

Лабораторные шейкеры SIC-200D-C, SI-200D, SI-505, FlexiRoll, WA-200, SH-200, DR-200, RS-20,0, Vortamix Mini, системы культивирования клеток CELLroll, вихревые миксеры V, TR-200

Технические характеристики

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Cole-Parmer® Stuart™ Microplate Shaking Incubator - S1-200

- Incubator with shaker
- Ideal for microplates and microtubes
- Integrated timer
- Digital display for temperature and speed
- Optimised performance to minimise sample evaporation
- Retractable platform for easy loading and unloading
- Three year warranty





Cole-Parmer® Stuart™

Microplate Shaking Incubator - S1-200

The Cole-Parmer® Stuart™ S1-200 incubators have specifically been designed for adequately mixing small volumes of liquids in a temperature-controlled environment. The high-speed shaking action at 250 and 1250rpm, with a tight orbit of 1.5mm, is ideal for microtitre plates and microtubes.

The units feature a microprocessor controller and an LED control panel that allow independent control of speed and temperature, as well as a timer that can be set for any duration from 1 second to 9 days. Careful control of the air distribution within the incubator ensures temperature uniformity, between +7°C to +60°C, throughout the sample chamber.

A retractable platform facilitates easier access to samples at the back of the incubator. During operation it remains securely locked in place. The non-slip mat ensures up to four microtitre plates can comfortably and securely be accommodated at the same time; tube racks for all common tube can sizes are also available for the units.

Strategically placed stainless steel water trays ensures up to 80% humidity, preventing sample evaporation and damage over extended periods of incubation. The built-in USB connection allows the units to be connected to a PC for long term temperature monitoring.

Technical Specification

Specification	S1-200
Temperature range	Ambient + 7°C to 60°C
Samples	4 x Microtitre plate or 2 x microtube racks
Temperature display resolution	0.1°C
Temperature fluctuation	± 0.5°C at 37°C
Temperature variation	<0.6°C at 37°C
Temperature precision	± 0.5°C at 37°C
Speed range	250 to 1250rpm
Speed control	Digital set in 10rpm increments
Timer	min/sec, hour/min, days/hours
Orbit diameter, mm	15
Platform size, mm	220 x 220
Relative humidity	N80% (using water trays)
Internal dimensions, mm (w x d x h)	307 x 300 x 190
Maximum load, kg	1
Overall dimensions, mm (w x d x h)	361 x 405 x 430
Net weight, kg	22.5
Heater power, W 200W	200W
Electrical supply	230V, 50Hz, 250W
IP Rating	31

Ordering Information

Description	Ordering Number	Series No.	Model No.	Legacy Sku.
Microtitre plate shaker incubator	79520-10	51-200	51M-200D-M	51505
Microtitre plate shaker incubator 120V/60HZ	79520-08	51-200	51M-200D-M-120	51505/120/60
Microtitre plate shaker incubator with IQOQ document	79520-12	51-200	51M-200D-M	51505/IQOQ

Accessories

Description	Ordering Number	SeriesNo.	Model No.	LegacySku.
Tube holder for 1.5ml tubes	51900-97	51-200	N/A	55M5/1
Tube holder for 0.5ml tubes	51900-98	51-200	N/A	55M5/2
Tube holder for 0.2ml tubes	51900-99	51-200	N/A	55M5/3



Cole-Parmer® Stuart™ Refrigerated incubator with orbital shaker - SIC-200D-C

- Incubator with orbital shaker
- Integrated timer
- Digital display for temperature and speed
- Choice of angle adjustable accessory and tube rack
- Communications enabled for external temperature measurement
- Available with cooling options
- Three year warranty





Cole-Parmer® Stuart™ Refrigerated incubator with orbital shaker - SIC-200D-C

The Cole-Parmer® Stuart™ SIC-200D-C incubator with an integrated orbital shaker, is ideal for cell culturing procedures. Angle adjustable accessory racks with the Magnalock coupling systems can be incorporated to increase versatility.

The units offer a maximum temperature of 60°C; and when combined with the recirculating cooler, or equivalent, can operate at 15°C below ambient (minimum of 5°C), making it suitable for low-temperature applications, such as cell-based protein expression.

The compact units do not take up much space on the lab bench and have an integrated timer and digital display for speed and temperature. Every incubator comes with BioCote® antimicrobial protection and a three year warranty.

Technical Specification

	SIC-200D-C
Temperature range	Ambient -15°C to 60°C (minimum: 5°C)
Temperature resolution	0.1°C
Temperature precision	±0.5°C
Temperature fluctuation	±0.5°C
Temperature variation	±0.5°C
Speed range, rpm	30 to 300 rpm
Orbit diameter, mm	16
Platform size, mm	520 x 390
Capacity, L	115
Internal dimensions (w x d x h), mm	625 x 455 x 380 mm
Maximum vessel height, mm	300
Maximum load, kg	10
Overall dimensions (w x d x h), mm	675 x 562 x 640 mm
Net weight, kg	60
Heater power	400W
Electrical supply	230V, 50Hz, 450W
IP Rating	3I

Ordering Information

Description	Ordering Number	Series No.	Model No.	Legacy Sku.
Incubator, orbital shaker, large, cooled, 120v	79520-20	SI-200	SIC-200D-C-120	SI600C/120V/60
Incubator, orbital shaker, large, cooled	79520-22	SI-200	SIC-200D-C	SI600C
Incubator, orbital shaker with IQOQ document	79520-24	SI-200	SIC-200D-C	SI600C/IQOQ
Recirculating Cooler	12152-77	RC-200	RC-200-3	SRC5

Cole-Parmer®

Cole-Parmer® Tube Rotators, TR-200 and TR-200D

- Adjustable angle of rotation mixes samples effectively with gentle or vigorous motion
- A variety of tube holder discs allows customization for your application
- Integrated drip tray prevents workspace spills



Variable Speed model TR-200D



Tube Rotator TR-200D

Cole-Parmer® Tube Rotators, TR-200 and TR-200D

These tube rotators feature an adjustable angle of rotation from horizontal for minimal mixing to vertical for full end-over-end mixing. An integrated drip tray prevents workspace spills from the rotating tubes and both units offer a choice of six tube holders for most applications. The tube holders can be removed and replaced quickly and easily. These tube rotators can use two tube holders simultaneously with our dual holder accessory (00077-23). The rotators can be used in incubators up to 60° C and in cold rooms down to 4° C.

