

Magnetic stirrers (with heating)

자력 교반기 (가열식)



KMS-181E LCD Display Heating Magnetic Stirrers



▶ KMS-181E



Features

- Twice PID control power adjustment system ensure heated liquid reach setting temperature rapidly and then maintain a stable status
- Store stirring bar in socket to prevent unexpected lose
- Additional temperature control circuit ensure temperature stability in case one of the circuits malfunctions
- Integrated temperature sensor precisely control heating plate temperature
- Adjustable safety temperature setting accompany by digital display and prevention of unexpected setting change
- Keyboard lockable to prevent unexpected operation to change the working status
- External connected contact thermometer (KES-061F) enables precise temperature control
- Hot surface warning remain highlighted even when switch off to better prevent burns
- Clockwise/Counter Clockwise stirring ensure better stirring
- Display all setting and parameter via LCD screen
- Brushless motor ensure longer working life

▶ Optional accessories (page 5)

Specifications



Model	KMS-141E	KMS-171E	KMS-151E	KMS-181E
Ident. No.	K821391	K821390	K821385	K821384
Maximum stirred quantity(H ₂ O)	20L	20L	20L	20L
Motor rating output	5W	5W	5W	5W
Rotation Speed range	100 – 1800rpm	100 – 1800rpm	100 – 1800rpm	100 – 1800rpm
Reverse of rotation direction	45 seconds	45 seconds	45 seconds	45 seconds
Heat output	300W	300W	600W	600W
Plate temperature setting range	RT – 260 °C	RT – 260 °C	RT – 340 °C	RT – 340 °C
Sensor temperature setting range	RT – 160 °C	RT – 160 °C	RT – 320 °C	RT – 320 °C
Safety temperature	-	-	50 – 360 °C	50 – 360 °C
Heating plate control accuracy	±5 °C	±5 °C	±5 °C	±5 °C
External connected temperature sensor (Standard)	Pt1000 (±1°C)	Pt1000 (±1°C)	Pt1000 (±1°C)	Pt1000 (±1°C)
External connected contact thermometer (Optional)	-	-	KES-061F (±0.5°C)	KES-061F (±0.5°C)
Timer	-	0 – 9 hour	-	0 – 9 hour
Display	LCD	LCD	LCD	LCD
Heating plate material	Stainless steel	Stainless steel	Aluminum alloy	Aluminum alloy
Heating plate Dimensions	Ø135mm	Ø135mm	Ø135mm	Ø135mm
Dimensions (W x H x D)	175x270x76mm	175x270x76mm	175x270x76mm	175x270x76mm
Weight	2.6kg	2.6kg	2.6kg	2.6kg
Voltage & Frequency	220V, 50/60Hz	220V, 50/60Hz	220V, 50/60Hz	220V, 50/60Hz

Magnetic stirrers (with heating)

자력 교반기 (가열식)



KMS-181B LED Display Heating Magnetic Stirrers



▶ KMS-181B



Features

- Innovative touch and slide control panel ultimately avoid liquid outflow damage through knob-panel interspaces
- Store stirring bar in socket to prevent unexpected lose
- Additional temperature control circuit ensure temperature stability in case one of the circuits malfunctions
- Integrated temperature sensor precisely control heating plate temperature
- Hot surface warning remain highlighted even when switch off to better prevent burns
- External connected contact thermometer (KES-061F) enables precise temperature control
- Original designed straight forward LED scale display
- Brushless motor ensure longer working life

▶ Optional accessories (page 5)

Specifications



Model	KMS-141B	KMS-171B	KMS-151B	KMS-181B
Ident. No.	K821389	K821388	K821387	K821386
Maximum stirred quantity(H ₂ O)	20L	20L	20L	20L
Motor rating output	5W	5W	5W	5W
Rotation Speed range	100 – 2100rpm	100 – 2100rpm	100 – 2100rpm	100 – 2100rpm
Heat output	300W	300W	600W	600W
Plate temperature setting range	60 – 260 °C	60 – 260 °C	30 – 330 °C	30 – 330 °C
Safety temperature	280 °C	280 °C	360 °C	360 °C
Heating plate control accuracy	±5 °C	±5 °C	±5 °C	±5 °C
External connected temperature sensor (Standstd)	-	-	KES-061F (±0.5°C)	KES-061F (±0.5°C)
Timer	-	0 – 6 hour	-	0 – 6 hour
Display	LED Scale	LED Scale	LED Scale	LED Scale
Heating plate material	Stainless steel	Stainless steel	Aluminum alloy	Aluminum alloy
Heating plate Dimensions	Ø135mm	Ø135mm	Ø135mm	Ø135mm
Dimensions (W x H x D)	175x270x76mm	175x270x76mm	175x270x76mm	175x270x76mm
Weight	2.6kg	2.6kg	2.6kg	2.6kg
Voltage & Frequency	220V, 50/60Hz	220V, 50/60Hz	220V, 50/60Hz	220V, 50/60Hz

Magnetic stirrers (without heating)

자력 교반기 (비가열식)



KMS-121E LCD Display Magnetic Stirrers



▶ KMS-121E



Features

- Innovative touch and slide control panel ultimately avoid liquid outflow damage through knob-panel interspaces
- Store stirring bar in socket to prevent unexpected lose
- Clockwise/Counter Clockwise stirring ensure better stirring
- Display all setting and parameter via LCD screen
- Brushless motor ensure longer working life
- High magnetic adhesion
- Highly polished mirror stainless steel plate

▶ Optional accessories (page 5)

Specifications



Model	KMS-101B	KMS-121B	KMS-121E
Ident. No.	K821394	K821393	K821392
Maximum stirred quantity(H ₂ O)	20L	20L	20L
Motor rating output	5W	5W	5W
Rotation Speed range	100 – 2100rpm	100 – 2100rpm	100 – 1800rpm
Reverse of rotation direction	-	-	45 seconds
Timer	-	0 – 5.5 hour	0 – 9 hour
Display	LED Scale	LED Scale	LCD
Plate material	304 stainless steel	304 stainless steel	304 stainless steel
Plate Dimensions	Ø135mm	Ø135mm	Ø135mm
Dimensions (W x H x D)	175x270x76mm	175x270x76mm	175x270x76mm
Weight	2.5kg	2.5kg	2.5kg
Voltage & Frequency	220V, 50/60Hz	220V, 50/60Hz	220V, 50/60Hz

Magnetic stirrers (without heating)

자력 교반기 (비가열식)



KMS-321D-BP Ultra-thin Magnetic Stirrers



Specification



Model	KMS-321D-BP
Ident. No.	K821395
Maximum stirred quantity(H ₂ O)	1L
Motor rating output	3W
Rotation Speed range	20 – 1500rpm
Reverse of rotation direction	45 seconds
Timer	0 – 9 hour
Display	LCD
Plate material	polyester
Plate Dimensions	Ø100mm
Dimensions (W x H x D)	110×180×12mm
Weight	0.2kg
Power adapter Input	100 – 240V, 50/60Hz
Power adapter Output	DC 12V, 1A

Features

- Original design for elegant and smooth operation with simple touch and slide on finger tip
- LCD displaying real time parameters
- Clockwise/Counter Clockwise stirring ensure better stirring
- Advance wear free magnetic coil technology, thinner, lighter, quieter
- Timer for stirring

KMS-521D/501 Modular Multi-position Magnetic stirrers



Specification



Model	KMS-521D/501
Ident. No.	K821398/K821399
Maximum stirred quantity(H ₂ O)	0.5L
Motor rating output	1W
Rotation Speed range	100 – 1500rpm
Reverse of rotation direction	45 seconds
Timer	0 – 9 hour
Display	LCD
Plate material	glass
Plate Dimensions	Ø92mm
Dimensions (W x H x D)	109×122×40mm
Weight	0.3kg
Power adapter Input	100 – 240V, 50/60Hz
Power adapter Output	DC 12V, 1A

