voltage

Power

Dimension[W×D×H] (without the heating block)

Weight

HC110-Pro

Heating & cooling

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

-5~110°C

± 0.5°C

Max ± 0.5°C

5.5°C/min

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

Up to 9 programs 150°C aluminum

100-240V.50/60Hz

200×235×120mm

7.3kg



ONIUB LIQUID HANDLING





dPette is a handy electronic pipette useful in almost all kinds of research institutes and laboratories. dPette is precise in operation and ergonomic in hand. Motorized operation with LCD digital control reduces the RSI , increases the productivity and revolutionizes the pipetting experience of the user.

dPette+

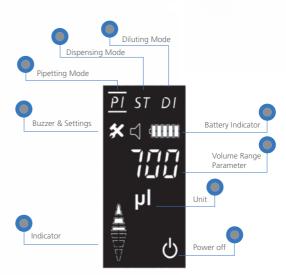
Multifunctional Electronic Pipette

Features

- High efficiency Li-ion battery and extremely light in weight design.
- Precise control of DC motor ensures accuracy and repeatability without errors in pipetting.
- A versatile pipette with pipetting, mixing, stepper and dilution functions.
- Only 2 knobs to minimize the time spending on setting.
- Independent speed settings for aspiration and dispensing for different applications.
- Long lasting Li-ion battery to avoid frequent recharging.
- The unique design of charging stands ensures easy recharge at any time.
- Self-calibration with calibration software when connected to PC via USB.









ONIUB

	Volume	Increment	Test	in		sible errors ce to ISO86	
Channels -	range		volume	Accura	cy error	Precisio	n error
	μL	μL	μL	μL	%	s.d.*μL	CV%*
1	1 0.5-10	0.01	10	±0.10	±1.00	0.05	0.50
'		0.5-10 0.01	1	±0.035	±3.50	0.03	3.00
1	5-50	0.1	50	±0.40	±0.80	0.15	0.30
'	5-50	0.1	5	±0.15	±3.00	0.125	2.50
1	30-300	1	300	±1.80	±0.60	0.60	0.20
ı	30-300	3U-3UU I	30	±0.90	±3.00	0.21	0.70
1	100 1000	5	1000	±6.00	±0.60	2.00	0.20
1	100-1000 5	100	±3.00	±3.00	0.60	0.60	

^{*} s.d. = Standard Deviation

^{*}CV = Coefficient of Variation





MicroPette plus

Features

- Fully autoclavable.
- Light in weight with high quality spring and plunger mechanism.
- Easy volume adjustment with one hand only.
- High accuracy and precision.
- Easy calibration and maintenance.
- Available in 11 different volume ranges covering from 0.1µL to 10mL.
- Comfortable design with less fatigue.





MicroPette plus Multi Channel

Features

- 8 and 12 channel pipettes most suitable for 96 well plates.
- Compatible with universally accepted tip brands.
- Fully autoclavable.
- Ergonomic design minimizes RSI.
- Low force tip ejector for easy operation.



Fully autoclavable

The MicroPette Plus pipettes are fully autoclavable, enable easy cleaning and reduce the risk of contamination. Steam autoclaving can be performed at 121°C, 1 bar for 20 minutes in semi-automatic autoclaves. After autoclaving, the pipette must be cooled down and left to dry for 12 hours before use. It is recommended to check the performance of the pipette after each autoclaving. Greasing the pipette piston and seal after every 10 times of autoclaving will secure the performance.



78 | 79

14B





MicroPette

Features

- Various volume range from 0.1 to 10mL.
- The lower part of the pipettes are autoclavable with semiautomated autoclaves
- Large display for easy volume confirmation.
- High strength plastic material.
- New body design decreases the fatigue due to operation.
- Spring loaded tip cones for easy cleaning and maintenance.

MicroPette Multi Channel

121°C HALF Autoclavable

Features

- The lower part of the pipette is autoclavable at 121°C for 20 minutes in semi-automatic autoclaves.
- 8 and 12 channel pipettes covering a volume range of 0.1-10mL.
- Easy to operate with comfortable finger support.
- Manufactured with chemically resistant materials to secure long lifetime.
- Compatible with universally accepted tips.