TR-200

- Gives gentle but effective mixing, ideal for keeping biological samples in suspension e.g., blood
- The rotator has a constant speed of 20rpm

TR-200D

- Ideal for aerating cultures, keeping biological samples in suspension and for general mixing applications
- The rotator has a variable speed of 2 to 40rpm for gentle rolling or vigorous mixing of samples
- A digital timer and speed display allow procedures to be accurately repeated for optimal results
- Scale to measure mixing angle for future reference or continuity

Technical Specification

Specification	TR-200	TR-200 120	TR-200D	TR-200D 120
Width(mm)	225	225	225	225
Height(mm)	290	290	290	290
Depth (mm)	310	310	310	310
Weight(kg)	5.2	5.2	5.3	5.3

Ordering Information

Description	Ordering Number	Series No.	Model No.	Legacy Cole-Parmer® SKU	Legacy Stuart® SKU
Rotator, analog control, fixed speed, 230V 50 Hz	51901-26	TR-200	TR-200	07650-11	S82
Rotator, analog control, fixed speed, 120V 60Hz	51901-27	TR-200	TR-200-120	07650-07	SB2/120V/60
Rotator, digital control, variable speed, 230V 50Hz	51901-28	TR-200	TR-200D	07650-13	S83
Rotator, digital control, variable speed, 120V 60Hz	51901-29	TR-200	TR-200D-120	07650-17	SB3/120V/60

Cole-Parmer[®]
stuart[™]

Cole-Parmer[®] Stuart[™] **Microplate Shaking** **Incubator - S1505**

- Incubator with shaker
- Ideal for microplates and microtubes
- Integrated timer
- Digital display for temperature and speed
- Optimised performance to minimise sample evaporation
- Retractable platform for easy loading and unloading
- Comes in 2 sizes - 51 L or 115 L
- Three year warranty





Cole-Parmer® Stuart™

Microplate Shaking Incubator - S1505

The Cole-Parmer® Stuart™ S1505 incubators have specifically been designed for adequately mixing small volumes of liquids in a temperature-controlled environment. The high-speed shaking action at 250 and 1250rpm, with a tight orbit of 1.5mm, is ideal for microtitre plates and microtubes.

The units feature a microprocessor controller and an LED control panel that allow independent control of speed and temperature, as well as a timer that can be set for any duration from 1 second to 9 days. Careful control of the air distribution within the incubator ensures temperature uniformity, between +7°C to +60°C, throughout the sample chamber.

A retractable platform facilitates easier access to samples at the back of the incubator. During operation it remains securely locked in place. The non-slip mat ensures up to four microtitre plates can comfortably and securely be accommodated at the same time; tube racks for all common tube can sizes are also available for the units.

Strategically placed stainless steel water trays ensures up to 80% humidity, preventing sample evaporation and damage over extended periods of incubation. The built-in USB connection allows the units to be connected to a PC for long term temperature monitoring.

Technical Specification

Specification	S1505
Temperature range	Ambient + 7°C to 60°C
Samples	4 x Microtitre plate or 2 x microtube racks
Temperature display resolution	0.1°C
Temperature fluctuation	± 0.5°C at 37°C
Temperature variation	<0.6°C at 37°C
Temperature precision	± 0.5°C at 37°C
Speed range	250 to 1250rpm
Speed control	Digital set in 10rpm increments
Timer	min/sec, hour/min, days/hours
Orbit diameter, mm	15
Platform size, mm	220 x 220
Relative humidity	N80% (using water trays)
Internal dimensions, mm (w x d x h)	307 x 300 x 190
Maximum load, kg	1
Overall dimensions, mm (w x d x h)	361 x 405 x 430
Net weight, kg	22.5
Heater power, W 200W	200W
Electrical supply	230V, 50Hz, 250W
IP Rating	3I

Ordering Information

Description	Ordering Number	Series No.	Model No.	Legacy Sku.
Microtitre plate shaker incubator	79520-10	51-200	5IM-200D-M	51505
Microtitre plate shaker incubator 120V/60HZ	79520-08	51-200	5IM-200D-M-120	51505/120/60
Microtitre plate shaker incubator with IQOQ document	79520-12	51-200	5IM-200D-M	51505/IQOQ

Accessories

Description	Ordering Number	SeriesNo.	Model No.	LegacySku.
Tube holder for 1.5ml tubes	51900-97	51-200	N/A	55M5/1
Tube holder for 0.5ml tubes	51900-98	51-200	N/A	5CM5/2
Tube holder for 0.2ml tubes	51900-99	51-200	N/A	5CM5/3



Cole-Parmer® Stuart™ Shaking Incubator - S1-200D & S1-200D-L

- Incubator with shaker
- Integrated timer
- Digital display for temperature and speed
- Retractable platform for easy loading and unloading
- Optimised performance to minimise sample evaporation
- Communications enabled for external temperature measurement
- Comes in two sizes - 51 L and 115 L
- Three year warranty





Cole-Parmer® Stuart™

Shaking Incubator - SI-200D & SI-200D-L

The Cole-Parmer® Stuart™ SI-200D and SI-200D-L range of incubators, with integrated shakers, are ideal for cell culturing procedures, especially suspension culture applications.

The compact units feature a microprocessor controller and an LED control panel that allow independent control of speed and temperature, as well as a timer that can be set for any duration from 1 second to 9 days. Forced air circulation within the incubator ensures temperature uniformity, between +5°C and +60°C throughout the sample chamber. A retractable platform facilitates easier access to samples at the back of the incubators. Both models have a versatile clamping system, for common flask sizes - up to 1 L on the SI-200D and 2 L on the SI-200D-L. A wide range of stainless-steel accessory racks are also available for smaller sample tubes - 1.5ml, 15ml and 50ml. Accessory racks are held to the shaking platform by a Magnalock system, to ensure quick and easy coupling and de-coupling. The incubators feature smoked acrylic windows to allow easy visibility of the samples and the compact design ensures the units do not take up much space on the lab bench. The built-in USB connection with dedicated software allows long term temperature monitoring.