Features

- Assembled(modular) magnetic stirrers. The stirrer units can be added or reduced freely, and the shape/direction of combination can be adjusted as you desired
- Convenient USB interface design enable simple and prompt plug in/out
- Original design for elegant and smooth operation with simple touch and slide on finger tip
- Light emitting edge circle on the plate leads to accurate position
- Clockwise/Counter Clockwise stirring ensure better stirring
- LCD displaying real time parameters
- Chemical corrosion-resistant glass plate
- Timer for stirring

Magnetic stirrers (with heating)

Accessories

Accessories

KES-061F Contact Temperature Thermometer



Model	KES-061F
Ident. No.	K821402
Temperature measuring range	0 – 450 °C
Temperature measuring resolution	0.1 °C
Pt1000 measuring tolerance	±0.2 °C
Heating temperature control accuracy	±0.1 °C
Temperature control deviation (using Pt1000)	±0.5 °C
Dimensions (W x H x D)	63x86x42mm
Weight	0.13kg

Pt1000S Temperature Sensor(Stainless steel)



Model	Pt1000S
Ident. No.	K821403
Temperature measuring range	-50 – 450 °C
Max. immersion depth	220mm
Sensor Dimensions	Ø3mm

P 450 Support rod



P 55 Holding rod



P 165 Boss head clamp



Magnetic stirrers (with heating)

자력 교반기 (가열식)

KHS 5, 5-1 digital



▶ KHS 5 digital (Button type)



▶ KHS 5-1 digital (Knob type)

특징

- 알루미늄 합금으로 제작된 가열판은 빠른 가열과 전체의 표면 온도를 균일하게 유지
- 정확한 온도 측정/제어
- Timer 기능 (1 ~ 255min)
- 최대 20L(물기준) 교반 가능
- 내구성이 우수한 Brushless DC Motor 사용으로 부드럽고 안정적인 교반
- 강력한 자력으로 Stirring bar 이탈방지
- 교반 시작시 Smooth start 기능으로 시료의 넘침 현상을 방지
- PT100 온도센서, Clamp, Support rod 기본 포함

Specification

Model	KHS 5 digital	KHS 5-1 digital
Ident No	K310000	K310001
Stirring quantity (H ₂ O)		20,000 ml
Speed range		50 ~ 1,500 rpm
Control	button	knob
Digital display	temperature, speed, timing	
Time	1 ~ 255 min	
Heating power	600 W	
Liquid temperature	RT ~ 250 °C	
Heat control accuracy	± 0.5 K	
Adjustable safety circuit	350 °C	
Heating plate temperature range	50 ~ 320 °C	
Connection for ext. temperature sensor	PT 100	
Heating plate material	aluminium alloy	
Heating plat dimensions	Ø 145 mm	
Dimensions (W x D x H)	160 x 280 x 90 mm	
Weight	2.7 kg	



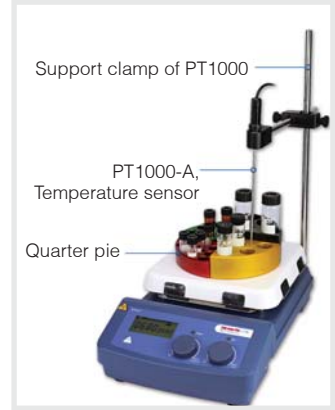
Magnetic stirrers (with heating)

자력 교반기 (가열식)

MS7-H550-Pro BlueSpin LCD Digital Magnetic Hotplate Stirrers



▶ MS7-H550-Pro



Features

- Ceramic-Glass Hotplate
- Room temp. – 550°C
- Control accuracy of work plate: $\pm 1^\circ\text{C}(\langle 100^\circ\text{C} \rangle) \pm 1\%(\rangle 100^\circ\text{C})$
- PT-1000 sensor option, control accuracy of $\pm 0.2^\circ\text{C}$
- Brushless DC motor, maintenance free and explosion-proofed
- Electronic speed control, 100–1500 rpm
- Backlit LCD display
- Hot warning above 50°C

▶ Optional accessories (page 8)

Specification of BlueSpin Hotplate Magnetic Stirrers



Model	MS7-H550-Pro	MS7-H550-S	MS-H-Pro+	MS-H-S	MS-H280-Pro
Cat. No.	813223020000	813221020000	861442220000	811421050000	861431220000
Dimension of work plate [mm]	184x184 (7 inch)	184x184 (7 inch)	Ø 135 (5 inch)	Ø 135 (5 inch)	Ø 135 (5 inch)
Work plate material	Glass ceramic	Glass ceramic	Stainless steel with ceramic coated hotplate	Stainless steel with ceramic coated hotplate	Stainless steel with ceramic coated hotplate
Motor type	DC brushless motor	Shaded pole motor	DC brushless motor	DC brushless motor	DC motor
Motor rating input [W]	18	15	18	18	5
Motor rating output [W]	10	1.5	10	10	5
Power [W]	1,050	1,030	550	530	515
Voltage [VAC]	100-120/200-240	100-120/200-240	200-240	200-240	100-120/200-240
Frequency [Hz]	50/60	50/60	50/60	50/60	50/60
Stirring positions	1	1	1	1	1
Max. stirring quantity [HzO], L	20	10	20	20	3
Max. magnetic bar (L x Ø) [mm]	80	80	80	80	50
Speed range [rpm]	100-1,500	0-1,500	100-1,500	0-1,500	100-1500
Speed display	LCD	Scale	LCD	Scale	LED
Heating output [W]	1,000	1,000	500	500	500
Heating temperature range [°C]	RT-550, increment 1	RT-550, increment 5	RT-340, increment 1	RT-340	RT-280, increment 1
Safety temperature [°C]	580	580	360	350	320
Temperature display	LCD	LED	LCD	Scale	LED
External temperature sensor	PT1000	PT1000	PT1000	N/A	PT1000
Remote control (RS232 interface)	Yes	N/A	Yes	N/A	N/A
Dimension [W x D x H] mm	215x360x112	215x360x112	160x280x85	160x280x85	150x260x80
Weight [kg]	5.3	4.5	2.8	2.8	1.8

Magnetic stirrers (with heating)

Accessories

Accessories, BlueSpin Magnetic Hotplate Stirrers



Model	Blue carrying plate	Blue Fixed ring	Red quarter pie	Purple quarter pie	Blue quarter pie	Black quarter pie
Cat. No.	18900001	18900065	18900002	18900003	18900004	18900005
Descriptions	Use with color quarter pies	use with color quarter pies	11 holes, 4 ml reaction vessel, Ø15.2mm, 20mm depth	4 holes, 20 ml reaction vessel, Ø28mm, 24mm depth	4 holes, 30 ml reaction vessel, Ø28mm, 30mm depth	4 holes, 40 ml reaction vessel, Ø28mm, 43mm depth
<p>Magnetic hotplate stirrers are available to hold quarter color pies (volume range from 4ml to 16ml) and reaction blocks (volume range from 50ml to 500ml), which ensure uniform heating distribution and excellent resistance to chemicals. The color pies and blocks with aluminum material which are easy to clean and safety for lab.</p>						
Used with Model						
MS7-H550-Pro			○	○	○	○
MS7-H550-S			○	○	○	○
MS-H-Pro+	○	○	○	○	○	○
MS-H-S	○	○	○	○	○	○
MS-H280-Pro						



