



# SCILOGEX

DISTILLING & MIXING

ROTARY EVAPORATORS

DISTILLING & MIXING



# Company Profile

GPE Scientific Ltd was established in 1962 and is a leading distributor and manufacturer of laboratory equipment, glass blowing products and specialised glass components for the industrial, laboratory and research markets. We pride ourselves in stocking thousands of products from leading suppliers providing you with the best selection of laboratory equipment on the market.

We are the exclusive UK and Ireland distributor for the Scilogex range of Benchtop Equipment. Scilogex is a brand of innovative and unique laboratory products for all areas of chemistry research. Our goal is to provide you with great products at highly competitive prices.



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

SCILOGEX instruments conforms to the following safety and EMC standards:

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

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



# Thermo Control

### TC1000-G Thermo Cycler

Thermal cyclers are essential instruments in the field of biotechnology cloning, genotyping, mutagenesis, and many other applications. The TC1000-G has precise temperature controls; designed to optimize PCR assays in a single run: making it possible to quickly and accurately obtain large quantities of DNA needed for molecular biology, clinical diagnosis, criminal investigations and infectious disease research.

#### Features:

- Provides consistent and uniform sealing across an entire block
- Excellent temperature controls
- Fast heating and cooling rate
- Large colour touch screen for easy programming
- Quickly and easily identify optimal annealing temperatures - by using the programmable temperature gradient





Important features:

- Thermal gradient feature - identifies optimal annealing temperature
- Fast heating & cooling rate
- Shortens reaction time
- Reduces the nonspecific combine
- Gets target molecules with increased purity
- Excellent temperature controls on both normal PCR and gradient PCR models: critical for successful experiments
- Intuitive software and a large touch screen



Specifications:

Sample Capacity	0.2mL PCR tubes x 96, 0.2mL x 12 PCR 8 strips or 96 well PCR plate
Temperature Range (°C)	4 - 99
Lid Temperature Range (°C)	50 - 110
Temperature Display Accuracy (°C)	0.1
Temperature Accuracy (°C @ 55°C)	±0.3
Temperature Uniformity (°C @ 55°C)	< 0.3
Max. Heating/Cooling Rate (°C /sec)	3
Gradient Temperature	Yes
Gradient Temperature Range (°C)	30 - 99
Gradient Range (°C)	1 - 42
Display	7"800 x 480 LCD
Touch Operation	Yes
Power-off Protection	Yes
Power Supply	100-120V/200-240V 50/60Hz

## TC1000-S Thermo Cycler



### Features:

- Widely used in molecular biology, clinical diagnosis, criminal investigations and infectious disease research
- Provides consistent and uniform sealing across an entire block
- Excellent temperature controls
- Fast heating and cooling rate
- Intuitive touch-screen user interface

Cat No:  
54100032



### Specifications:

Sample Capacity	0.2ml PCR tubes x 96, 1 PCR plate 8 x12 or 96 well plate x1
Temperature Range (°C)	4 - 99
Lid Temperature Range (°C)	50 - 110
Temperature Display Accuracy (°C)	0.1
Temperature Accuracy (°C @ 55°C)	±0.3
Temperature Uniformity (°C @ 55°C)	< 0.3
Max. Heating/Cooling Rate (°C /sec)	3
Display	7"800 x 480 LED
Touch Operation	Yes
Power-off Protection	Yes
Power Supply	AC 220V ( ±10% ) 50/60Hz
Power Supply	100 - 120V/200-240V, 50/60Hz

The Thermo Mix combines a shake function with temperature controls; shaking and incubating samples at the same time.

## HCM100-Pro Thermo Mix

### Features:

- Excellent temperature control - temp range is 15°C below room temp. (up to 100°C)
- Temperature accuracy (20 - 45°C) is  $\pm 0.5$  °C
- Efficient mixing up to 1,500 rpm (depends on heating block)
- Different heating block options
- Can edit and store information



### Specifications:

	HCM100-Pro	HM100-Pro
Functions	Heating, cooling & mixing	Heating & mixing
Temperature Range	15°C below room temp. up to 100 °C	Room temp.+5°C up to 100 °C
Temperature Setting Range	0.1°C/100	15°C/100°C
Temperature Control Accuracy (°C, at 20-45°C)	$\pm 0.5$	$\pm 0.5$
Temperature Uniformity (°C, at 20 - 45°C)	Max $\pm 0.5$ °C	Max $\pm 0.5$ °C
Max Heating Rate (°C/min)	5.5	5.5
Max Cooling Rate (°C/min)	2.5 (100°C to room temp.) 0.5 (below room temp.)	-
Speed Range (rpm)	300 - 1500	300 - 1500
Mixing Diameter (mm)	3	3
Screen	LCD	LCD
Program	6 program stages	6 program stages
Voltage, Frequency	100-120V/220-240V, 50Hz/60Hz	100-120V/220-240V, 50Hz/60Hz
Power	200 W	200 W
Dimensions (W x D x H mm) (without the heating block)	200 x 235 x 120	200 x 235 x 120



Thermo Control can be widely used in gene synthesis, gene purification, gene and proteins denaturation, enzymatic reaction and bacterial growth.



HC110-Pro  
Thermo Control

Features:

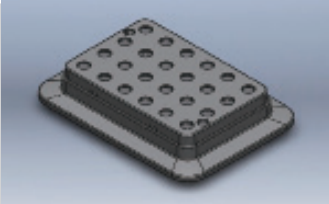
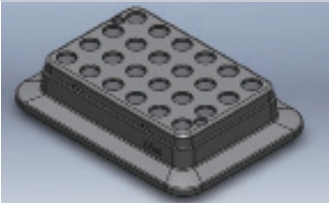
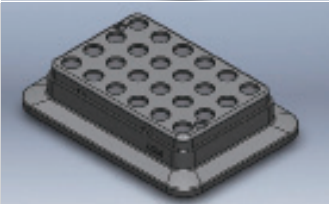
- Excellent temperature controls, temp range is 25 °C below room temp. (up to 110 °C)
- Temperature accuracy (20-45°C) is  $\pm 0.5$  °C
- Different heating block options
- Program edit and store functions



Specifications:

	HC110-Pro
Functions	Heating & cooling
Temperature Range	25°C below room temp. (up to 110°C)
Temperature Setting Range (°C)	-5°C/110°C
Temperature Control Accuracy (°C, at 20-45°C)	$\pm 0.5$
Temperature Uniformity (°C, at 20-45°C)	Max $\pm 0.5$ °C
Max Heating Rate (°C/min)	5.5
Max Cooling Rate (°C/min)	5 (110°C up to room temp.) 0.5 (below room temp.)
Screen	LCD
Program	6 program stages
Voltage, Frequency	100-120V/220-240V, 50Hz/60Hz
Power	180 W
Dimensions (WxDxH mm) (without the heating block)	200 x 235 x 120

Block Specification:

	Capacity (tubes)	No. of Wells	Pore Size: Ømm	Well Depth (mm)
	0.2mL / 96 well PCR plate	-	-	-
	0.5mL	24	8.1	26
	1.5mL	24	10.9	31
	2mL	24	10.6	26
	5mL	8	13.6	36
	15mL	8	16.5	95
	50mL	4	28.7	75
	96 Microplate	1	-	-



## HB120-S

### Thermo Control

HB120-S comes with various interchangeable heating blocks: ideal for molecular biology, histology, clinical, environmental and industrial laboratories; including melting and boiling point determination, enzyme reactions, incubation and activation of cultures, immunoassays, DNA denaturation, culture media tests, coagulation tests, blood-urea-nitrogen determinations and in-situ hybridizations.



#### Features:

- Temperature range from room temp. to 120°C
- Various types of blocks available
- Rotor Overheating Protection

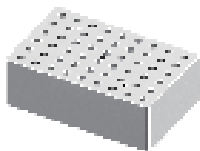
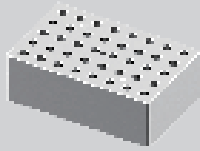
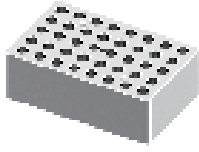
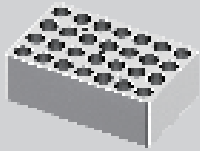

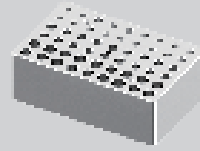

#### Specifications:

Items	Specifications
Voltage (VAC)	100 - 120/200 - 240
Frequency (Hz)	50/60
Power (W)	160
Dimension of Blocks (mm)	150 x 95
Temperature Range (°C)	Room temp. +5 up to 120
Temperature Display	LED
Control Accuracy (°C)	±0.5
Safety Temperature (°C)	140
Timer	1 - 99 h
Operation Type	Continuous/timed operation
Dimensions (W x D x H mm)	175 x 290 x 85
Weight (kg)	1.6 (without heating block)
Permissible Ambient Temperature (°C)	5 - 40
Permissible Relative Humidity	80%
Protection class according to DIN EN 60529	IP 21





### Block Specification:

	Capacity (tubes)	No. of wells	Pore Size: Ø (mm)	Well Depth (mm)
	0.2 mL	54	6.4	15
	0.5 mL	40	8.2	26.4
	1.5/2 mL	40	11	34.7
	5/15 mL	28	17	48
	50 mL	8	29.8	48
	0.2mL + 0.5mL + 1.5/2mL	18 + 18 + 18	-	-
	96 or 384 well plate	1	-	-





# Distilling & Mixing

# Rotary Evaporators

## RE100-Pro LCD Digital Rotary Evaporator



The LCD Digital Rotary Evaporator is an essential instrument in organic and pharmaceutical labs; designed to remove low boiling solvents from a flask and get the compound out of the solution.