Technical Specification



Specification	SI-200D	SI-200D-L
Temperature range	Ambient +5 - 60°C	Ambient +5 - 60°C
Temperature display resolution	0.1°C	0.1°C
Temperature precision	±0.5°C	±0.5°C
Temperature fluctuation	±0.5°C	±0.5°C
Temperature variation	<0.5°C	<0.5°C
Speed range, rpm	30 to 300 rpm	30 to 300 rpm
Orbit diameter, mm	16	16
Platform size, mm	335 x 335	526 x 390
Capacity, L	5l	11l
Internal dimensions (w x d x h), mm	422 x 408 x 297	623 x 465 x 395
Maximum vessel height, mm	250	300
Maximum load, kg	10	10
Overall dimensions (w x d x h), mm	450 x 474 x 522	675 x 542 x 642
Net weight, kg	30	55
Heater power	250W	400W
Electrical supply	230V, 50Hz, 300W	230V, 50Hz, 450W

Ordering Information

Description	Ordering Number	Series No.	Model No.	Legacy Sku.
Incubator orbital shaker	79520-04	SI-200	SI-200D	SI500
Incubator orbital shaker 120V/60HZ	79520-00	SI-200	SI-200D-120	SI500/120/60
Incubator orbital shaker with IQOQ document	79520-06	SI-200	SI-200D	SI500/IQOQ
Incubator orbital shaker	79520-16	SI-200	SI-200D-L	SI600
Incubator orbital shaker 120V/60HZ 120V/60HZ	79520-14	SI-200	SI-200D-L-120	SI600/120V/60
Incubator orbital shaker with IQOQ document	72520-18	SI-200	SI-200D-L	SI600/IQOQ

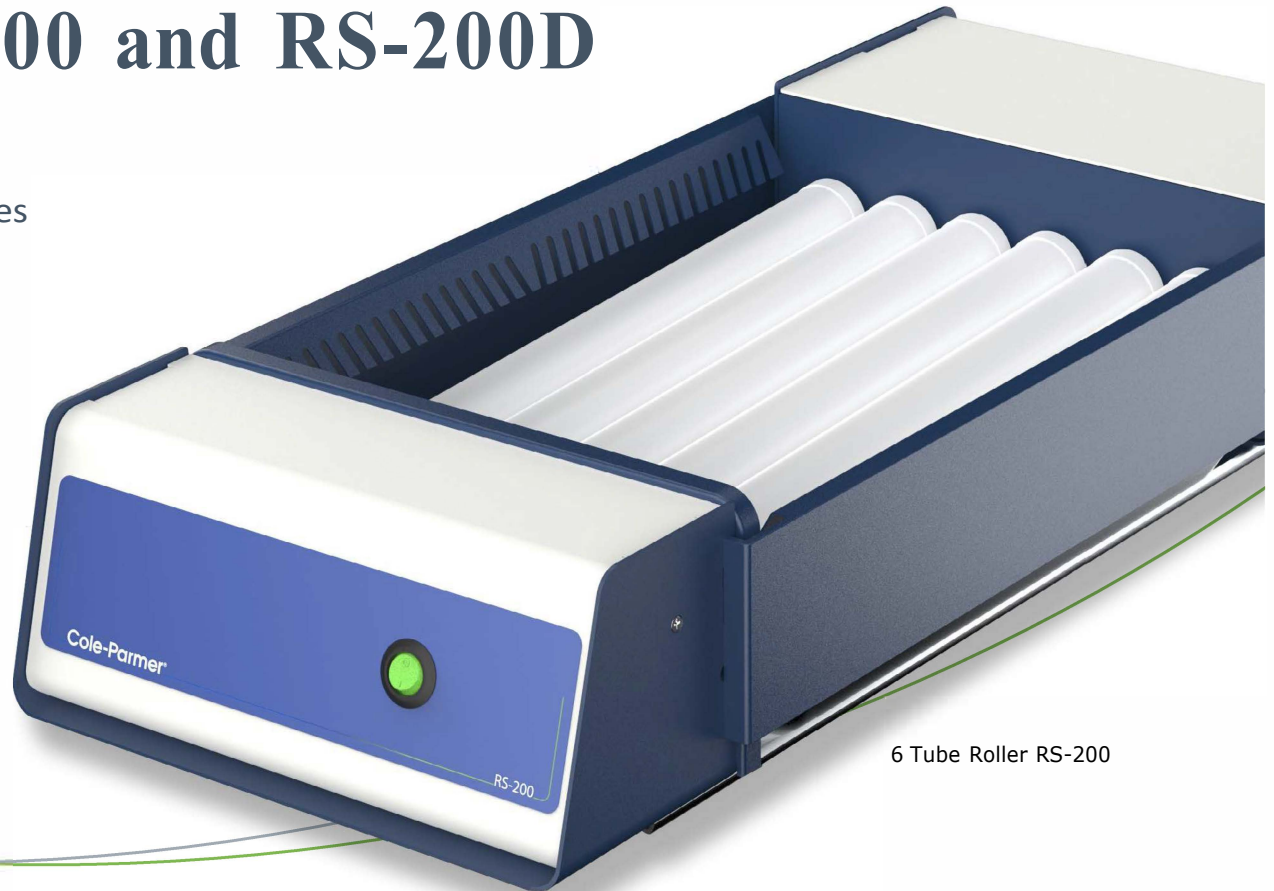
Accessories

Description	Ordering Number	Series No.	Legacy Sku.
Tube rack, 1.5ml x 64 microtubes	79520-96	SI-200	SI500/1
Tube rack, 15ml x 25 centrifuge tubes	79520-97	SI-200	SI500/2
Tube rack, 50ml x 12 centrifuge tubes	79520-98	SI-200	SI500/3
Tube rack, 16ml x 30 universal containers	79520-99	SI-200	SI500/4

Cole-Parmer®

Cole-Parmer® Tube Rollers, RS-200 and RS-200D

- Greater capacity and multiple rollers saves bench top space and meets standard lab throughput needs
- Featuring removable side panels
- Featuring detachable roller tubes enabling large volume/diameter bottles to fit
- Choice of analog or digital control
- Choice of fixed or variable speed



6 Tube Roller RS-200



6 Tube Roller RS-200D

Cole-Parmer® Tube Rollers, RS-200 and RS-200D

Cole-Parmer® roller mixers provide a gentle but efficient mixing ideal for mixing blood samples, viscous substances and liquid-solid suspensions where minimum aeration is required. Cole-Parmer® is committed to providing the highest levels of usability and as such has added additional features to the roller mixers. RS-200 roller mixers now feature easy to remove side panels. The side panels provide the user with complete peace of mind that their sample will be mixed effectively during continued use. The side panels ensure the sample bottles do not slide off the mixer and therefore provide the highest levels of both safety and functionality.