Model	Green quarter pie	Golden quarter pie	Reaction block for 50ml	Reaction block for 100ml	Reaction block for 250ml	Reaction block for 500ml
Cat. No.	18900048	18900049	18101006	18101007	18101008	18101009
Descriptions	6 holes, 8ml reaction vessel, Ø17.8mm, 26mm depth	4 holes, 16ml reaction vessel, Ø21.6mm, 31.7mm depth	50ml round bottom flask (one flask capacity)	100ml round bottom flask (one flask capacity)	250ml round bottom flask (one flask capacity)	500ml round bottom flask (one flask capacity)
<p>Magnetic hotplate stirrers are available to hold quarter color pies (volume range from 4ml to 16ml) and reaction blocks (volume range from 50ml to 500ml), which ensure uniform heating distribution and excellent resistance to chemicals. The color pies and blocks with aluminum material which are easy to clean and safety for lab.</p>						
Used with Model						
MS7-H550-Pro	○	○				
MS7-H550-S	○	○				
MS-H-Pro+	○	○	○	○	○	○
MS-H-S	○	○	○	○	○	○
MS-H280-Pro			○	○	○	○



Model	F101 protective cover	PT1000-A	PT1000-B	PT1000-C	Support clamp of PT1000	Support clamp of PT1000
Cat. No.	18900019	18900016	18900136	18900084	18900017	18900148
Descriptions	F101 protective cover, for hotplate models, temperature resistance of 135°C	PT1000-A, temperature sensor for digital hotplate models, length of 230mm, used for digital hotplate models.	PT1000-B, temperature sensor with glass coated length of 230mm, used for digital hotplate models.	PT1000-C, temperature sensor for digital hotplate models, length of 100mm, used for digital hotplate models.	Support clamp of PT1000	Support clamp of PT1000, use with MS-H280-PRO
Used with Model						
MS7-H550-Pro		○	○	○	○	○
MS7-H550-S		○	○	○	○	○
MS-H-Pro+	○	○	○	○	○	○
MS-H-S	○				○	
MS-H280-Pro		○	○	○		○

Magnetic stirrers (without heating)

자력 교반기 (비가열식)

MS7-Pro BlueSpin LCD Digital Magnetic Stirrers



▶ MS7-Pro

Features

- Speed range of 100–1500 rpm
- Max. stirring quantity 20L
- Glass ceramic plate is extremely resistant to corrosion and easily clean
- LCD displays target and actual speeds
- Brushless DC motor maintenance free and explosion–proofed, accurately control speed

Specification of BlueSpin Magnetic Stirrers



Model	MS7-Pro	MS-S	MS-PA	MS-PB	FlatSpin
Cat. No.	813213020000	811111080000	861521230000	861520230000	863520230000
Dimension of work plate [mm]	184x184 (7 inch)	Ø 135 (5 inch)	Ø 135 (5 inch)	Ø 135 (5 inch)	Ø 135 (5 inch)
Work plate material	Glass ceramic	Stainless steel with ceramic coated	Plastic	Plastic	ABS
Motor type	DC brushless motor	DC brushless motor	DC motor	DC motor	DC motor
Motor rating input [W]	18	18	5	5	5
Motor rating output [W]	10	10	3	3	3
Power [W]	50	30	15	10	
Voltage [VAC]	200-240	100-240	100-240	100-240	100-240
Frequency [Hz]	50/60	50/60	50/60	50/60	50/60
Stirring positions	1	1	1	1	1
Max. stirring quantity[H ₂ O], L	20	20	3	3	0.8
Max. magnetic bar(L x Ø) [mm]	80	80	50	50	50
Speed range [rpm]	100-1,500	0-1,500	100-1,500	0-1,500	15-1,500
Speed display	LCD	Scale	LED	Scale	Button
Dimension [W x D x H] mm	215x360x112	160x280x85	150x260x80	150x260x80	175x120x15
Weight [kg]	5.3	2.8	1.8	1.8	0.3

Magnetic stirrers (multi-position)

자력 교반기 (multi-position)

MS-H-S10 BlueSpin 10-Channel Classic Magnetic Hotplate Stirrer



▶ MS-H-S10

Features

- Heating temperature up to 120°C
- High-performance multi-position magnetic stirrer with uniform temperature distribution
- Individually controlled stirring for consistency with various samples
- Electronic speed control motor provides constant speed
- DC brushless motor maintenance free and quiet running
- Stainless steel plate with silicone films, anti-slip and anti-corrosion

Specification

Model	MS-H-S10
Cat. No.	811321030000
Dimension of work plate [mm]	180x450
Work plate material	Stainless steel with silicone Film
Motor type	DC brushless motor
Motor rating input [W]	12
Motor rating output [W]	4
Power [W]	490
Voltage [VAC]	200-240
Frequency [Hz]	50/60
Stirring positions	10
Max. stirring quantity[H ₂ O], L	0.4 (each stirring position)
Max. magnetic bar(L x Ø) [mm]	40
Speed range [rpm]	0-1100
Speed display	Scale
Heating output [W]	470
Heating temperature range [°C]	RT-120
Safety temperature [°C]	140
Temperature display	Scale
External temperature sensor	N/A
Remote control (RS232 interface)	N/A
Dimension [W x D x H] mm	182x552x65
Weight [kg]	3.2

MS-M-S10 BlueSpin 10-Channel Classic Magnetic Stirrer



▶ MS-M-S10

Features

- Speed range of 0-1100rpm
- High-performance magnetic stirrer with 10 stirring positions benefit laboratory space
- Individually controlled stirring for consistency with various samples
- DC brushless motor maintenance free and provides constant speed
- Stainless steel plate with silicone films, anti-slip and anti-corrosion

Specification

Model	MS-M-S10
Cat. No.	811311030000
Dimension of work plate [mm]	180x450
Work plate material	Stainless steel with silicone Film
Motor type	DC brushless motor
Motor rating input [W]	12
Motor rating output [W]	4
Power [W]	20
Voltage [VAC]	200-240
Frequency [Hz]	50/60
Stirring positions	10
Max. stirring quantity[H ₂ O], L	0.4 (each stirring position)
Max. magnetic bar(L x Ø) [mm]	40
Speed range [rpm]	0-1100
Speed display	Scale
External temperature sensor	N/A
Remote control (RS232 interface)	N/A
Dimension [W x D x H] mm	182x552x65
Weight [kg]	3.2

Overhead stirrers (Electronic)

교반기

BDC 2002 digital



▶ BDC 2002 digital



특징

- 다량의 저점도 및 소량의 중점도 시료의 교반 작업을 위해 제작된 실험용 교반기
- Brushless DC Motor 사용으로 소음이 적고, 안정적으로 구동
- Overload protection 기능으로 기기 과부하 방지
- 최대 20 L (물 기준)의 처리 용량
- 40 ~ 2,000 rpm 범위의 속도 조절 (RPM Digital display)
- 간단한 조작 방법과 교반봉 교체 용이
- 관통식 본체로 교반봉의 길이를 상하로 조절이 가능
- 전원 off 전 마지막 rpm 속도 recall 기능
- Light 기능

▶ Optional accessories (page 18), stirring elements (page 14)

Specification

Model	BDC 2002 digital
Ident. No.	K210000
Input Power	70 W
Output Power	50 W
Speed range	40 ~ 2,000 rpm
Speed display	digital
LED display accuracy	+/- 1 rpm or 3% of reading
Volume range (H ₂ O)	25,000 ml
Max. Torque	70 N-cm
Max. viscosity	15,000 mPas
Dimensions (W x D x H)	76 x 152 x 197 mm
Weight	3 kg