Calibration |

All ONiLAB pipettes are compliant to ISO8655-2:2002 and are supplied with individual calibration certificates. The quality control includes gravimetric test of each pipette with distilled water at 22° C



Specifications

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

Single-channel Adjustable Volume Pipettes						
			Per	missible errors in acc	ordance with ISO865	5-2
Volume range	Increment	Test volume		cy error)		on error)
			%	μL	%	μL
		2.5µL	2.50%	0.0625	2.00%	0.05
0.1-2.5µL	0.05µL	1.25µL	3.00%	0.0375	3.00%	0.0375
		0.25µL	12.00%	0.03	6.00%	0.015
		10µL	1.00%	0.1	0.80%	0.08
0.5-10μL	0.1µL	5µL	1.50%	0.075	1.50%	0.075
		1µL	2.50%	0.025	1.50%	0.015
		20μL	0.90%	0.18	0.40%	0.08
2-20µL	0.5μL	10µL	1.20%	0.12	1.00%	0.1
		2µL	3.00%	0.06	2.00%	0.04
		50µL	0.60%	0.3	0.30%	0.15
5-50µL	0.5μL	25µL	0.90%	0.225	0.60%	0.15
		5μL	2.00%	0.1	2.00%	0.1
		100µL	0.80%	0.8	0.15%	0.15
10-100μL	1µL	50µL	1.00%	0.5	0.40%	0.2
		10µL	3.00%	0.3	1.50%	0.15
20-200µL	1µL	200µL	0.60%	1.2	0.15%	0.3
		100µL	0.80%	0.8	0.30%	0.3
		20μL	3.00%	0.6	1.00%	0.2
50-200µL 1 _ե		200µL	0.60%	1.2	0.15%	0.3
	1µL	100µL	0.80%	0.8	0.30%	0.3
		50µL	1.00%	0.5	0.40%	0.2
		1000μL	0.60%	6	0.20%	2
100-1000µL	5µL	500µL	0.70%	3.5	0.25%	1.25
		100µL	2.00%	2	0.70%	0.7
		1000µL	0.60%	6	0.20%	2
200-1000μL	5µL	500µL	0.70%	3.5	0.25%	1.25
		200µL	0.90%	1.8	0.30%	0.6
		5000µL	0.50%	25	0.15%	7.5
1000-5000μL	50µL	2500µL	0.60%	15	0.30%	7.5
		1000µL	0.70%	7	0.30%	3
		10mL	0.60%	60	0.20%	20
2-10mL	0.1mL	5mL	1.20%	60	0.30%	15
		2mL	3.00%	60	0.60%	12



8-channel Adjustable Volume Pipettes						
Volume range Increme	Permissible errors in accordance with ISO8655-2					
	Increment	Test volume	(Accurac	cy error)	(Precision	error)
			%	μL	%	μL
0.5-10µL 0.1µL	10μL	1.50%	0.15	1.50%	0.15	
	0.1µL	5μL	2.50%	0.125	2.50%	0.125
		1μL	4.00%	0.04	4.00%	0.04
5-50µL 0.5µL	50µL	1.00%	0.5	0.50%	0.25	
	0.5μL	25µL	1.50%	0.375	1.00%	0.25
		5µL	3.00%	0.15	2.00%	0.1
		300µL	0.70%	2.1	0.25%	0.75
50-300μL	5µL	150µL	1.00%	1.5	0.50%	0.75
		50μL	1.50%	0.75	0.80%	0.4

12-channel Adjustable Volume Pipettes

Volume range	Increment		Permissible errors in accordance with ISO8655-2			
		Test volume	(Accuracy	error)	(Precision error)	
			%	μL	%	μL
		10μL	1.50%	0.15	1.50%	0.15
0.5-10µL (0.1μL	5µL	2.50%	0.125	2.50%	0.125
		1µL	4.00%	0.04	4.00%	0.04
5-50µL 0.5µL		50μL	1.00%	0.5	0.50%	0.25
	0.5μL	25µL	1.50%	0.375	1.00%	0.25
		5µL	3.00%	0.15	2.00%	0.1
50-300µL		300µL	0.70%	2.1	0.25%	0.75
	5µL	150µL	1.00%	1.5	0.50%	0.75
			50μL	1.50%	0.75	0.80%

Fixed Volume Pipettes

			P	ermissible errors i ISO86	n accordance with 555-2	
Volume range	Increment	Test volume	(Accuracy	error)	(Precision	error)
			%	μL	%	μL
5μL	-	5µL	1.3%	0.065	1.2%	0.06
10μL	-	10μL	0.8%	0.08	0.8%	0.08
20μL	-	20μL	0.6%	0.12	0.5%	0.1
25μL	-	25µL	0.5%	0.125	0.3%	0.075
50μL	-	50μL	0.5%	0.25	0.3%	0.15
100µL	-	100µL	0.5%	0.5	0.3%	0.3
200µL	-	200µL	0.4%	0.8	0.2%	0.4
250µL	-	250µL	0.4%	1.0	0.2%	0.5
500μL	-	500µL	0.3%	1.5	0.2%	1.0
1000µL	-	1000µL	0.3%	3.0	0.2%	2.0
2000µL	-	2000µL	0.3%	6.0	0.15%	3.0
5000µL	-	5000µL	0.3%	15	0.15%	7.5