### Features:

- Large digital LCD screen displays temperature, rotation speed and time
- Motor lift automatically raises the flask to top position when there is a power failure
- SL heating bath (Room temp. up to 180°C)
- Safety temperature cut off point at 220°C
- Speed range from 20 to 280 rpm
- Interval operation in clockwise and counterclockwise directions for drying
- Patented condenser (cooling surface 1,500 cm<sup>2</sup> with excellent cooling effect)
- Automatic timer turns off your evaporator at a pre-programmed time
- Easy evaporating flask removal
- Chemical-resistant double PTFE system and patented pressure spring provides excellent sealing
- PC can control and document all parameters via USB interface

Cat No:  
61111232





## Specifications:

Voltage (VAC)	100 - 120/200 - 240
Frequency (Hz)	50/60
Power (W)	1,400
Motor	Brushless DC motor
Speed Range (rpm)	20 - 280
Display	LCD
Counter clockwise and clockwise operation	Yes
Heating Temperature Range (°C)	Room temp. up to 180
Heat Control Accuracy (°C)	±1
Heat Output (W)	1,300
Temperature Display	LCD
Lift	Motor
Stroke (mm)	150
Timer	Yes
Timer Display	LCD
Timer Range (min)	1 - 999
Dimensions (D x W x H mm)	465 x 457 x 583
Weight (kg)	15
Permissible Ambient Temperature (°C)	5 - 40
Permissible Relative Humidity	80%
Protection Class acc. To DIN EN60529	IP20
USB Interface	Yes

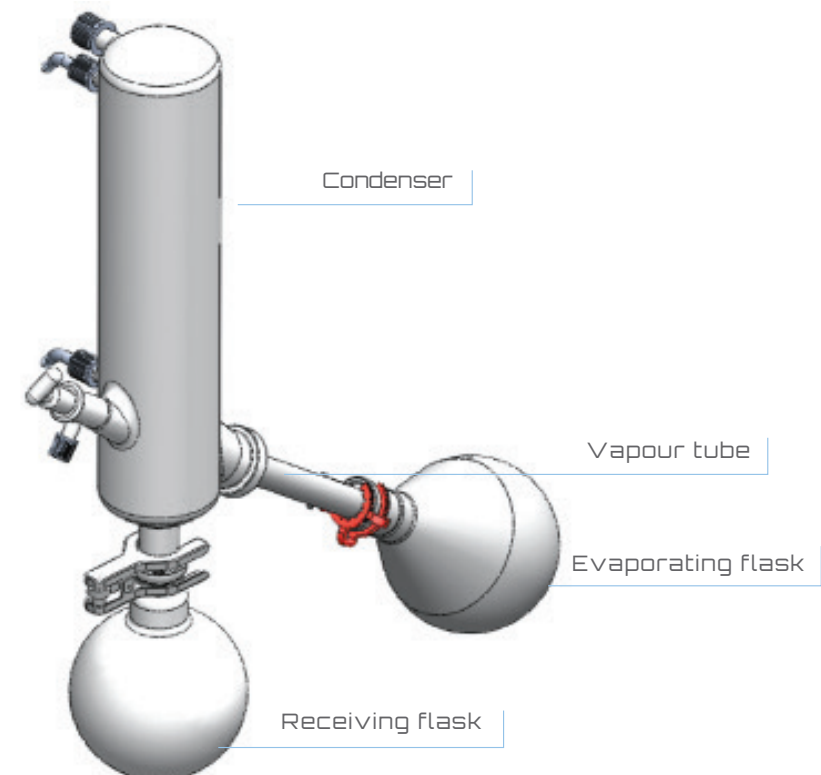


## Accessories:

### Condenser

Condenser type: vertical  
Cooling surface: 1500 cm<sup>2</sup>

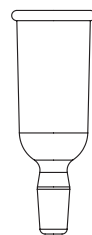
Cat No:  
18900173



Evaporating flask  
NS29/32, NS 24/40



Receiving flask  
KS 35/20



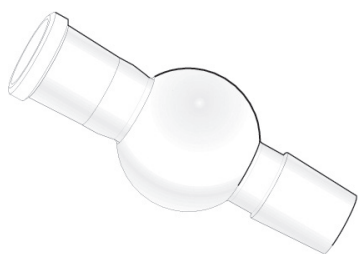
Connector



Volume	Cat No:
50mL	18300655
100mL	18300201
250mL	18300202
500mL	18300203
1000mL	18300204
2000mL	18300205

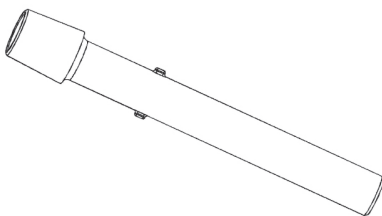
Volume	Cat No:
100mL	18300107
250mL	18300108
500mL	18300109
1000mL	18300110
2000mL	18300111

Size	Cat No:
24/40-19/22	18300199
24/40-14/20	18300200



Foam brake, 250mL

Cat No:  
18300207



Vapour tube

Cat No:  
18300206



Seal

Cat No:  
18100926

# huber

## Minichiller



Huber are the technology leaders in high precision thermoregulation solutions in research and industry. We are proud to offer the full range of Huber units which complement our complete reactor systems. The Huber range have efficient temperature controls for laboratories, pilot plants and production processes throughout the whole world – from -125 °C to +425 °C.

Model	300 - H1
Temperature Range (°C)	-20 up to 100
Temperature Stability	±0,2 °C
Cooling Capacity	15 0 -10 -20 °C 0,3 0,2 0,14 0,07 kw
Heating Capacity	1 kW
Permissible Ambient Temp. (°C)	5 up to 40
Filling Volume Min.	1,4 Litres
Volume of Expansion	2,6 Litres
Temperature Display	LED - Display
Pump Connection	M16 x 1 AG male
Dimensions (W x D x H)	225 x 360 x 380 mm
Weight	25 kg
Pressure Pump Max.	20 l/min ; 0,2 bar
Suction Pump Max.	17 l/min ; 0,18 bar

# Julabo

THE TEMPERATURE CONTROL COMPANY

## Recirculating chiller



We are pleased to offer the full Julabo range of "Temperature Control Systems" and accessories. Julabo is an industry leader and has played a significant role in the development of fluid-based temperature control. The team of expert engineers and technicians at Julabo help shape the market with new ideas and innovations.

Model		F250
Temperature Range (°C)		-10~+40
Temperature Stability (°C)		±0.5
Temperature Display		LED
Pump Capacity Flow Rate (L/min)		15
Pump Capacity Flow Pressure (bar)		0.35
Cooling Capacity	20 °C	0.25KW
	10 °C	0.22 KW
	5 °C	0.21KW
	0 °C	0.18 KW
	-5 °C	0.09 KW
Filling Volume (L)		1.7 ~ 2.6
Weight (kg)		27
Dimensions (WxLxH) cm		24x40x52

GPE Scientific supply the full range of Vacuubrand vacuum pumps, gauges and controllers designed for laboratory use. The product range comprises of rotary vane pumps, oil-free diaphragm pumps, complete pumping units, flexible vacuum systems and solutions for local area networks. A couple of items from the Vacuubrand range are shown below (for use with the Rotary Evaporator).



Technology for Vacuum Systems

## CVC 3000 Detect

The CVC 3000 detect is a ready to use, two-set-point vacuum controller - available both as a bench-top device and as a unit designed for attaching to a lab scaffold.

Technical Data	CVC 3000 Detect
Vacuum Sensor	Integr.
Upper Measuring Limit (mbar/torr)	1080 / 810
Lower Measuring Limit (mbar/torr)	0.1 / 0.1
Measurement Principle	Ceramic diaphragm (alumina), capacitive, gas independent, absolute pressure
Accuracy of Measurement	$\leq \pm 1$ mbar/hPa/torr / $\pm 1$ digit (after adjustment, constant temp.)
Temperature Coefficient	$< 0.07$ mbar/hPa/0.05 torr / K
Venting Valve, Connection	Integrated, hose nozzle DN 4-5 mm
Dimensions (L x W x H) mm	181 x 162 x 174
Weight (kg)	1.5



## ME 1C

### Chemistry-design diaphragm pump

Chemistry-design diaphragm pumps are an excellent solution for continuous, oil-free pumping of corrosive gases and vapours. The two-stage construction provides the advantageous combination of high pumping speed and low ultimate vacuum. All major parts in contact with pumped media are made of chemically resistant fluoroplastics.



Technical data	ME 1C
Number of Heads/Stages	2 / 2
Max. Pumping Speed at 50/60 Hz (m <sup>3</sup> /h)	0.75 / 0.9
Max. Pumping Speed at 50/60 Hz (cfm)	0.4 / 0.5
Ultimate Vacuum (abs.) (mbar/torr)	12 / 9
Ultim. vac. (abs.) with gas ballast (mbar/torr)	20 / 15
Max. Back Pressure (abs.) (bar)	1.1
Rated Motor Power (kW)	0.06
Rated Motor Speed at 50/60 Hz (min <sup>-1</sup> )	1500/1800
Dimensions (L x W x H) (mm)	312 x 121 x 170
Weight (kg)	6.7
Noise level at 50 Hz, typ. (dBA)	45



## 7 Inch Square Magnetic Hotplate Stirrers

Scilogex 7 inch square magnetic hotplate stirrers come with a variety of benefits, including; a 550°C heating temperature range, a glass ceramic plate, a brushless DC motor and external temperature sensor PT1000. The instrument provides excellent performance and is widely used for chemical synthesis, physical and chemical analysis, bio-pharmaceuticals labs and many other fields.