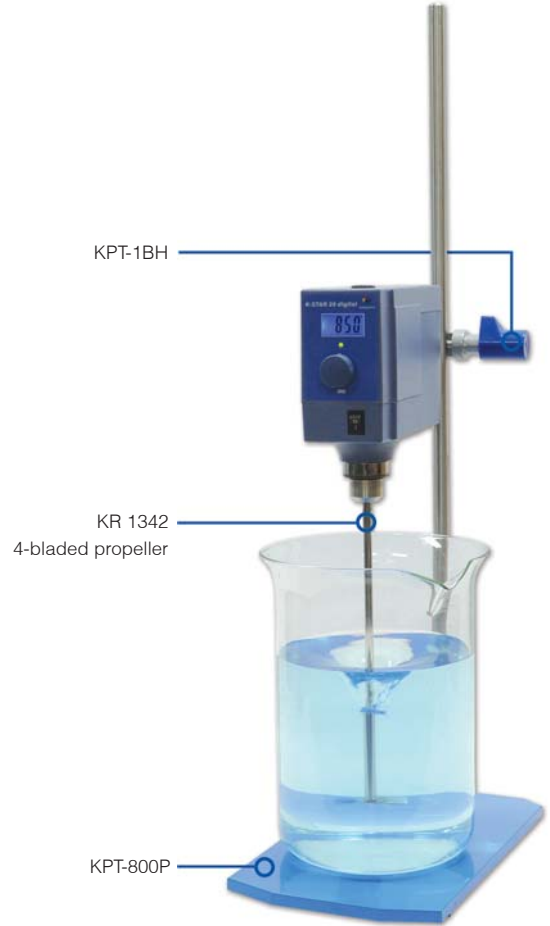
Overhead stirrers (Electronic)

교반기

K-STAR 20 digital



▶ K-STAR 20 digital



특징

- 다량의 저점도 및 소량의 증점도 시료의 교반 작업을 위해 제작된 실험용 교반기
- Brushless DC Motor 사용으로 소음이 적고, 안정적으로 구동
- Overload protection 기능으로 기기 과부하 방지
- 최대 20 L (물 기준)의 처리 용량
- 50 ~ 2,000 rpm 범위의 속도 조절 (RPM Digital display)
- 간단한 조작 방법과 교반봉 교체 용이
- 관통식 본체로 교반봉의 길이를 상하로 조절이 가능

▶ Optional accessories (page 18), stirring elements (page 14)

Specification

Model	K-STAR 20 digital
Ident. No.	K230002
Motor capacity	100 W
Speed range	50 ~ 2,000 rpm
Speed display	digital
Volume range (H ₂ O)	20,000 ml
Max. viscosity	10,000 mPas
Chuck range	Ø 1.5 ~ 10 mm
Dimensions (W x D x H)	85 x 190 x 195 mm



Overhead stirrers (Electronic)

교반기

KE 20 digital



▶ KE 20 digital



특징

- 다량의 저점도 및 소량의 증점도 시료의 교반 작업을 위해 제작된 실험용 교반기
- Brushless DC Motor 사용으로 소음이 적고, 안정적으로 구동
- 최대 20 L (물 기준)의 처리 용량
- 60 ~ 2,000 rpm 범위의 속도 조절 (RPM Digital display)
- 간단한 조작 방법과 교반봉 교체 용이

▶ Optional accessories (page 18), stirring elements (page 14)

Specification

Model	KE 20 digital
Ident. No.	K220000
Motor capacity	100 W
Speed range	60 ~ 2,000 rpm
Speed display	digital
Volume range (H ₂ O)	20,000 ml
Max. viscosity	10,000 mPas
Chuck range	Ø 1.5 ~ 10 mm
Dimensions (W x D x H)	90 x 220 x 160 mm



Overhead stirrers (Electronic)

Stirring elements

Stirring elements

Propeller stirrer, 4-bladed

Standard stirring element. For drawing the material to be mixed from the top to the bottom. Local shearing forces. Generates axial flow in the vessel. Used at medium to high speeds.



Model	KR 1342	KR 1345
Ident. No.	KS0025	KS0026
Stirrer Ø	50 mm	100 mm
Shaft Ø	8 mm	8 mm
Shaft length	350 mm	540 mm
Max. speed	2,000 rpm	800 rpm

Propeller stirrer, 3-bladed

Flow-efficient design. For drawing the material to be mixed from the top to the bottom. Minimum shearing forces. Used at medium to high speeds.



Model	KR 1381	KR 1382	KR 1389(PTFE)
Ident. No.	KS0030	KS0031	KS0034
Stirrer Ø	45 mm	55 mm	75 mm
Shaft Ø	8 mm	8 mm	8 mm
Shaft length	350 mm	350 mm	350 mm
Max. speed	2,000 rpm	2,000 rpm	800 rpm

Turbine stirrer

For drawing the material to be mixed from above. Generates axial flow in the vessel. Minimum danger of injury when contact is made with vessel. Minimum shearing forces. Used at medium to high speeds.



Model	KR 1311	KR 1312
Ident. No.	KS0018	KS0019
Stirrer Ø	30 mm	50 mm
Shaft Ø	8 mm	8 mm
Shaft length	350 mm	350 mm
Max. speed	2,000 rpm	2,000 rpm

Dissolver stirrer

Radial flow, for drawing the material to be mixed from the top and the bottom. High turbulence, high shearing forces. Particle reduction. Used at medium to high speeds.



Model	KR 1300	KR 1303
Ident. No.	KS0015	KS0017
Stirrer Ø	80 mm	42 mm
Shaft Ø	8 mm	8 mm
Shaft length	350 mm	350 mm
Max. speed	2,000 rpm	2,000 rpm

Centrifugal stirrer

Two-bladed, blades open with increasing speed. For stirring in round vessels with narrow necks. Effect is similar to that of a 4-bladed propeller stirrer. Medium to high speeds required.



Model	KR 1352
Ident. No.	KS0029
Stirrer Ø	60 / 15 mm
Shaft Ø	8 mm
Shaft length	350 mm
Max. speed	2,000 rpm

Paddle stirrer

Tangential flow, minimum turbulence, good heat exchange, gentle treatment of product. Used at low to medium speeds.



Model	KR 1375
Ident. No.	KS0019
Stirrer Ø	70 mm
Shaft Ø	8 mm
Shaft length	550 mm
Max. speed	800 rpm

Anchor stirrer

Tangential flow, high shearing rate at edges, minimum deposits on the vessel wall. Used at low speeds. Polymer reactions, even distribution of high mineral contents in liquids. The ideal stirrer for medium to highly viscous fluids.