The Cole-Parmer® roller tubes provide the highest levels of versatility allowing the roller mixers to conveniently detach to accommodate larger vessels and therefore allow the user to mix a wide variety of differently sized tubes and bottles.

Technical Specification

Specification	RS-200	RS-200D
Number of rollers	6/9	6/9
Speed	33rpm	5 to 60rpm
Amplitude	16mm	16mm
Maximum load	3.0kg	3.0kg
Controls	Analog	Digital
Timer	No	Yes
Roller size (length x diameter)	340x30mm	340x30mm
Overall dimensions (w x d x h)	595x255x110mm 565x360x110mm	595x255x110mm 565x360x110mm
Netweight	5.1kg & 6.9kg	5.1kg & 6.9kg
Electrical Supply	230V, 50Hz, 50W 120V, 60Hz, 50W	230V, 50Hz, 50W 120V, 60Hz, 50W

Ordering Information

Description	Ordering Number	Series Number	Model Number	Legacy Cole-Parmer® SKU	Legacy Stuart® SKU
Roller mixer, 6 rollers, analog control, fixed speed, 230V 50 Hz	51901-18	RS-200	RS-200	04653-02	SRT6
Roller mixer, 6 rollers, analog control, fixed speed, 120V, 60Hz	51901-19	RS-200	RS-200-120	04653-01	SRT6/120V/60
Roller mixer, 6 rollers, digital control, variable speed, 230V 50 Hz	51901-22	RS-200	RS-200D	04653-06	SRT6D
Roller mixer, 6 rollers, digital control, variable speed, 120V, 60Hz	51901-23	RS-200	RS-200D-120	04653-05	SRT6D/120V/60
Roller mixer, 9 rollers, analog control, fixed speed, 230V 50 Hz	51901-20	RS-200	RS-200-L	04653-04	SRT9
Roller mixer, 9 rollers, analog control, fixed speed, 120V, 60Hz	51901-21	RS-200	RS-200-L-120	04653-03	SRT9/120V/60
Roller mixer, 9 rollers, digital control, variable speed, 230V 50 Hz	51901-24	RS-200	RS-200D-L	04653-08	SRT9D
Roller mixer, 9 rollers, digital control, variable speed, 120V, 60Hz	51901-25	RS-200	RS-200D-L-120	04653-07	SRT9D/120V/60

Cole-Parmer®

Cole-Parmer® Microplate Shaker - SH-200D-M, SH-200D-M-L

- High speed, small orbiting action - ideal for microtitre plates
- Capacity for four or eight microtitre plates
- Digital selection of speed
- In built digital timer
- Accessories available for mixing microcentrifuge tubes



SH-200D-M



SH-200D-M-L

Cole-Parmer® Microplate Shaker

- SH-200D-M, SH-200D-M-L

These Cole-Parmer® compact shaker microplates are ideal where gentle mixing is required, either on the bench or in incubators. With the combination of high speed and a tiny orbit the SH-200D range has an ideal action for mixing microtitre plates and microcentrifuge tubes. It is available as a small unit that can receive up to 4 plates or as a large unit that can receive up to 8 plates. Microtitre plates are held to the platform by a highly efficient non slip mat.

The SH-200D range has adjustable speed control between 250 and 1250rpm, the speed is shown via the bright LED display and accurately controlled by an encoder. The versatile timer can be set from 1second to 9 hours. The unit can also be set for continuous operation.

Technical Specification

Specification	SH-200D-M	SH-200D-M-L
Platform dimensions, mm (w x l)	220 x 220	306 x 306
Number of plate positions	4	8
Speed range, rpm	250 to 1250	250 to 1250
Orbit diameter, mm	15	15
Maximum load, kg	1	2
Operational temperature range	+4 to +40°C	+4 to +40°C
Maximum permissible humidity	80%	80%
Dimensions, mm (w x d x h)	240 x 300 x 160	360 x 420 x 160
Net weight, kg	5	10
Electrical supply	230V, 50Hz, 50W	230V, 50Hz, 50W
IP Rating	3I	3I

Ordering Information

Description	Ordering Number	Series No.	Model No.	Legacy Sku.
Cole-Parmer® Microtitre plate shaker	51901-16	SH-200	SH-200D-M	SSM5
Cole-Parmer® Microtitre plate shaker mini 120V	51901-17	SH-200	SH-200D-M-120	SSM5/120V/60
Cole-Parmer® Microtitre plate shaker large	51901-08	SH-200	SH-200D-M-L	SSL5
Cole-Parmer® Microtitre plate shaker large 120V	51901-09	SH-200	SH-200D-M-L-120	SSL5/120V/60