Features

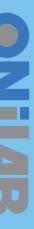
- · LCD display to observe battery level, aspiration/ dispensing speed.
- Light in weight and ergonomic design.
- Compatible with volumetric and serological pipettes.
- Compatible pipette volume range from 0.1-100mL.
- Integrated with replaceable, hydrophobic filter of 0.45µm.
- · Different speeds of selection for aspiration and dispensing.
- Lithium-ion battery enables more than 8 hours of

Silicone adapter for 0.1-100mL pipette tip, fully autoclavable intermittent use. **Specifications**

Aspiration speed	25mL<7s (8 shift)
Dispensing speed	Motor (8 shift)/Gravity
Battery	Lithium-ion
Battery service life	More than 8 Hours of Intermittence Use
Charging time	2-3 Hours
Pipette types	Glass or Plastic Pipette (0.1-100mL), Pasteur Pipettes
Filter	0.45µm Hydrophobic
Weight	200g



Hydrophobic filter 0.45µm





Levo

Pipette Controller

Features

- Designed for simple and precise pipetting control.
- Integrated with 3µm replaceable filter placed within silicone adapter.
- Aspiration and dispensing can be controlled with a sensitive lever.
- Light in weight design reduces the risk of RSI.
- Easy for both left and right handed operations.



Compress the suction bellows before attaching the pipette



Button to expel residual liquid when using blow-out pipette



Aspiration and dispensing comfortably achieved with a sensitive lever





 $3\mu m$ replaceable hydrophobic filter



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



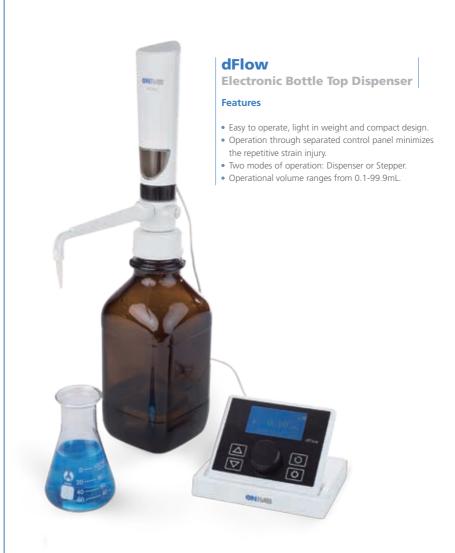






Volume range	0.01mL-99.99mL, max piston lift of 10mL, resolution at 10μL
Volume accuracy	R=0.2% CV=0.07%
Dispensing speed	16 levels adjustable
Operating temperature range	10°C-30°C
Quality standard	DIN EN ISO 8655
Control type	Separated controller with programming interface, and stirrer





Volume range	0.1-99.9mL, max piston lift of 10mL, resolution at 100 μ L		
Volume accuracy	Dispenser: R = 10mL ±30μL; CV = 10ml ±10μL Stepper: R = 1mL ±6μL; CV = 1mL ±9μL		
Operating temperature Range	10°C-30°C		
Quality standard	DIN EN ISO 8655		
Contro type	Separated controller		



DispensMate

Bottle-Top Dispenser

Features

- Material of high chemical resistance.
- All parts that get in contact with liquid are made up of PTFE/FEP/BSG or PP.
- DispensMate works on positive displacement principle.
- Autoclavable at 121°C.
- Available in four different volume ranges: 0.5-5mL, 1.0-10mL ,2.5-25mL ,5.0-50mL
- · Operating conditions:
- 1. Vapor pressure max. 500mbar; 2. Viscosity max. 500mm²/s;
- 3.Temperature max. 40°C; 4. Density max. 2.2g/cm³
- Easy to operate with volume adjustment slide.
- DispensMate is supplied with adapters of different sizes to fit with most common bottles.



Specifications

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

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

Accessories



SafeVac is designed for safe disposal of laboratory liquid waste with chemical, biological or toxic hazard. SafeVac is useful in safety dependent applications like separation of wash solutions after centrifugation, microplate waste removal and any other liquid separation or recovery.

SafeVac

Vacuum Aspiration Systems

Features

- Portable with light in weight design and built-in vacuum pump.
- Vacuum range adjustable from 0-600mbar to reach aspiration speed of 1-15 mL/s.
- Integrated hydrophobic filter of 0.45µm prevents the backflow of liquid into the vacuum pump.
- Supplied with both single channel and 8-channel needles to facilitate even 96 well-plate applications.
- Wetted parts like waste collection bottle, tubing and handle are fully autoclavable. (At 121°C 1 bar for 20 minutes. After autoclaving the equipment must be cooled down before use.)

Vacuum range	0-600mbar			
Aspiration speed	1-15mL/s			
Autoclavable component	tubing; waste bottle; operation handle;			
Dimension[W×D×H]	180×240×450mm			
Weight	3kg			
Voltage	100-240VAC, 50/60 Hz			
Bottle capacity	4L			



Hydrophobic filter 0.45µm Φ6mm



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