Model	KR 1330	KR 1331
Ident. No.	KS0021	KS0022
Stirrer Ø	45 mm	90 mm
Shaft Ø	8 mm	8 mm
Shaft length	350 mm	350 mm
Max. speed	1,000 rpm	1,000 rpm

Overhead stirrers (Electronic)

교반기

OS20-S / OS40-S LED Digital Overhead Stirrers



▶ OS20-S



▶ OS40-S

Features

- High reliability, long continuous service, outstanding performance
- Cover the speed range from 0 to 2200rpm, the speed is accurate and controlled
- Brushless DC motor drive, low noise and maintenance free
- LED displays actual speed
- Overload protection – motor would automatically stop in case of continuous overload
- Anti-spill samples – PC control system starts up smoothly, prevent samples overflow

▶ Optional accessories, stirring elements (page 17)

Specification of OS20-S / OS40-S

Model	OS20-S	OS40-S
Cat. No.	840102210000	840202210000
Max. stirring quantity(H ₂ O)[L]	20	40
Motor rating input[W]	60	120
Motor rating output[W]	50	100
Voltage[VAC]	100-240	100-240
Frequency [Hz]	50/60	50/60
Power[W]	70	130
Speed range[rpm]	0-2200	0-2200
Speed display	LED	LED
Max. torque[Ncm]	40	60
Torque display	-	-
Viscosity max. [mPas]	10,000	50,000
Chuck range diameter[mm]	0.5-10	0.5-10
Dimension[W × H × D] (mm)	83 × 220 × 186	83 × 220 × 186
Weight[kg]	2.6	2.8
Remote control(RS232 interface)	N/A	N/A



Overhead stirrers (Electronic)

교반기

OS20-Pro / OS40-Pro LCD Digital Overhead Stirrers



▶ OS20-Pro



▶ OS40-Pro

Features

- High reliability, long continuous service, outstanding performance
- Cover the speed range from 50 to 2200rpm, the speed is accurate and controlled
- Brushless DC motor drive, low noise and maintenance free
- Setting value and actual value can be displayed, real-time monitoring torque and speed via LCD display
- Overload protection – motor would automatically stop in case of continuous overload
- Anti-spill samples – PC control system starts up smoothly, prevent samples overflow
- Extended application – PC can control and document all operation values via RS232 interface.

▶ Optional accessories, stirring elements (page 17)

Specification of OS20-Pro / OS40-Pro

Model	OS20-Pro	OS40-Pro
Cat. No.	840103210000	840203210000
Max. stirring quantity(H ₂ O)[L]	20	40
Motor rating input[W]	60	120
Motor rating output[W]	50	100
Voltage[VAC]	100-240	100-240
Frequency [Hz]	50/60	50/60
Power[W]	70	130
Speed range[rpm]	50-2200	50-2200
Speed display	LCD	LCD
Max. torque[Ncm]	40	60
Torque display	LCD	LCD
Viscosity max. [mPas]	10,000	50,000
Chuck range diameter[mm]	0.5-10	0.5-10
Dimension[W × H × D] (mm)	83 × 220 × 186	83 × 220 × 186
Weight[kg]	2.6	2.8
Remote control(RS232 interface)	Yes	Yes



Overhead stirrers (Electronic)

Accessories

Accessories

Universal plate stand

Universal plate stand (W x D: 20 x 31cm), including support holder (H: 78cm) and fixing device
Cat. No.: 18900131



Crossed stirrer

Crossed stirrer, shaft length 40cm, stirrer diameter 5cm, 316L stainless steel
Standard stirring element, used at medium and high speeds
Cat. No.: 18900071



Straight stirrer

Straight stirrer, shaft length 40cm, stirrer diameter 6cm, 316L stainless steel
Suitable for mixing of low viscosity media, used at medium and high speeds
Cat. No.: 18900072



Blade stirrer

Blade stirrer, shaft length 40cm, stirrer diameter 6.8cm, 316L stainless steel
Gentle processing samples, used at low and medium speeds
Cat. No.: 18900073



Centrifugal stirrer

Centrifugal stirrer, shaft length 40cm, stirrer diameter 9cm, 316L stainless steel
Blades open with increasing speed for stirring in a round vessel with a narrow neck, used at medium and high speeds
Cat. No.: 18900074



Crossed stirrer (PTFE coated)

Crossed stirrer, shaft length 35cm, stirrer diameter 6.5cm, PTFE coated
Standard stirring element, used at medium and high speeds
Cat. No.: 18900075



Straight stirrer (PTFE coated)

Straight stirrer, shaft length 35cm, stirrer diameter 7cm, PTFE coated
Suitable for mixing of low viscosity media, used at medium and high speeds
Cat. No.: 18900076



Blade stirrer (PTFE coated)

Blade stirrer, shaft length 35cm, stirrer diameter 6.8cm, PTFE coated
Gentle processing samples, used at low and medium speeds
Cat. No.: 18900077



Centrifugal stirrer (PTFE coated)

Centrifugal stirrer, shaft length 35cm, stirrer diameter 8.5cm, PTFE coated
Blades open with increasing speed for stirring in a round vessel with a narrow neck, used at medium and high speeds
Cat. No.: 18900078



Various Stands / Fitting Accessories

Stands



Model	KPT-TTS-S	KPT-TTS-T	KPT-MS-mini	KPT-600H	KPT-800H
Ident. No.	K510001	K510002	K510003	K510006	K510007
Diameter of support rod	10 mm	10 mm	10 mm	13 mm	13 mm
Dimensions (W x D)	180 x 200 mm	180 x 200 mm	250 x 385 mm	300 x 340 mm	500 x 420 mm
Height	470 mm	470 mm	470 mm	600 mm	800 mm
Max. load	1 Kg	1 Kg	1 Kg	5 Kg	5 Kg



Model	KPT-800P	KPT-700U	KPT-1000H	KPT-1000TH
Ident. No.	K510005	K510010	K510008	K510009
Diameter of support rod	16 mm	19 mm	34 mm	34 mm
Dimensions (W x D)	200 x 320 mm	390 x 300 mm	460 x 420 mm	460 x 420 mm
Height	800 mm	700 mm	1,000 mm	500 ~ 1,000 mm
Max. load	5 Kg	3 Kg	10 Kg	10 Kg

Boss heads



Model	KPT-5BH	KPT-10BH	KPT-1BH	KPT-2BH	KPT-50BH
Ident. No.	K530001	K530002	K530003	K530004	K530006
Diameter of rod	11 mm	13 mm	6~16 mm	13 mm	16 mm
Material	aluminum	aluminum	aluminum	aluminum	aluminum

Holding clamps



Model	KPT-5HC	KPT-10HC
Ident. No.	K520001	K520002
Diameter of rod	13 mm	13 mm
Length	280 mm	280 mm

Strap clamps



Model	KPT-SC	KPT-50SC
Ident. No.	K520003	K520005
Diameter of rod	13 mm	13 mm
For vessel diameter	50~300 mm	50~300 mm

Vortex Mixers

KVM Vortex Mixer



▶ KVM
with Test tube attachment



▶ KVM
with 3-inch platform headed

특징

- 작고 매력적인 디자인
- 빠르고 강력한 교반
- Touch & Continuous 방식 가능
- 흡착패드 사용으로 고속 교반시 기기의 흔들림 최소화
- Test tube attachment, 3-inch platform headed 기본 포함

Specification

Model	KVM
Ident. No.	K800001
Shaking motion	Orbital
Orbital diameter	4 mm
Speed range	0 ~ 3,600 rpm
Speed display	Scale
Operating mode	Continuous/touch operation
Power supply	100-240 V, 50-60 Hz
Dimension [W x D x H]	143x135x100 mm
Weight	0.6 Kg

MX-E Vortex Mixer



▶ MX-E

Features

- Vortex Mixer with fixed speed is for various mixing applications
- Pressure touching start
- Fixed speed at 3,000rpm
- Eccentric bearing design
- Small compact shape, ultra shock mount

Specification

Model	MX-E
Cat. No.	825100030000
Voltage[VAC]	100-240
Frequency[Hz]	50/60
Power[W]	20
Mixing motion	Orbital
Orbital diameter[mm]	4.8
Motor rating input[W]	12
Motor rating output[W]	8
Speed range[rpm]	3,000
Run type	Touch operation
Dimensions[WxHxD]	134x134x70.5
Weight[kg]	0.8

Vortex Mixers

MX-S Vortex Mixer



▶ **MX-S**
with standard top cup VT1.1
Adjustable speed



▶ **MX-S**
with VT1.3—universal top plate and a tube adapter
Continuous operation