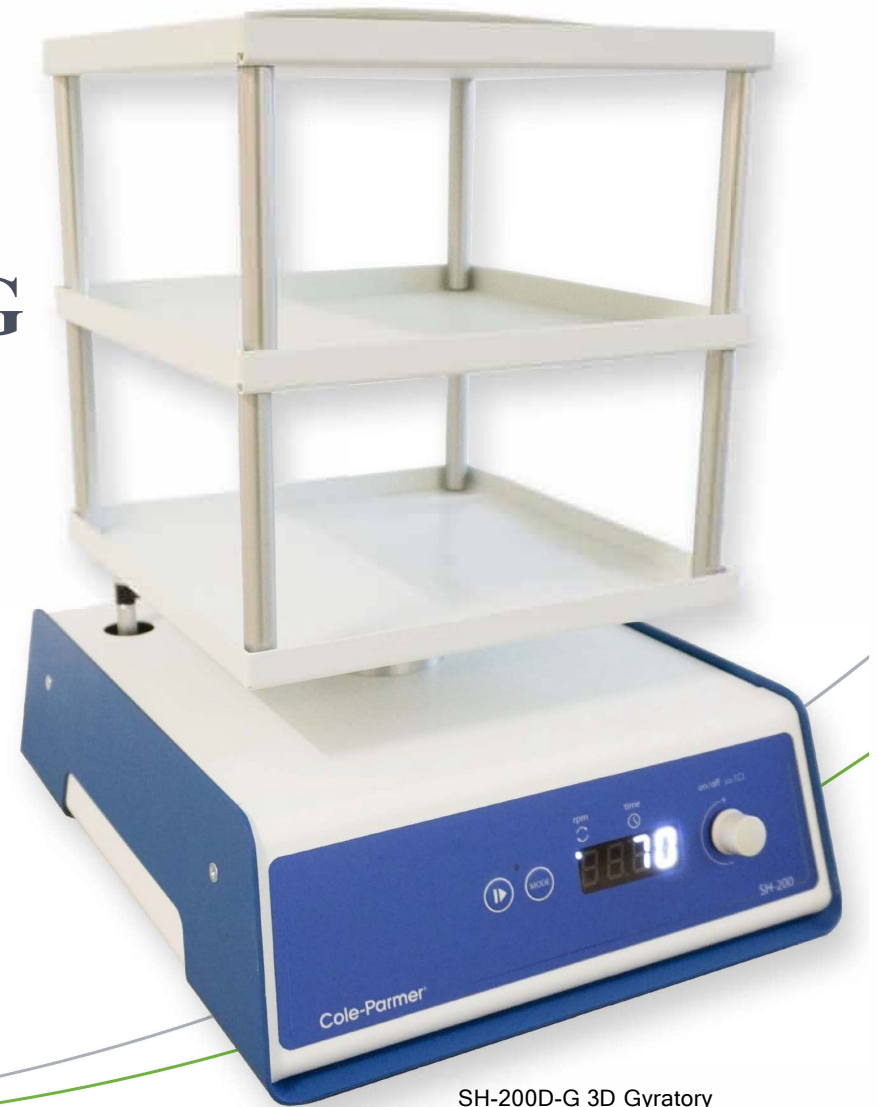
Accessories

Description	Ordering Number	Series No.	Model No.	Legacy Sku.
Cole-Parmer® Tube holder for 1.5ml tubes	51900-97	SH-200	-	SSM5/1
Cole-Parmer® Tube holder for 0.5ml tubes	51900-98	SH-200	-	SSM5/2
Cole-Parmer® Tube holder for 1.2ml tubes	51900-99	SH-200	-	SSM5/3

Cole-Parmer®

Cole-Parmer® Gyratory rockers - SH-200D-G and SH-200D-G-L

- Large platform rockers - ideal for multiple users
- Gentle rocking action
- Choice of two models: 3D gyratory action SH-200D-G and SH-200D-G-L
- Digital speed control and built-in timer
- Optional tier system available to increase capacity (see main image)



SH-200D-G 3D Gyratory
Rocker Mini, with tiering system
(option)



SH-200D-GL 3D Gyratory Rocker Large

Technical Specification

Specification	SH-200D-G	SH-200D-G-L
Rocking action	3D gyratory	3D gyratory large
Platform dimensions, mm (w x d)	235 x 235mm	355x355mm
Speed range	5 to 70rpm	5to70rpm
Angle of tilt	3 to 12°	0
Angle adjustable	Yes by hand	No
Maximum load, kg	3	10
Dimensions, mm (w x d x h)	240 x 300 x 165mm	360 x 420 x 170mm
Tier height, mm	125/tier	125/tier
Operational temp. range	+4to+40° C	+4 to +40° C
Maximum permissible humidity	80%	80%
Net weight, kg	5	10
Electrical supply	230V, 50Hz, 50W	230V, 50Hz, 50W
IP rating	30	30

Cole-Parmer® Gyrotory rockers - SH-200D-G and SH-200D-G-L

These Cole-Parmer® rockers have large platforms able to accommodate multiple samples, ideal for a busy lab. They are very quiet in operation and designed to be on continuously. Two models are available: Model SH-200D-G (Medium size) and model Model SH-200D-G-L (Large size) provide a 3D gyratory motion, ideal for low foaming agitation, DNA extractions, staining and de-staining procedures etc. The angle of tilt can be moved to any position by hand to optimise the mixing of vessels. Rockers are often used in conjunction with incubators and environmental chambers available from Cole-Parmer®. Both units can be used in temperatures up to 40°C and humidity up to 80%. Both models are supplied with a nonslip mat and have digital selection of both speed and time making them very easy to operate. An accessory tier system can be fitted in seconds, without the need for tools, tripling the available space for samples. Each tier is securely held in place by magnets.

Ordering Information

Description	Ordering Number	Series No.	Model No.	LegacySku.
Cole-Parmer® Gyro-rocker, mini	51901-12	SH-200	SH-200D-G	SSM3
Cole-Parmer® Gyro-rocker, mini 120V	51901-13	SH-200	SH-200D-G-120	SSM3/120V/60
Cole-Parmer® Gyro-rocker, large	51901-04	SH-200	SH-200D-G-L	SSL3
Cole-Parmer® Gyro-rocker, large 120V	51901-05	SH-200	SH-200D-G-L-120	SSL3/120V/60

Accessories

Description	Ordering Number	Series No.	Model No.	Legacy Sku.
Tiering system (2 platforms plus 8 bars), medium	51700-93	SH-200	SH-200D-G/ SH-200D-G-120	SSM3/1
Tiering system (2 platforms plus 8 bars), large	51700-94	SH-200	SH-200D-G-L/ SH-200D-G-L-120	SSL3/1

Cole-Parmer®

Cole-Parmer® Linear shaker - SH-200D-R

- Linear shaking action - ideal for aeration applications
- Digital speed selection to 250rpm with soft start
- Built-in digital timer
- Reliable quiet drive mechanism
- Fully adjustable cradle system



Linear Shaker SH-200D-R



Linear Shaker SH-200D-R

Technical Specification

Specification	SH-200D-R
Platform dimensions (w x d)	335x335mm
Speed range	25 to 250 rpm
Orbit amplitude	20mm
Maximum load	10kg
Operational temperature range	+4 to +40 °C
Maximum permissible humidity	80 percent
Overall dimensions (w x d x h)	360 x 420 x 270mm
Netweight	11kg
Electrical supply	120V, 60Hz, 50W 230V, 50Hz, 50W

Cole-Parmer Linear shaker - SH-200D-R

The Cole-Parmer® linear shaker has a powerful yet quiet shaking mechanism that has been designed for problem free continuous use. Model SH-200D-R provides a linear reciprocating shaking action with an amplitude of 20mm and speed range of 20 to 250rpm, ideal for extractions. It can be used in environmental chambers and CO2 incubators.