Plug and play PT1000 temperature sensor accessory  
· Control accuracy is  $\pm 0.2^{\circ}\text{C}$

Glass ceramic plate  
· High temperature resistance  
· Excellent chemical resistance  
· Easy to clean

Digital LCD display  
· For precise temperature and speed control  
· "Hot" indicator warning to prevent burns

Brushless DC motor  
· "Explosion-proof" tested  
· Maintenance free  
· Accurate speed control

Enclosed aluminium alloy casing  
· Excellent chemical resistance  
· Excellent thermal resistance

MS7-H550-Pro  
With external temperature sensor PT1000  
Temperature range (up to 550°C)

Cat No:  
81322303



# Magnetic Hotplate Stirrers

## MS7-H550-Pro

### LCD Digital Magnetic Hotplate Stirrer

#### Features:

- Backlit LCD display for precise monitoring
- Built-in PID controller prevents hotplate from overheating
- Impressive temperature range (up to 550°C)
- Separate safety circuits with fixed safety cut off temperature of 580°C
- Plug and play PT 1000 sensor accessory for precise temperature control. Control accuracy: 0.2°C
- Heat control accuracy of  $\pm 1(^{\circ}\text{C})$   $\pm 2(^{\circ}\text{C})$  ( $>100^{\circ}\text{C}$ )
- Fast (up to 1500 rpm)
- Brushless DC motor is "explosion-proof" tested with accurate speed controls
- Independent control knobs for adjusting speed and temperature
- "HOT" indicator warning, even when switched off
- PC can control and document all parameters via RS232 interface (using 3rd party software)

Cat No:  
81322303



**MS7-H550-Pro**  
With coloured reaction blocks





## MS7-H550-S

### LED Digital Magnetic Hotplate Stirrer

#### Features:

- LED displays target and real-time temperatures
- Speed range is 0 - 1500 rpm
- Temperature range (up to 550°C)
- Separate safety circuits with fixed safety cut off temperature of 580°C
- Plug and play PT1000 external temperature sensor is available. Control accuracy is 0.5°C
- "HOT" indicator warning, even when switched off

Cat No:  
81322203



#### MS7-H550-S

With external PT1000 temperature sensor

Cat No:  
18900016



# Magnetic Hotplate Stirrers

## 5 Inch Round-top Magnetic hotplate Stirrers

SCILOGEX's 340°C magnetic hotplate stirrers are easy to use and competitively priced. They are widely used for chemical synthesis, physical and chemical analysis, bio-pharmaceuticals and many other fields.

SCILOGEX's 280°C magnetic hotplate stirrer is the only low temperature magnetic stirrer in the world; incorporating a microprocessor and LED display with a plug and play PT1000 temperature sensor.

Plug and play PT1000 temperature sensor and support stand accessory  
· Control accuracy is 0.2°C

Brushless DC motor  
· "Explosion-proof" tested  
· Maintenance free  
· Accurate speed control

### Digital LCD display

- For precise temperature and speed control
- "Hot" sign warning to prevent burns

RS232 interface

- Fully closed aluminium alloy casing
- High IP protection class (IP42)

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

With external temperature sensor PT1000  
Temperature range (up to 340°C)



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

### LCD Digital Magnetic Hotplate Stirrer

#### Features:

##### Safe:

- Conforms to international safety standards and regulations
- "Explosion-proof" tested
- Aluminium alloy casing comes with high IP protection class (IP42)
- Temperature sensor consists of two independent safety circuits, which switches off when stirrer overheats
- "HOT" sign warning to prevent burns, even when switched off

##### Convenient:

- Backlit LCD displays
- Integral temperature sensor with plug and play transfer to PT1000 sensor
- Stainless steel ceramic coated hotplate allows immediate heat transfer for quick heat-up times; is chemical-resistant and scratch proof
- Max. stirring quantity 20L
- PC controls and documents all parameters via RS232 interface
- A wide variety of accessories available
- Fast (up to 1500 rpm)

Cat No:  
86144232



MS-H-Pro<sup>+</sup>

##### Precise:

- Temperature range (up to 340°C)
- Plug and play PT1000 temperature sensor accessory
- Control accuracy is 0.2°C
- Excellent heat accuracy: ±1 (<100°C) ±1% (>100°C)





## MS-H-Pro<sup>T</sup> LCD Digital Magnetic Hotplate Stirrer with Timer

### Features:

#### Safe:

- Conforms to international safety standards and regulations
- "Explosion-proof" tested
- Aluminium alloy casing comes with high IP protection class (IP42)
- The temperature sensor consists of two independent safety circuits, which switches off when stirrer overheats
- "HOT" sign warning to prevent burns, even when switched off

#### Precise:

- Temperature range (up to 340°C)
- Plug and play PT1000 temperature sensor accessory
- Control accuracy  $\pm 0.2^{\circ}\text{C}$
- Excellent heat control accuracy:  $\pm 1$  ( $<100^{\circ}\text{C}$ )  $\pm 1\%$  ( $>100^{\circ}\text{C}$ )

#### Convenient:

- Digital timer can be set from 1min to 59 min (or continuous operation). When the set time has elapsed, the heat turns off
- Backlit LCD displays target and actual temperatures and speed
- Integral temperature sensor technology with plug and play transfer to PT1000
- Stainless steel ceramic coated hotplate allows immediate heat transfer for quick heat-up times; is chemical-resistant and scratch proof
- Max. stirring quantity 20L
- PC can control and document all parameters via RS232 interface
- A wide variety of accessories are available
- Fast (up to 1500 rpm)

Cat No:  
86149232



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



## MS-H-S

### Classic Magnetic Hotplate Stirrer

#### Features:

- Temperature range (up to 340°C)
- Fast stirring speeds (up to 1500 rpm)
- Stainless steel ceramic coated hotplate allows immediate heat transfer for quick heat-up times
- Chemical-resistant and scratch proof
- Separate safety circuit, automatically stops if temperature reaches 350°C
- Enclosed assembly with protection class IP42
- Brushless DC motor is maintenance free and explosion-proof

Cat No:  
81112106



## MS-H280-Pro

### LED Digital Magnetic Hotplate Stirrer

#### Features:

- Temperature range (up to 280°C)
- Fast stirring speeds (up to 1500 rpm)
- Stainless steel with ceramic coated hotplate allows immediate heat transfer for quick heat-up times
- Chemical-resistant and scratchproof
- External PT1000 temperature sensor accessory is available (with control accuracy of 0.5°C)
- LED display shows temperature and speed settings
- 50°C "HOT" warning indicates residual hotplate temperature
- ABS casing (resistant to weak acids and alkalis)

Cat No:  
86143132

MS-H280-Pro

With external temperature  
sensor PT1000 accessory

Cat No:  
18900016



# Magnetic Hotplate Stirrers

## MS-H-S10

### 10-Channel Classic Magnetic Hotplate Stirrer

#### Features:

- Temperature range (up to 120°C), producing a maximum medium temperature of 70°C (depending on type of vessel)
- Magnetic stirrer with uniform temperature distribution
- Controlled stirring for consistency
- Electronic motor provides consistent speed
- Speed range of 0 - 1100 rpm
- Brushless DC motor
- Stainless steel plate (with an anti-slip and anti-corrosive surface)

Cat No:  
81132104







## Stirrer bars:

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

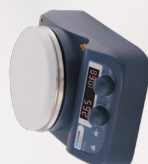
### Models

MS-H550-Pro	MS-H280-Pro	MS-H-S10
MS-H550-S	MS-PA	MS-M-S10
MS-H-Pro <sup>+</sup>	MS-PB	
MS-H-Pro <sup>T</sup>		
MS-H-S		
MS-S		

Cat No	Size of stirrer bars (L x Ø) (mm)	Suitable for Max. stirrer bar 80mm	Suitable for Max. stirrer bar 50mm	Suitable for Max. stirrer bar 40mm
18900006	10mm x 6mm	•	•	•
18900007	15mm x 8mm	•	•	•
18900008	20mm x 8mm	•	•	•
18900009	25mm x 8mm	•	•	•
12500005	30mm x 6mm	•	•	•
18900011	40mm x 8mm	•	•	•
12500004	51mm x 8mm	•	•	
18900013	65mm x 8mm	•		
18900014	80mm x 13mm	•		
18900015	Stirrer bar remover, length of 200mm	•	•	•

# Magnetic Hotplate Stirrers

## Specifications of Hotplate Magnetic Stirrers:



	MS7-H550-Pro	MS7-H550-S	MS-H-Pro+	MS-H-Pro <sup>T</sup>	MS-H-S	MS-H280-Pro	MS-H-S10
Cat No	B1322303	B1322203	B6144232	B6149232	B112106	B6143132	B1132104
Dimension of work plate (mm)	184 x 184 (7 inch)	184 x 184 (7 inch)	135 (5 inch)	φ135(5 inch)	φ135(5 inch)	φ135(5 inch)	180x450
Work plate material	Glass ceramic	Glass ceramic	Stainless steel with ceramic coated	Stainless steel with ceramic coated	Stainless steel with ceramic coated	Stainless steel with ceramic coated	Stainless steel with silicone film
Motor type	Brushless DC motor	Shaded pole motor	Brushless DC motor	Brushless DC motor	Brushless DC motor	DC motor	Brushless DC motor
Motor rating input (W)	18	15	18	18	18	5	12
Motor rating output (W)	10	1.5	10	10	10	3	4
Power (W)	1050	1030	550	550	530	515	490
Voltage (VAC)	100 - 120/200 - 240	100 - 120/200 - 240	100 - 120/200 - 240	100 - 120/200 - 240	100 - 120/200 - 240	100 - 120/200 - 240	100 - 120/200 - 240
Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Stirring positions	1	1	1	1	1	1	10
Max. stirring quantity (H <sub>2</sub> O), L	20	10	20	20	20	3	0.4 (each stirring position)
Max. magnetic bar (L x Ø) (mm)	80	80	80	80	80	50	40
Speed range (rpm)	100 - 1500	0 - 1500	100 - 1500	100 - 1500	0 - 1500	100 - 1500	0 - 1100
Speed display	LCD	Scale	LCD	LCD	Scale	LED	Scale
Speed display resolution (rpm)	±1	-	±1	±1	-	-	-
Heating output (W)	1000	1000	500	500	500	500	470
Heating temperature range (°C)	Room Temp. up to 550, increment 1	Room temp. up to 550, increment 5	Room temp. up to 340, increment 1	Room temp up to 340, increment 1	Room temp. up to 340	Room temp. up to 280, increment 1	Room temp. up to 120, Max. medium temperature: 70 °C
Control accuracy of work plate (°C)	±1 (<100°C) ±1% (>100°C)	±10	±1 (<100°C) ±1% (>100°C)	±1 (<100°C) ±1% (>100°C)	-	±1 (<100°C) ±1% (>100°C)	-
Safety temperature (°C)	580	580	360	360	350	320	140
Temperature display	LCD	LED	LCD	LCD	Scale	LED	Scale
Temperature display accuracy (°C)	±0.1	±1	±0.1	±0.1	-	±1	-
External temperature sensor	PT1000	PT1000	PT1000	PT1000	N/A	PT1000	N/A
Control accuracy with external temperature sensor PT1000 (°C)	±0.2	±0.5	±0.2	±0.2	-	±0.5	-
Heating warning (°C)	50°C	50°C	50°C	50°C	N/A	50°C	N/A
Time setting range	-	-	-	1min to 99h 59min	-	-	-
Remote control (RS232 interface)	Yes	N/A	Yes	Yes	N/A	N/A	N/A
Protection class	IP21	IP21	IP42	IP42	IP42	IP21	IP42
Dimensions (W x D x H) mm	215 x 360 x 112	215 x 360 x 112	150 x 280 x 85	150 x 280 x 85	150 x 280 x 85	150 x 250 x 80	182 x 522 x 55
Weight (kg)	5.3	4.5	2.8	2.8	2.8	1.8	3.2
Permissible ambient temperature (°C)	5 - 40	5 - 40	5 - 40	5 - 40	5 - 40	5 - 40	5 - 40
Permissible relative humidity	80%	80%	80%	80%	80%	80%	80%