Specification

Model	MX-S
Cat. No.	821200090000
Voltage[VAC]	110-120/220-230
Frequency[Hz]	50/60
Power[W]	60
Mixing motion	Orbital
Orbital diameter[mm]	4
Motor rating input[W]	58
Motor rating output[W]	10
Speed range[rpm]	0-2500
Speed display	Scale
Run type	Continuous/ touch operation
Dimensions[WxHxD mm]	127x130x160
Weight[kg]	3.5

Features

- Touch and continuous operations
- MX-S with wide speed range of 0–2500rpm, stepless speed regulation
- MX-S used for various mixing applications with optional adapters, handles up to 48 tubes
- Specially designed vacuum suction feet hold to the work surface and prevent the unit from movement
- Aluminium cast base avoids unnecessary “walking”

Accessories



VT1.1 Standard top
for \varnothing30mm tubes and
small vessels
Cat No.: 18900034



VT1.3 Universal top plate
 \varnothing 100mm
Cat No.: 18900035



VT1.3.1 tube adapter
for 48 holes test tubes,
 \varnothing 6mm, used with VT1.3/
VT1.2
Cat No.: 18900020



VT1.3.2 tube adapter
for 18 holes test tubes,
 \varnothing 10mm, used with VT1.3/
VT1.2
Cat No.: 18900021



VT1.3.3 tube adapter
for 12 holes test tubes,
 \varnothing 12mm, used with VT1.3/
VT1.2
Cat No.: 18900022



VT1.3.4 tube adapter
for 8 holes test tubes,
 \varnothing 16mm, used with VT1.3/
VT1.2
Cat No.: 18900023



VT1.3.5 tube adapter
for 8 holes test tubes,
 \varnothing 20mm, used with VT1.3/
VT1.2
Cat No.: 18900024



VT1.3.6 Platform pad
for \varnothing99mm tubes and
small vessels
Cat No.: 18900043



VT1.2 Tube holding rod
used with tube adapters
Cat No.: 18900044

Microplate Mixers

MX-M Microplate Mixer



▶ **MX-M**
with microplate clamp



▶ **MX-M**
with universal top plate and a tube adapter

Specification

Model	MX-M
Cat. No.	822000020000
Voltage[VAC]	100-240
Frequency[Hz]	50/60
Power[W]	20
Mixing motion	Orbital
Orbital diameter[mm]	4.5
Max. shaking weight [kg]	0.5
Motor type	DC brushless motor
Motor rating input[W]	18
Motor rating output[W]	10
Speed range[rpm]	Single microplate: 0-1,500 Double microplate : 0-1,000
Speed display	Scale
Dimensions[WxHxD mm]	260x150x80
Weight[kg]	3

Features

- Compact and universal Microplate Mixer suitable for small vessels and 96 microplate
- Wide range of accessories, easy installation and replacement
- Continuous operation
- Stepless speed regulation of motor
- DC brushless motor low running noise and long service

Accessories



PS1.2 Microplate clamp
Cat No.: 18900042



MXM-116 Double microplate clamps
Cat No.: 18900079



PS1.1 Universal top plate
Used with tube adapters
Cat No.: 18900067



VT1.3.1 tube adapter
for 48 holes test tubes,
Ø6mm, used with PS1.1
Cat No.: 18900020



VT1.3.2 tube adapter
for 18 holes test tubes,
Ø10mm, used with PS1.1
Cat No.: 18900021



VT1.3.3 tube adapter
for 12 holes test tubes,
Ø12mm, used with PS1.1
Cat No.: 18900022



VT1.3.4 tube adapter
for 8 holes test tubes,
Ø16mm, used with PS1.1
Cat No.: 18900023



VT1.3.5 tube adapter
for 8 holes test tubes,
Ø20mm, used with PS1.1
Cat No.: 18900024

Rotators

MX-RD-Pro LCD Digital Rotator



▶ **MX-RD-Pro**
with dish accessory



▶ Optional accessories (page 24)

Features

- The rotator comes with a disk type design
- Digital control speed and allowing procedures to be accurate
- LCD displays timer
- Rolling action, gives gentle but effective mixing
- Adjustable speed range of 10 to 70rpm
- Adjustable mixing angle between 0 and 90°
- Used with a wide variety of accessories
- Continuous and timed quiet operation

Specification

Model	MX-RD-Pro
Cat. No.	824232210000
Voltage [VAC]	100-240
Frequency [Hz]	50/60
Power [W]	40
Motor type	DC motor
Tilt angle [°]	0-90
Speed range [rpm]	10-70
Speed display	LCD
Timer	Yes
Timer display	LCD
Time setting range [min]	1-1199
Operation type	Continuous / timed operation
Dimensions [DxWxH mm]	280x210x300
Weight [kg]	8

MX-RL-Pro LCD Digital Rotator



▶ **MX-RL-Pro**
with dish accessory



▶ Optional accessories (page 24)

Features

- The rotator comes with a rotisserie type design
- Digital control speed and allowing procedures to be accurate
- LCD displays timer
- End-over-end action, gives gentle but effective mixing
- Adjustable speed range of 10 to 70rpm
- Used with a wide variety of accessories
- Continuous and timed quiet operation

Specification

Model	MX-RL-Pro
Cat. No.	824222210000
Voltage [VAC]	100-240
Frequency [Hz]	50/60
Power [W]	40
Motor type	DC motor
Tilt angle [°]	0-90
Speed range [rpm]	10-70
Speed display	LCD
Timer	Yes
Timer display	LCD
Time setting range [min]	1-1199
Operation type	Continuous / timed operation
Dimensions [DxWxH mm]	220x510x260
Weight [kg]	8

Rotators

MX-RD-E / MX-RL-E Rotators



▶ MX-RD-E



▶ MX-RL-E

Features

- End-over-end or rolling action, gives gentle but effective mixing
- Adjustable speed range of 0 to 80rpm
- Used with a wide variety of accessories
- Continuous quiet operation

▶ Optional accessories (page 24)

Specification

Model	MX-RD-E / MX-RL-E
Cat. No.	824230210000 (MX-RD-E) 824220210000 (MX-RL-E)
Voltage [VAC]	100-240
Frequency [Hz]	50/60
Power [W]	20
Motor type	DC motor
Tilt angle [°]	90
Speed range [rpm]	0-80
Speed display	-
Timer	-
Timer display	-
Time setting range [min]	-
Operation type	Continuous
Dimensions [DxWxH mm]	300x220x310 (MX-RD-E) 150x530x190 (MX-RL-E)
Weight [kg]	2 (MX-RD-E) 1.7 (MX-RL-E)



Rotators

Accessories

Accessories

Disk accessory, for 1.5mlx60

Centrifuge tubes holder
Used for MX-RD-Pro
Cat No.: 18900160



Disk accessory, for 15mlx16

Centrifuge tubes holder
Used for MX-RD-Pro
Cat No.: 18900161



Disk accessory, for 50mlx8

Centrifuge tubes holder
Used for MX-RD-Pro
Cat No.: 18900162



Disk support rods, 1 pc

Used with disk accessories
Cat No.: 18900140



Rotisserie accessory, for 1.5mlx48

Centrifuge tubes held horizontally
Used for MX-RL-Pro
Cat No.: 18900142



Rotisserie accessory, for 15mlx24

Centrifuge tubes held horizontally
Used for MX-RL-Pro
Cat No.: 18900143



Rotisserie accessory, for 50mlx24

Centrifuge tubes held horizontally
Used for MX-RL-Pro
Cat No.: 18900144



Rotisserie accessory, for 1.5mlx32

Centrifuge tubes held vertically
Used for MX-RL-Pro
Cat No.: 18900145



Rotisserie accessory, for 15mlx16

centrifuge tubes held vertically
Used for MX-RL-Pro
Cat No.: 18900146



Rotisserie accessory, for 50mlx16

Centrifuge tubes held vertically
Used for MX-RL-Pro
Cat No.: 18900147



Disk / Rotisserie accessory, for 1.5ml, 15ml and 50ml

Centrifuge tubes holder
Used for MX-RL-E / MX-RD-E



Tube Rollers

MX-T6-S Tube Roller



▶ MX-T6-S

Features

Rocking and rolling motions for complete mixing

- Speed range of 0-70rpm
- Six roller design with small footprint and easy clean
- Designed for continuous operation
- Can be used in cold rooms or in incubators