The cradle type platform has four rubber cushioned horizontal securing bars with quick release handles. They can be easily adjusted both vertically and horizontally to hold most sizes and types of vessel, including flasks, bottles and beakers. For example, they will accommodate the following Erlenmeyer flasks or bottles: 12 x 250ml or 9 x 500ml or 4 x 1000ml or 2 x 2000ml. The main advantage of this cradle system is that it can accommodate different sizes of vessel, a common requirement where shakers are used by different people in the laboratory. Speed is fully variable and is set digitally for consistency. The speed is microprocessor controlled and accurately maintained even over long runs. A digital built-in timer allows shaking times from 1 to 999 minutes to be set. After the timer has counted down, the shaker stops and sounds an alert. Alternatively the unit can be set for continuous operation.

Ordering Information

Description	Ordering Number	Series No.	Model No.	Legacy Sku.
Cole-Parmer® Linear Reciprocating Shaker, Large, 230V, 50Hz	51901-02	SH-200	SH-200-D-R	SSL2
Cole-Parmer® Linear Reciprocating Shaker, Large, 120V, 60Hz	51901-03	SH-200	SH-200-D-R-120	SSL2/120V/60

Cole-Parmer®

Cole-Parmer® Orbital Shakers - SH-200D-O and SH-200D-O-L

- Smooth orbital shaking action
- Orbit of 16mm is ideal for larger samples
- Built-in digital timer
- Variable speed control to 300rpm
- Large shaker is supplied with cradle system and small shaker with flat and no-slip mat



SH-200D-O
Orbital Shaker



SH-200D-O Orbital Shaker



SH-200D-O-L Orbital Shaker

SH-200D-O

The Cole-Parmer® compact SH-200D-O provides a smooth uniform circular motion with an orbit of 16mm. It is supplied with flat platform and non-slip mat. The shaking action is ideal for samples of 0.5 to 5ml held in multi well plates, dishes and Petri dishes.

The shaker can be used in incubators and environmental chambers (up to 40°C and 80% humidity). Alternatively, an accessory cradle system is available that can accommodate a variety of vessels including flasks, bottles or beakers via four rubber securing bars. It turns the SH-200D-O into a very effective mini platform shaker. It will hold up to: 4 x 250ml or 2 x 500ml or 1x 1000ml Erlenmeyer flasks or bottles. The flexible cradle system has the benefit that different combinations of vessels can be used offering maximum versatility. Speed is variable from 30 to 300 rpm. Once set on the digital display, the shaking speed is effectively maintained even over long periods of time. Shaking times can be set to run for 1 to 999 minutes on the built-in digital timer, or the unit can be set for continuous operation.

SH-200D-O-L

The SH-200D-O-L has all the features of the SH-200D-O but in a larger unit. The SH-200D-O-L comes complete with a cradle system, rather than a non slip mat, to comfortably hold flasks. The cradle type platform has six rubber cushioned horizontal securing bars with quick release handles. They can be easily adjusted both vertically and horizontally to hold most sizes and types of vessel, including flasks, bottles and beakers. For example, they will accommodate the following Erlenmeyer flasks or bottles: 12 x 250ml or 9 x 500ml or 4 x 1000ml or 2 x 2000ml. The main advantage of this cradle system is that it can accommodate different sizes of vessel, a common requirement where shakers are used by different people in the laboratory.

Technical Specification

Specification	SH-200D-O	SH-200D-O-L
Shaking action	Orbital	Orbital
Platform dimensions (w x l)	220x220mm	335x335mm
Speed range	30to 300rpm	30to300rpm
Orbital / amplitude	16mm	16mm
Maximum load	3kg	10kg
Overall dimensions (w x d x h)	240 x 300 x 140mm	360 x 420 x 270mm
Operational temperature range	+4 to +40°C	+4 to +40°C
Maximum permissible humidity	80%	80%
Netweight	5kg	11kg
Electrical supply	230V, 50Hz, 50W -120V, 60 Hz	230V, 50Hz, 50W -120V, 60 Hz

SH-200D-O-L Orbital Shaker

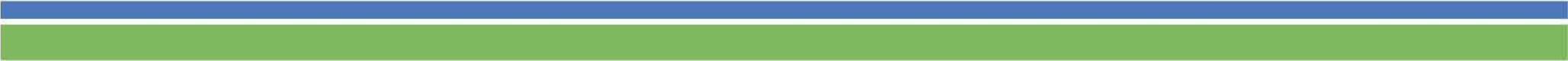


Ordering Information

Description	Ordering Number	Series No.	Model No.	Legacy Sku.
Cole-Parmer® Shaker, orbital, mini 230V, 50Hz	51901-10	SH-200	SH-200D-O	SSM1
Cole-Parmer® Shaker, orbital, mini 120V, 60Hz	51901-11	SH-200	SH-200D-O-120	SSM1/120V/60
Cole-Parmer® Shaker, orbital, large 230V, 50Hz	51901-00	SH-200	SH-200D-O-L	SSL1
Cole-Parmer® Shaker, orbital, large 120V, 60Hz	51901-01	SH-200	SH-200D-O-L-120	SSL1/120V/60

Accessories

Description	Ordering Number	Series No.	Models to Pair with	Legacy Sku.
Cole-Parmer® Accessory cradle with 4 securing bars mini	51700-97	SH-200	SH-200D-O & SH-200D-O-120	SSM1/1
Cole-Parmer® Large flat platform (340 x 300mm) holds up 8 plates	51700-98	SH-200	SH-200D-O & SH-200D-O-120	SSM1/2
Cole-Parmer® Clear Acrylic lid (fits over standard platform)	51700-99	SH-200	SH-200D-O & SH-200D-O-120	SSM1/3
Cole-Parmer® Large accessory cradle (510 x 510mm) with 6 securing bars	51700-95	SH-200	SH-200D-O-L & SH-200D-O-L-120	SSL1/1
Cole-Parmer® Accessory flat platform (335 x 335mm) with non-slip mat	51700-96	SH-200	SH-200D-O-L & SH-200D-O-L-120	SSL1/2



Cole-Parmer®

Cole-Parmer® Flask Shakers -WA-200

- Vigorous shaking action
- Timed operation or continuous running
- Robust construction
- Ideal for extractions



Cole-Parmer® Flask Shakers - WA-200



Valuable time can be taken up mixing bottles and flasks by hand. Let our flask shaker take the strain. Holding up to eight flasks or bottles, up to 500ml capacity, it creates a vigorous mixing action by simulating hand shaking. It is especially useful for applications where prolonged shaking is required as it can be left on continuously and won't get tired!