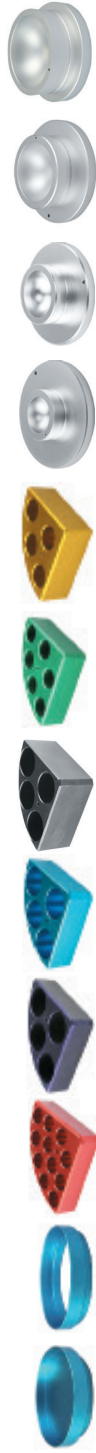


MS-H-Pro<sup>+</sup>  
with PT1000  
and 1/4 colour  
pies



MS-H-Pro<sup>+</sup>  
with PT1000  
and reaction  
block

## Accessories:



Cat No:	18900001	18900055	18900002	18900003	18900004	18900005	18900048	18900049	18101005	18101007	18101008	18101009
Descriptions	Blue carrying plate, use with colour quarter pies	Blue Fixed ring, use with colour quarter pies	Red quarter pie, 11 holes, 4 mL reaction vessel, Ø15.8mm, 20mm depth	Purple quarter pie, 4 holes, 20 mL reaction vessel, Ø28mm, 24mm depth	Blue quarter pie, 4 holes, 30mL reaction vessel, Ø28mm, 30mm depth	Black quarter pie, 4 holes, 40mL reaction vessel, Ø28mm, 43mm depth	Green quarter pie, 6 holes, 8mL reaction vessel, Ø17.8mm, 25mm depth	Golden quarter pie, 4 holes, 16mL reaction vessel, Ø21.5mm, 31.7mm depth	Reaction block for 50mL round bottom flask (one flask capacity)	Reaction block for 100mL round bottom flask (one flask capacity)	Reaction block for 250mL round bottom flask (one flask capacity)	Reaction block for 500mL round bottom flask (one flask capacity)

Magnetic hotplate stirrers are available to hold quarter colour pies (volume range from 4mL to 16mL) and reaction blocks (volume range from 50mL to 500mL), which ensures uniform heating distribution and excellent resistance to chemicals. The colour pies and blocks with aluminium materials are easy to clean and safe for labs.

Models												
MS7-H550-Pro												
MS7-H550-S												
MS-H-Pro <sup>+</sup>												
MS-H-Pro <sup>T</sup>												
MS-H-S												
MS-H280-Pro												



Cat No	18900019	18900016	18900136	18900017	18900148
Description	F101 protective cover, for hotplate models, temperature resistance of 135°C	PT1000-A, temperature sensor for digital hotplate models, length of 230mm	PT1000-B, temperature sensor with glass coated, length of 230mm, used for digital hotplate models	Support clamp of PT1000	Support clamp of PT1000, use with MS-H280-Pro
Models					
MS7-H550-Pro					
MS7-H550-S					
MS-H-Pro <sup>+</sup>					
MS-H-Pro <sup>T</sup>					
MS-H-S					
MS-H280-Pro					

## MS-S

### Classic Magnetic Stirrer

#### Features:

- Speed range of 0 - 1500 rpm
- Max. stirring quantity 20L
- Chemical and scratch resistant stainless steel hotplate
- High magnetic adhesion prevents stirrer spin bar release
- Protection class IP42 (assembly enclosed)
- Brushless DC motor "explosion-proof" tested

Cat No:  
81111113



MS-PA

## MS-PA

### LED Digital Magnetic Stirrer

#### Features:

- Speed range of 100-1500 rpm
- Max. stirring quantity 3L
- LED display shows set and actual speeds
- Guaranteed speed accuracy
- ABS casing (resistant to weak acids and alkalis)

Cat No:  
86152133



MS-PB



MS-S

## MS7-Pro

### 7" Square Classic Magnetic Stirrer

#### Features:

- Speed range of 0 - 1500 rpm
- Max. stirring quantity (10L)
- Chemical resistant glass ceramic plate is easy to clean

Cat No:  
81321303



MS7-Pro

## MS-PB

### Classic Magnetic Stirrer

#### Features:

- Speed range of 0 - 1500 rpm
- Max. stirring quantity 3L
- ABS casing (resistant to weak acids and alkalis)

Cat No:  
86152033



## MS-M-S10

### 10-Channel Classic Magnetic Stirrer

#### Features:

- Speed range of 0 - 1100 rpm
- High-performance magnetic stirrer with 10 stirring positions
- Consistent individual sample stirring
- Brushless DC motor provides constant speed
- Stainless steel plate comes with an anti-slip and anti-corrosive silicone surface

Cat No:  
81131104



MS-M-S10

## MS-M-S16

### 16-Channel Classic Magnetic Stirrer

#### Features:

- Speed range of 0 - 1100 rpm
- High-performance magnetic stirrer with 16 stirring positions to minimize bench space
- Consistent Individual sample stirring
- Stainless steel plate comes with an anti-slip and anti-corrosive silicone surface
- 16 stirring positions in total, 4 rows with individual speed controls



MS-M-S16

Cat No:  
81521104

## Specifications:



MS7-Pro



MS-S



MS-PA



MS-PB



MS-M-S10



MS-M-S16

	MS7-Pro	MS-S	MS-PA	MS-PB	MS-M-S10	MS-M-S16
Dimensions of Work Plate (mm)	184 x 184 (7 inch)	135 (5 inch)	135 (5 inch)	135 (5 inch)	180 x 450	365 x 345
Work Plate Material	Glass ceramic	Stainless steel with ceramic coating	Plastic	Plastic	Stainless steel with silicone film	Stainless steel with silicone film
Motor Type	Shaded pole motor	Brushless DC motor	DC motor	DC motor	Brushless DC motor	DC motor
Motor Rating Input (W)	15	18	5	5	12	12
Motor Rating Output (W)	1.5	10	3	3	4	4
Power (W)	30	30	15	10	20	20
Voltage (VAC)	100 - 120 / 200 - 240	100 - 240	100 - 240	100 - 240	100 - 240	100 - 240
Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60
Stirring Positions	1	1	1	1	10	16
Max. Stirring Quantity (H <sub>2</sub> O), L	10	20	3	3	0.4 (each stirring position)	0.4 (each stirring position)
Max. Magnetic bar (L x Ø) (mm)	80	80	50	50	40	40
Speed Range (rpm)	0 - 1,500	0 - 1,500	100 - 1,500	0 - 1,500	0 - 1,100	0 - 1,100
Speed Display	Scale	Scale	LED	Scale	Scale	Scale
Protection Class According To DIN EN60529	IP21	IP42	IP42	IP42	IP42	IP42
Dimensions (W x D x H) mm	215 x 360 x 112	160 x 280 x 85	150 x 260 x 80	150 x 260 x 80	182 x 622 x 65	380 x 622 x 65
Weight (kg)	3.8	2.8	1.8	1.8	3.2	6
Permissible Ambient Temperature (°C)	5 - 40	5 - 40	5 - 40	5 - 40	5 - 40	5 - 40
Permissible Relative Humidity	80%	80%	80%	80%	80%	80%

# FlatSpin

## Ultra-flat Compact Magnetic Stirrer

Ultra-flat compact magnetic stirrer, provides excellent mixing and is ideal for physical-chemical, analysis and biotech labs.