Specification

Model	MX-T6-S
Cat. No.	823220210000
Voltage [VAC]	100-240
Frequency [Hz]	50/60
Power [W]	25
Motor type	DC motor
Rocking motion	Rocking and rolling
Amplitude [mm]	24
Max. load capacity [kg]	4
Number of rollers	6
Roller size (L) [mm]	280
Speed range [rpm]	0-70
Speed display	Scale
Timer	-
Timer display	-
Time setting range [min]	-
Operation type	Continuous operation
Dimensions [DxWxH mm]	450x260x120
Weight [kg]	4.5

MX-T6-Pro LCD Digital Tube Roller



▶ MX-T6-Pro

Features

Rocking and rolling motions for complete mixing

- Speed range of 0-70rpm
- Six roller design with small footprint and easy clean
- Designed for continuous operation
- Can be used in cold rooms or in incubators
- LCD displays, designed for continuous or timed operation

Specification

Model	MX-T6-Pro
Cat. No.	823222210000
Voltage [VAC]	100-240
Frequency [Hz]	50/60
Power [W]	30
Motor type	DC motor
Rocking motion	Rocking and rolling
Amplitude [mm]	24
Max. load capacity [kg]	4
Number of rollers	6
Roller size (L) [mm]	280
Speed range [rpm]	10-70
Speed display	LCD
Timer	Yes
Timer display	LCD
Time setting range [min]	1-1199
Operation type	Continuous / timed operation
Dimensions [DxWxH mm]	450x260x120
Weight [kg]	4.7

Shakers

진탕기

SK-O180-E / SK-L180-E Orbital and Linear Shakers



▶ SK-O180-E



▶ SK-L180-E

Features

- Compact, orbital/linear shakers with ideal shaking motion, for a maximum shaking weight of 3kg
- Compact space-saving design fits easily in the incubator and refrigerator
- Continuous operation, speed range of 0-200 rpm
- Stable operation

▶ Optional accessories (page 30)

Specifications

Model	SK-O180-E / SK-L180-E
Cat. No.	832112210000 (SK-O180-E) 831112210000 (SK-L180-E)
Voltage [VAC]	100-240
Frequency [Hz]	50/60
Power [W]	30
Shaking motion	Orbital (SK-O180-E) Linear (SK-L180-E)
Orbital diameter[mm]	20
Max. load capacity [kg]	3
Motor type	DC motor
Motor rating input[W]	16
Motor rating output[W]	10
Speed range[rpm]	0-200
Speed display	-
Timer	-
Timer display	-
Time setting range[min]	-
Operation type	Continuous
Dimensions[WxHxD mm]	330x270x110
Weight [kg]	3.1

Shakers

진탕기

- SK-O180-Pro / SK-L180-Pro *Orbital and Linear Digital Shakers*
- SK-O330-Pro / SK-L330-Pro *Orbital and Linear Digital Shakers*



▶ SK-O180-Pro



▶ SK-L330-Pro

Features

- Compact, Orbital and Linear shakers with ideal shaking motion, for a maximum shaking weight of 7.5kg and 2.5kg
- LCD displays speed and timer. Speed, timer and operating mode can be viewed simultaneously
- Wide range of platforms for use with a variety of vessels
- Electronic time switching clock controls time or continuous operation mode
- DC brushless motor, long service life and maintenance free
- Over speed detection and protection
- Free software ShakerPC, computer can control and document all operation values via RS 232 interface

▶ Optional accessories (page 30)

Specifications

Model	SK-O180-Pro / SK-L180-Pro	SK-O330-Pro / SK-L330-Pro
Cat. No.	832010030000 (SK-O180-Pro) 831010030000 (SK-L180-Pro)	832010060000 (SK-O330-Pro) 831010060000 (SK-L330-Pro)
Voltage [VAC]	100-240	100-240
Frequency [Hz]	50/60	50/60
Power [W]	30	30
Shaking motion	Orbital (SK-O180-Pro) Linear (SK-L180-Pro)	Orbital (SK-O330-E) Linear (SK-L330-E)
Orbital diameter[mm]	4	10
Max. load capacity [kg]	2.5	7.5
Motor type	DC brushless motor	DC brushless motor
Motor rating input[W]	28	28
Motor rating output[W]	15	15
Speed range[rpm]	100-800 (SK-O180-Pro) 100-350 (SK-L180-Pro)	100-500 (SK-O330-Pro) 100-350 (SK-L330-Pro)
Speed display	LCD	LCD
Timer	Yes	Yes
Timer display	LCD	LCD
Time setting range[min]	1-1199	1-1199
Operation type	Continuous / timed operation	Continuous / timed operation
Dimensions[WxHxD mm]	340x300x100	420x370x100
Weight [kg]	8.1	13.5
RS232 interface	Yes	Yes

3D Shakers

진탕기

SK-D1807-E 3D Shaker



▶ SK-D1807-E

Features

- Compact, 3D shakers with ideal shaking motion, for a maximum shaking weight of 3kg
- Compact space-saving design fits easily in the incubator and cryogenic box
- Aluminium-alloyed platform provides strong bearing capability, with non-slip mat holds vessels prevent slipping
- Continuous operation, speed range of 0-80 rpm

▶ Optional accessories (page 30)

Specification

Model	SK-D1807-E
Cat. No.	834112210000
Voltage [VAC]	100-240
Frequency [Hz]	50/60
Power [W]	20
Tilt angle [°]	7°
Max. load capacity [kg]	3
Speed range [rpm]	0-80
Speed display	-
Timer	-
Timer display	-
Time setting range [min]	-
Operation type	Continuous
Dimensions [DxWxH mm]	330x270x130
Weight [kg]	2.7

SK-D3309-Pro 3D Digital Shaker



▶ SK-D3309-Pro

Features

- Gentle 3D motion with fixed angle 9°
- Load up to 5kg
- Speed range of 10-70rpm
- Designed for continuous or timed operation
- LCD display for speed and timer adjustment, Speed and timer can be viewed simultaneously
- Wide range of accessory platform to be used for variable size vessels, and non-slip mat holds vessels prevent slipping

▶ Optional accessories (page 30)

Specification

Model	SK-D3309-Pro
Cat. No.	834220210000
Voltage [VAC]	100-240
Frequency [Hz]	50/60
Power [W]	50
Motor type	DC motor
Rocking motion	3D orbital
Tilt angle [°]	9°
Max. load capacity [kg]	5
Speed range [rpm]	10-70
Speed display	LCD
Timer	Yes
Timer display	LCD
Time setting range [min]	1-1199
Operation type	Continuous/timed operation
Dimensions [DxWxH mm]	430x360x106
Weight [kg]	9