Robust construction, mounted on four rubber feet to absorb vibration and prevent unnecessary movement on the bench. Analogue timer covers 10 to 60 minutes with a manual override. Electronic feed-back control ensures a constant speed irrespective of load.

Supplied with two side arms, eight clamps and Allen key. An optional extension kit is available which consists of two extension arms and four extra clamps increasing the capacity to twelve bottles or flasks.

Technical Specification

Specification	WA-200
Speed range	8 to 800 oscillations/min
Amplitude, mm	15
Dimensions, mm (w x d x h)	780 x 270 x 240
Maximum load, kg	3
Net weight, kg	8.3
Electrical supply	230V, 50Hz, 50W
IPRating	31

Ordering Information

Description	Ordering Number	Series No.	Model No.	Legacy Sku.
Flask shaker with two side-arms, eight clamps	51900-02	WA-200	WA-200	SF1
Spare clamp	99955-87	WA-200	N/A	SF11
2 x accessory side - arms and 4 x clamps. Increases the capacity to twelve bottles or flasks	99955-88	WA-200	N/A	SF12

Cole-Parmer®

V-100 Series Vortex Mixer

- Fixed speed of 2500 rpm
- Mix a wide variety of tube sizes and shapes with the included rubber cup head
- Heavy die-cast body won't dance across your bench
- Automatic start when the soft rubber cup is pressed down
- 2500 rpm fixed speed
- 3-year warranty





V-100 Series Vortex Mixer

The V-100 fixed-speed mixer is ideal for rapid mixing of samples contained in vials, test tubes, small flasks, and bottles. Starts automatically when the rubber cup is depressed and stops once vessel is removed. Heavy die-cast body for stability during use.

Integral retort rod fixing allows vessels to be secured above the vortex action for long-term mixing.

Specifications

Model no.	V-100
Speed	2500 rpm, fixed
Touch operation	Yes
Continuous operation	No
Orbit diameter	0.42 cm (0.16 in)
Dimensions (W x H x D)	13.5 x 7.8 x 21.5 cm (5.3 x 3.0 x 8.4 in)
Electrical supply	90 to 240 VAC, 50/60 Hz, 20 W
P rating	IP31
Warranty	3 years

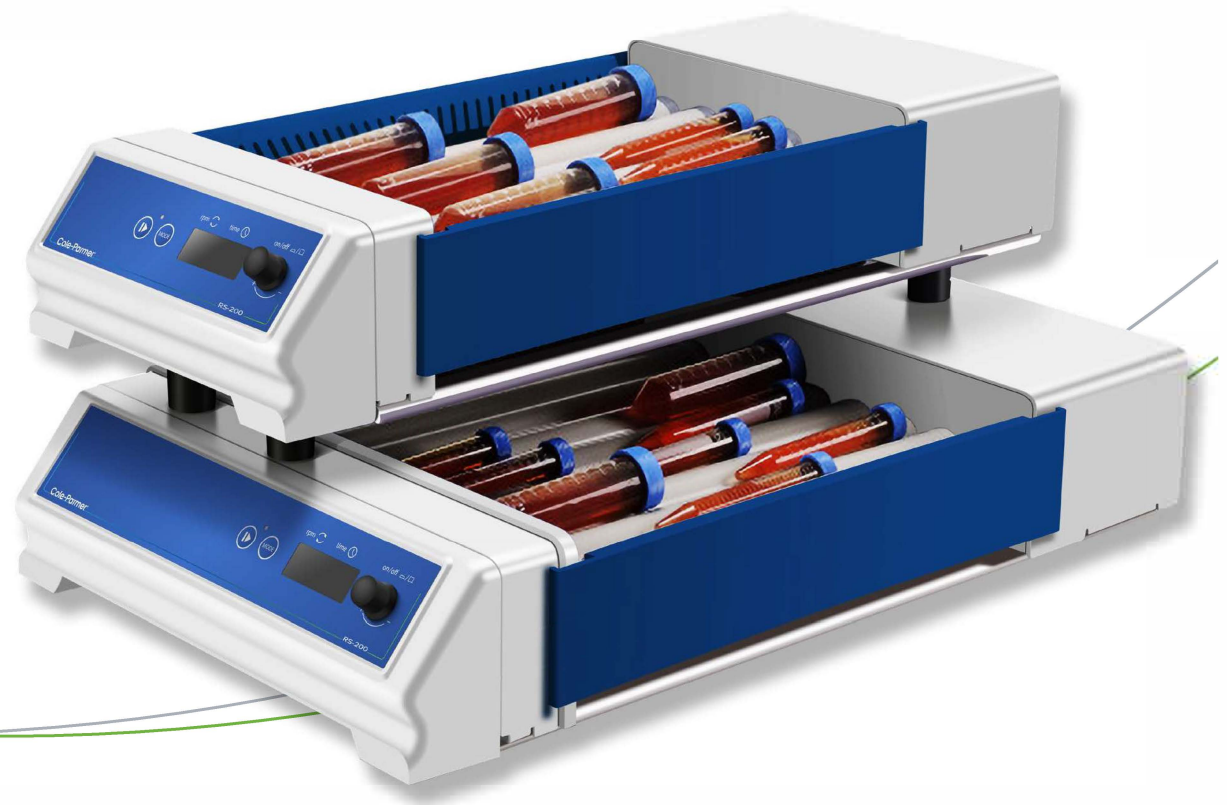
Ordering Information

Description	Item no.	Series no.	Model no.	Legacy SKU
Vortex mixer, fixed speed	04729-01	V-100	V-100	SA7

Cole-Parmer®

Cole-Parmer® Tube Rollers Stack System

- For use with Tube Rollers System
- Allows up to 3 tube rollers to be stacked to save space and increase capacity
- Works by magnets - no need for any tools
- Fitted in minutes
- Easy to disassemble





Cole-Parmer® Tube Rollers Stack System

Cole-Parmer® Tube Roller Stacking System consists of four magnetic stacking blocks that are designed to allow rollers to be stacked on top of one another, thus saving valuable bench space. Up to three rollers can be stacked in virtually any combination. Fitted in seconds, without any need for tools, the stacking blocks are easy to move into the optimum position where they hold the rollers securely in place by powerful magnets. They are equally as easy to dismantle if required for storage or cleaning purposes.