- Speed range of 15 - 1500 rpm
- Clockwise and counter-clockwise rotation for accurate mixing
- High IP protection class (IP 65)
- Plate is made from chemically resistant materials
- Slip-resistant and stable

Cat No:  
86352033



### Specifications:

Voltage (VAC)	100 - 240
Frequency (Hz)	50/60
Motor Rating Input (W)	5
Motor Rating Output (W)	3
Speed Range (rpm)	15 - 1500
Max. Stirring Quantity (H <sub>2</sub> O, L)	0.8
Max. Load Capacity (kg)	2.0
Dimensions of Work Plate (mm)	90 x 90
Material	ABS
Dimensions (WxDxH)	175 x 120 x 15
Weight (kg)	0.3
Permissible Relative Temperature (°C)	5 - 40
Permissible relative humidity	80%
DIN EN60529	IP65





## Magnetic Stirrers

### MS-C-S1 / MS-C-S4 Magnetic Stirrer for Cell Culture

#### Features:

- Designed for stirring cell culture's at low speeds
- Digital LED display
- Single-channel and 4-channel options

#### Stirring options:

- \* constant speed
- \* cycle
- \* two speed
- \* combination cycle
- \* two speed stirring



MS-C-S4

Cat No:  
81631204



Cat No:  
81651204

MS-C-S1



	MS-C-S1	MS-C-S4
Stirring Positions	1	4
Speed Range	5 - 200 rpm	5 - 200 rpm
Max Bottle Volume	3L	3L
Voltage (VAC)	100 - 240V	100 - 240V
Frequency (Hz)	50/60Hz	50/60Hz
Power (W)	15W	15W
Dimensions (W x D x H cm)	20.5 x 25 x 9	39.5 x 45 x 9



# Hotplates

## MS7-HP550-S LED Digital Hotplate

### Features:

- LED displays actual and target temperatures
- High temperature range (up to 550°C)
- Separate safety circuits, cuts off at 580°C
- PT1000 external temperature sensor is available. Control accuracy 0.5°C
- "HOT" warning sign to prevent burns, even when switched off

Cat No:  
51212132



Dimensions of Work Plate (mm)	184 x 184 (7 inch)
Work Plate Material	Glass ceramic
Power (W)	1010
Voltage (VAC)	100-120/ 200-240
Frequency (Hz)	50/60
Heating Power (W)	1000
Heating Temperature Range (°C)	Room temp. up to 550, 5°C increments
Control Accuracy of Work Plate (°C)	±10
Safety Temperature (°C)	580
Temperature Display	LED
Temperature Display Accuracy (°C)	±1
External Temperature Sensor	PT1000
Control Accuracy with External Temperature Sensor PT1000 (°C)	±0.5
Heating Warning (°C)	50°C
Protection Class According to DIN EN60529	IP21
Dimensions (W x D x H) mm	215 x 360 x 112
Weight (kg)	4.5
Permissible Ambient Temperature (°C)	5 - 40
Permissible Relative Humidity	80%



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

## EcoStir Economical Magnetic Stirrer

### Features:

- Maintenance free brushless DC motor
- Powerful stirring
- Speed regulation of 300 - 2000 rpm
- Ultra silent
- PET top provides excellent chemical resistance
- Shaft can be fitted with a PH sensor

Cat No:



### Specifications:

	EcoStir
Work Plate Dimensions	φ120 mm
Work Plate Materials	PET
Motor Type	Brushless DC motor
Motor Output Power	1.2W
Power	7.2W
Voltage	100 - 120 200 - 240V 50/60Hz
Stirring Positions	1
Max. stirring quantity (H <sub>2</sub> O)	1.5L
Max. Magnetic Bar (length)	40 mm
Speed Range	300 - 2000 rpm
Speed Settings	Scale
Protection Class	IP21
Dimensions (W x D x H)	150 x 145 x 50 mm
Weight	0.3 kg
Permissible ambient temperature and humidity	5°C up to 40°C, 80%



SCIOLOGEX Overhead Stirrers can accomplish the most demanding tasks and are widely used for chemical synthesis, pharmaceutical synthesis, physical and chemical analysis and petrochemical industries.



## OS20-Pro / OS40-Pro LCD Digital Overhead Stirrer

### Features:

- Highly reliable
- Outstanding performance
- Digital speed display, with a speed range of 50 to 2200 rpm. Control accuracy of  $\pm 3$  rpm
- Brushless DC motor drive is "explosion-proof" tested
- LCD display
- Torque trend display for real-time information on viscosity changes
- Protection - Safety circuits installed automatically cuts-off when machine is overloaded
- Gradual exceleration
- Provides constant speed
- RS232 interface - PC can control and document all operation values via RS232 interface and 3rd party software



## OS20-S / OS40-S LED Digital Overhead Stirrer

### Features:

- Reliable and incredible performance
- Speed range from 50 to 2200 rpm
- Brushless DC motor drive is "explosion-proof" tested
- LED displays actual speed
- Overload protection - safety circuits installed automatically cuts-off when machine is overloaded

	OS40-Pro	OS20-Pro	OS40-S	OS20-S
Cat No:	84020331	84010331	84020231	84010231
Max. Stirring Quantity (H <sub>2</sub> O) (L)	40	20	40	20
Motor Rating Input (W)	120	60	120	60
Motor Rating Output (W)	100	50	100	50
Voltage (VAC)	100 - 240	100 - 240	100 - 240	100 - 240
Frequency (Hz)	50/60	50/60	50/60	50/60
Power (W)	130	70	130	70
Speed Range (rpm)	50 - 2200	50 - 2200	50 - 2200	50 - 2200
Speed Display Accuracy (rpm)	±3	±3	-	-
Speed Display	LCD	LCD	LED	LED
Speed Display Resolution (rpm)	±1	±1	±1	±1
Max. Torque (Ncm)	60	40	60	40
Torque Display	LCD	LCD	-	-
Overload Protection	LED lights, motor automatic stops			
Motor Protect	LED lights, motor automatic stops			
Viscosity Max. (mPas)	50000	10000	50000	10000
Chuck Range Diameter (mm)	0.5 - 10	0.5 - 10	0.5 - 10	0.5 - 10
Dimensions (W x H x D) (mm)	83 x 220 x 186	83 x 220 x 186	83 x 220 x 186	83 x 220 x 186
Weight (kg)	2.8	2.6	2.8	2.6
Protection Class acc. to DIN/EN 60529	IP42	IP42	IP42	IP42
Temperature (°C)	5 - 40	5 - 40	5 - 40	5 - 40
Permission Relative Humidity (%)	80	80	80	80
Remote Control (RS232 Interface)	Yes	Yes	N/A	N/A

OS20-S / OS40-S  
With universal plate stand

Cat No:  
18900131

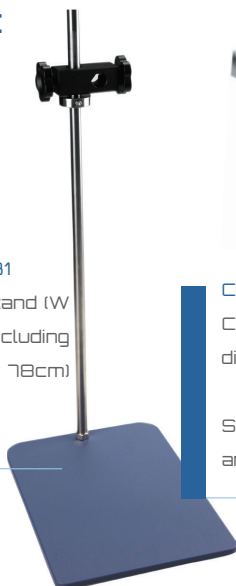




## Accessories:

Cat. No: 18900131

Universal plate stand (W x D: 20 x 31cm), including support holder (H: 78cm) and fixing device



Cat. No: 18900071

Crossed stirrer, shaft length 40 cm, stirrer diameter 5cm, 316L stainless steel

Standard stirring element, used at medium and high speeds



Cat. No: 18900072

Straight stirrer, shaft length 40cm, stirrer diameter 6cm, 316L stainless steel

Suitable for mixing low viscosity solutions, used at medium and high speeds



Cat. No: 18900073

Blade stirrer, shaft length 40cm, stirrer diameter 6.8cm, 316L stainless steel

Gentle for processing samples: used at low and medium speeds



Cat. No: 18900074

Centrifugal stirrer, shaft length 40cm, stirrer diameter 9cm, 316L stainless steel

Blades designed for stirring in a round vessel with a narrow neck: used at medium and high speeds



Cat. No: 18900075

Crossed stirrer, shaft length 35cm, stirrer diameter 6.5cm, PTFE coated

Standard stirring element: used at medium and high speeds



Cat. No: 18900076

Straight stirrer, shaft length 35cm, stirrer diameter 7cm, PTFE coated

Suitable for mixing low viscosity solutions: used at medium and high speeds



Cat. No: 18900077

Blade stirrer, shaft length 35cm, stirrer diameter 6.8cm, PTFE coated

Gentle processing samples: used at low and medium speeds



Cat. No: 18900078

Centrifugal stirrer, shaft length 35cm, stirrer diameter 8.5cm, PTFE coated

Blades designed for stirring in a round vessel with a narrow neck: used at medium and high speeds



## Mixers, Rotators and Rollers

### Vortex Mixers:

Vortex Mixers are ideal instruments for gentle mixing and/or vigorous resuspension of cells, biological and chemical liquid components. They are widely used in life science, physical and chemical analysis fields.

Cat No (60Hz):  
82120010

Cat No (50Hz):  
82120006

#### MX-S

With standard top cup VT1.1  
adjustable speed



### MX-S Vortex Mixer:

#### Features:

- Continuous/touch operation
- Speed range of 0 - 2500 rpm
- Used for a variety of mixing applications (with optional adapters)
- Excellent stable rubber suctioned feet
- Excellent stable aluminium cast base



## Accessories (MX-S):



### MX-S

With VT1.3-universal top plate and tube adapter  
Continuous operation



### MX-S

With VT1.1-standard top cup  
Touch operation



### MX-S

With VT1.2-holding rod and tube adapter  
Touch operation



Cat. No: 18900034

VT1.1 Standard top  
for <30mm tubes and small vessels



Cat. No: 18900035

VT1.3 Universal top plate  
40mm



Cat. No: 18900020

VT1.3.1 tube adapter  
for 48 holes test tubes, 16mm,  
used with VT1.3/ VT1.2



Cat. No: 18900021

VT1.3.2 tube adapter  
for 15 holes test tubes, 10mm,  
used with VT1.3/ VT1.2



Cat. No: 18900022

VT1.3.3 tube adapter  
for 12 holes test tubes, 12mm, used  
with VT1.3/ VT1.2



Cat. No: 18900023

VT1.3.4 tube adapter  
for 8 holes test  
tubes, 16mm, used with  
VT1.3/ VT1.2



Cat. No: 18900024

VT1.3.5 tube adapter  
for 8 holes test tubes, 20mm, used  
with VT1.3/ VT1.2



Cat. No: 18900043

VT1.3.6 Platform pad  
for <39mm tubes and small vessels



Cat. No: 18900044

VT1.2 Tube holding rod  
used with tube adapters



Cat. No: 18900158

VT1.3.7 Rubber vacuum suction foot

## Application of accessories:

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



## MX-F Vortex Mixer

- Operation options: continuous/touch
- Fixed speed of 2500 rpm
- Used for various mixing applications (with optional adapters)
- Excellent stable rubber suctioned feet
- Excellent stable aluminium cast base

MX-F

Cat No:  
82110010



## MX-E Classic Vortex Mixer

- Touch operation
- Fixed speed at 3,000 rpm
- Small compact shape, ultra shock mount
- Eccentric bearing design

MX-E

Cat No:  
82510004



### Specifications:

	MX-S (Adjustable speed)	MX-F (Fixed speed)	MX-E (Fixed speed)
Voltage [VAC]	110 - 120/220 - 230	110 - 120/220 - 230	100 - 240
Frequency [Hz]	50/60	50/60	50/60
Power [W]	60	60	20
Mixing motion	Orbital	Orbital	Orbital
Orbital diameter [mm]	4	4	4.8
Motor rating input [W]	58	58	12
Motor rating output [W]	10	10	8
Speed range [rpm]	0 - 2,500	2,500	3,000
Speed display	Scale	--	-
Run type	Continuous/ touch operation		Touch operation
Dimensions [WxHxD mm]	127 x 130 x 160	127 x 130 x 160	134 x 134 x 70.5
Weight [kg]	3.5	3.5	0.8
Permissible ambient temperature [°C]	5 - 40	5 - 40	5 - 40
Permissible relative humidity	80%	80%	80%
Protection class acc. DIN EN60529	IP21	IP21	IP21

## Microplate Mixers

The compact and universal MX-M Microplate Mixer can hold one or two microplates. Designed for use in microbiology, cell and molecular biology, immunology and biotechnology.