Rocking Shakers

진탕기

SK-R1807-E Rocking Shaker



▶ SK-R1807-E

Features

- Compact, rocking shakers with ideal shaking motion, for a maximum shaking weight of 3kg
- Compact space-saving design fits easily in the incubator and cryogenic box
- Aluminium-alloyed platform provides strong bearing capability, with non-slip mat holds vessels prevent slipping
- Continuous operation, speed range of 0-80 rpm

▶ Optional accessories (page 30)

Specification

Model	SK-R1807-E
Cat. No.	833132210000
Voltage [VAC]	100-240
Frequency [Hz]	50/60
Power [W]	20
Tilt angle [°]	7°
Max. load capacity [kg]	3
Speed range [rpm]	0-80
Speed display	-
Timer	-
Timer display	-
Time setting range [min]	-
Operation type	Continuous
Dimensions [DxWxH mm]	330x270x130
Weight [kg]	3.2

SK-R330-Pro Rocking Digital Shaker



▶ SK-R330-Pro

Features

- Smooth see-saw rocking motion with fixed angle 9°
- Load up to 10kg
- Speed range of 10-70rpm
- Designed for continuous or timed operation
- Digital speed control and LCD display, speed and timer can be viewed simultaneously
- Wide range of accessory platform to be used for variable size vessels, and non-slip mat holds vessels prevent slipping

▶ Optional accessories (page 30)

Specification

Model	SK-R330-Pro
Cat. No.	833210210000
Voltage [VAC]	100-240
Frequency [Hz]	50/60
Power [W]	40
Motor type	DC motor
Rocking motion	See-saw rocking
Tilt angle [°]	9°
Max. load capacity [kg]	10
Speed range [rpm]	10-70
Speed display	LCD
Timer	Yes
Timer display	LCD
Time setting range [min]	1-1199
Operation type	Continuous/timed operation
Dimensions [DxWxH mm]	410x360x200
Weight [kg]	9

Shakers

Accessories

Accessories



Model	SK330.1	SK330.3	SK330.5	SK330.2	SK180.1
Cat. No.	18900027	18900040	18900155	18900028	18900025
Descriptions	Universal attachment with 4 bars	Lengthways roller attachment	Dish platform with non-slip mat and fixed string (8 pcs)	Fixing clip attachment	Universal attachment with 3 bars
Used with Model					
Rocking Shaker	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3D Shaker	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Orbital and Linear Shaker (7.5kg)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Orbital and Linear Shaker (2.5kg)					<input type="checkbox"/>
E series					<input type="checkbox"/>



Model	SK180.3	SK180.4	SK180.2	Bar for SK330.1	Bar for SK180.1
Cat. No.	18900038	18900039	18900026	18900036	18900037
Descriptions	Lengthways roller attachment	Dish attachment with non-slip mat	Fixing clip attachment	Bar for SK330.1 universal attachment	Bar for SK180.1 universal attachment
Used with Model					
Rocking Shaker				<input type="checkbox"/>	
3D Shaker				<input type="checkbox"/>	
Orbital and Linear Shaker (7.5kg)				<input type="checkbox"/>	
Orbital and Linear Shaker (2.5kg)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
E series	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>



Model	Fixing clip, 25ml	Fixing clip, 50ml	Fixing clip, 100ml	Fixing clip, 200/250ml	Fixing clip, 500ml
Cat. No.	18900029	18900030	18900031	18900032	18900033
Descriptions	Fixing clip for flask volume 25ml, used with SK330.2 & SK180.2	Fixing clip for flask volume 50ml, used with SK330.2 & SK180.2	Fixing clip for flask volume 100ml, used with SK330.2 & SK180.2	Fixing clip for flask volume 200/250ml, used with SK330.2 & SK180.2	Fixing clip for flask volume 500ml, used with SK330.2 & SK180.2
Used with Model					
Rocking Shaker	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3D Shaker	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Orbital and Linear Shaker (7.5kg)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Orbital and Linear Shaker (2.5kg)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E series	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Shakers

진탕기

참고 방출 가격 세일 !

KS 4000 i/ic control Incubator Shakers



▶ KS 4000 i/ic control

Features

New incubator shaker with innovative design allowing unattended operation in a temperature controlled environment.

- Large LED display for speed and time settings
- Controls with antimicrobial coating for reduction of bacteria
- Integrated PID temperature control (use of two PT 1000 temperature sensors)
- Electronic temperature and speed control
- Electronic timer switch: 0 - 999 h (set by the minute or by the hour)
- Unit switches off automatically if unstable
- Unit stops automatically when hood is lifted
- Collecting tray with drain hose on rear of unit

Specification

Model	KS 4000 i/ic
Ident. No.	3510000(i), 3510100(ic)
Shaking movement	orbital
Orbital diameter	20 mm
Max. shaker weight (with attachment)	20 kg
Motor rating input	82 W
Motor rating output	24 W
Power consumption (at 230 V)	1.120 W
Speed range	10 - 500 rpm
Heater power	1.000 W
Temperature range	RT + 5 °C to 80 °C
Timer switch (select minutes/hours)	∞ / 0 - 999 h
Speed, time and temperature display	digital
Additional cooling function for KS 4000 ic control	
Cooling coil	built in
Temperature range at flow temperature (3 °C) KV 600	RT - 10 °C to 80 °C
Cooling connection for hose	Ø 10 mm
Adapter nipple for hose connection	yes

KS 501 digital Orbital shakers



▶ KS 501 digital

Features

Low profile laboratory shaker with a pleasant design, large mounting surface and load capacity of up to 15 kg.

- Infinitely variable speed control of 0 - 300 rpm
- Digital display
- Ideal for vessels with a volume of more than 250 ml, e.g. round flasks, Erlenmeyer flasks, culture flasks and culture bottles
- Guaranteed continuous operation (∞) even under extreme loads
- Incl. timer

Specification

Model	KS 501 digital
Ident. No.	2526400
Shaking movement	orbital
Orbital diameter	30 mm
Max. shaking weight (with attachment)	15 kg
Motor rating input	70
Motor rating output	19
Infinitely adjustable speed range	0 - 300 rpm
Speed display	digital
Timer	∞ / 1 - 56 min

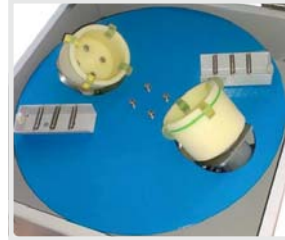
Planetary Centrifugal Mixer

자전, 공전식 믹서

YS-2E-300 Planetary Centrifugal Mixer



▶ YS-2E-300



Adopt the principle of centrifugal force, can remove bubbles and achieve ideal mixing effect.

Features

The planetary rotation mixer YS-2E is a good solution for mixing and defaming PCB ink, AB paste, AG (silver) paste, SMT paste and other similar materials.

- 45 degree loading method for easy loading and unloading.
- Mixing directly in container, low noise and no need clean up.
- Safety devices on access door.
- Mixing 2 containers $\leq 145\text{mm}$ in diameter at the same time

Application

- Printing ink
- PCB ink
- AB Paste
- Electronic paste
- Emulsion paint

Specifications

Model	YS-2E-300	YS-2E-1000 (Custom-made)
Ident. No.	K821285	K821286
Mixing range	20-300 ml	300-1000 ml
Mixing time	1-9.9 min	-
Can diameter	< 67 mm	50-145 mm
Can height	< 90 mm	50-135 mm
Revolution speed	480 rpm	450 rpm
Rotation speed	200 rpm	160 rpm
Power	220V,50-60Hz,180W	220V,50-60Hz,180W
Machine size	390x390x380 mm	500x500x480 mm
Machine weight	35 kg	60 kg