### MX-M

With microplate clamp  
(supplied as standard)



### MX-M

Double microplate clamp  
(accessory)



### MX-M

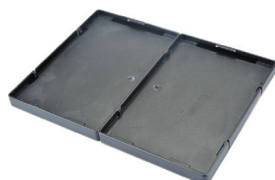
Universal top plate and  
tube adapter (accessory)

## Accessories:



Cat. No: 18900042

PS1.2 Microplate clamp



Cat. No: 18900079

MXM-116

Double microplate clamps



Cat. No: 18900067

PS1.1 Universal top plate  
(round)

Used with tube adapters



Cat. No: 18900020

VT1.3.1 tube adapter  
for 48 holes test tubes, 16mm,  
used with PS1.1



Cat. No: 18900021

VT1.3.2 tube adapter  
for 15 holes test tubes, 10mm,  
used with PS1.1



Cat. No: 18900022

VT1.3.3 tube adapter  
for 12 holes test tubes, 12mm,  
used with PS1.1



Cat. No: 18900023

VT1.3.4 tube adapter  
for 8 holes test tubes, 16mm,  
used with PS1.1



Cat. No: 18900024

VT1.3.5 tube adapter  
for 8 holes test tubes,  
20mm, used with PS1.1

## Specifications:

Voltage (VAC)	100 - 240
Frequency (Hz)	50/60
Power (W)	20
Shaking Movement	Orbital
Orbital Diameter (mm)	4.5
Max. shaking weight (with accessory) (kg)	0.5
Motor Type	Brushless DC motor
Motor Rating Input (W)	18
Motor Rating Output (W)	10
Speed Range (rpm)	Single microplate:
	0 - 1500
	Double microplate :
	0 - 1000
Speed Display	Scale
Dimensions (mm)	260 x 150 x 80
Weight (kg)	3
Permissible Ambient Temperature (°C)	5 - 40
Permissible Relative Humidity	80%
Protection Class acc. to DIN EN60529	IP21



### Rotators

Our rotators give gentle, but effective mixing of biological samples (held in 1.5mL to 50mL micro tubes) and are used in a variety of applications: including, but not limited to; immune precipitations, prevention of blood coagulation and latex diagnostics.



MX-RD-Pro

LCD Digital Rotator

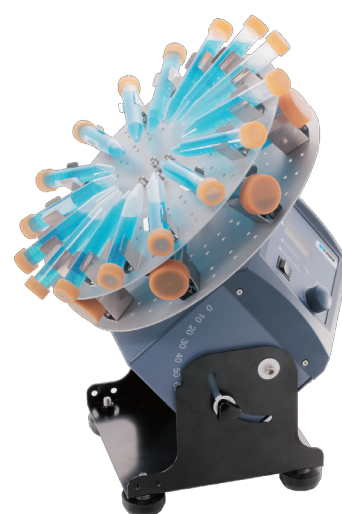
**Cat No:**  
82423231



MX-RD-Pro

Dish accessory

**Cat No:**  
18900140



MX-RD-Pro

Dual disks  
and support rods

**See page 46 for  
all accessories**



### MX-RD-Pro LCD Digital Rotator

#### Features:

- Rotator comes with a disk holder
- LCD display
- Speed range from 10 to 70 rpm
- Rolling action
- Adjustable mixing angle between 0° and 90°
- Used with a wide variety of accessories





## MX-RL-Pro LCD Digital Rotator

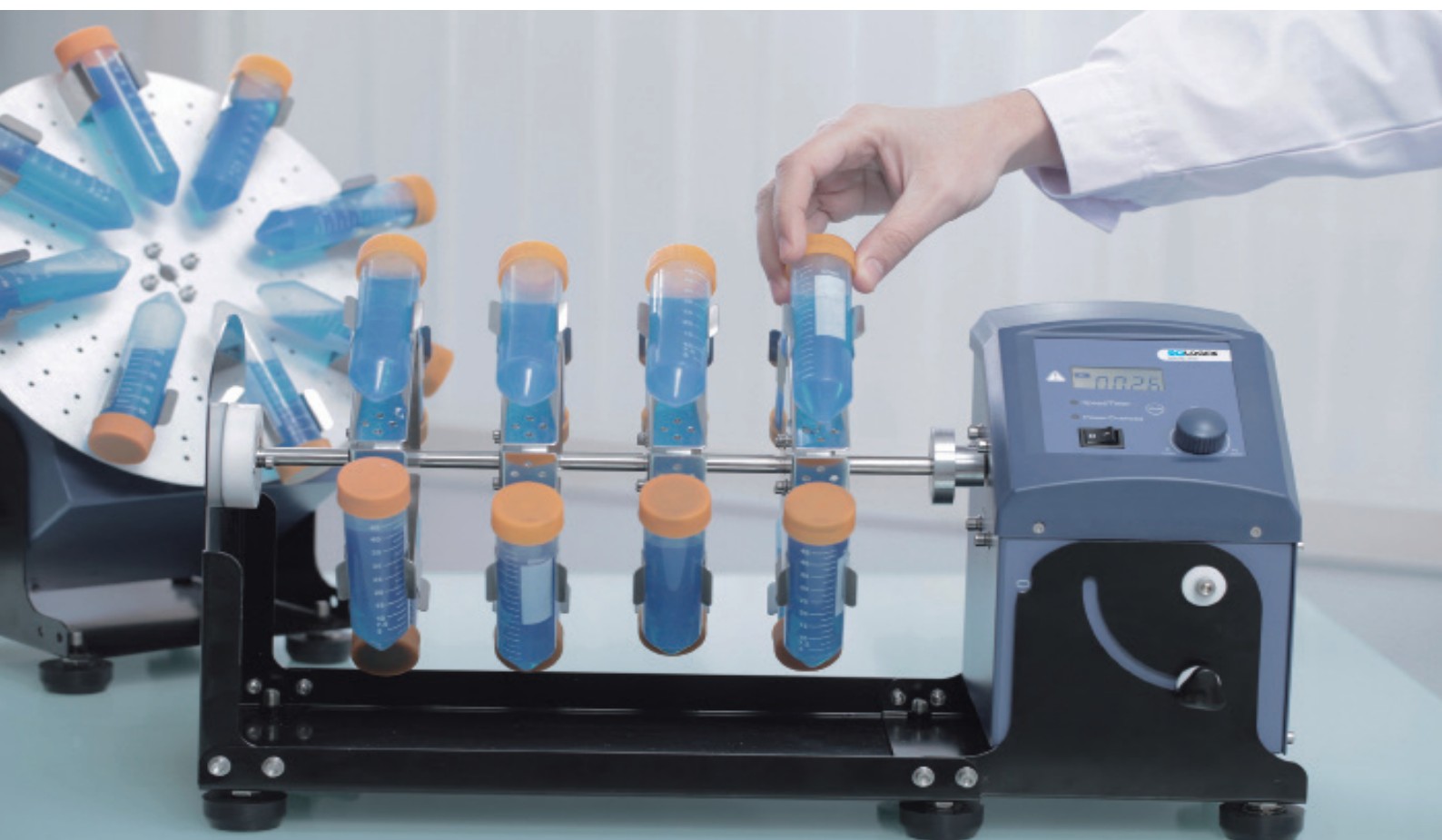
### Features:

- Supplied with a rotisserie holder
- LCD display
- Speed range from 10 to 70 rpm
- Rolling action provides gentle and effective sample mixing
- Used with a wide variety of accessories

Cat No:  
82422231



MX-RL-Pro  
Rotisserie accessory available

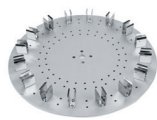


## Mixers, Rotators and Rollers

### Accessories:



**Cat. No: 18900160**  
Used for MX-RD-Pro  
Disk accessory, for 1.5mL x  
60 centrifuge tubes holder



**Cat. No: 18900161**  
Used for MX-RD-Pro  
Disk accessory, 15mL x 16  
centrifuge tubes holder



**Cat. No: 18900162**  
Used for MX-RD-Pro  
Disk accessory, 50mL x 8  
centrifuge tubes holder



**Cat. No: 18900140**  
Disk support rods,  
4 pcs, use with disk  
accessories



**Cat. No: 18900142**  
Used for MX-RL-Pro  
Rotisserie accessory,  
for 1.5mL x 48 centrifuge  
tubes held horizontally



**Cat. No: 18900143**  
Used for MX-RL-Pro  
Rotisserie accessory,  
for 15mL x 24 centrifuge  
tubes held horizontally



**Cat. No: 18900144**  
Used for MX-RL-Pro  
Rotisserie accessory, for  
50mL x 24 centrifuge  
tubes held horizontally



**Cat. No: 18900145**  
Used for MX-RL-Pro  
Rotisserie accessory,  
for 1.5mL x 32 centrifuge  
tubes held vertically



**Cat. No: 18900146**  
Used for MX-RL-Pro  
Rotisserie accessory,  
for 15mL x 16 centrifuge  
tubes held vertically



**Cat. No: 18900147**  
Used for MX-RL-Pro  
Rotisserie accessory,  
for 50mL x 16 centrifuge  
tubes held vertically



	MX-RD-Pro / MX-RL-Pro	MX-RD-E / MX-RL-E
Voltage [VAC]	100 - 240	100 - 240
Frequency [Hz]	50/60	50/60
Power [W]	40	20
Motor Type	DC motor	DC motor
Tilt Angle [°]	0 - 90	90
Speed Range [rpm]	10 - 70	0 - 80
Speed Display	LCD	-
Timer	Yes	-
Timer Display	LCD	-
Time Setting Range [min]	1 - 1199	-
Operation Type	Continuous / timed operation	Continuous
Dimensions [D x W x H mm]	220x510x260(MX-RL-Pro) 280x210x300(MX-RD-Pro)	150x530x190(MX-RL-E) 300x220x310(MX-RD-E)
Weight [kg]	8	1.7(MX-RL-E) 2.0(MX-RD-E)
Permissible Ambient Temperature [°C]	5 - 40	5 - 40
Permissible Relative Humidity	80%	80%
Protection class acc. To DIN EN60529	IP21	IP21



## MX-RL-E / MX-RD-E

### Classic Rotator

#### Features:

- Gentle and effective sample mixing
- Compact space-saving design fits easily into incubators
- Rolling action gives gentle, but effective mixing
- Used with a wide variety of accessories (for micro tubes with a volume range of 1.5mL - 50mL)
- Adjustable speed range of 0 to 80 rpm

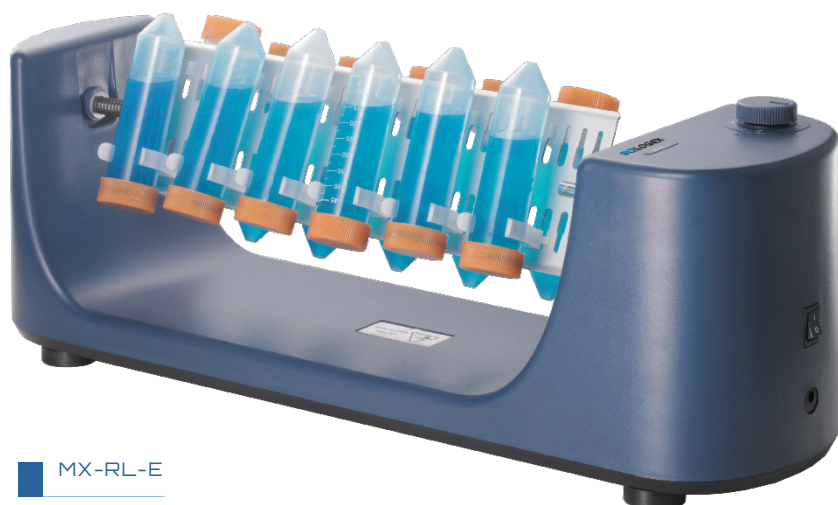


MX-RD-E

Cat No:  
82423031



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



MX-RL-E

Cat No:  
82422031





### Tube Rollers

Our tube rollers provide a gentle and highly efficient rocking and rolling motion; ideal for mixing blood samples, viscous substances and liquid-solid suspensions. Used in a variety of applications; including prevention of blood coagulation and immune precipitation.

#### MX-T6-S Classic Tube Roller

##### Features:

- Rocking and rolling motion for efficient mixing
- Speed range of 0 - 70 rpm
- Small footprint
- Easy to clean
- Designed for continuous operation

Cat No:  
82322031



MX-T6-S

#### MX-T6-Pro LCD Digital Tube Roller

##### Features:

- Rocking and rolling motion for complete mixing
- LCD display
- Speed range of 10 - 70 rpm
- Small footprint
- Easy to clean
- Designed for continuous or timed operation

Cat No:  
82322231



## Specifications:

	MX-T6-Pro	MX-T6-S
Voltage (VAC)	100 - 240	100 - 240
Frequency (Hz)	50/60	50/60
Power (W)	30	25
Motor Type	DC motor	DC motor
Rocking Motion	Rocking and rolling	Rocking and rolling
Amplitude (mm)	24	24
Max. Load Capacity (kg)	4	4
Number of Rollers	6	6
Roller Size (L) (mm)	280	280
Speed Range (rpm)	10 - 70	0 - 70
Speed Display	LCD	Scale
Timer	Yes	-
Timer Display	LCD	-
Time Setting Range (min)	1 - 1199	-
Operation Type	Continuous/timed operation	Continuous operation
Dimensions (DxWxH mm)	450 x 260 x 120	450 x 260 x 120
Weight (kg)	5.1	4.5
Permissible Ambient Temperature (°C)	5 - 40	5 - 40
Permissible Relative Humidity	80%	80%
Protection Class acc. To DIN EN60529	IP21	IP21



## Orbital and Linear Shakers

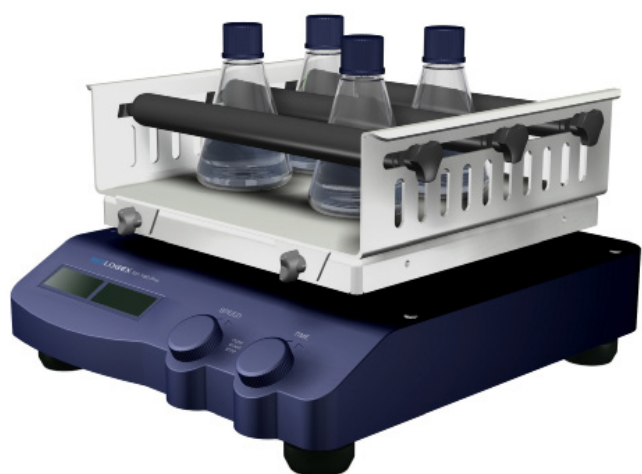
Digital orbital and linear shakers provide smooth and quiet rocking motions; designed for mixing culture dishes, flasks and beakers.



### SK-0180-Pro / SK-L180-Pro SK-0330-Pro / SK-L330-Pro LCD Digital Orbital and Linear Shakers

#### Features:

- Shaking weight up to 7.5kg and 2.5kg
- Load capacity (with platform) is 7.5kg or 2.5kg (max)
- Independent LCD displays (speed and timer can be viewed simultaneously)
- For use with a variety of vessels
- Brushless DC motor is robust
- Safe speed controls
- Multi-voltage





## SK-0180-S / SK-L180-S

### LED Digital Orbital and Linear Shaker

#### Features:

- Load capacity (with platform) of 3kg
- Independent LCD displays (speed and timer can be viewed simultaneously)
- Compact space-saving design fits easily in the incubator and refrigerator
- Continuous or timed operation
- Speed range of 40 - 200 rpm
- For use with a variety of vessels
- Multi-voltage



SK-0180-S / SK-L180-S



## SK-0180-E/SK-L180-E

### Classic Orbital and Linear Shakers

#### Features:

- Load capacity (with platform) of 3kg
- Compact space-saving design fits easily in the incubator and refrigerator
- Continuous operation
- Speed range of 0 - 200 rpm
- For use with a variety of vessels
- Comes with a trans platform
- Multi-voltage



SK-0180-E / SK-L180-E

## Specifications:

	SK-0330-Pro SK-L330-Pro	SK-0180-Pro SK-L180-Pro	SK-0180-S SK-L180-S	SK-0180-E SK-L180-E
Cat No	83221031	83201004	83111231	83211331
Voltage (VAC)	100 - 240	100 - 240	100 - 240	100 - 240
Frequency (Hz)	50/60	50/60	50/60	50/60
Power (W)	30	30	30	30
Shaking Motion	Orbital/Linear	Orbital/Linear	Orbital/Linear	Orbital/Linear
Orbital Diameter (mm)	10	4	20	20
Max. Load Capacity (with platform) (kg)	7.5	2.5	3	3
Motor Type	Brushless DC motor	Brushless DC motor	DC motor	DC motor
Motor Rating Input (W)	28	28	16	16
Motor Rating Output (W)	15	15	10	10
Speed Range (rpm)	100 - 350 (Linear) 100 - 500 (Orbital)	100 - 350 (Linear) 100 - 800 (Orbital)	40 - 200	0 - 200
Speed Display	LCD	LCD	LED	-
Timer	Yes	Yes	Yes	-
Timer Display	LCD	LCD	LED	-
Time Setting Range	1min - 59min (or continuous)	1min - 59min (or continuous)	1min - 59min (or continuous)	-
Operation Type	Continuous/timed operation	Continuous/timed operation	Continuous/timed operation	Continuous operation
Dimensions (W x D x H mm)	370 x 420 x 100	300 x 340 x 100	270 x 330 x 110	270 x 330 x 110
Weight (kg)	13.5	8.1	3.1	3.1
Permissible Ambient Temperature (°C)	5 - 40	5 - 40	5 - 40	5 - 40
Permissible Relative Humidity	80%	80%	80%	80%
Protection Class acc. DIN EN60529	IP21	IP21	IP21	IP21
RS232 Interface	Yes	Yes	-	-

## Rocking Shakers & 3D Shakers

Rocking shakers and 3D shakers are suitable for mixing applications in a variety of fields: including, but not limited to; gel staining and destaining, washes, hybridisations, immune precipitation and western blots.



SK-R330-Pro  
With non-slip mat



## SK-R330-Pro LCD Digital Rocking Shaker

### Features:

- Smooth see-saw rocking motion with a fixed angle of 9°
- Load capacity (with platform) of 10 kg
- Speed range of 10 - 70 rpm
- Designed for continuous or timed operation
- Independent LCD displays (speed and timer can be viewed simultaneously)
- For use with a variety of vessels
- Comes with a trans platform
- Multi-voltage

**Cat No:**  
83321031

## SK-R1807-S LED Digital Rocking shaker

### Features:

- Load capacity (with platform) of 3kg
- Independent LCD displays (speed and timer can be viewed simultaneously)
- Compact space-saving design fits easily in the incubator and refrigerator
- Continuous and timed operation, speed range of 10 - 80 rpm
- For use with a variety of vessels
- Multi-voltage

**Cat No:**  
83313131



**SK-R1807-S**  
With non-slip mat







## SK-R1807-E Classic Rocking Shaker

### Features:

- Load capacity (with platform) of 3kg
- Compact space-saving design (fits easily into an incubator and cryogenic box)
- For use with a variety of vessels
- Durable non-slip mat
- Aluminium-alloyed platform
- Strong bearing capabilities
- Continuous operation
- Speed range of 0 - 80 rpm
- Comes with a trans platform
- Multi-voltage

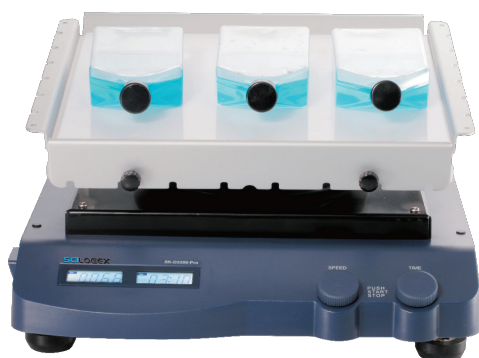
**Cat No:**  
83313231



SK-R1807-E  
With non-slip mat

### Specifications:

	SK-R330-Pro	SK-R1807-S	SK-R1807-E
Voltage (VAC)	100 - 240	100 - 240	100 - 240
Frequency (Hz)	50/60	50/60	50/60
Power (W)	50	20	20
Motor Type	DC motor	DC motor	DC motor
Rocking Motion	See-saw rocking	See-saw rocking	See-saw rocking
Tilt Angle (°)	9°	7°	7°
Max. Load Capacity (with platform) (kg)	10	3	3
Speed Range (rpm)	10 - 70	10 - 80	0 - 80
Speed Display	LCD	LED	-
Timer	Yes	Yes	-
Timer Display	LCD	LED	-
Time Setting Range	1min - 59min (or continuous)	1min - 59min (or continuous)	-
Operation Type	Continuous/timed operation	Continuous/timed operation	Continuous operation
Dimensions (W x D x H mm)	360 x 410 x 200	270 x 330 x 130	270 x 330 x 130
Weight (kg)	9	3.2	3.2
Permissible Ambient Temperature (°C)	5 - 40	5 - 40	5 - 40
Permissible Relative Humidity	80%	80%	80%
Protection Class Acc. To DIN EN60529	IP21	IP21	IP21



SK-D3309-Pro  
With non-slip mat



## SK-D3309-Pro LCD Digital 3D Shaker

### Features:

- Gentle motion with fixed 9° angle
- Max load capacity (with platform) of 5kg
- Speed range of 10 - 70 rpm
- Designed for continuous or timed operation
- Independent LCD displays (speed and timer can be viewed simultaneously)
- For use with a variety of vessels and comes with a non-slip mat
- Multi-voltage

Cat No:  
83422031

### Optional accessories of Shaker



Cat. No.	18900027	18900040	18900155	18900028	18900025	18900038	18900185	18900026	18900200
P/N	SK330.1	SK330.3	SK330.5	SK330.2	SK180.1	SK180.3	SK180.4	SK180.2	SK180.5
Description	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	Lengthways roller attachment	Dish attachment with non-slip mat	Clip attachment	Large sized dish attachment with non-slip mat
Used with Shakers									
Rocking Shaker	•	•	•	•					
3D Shaker	•	•	•	•					
Orbital and Linear Shaker (7.5kgs)	•	•	•	•					
Orbital and Linear Shaker (2.5kgs)					•	•	•	•	•
ESS series (3kg)					•	•	•	•	•

# SK-D1807-S

## LED Digital 3D shaker

### Features:

- Load capacity (with platform) of 3kg
- LED display
- Compact space-saving design fits easily into an incubator and/or refrigerator
- Continuous and timed operation
- Speed range of 10 - 80 rpm
- Wide range of platforms for use with a variety of vessels
- Multi-voltage



SK-D1807-S  
With non-slip mat



Cat. No.	18900029	18900030	18900031	18900032	18900033	18900036	18900037
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	Clip for flask volume 500mL, used with SK330.2 & SK180.2	Bar for SK330.1 universal attachment	Bar for SK180.1 universal attachment

Used with Shakers

Rocking Shaker	•	•	•	•	•	•	
3D Shaker	•	•	•	•	•	•	
Orbital and Linear Shaker (7.5kgs)	•	•	•	•	•	•	
Orbital and Linear Shaker (2.5kgs)	•	•	•	•	•		•
E&S series (3kg)	•	•	•	•	•		•



## SK-D1807-E

### Classic 3D Shaker

#### Features:

- Load capacity (with platform) of 3kg
- Compact space-saving design fits easily into an incubator and/or cryogenic box
- Wide range of platforms for use with a variety of vessels
- Aluminium-alloyed platform
- Strong bearing capabilities
- Durable anti-slip mat
- Continuous operation
- Speed range of 0 - 80 rpm
- Multi-voltage

Cat No:  
83411231



SK-D1807-E  
With non-slip mat



#### Specifications:

	SK-D3309-Pro	SK-D1807-S	SK-D1807-E
Voltage (VAC)	100 - 240	100 - 240	100 - 240
Frequency (Hz)	50/60	50/60	50/60
Power (W)	50	20	20
Motor Type	DC motor	DC motor	DC motor
Rocking Motion	3D orbital	3D orbital	3D orbital
Tilt Angle (°)	9°	7°	7°
Max. Load Capacity (with platform) (kg)	5	3	3
Speed Range (rpm)	10 - 70	10 - 80	0 - 80
Speed Display	LCD	LED	-
Timer	Yes	Yes	-
Timer Display	LCD	LED	-
Time Setting Range	1 min - 59 min (or continuous)	1 min - 59 min (or continuous)	-
Operation Type	Continuous/timed operation	Continuous/timed operation	Continuous operation
Dimensions (W x D x H mm)	360 x 430 x 106	270 x 330 x 130	270 x 330 x 130
Weight (kg)	9	2.7	2.7
Permissible Ambient Temperature (°C)	5 - 40	5 - 40	5 - 40
Permissible Relative Humidity	80%	80%	80%
Protection Class Acc. To DIN EN60529	IP21	IP21	IP21

### D-160 & D-500

#### Homogenizers

#### Applications:

Homogenizers are widely used in the fields of biotechnology, human and veterinary medicine/clinical medicine, pharmaceutical, cosmetic, food, petrochemistry and paint and lacquer industries.

### D-160

#### Handheld Homogenizer

#### Features:

- Lightweight and ergonomic design
- Sample Volume Range: 0.1 - 50 mL or 1 - 250 mL
- Autoclavable 316L stainless steel shafts, inert to aggressive solutions
- All shafts are interchangeable and are easily removable
- 6 position speed control (8,000 to 30,000 rpm)

Cat No:  
85010103



### D-500

#### Homogenizer

#### Features:

- Viscosity up to 10,000 mPas
- 6 position speed control (10,000 to 30,000 rpm)
- Safe - Safety switch stops the machine if overloaded
- 316L steel (resistant to corrosion)
- Quick change system of dispersing tools

Cat No:  
85020103



## Specifications:

	O-160	O-500
Power Supply	110 - 120V / 60Hz 220 - 240V / 50 - 60 Hz	110 - 120V / 60Hz 220 - 240V / 50 - 60 Hz
Motor Type Universal motor	160 Watt	500 Watt
Speed Range	8,000 - 30,000 rpm	10,000 - 30,000 rpm
Max. Circum. Speed	6.3 - 14m/sec	22.7 - 36m/sec
Speed Control Dial knob	6 stage	6 stage
Working Volume (mL, H <sub>2</sub> O)	0.1 - 50 mL (Dispersing shaft OS-160/5)	10 - 40000 mL (Optional)
	1 - 250 mL (Dispersing shaft OS-160/10)	
Max. Viscosity	5,000 mPas	10,000 mPas
Material of Dispersing Shaft	SS 316L stainless steel, PTFE	SS 316L stainless steel, PTFE
Weight	0.6 kg	1.3 kg
Dimensions (LxWxH)	46 mm x 55 mm x 230 mm	70 mm x 70 mm x 255 mm
Noise	72 dB(A)	79 dB(A)
Operating Environment	0 - 40°C, 85% rel. humidity	0 - 40°C, 85% rel. humidity
Protection Class	IP20	IP20

### O-500 Homogenizer

#### Dispersing shaft 1



#### SS20CSR20 Cat No. 18900115

- Volume 10 - 5000 mL
- Max. Circum. Speed 22.7m/sec
- Applications:
  - Dispersing shaft 1 for solid/liquid media
  - Ultimate emulsion fitness 1 - 10µm
  - Ultimate suspension fitness 10 - 50 µm

#### Dispersing shaft 2



#### SS20FER20 Cat No. 18900116

- Volume 10 - 5000 mL
- Max. Circum. Speed 22.7m/sec
- Applications:
  - Dispersing shaft 2 for W/D or O/W emulsions
  - Ultimate emulsion fitness 1 - 10µm
  - Ultimate suspension fitness 10 - 50 µm

#### Dispersing shaft 5 mm



#### SS5CSR5 Cat No. 18900117

- Volume 1 - 50 mL
- Max. Circum. Speed 5.8m/sec
- Applications:
  - 5mm dispersing shaft for solids/liquids
  - Dispersing tissue decomposition, clinical & medical diagnostics and suspensions
  - Suitable for centrifuge products and Eppendorf tubes





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