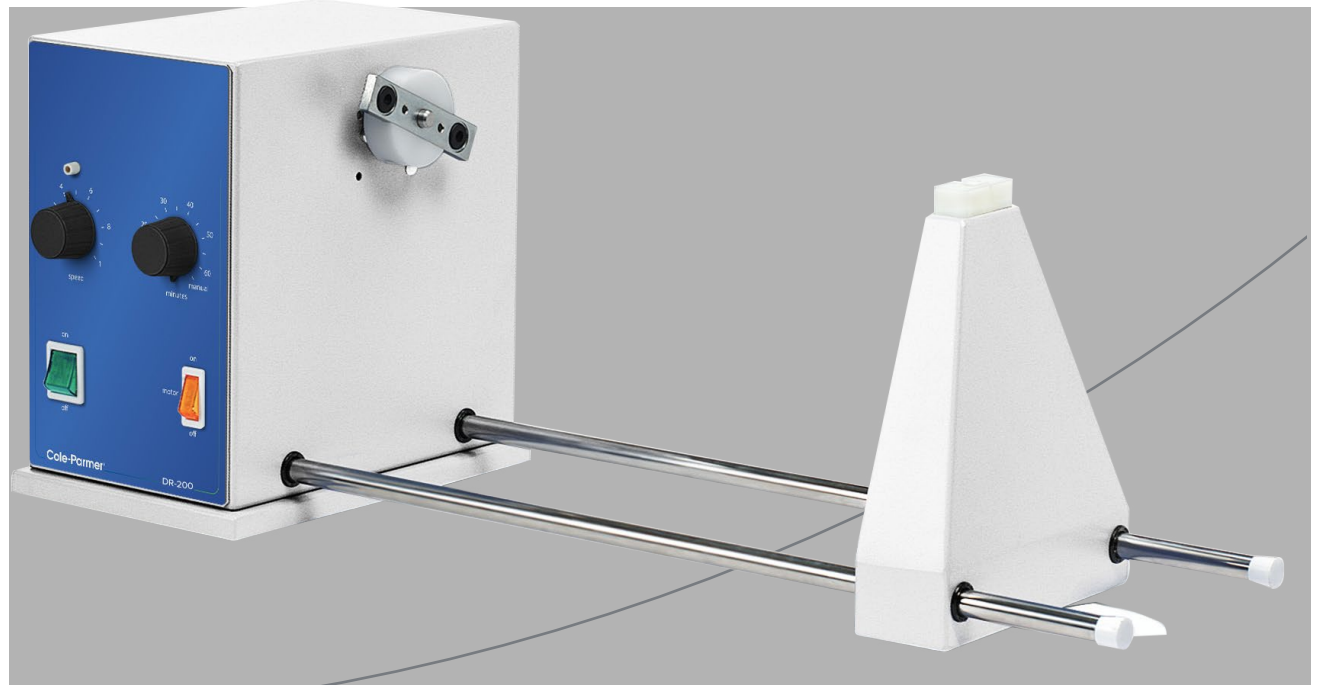
Ordering Information

Description	Ordering Number	Series No.	Model No.	Legacy Sku.
Stacking system for rollers (4 x stack blocks)	04653-09	RS200 RS200D	N/A	SRT/STACK

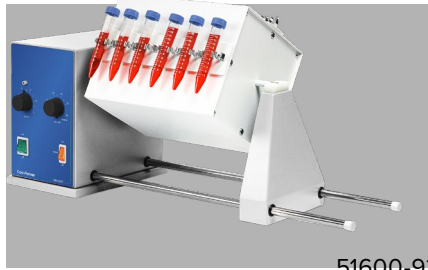
Cole-Parmer®

Cole-Parmer® Rotator drive units DR-200

- Highly versatile - accepts a choice of 5 drums
- Built in timer
- Variable speed control 6 to 60rpm



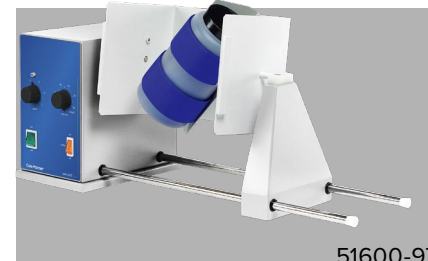
Cole-Parmer® Rotator drive units, DR-200



51600-92



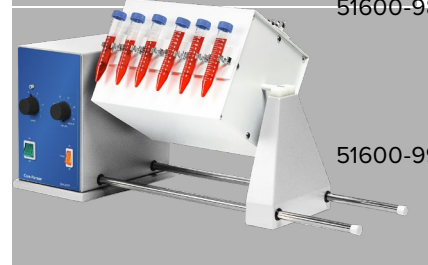
51600-96



51600-97



51600-98



51600-99

The rotator drive unit is used in conjunction with a wide range of drums designed to take different sizes and types of vessels. The five drums are designed to give different mixing actions.

Speed of rotation is variable from 6 to 60rpm for a range of mixing applications. For added convenience a built in analogue timer can be set from 10 to 60 minutes. Alternatively the unit can be set for continuous operation.

Test-tube holder, designed to rotate test-tubes in an end-over-end movement. Comprises a square metal drum which can accommodate a choice of plates fitted with tube clips. Up to four plates can be mounted on the drum. Easy fitting via a push button mechanism.

Two platforms, this drum accepts 2 x 250ml conical flasks or reagent bottles for end over end mixing. The samples are securely held in place by a collar that fits around the neck of the flask or bottle and is secured by two washers.

Drum holds the vessel at a 45° angle so it is rolled and turned end over end at the same time giving a vigorous figure of 8 mixing action. The sample container is retained by a strong Velcro strap. Accepts almost any container including reagent bottles, powder jars and paint tins up to 200mm in length and 120mm diameter.

This drum consists of a four segment Perspex® cradle. Each segment is fitted with a fully adjustable Velcro® strap to hold bottles and other containers up to 120mm diameter and up to 300mm in length.

Designed to rotate test-tubes in an end-over-end movement. Comprises a square metal drum which can accommodate a choice of plates fitted with tube clips. Up to four plates can be mounted on the drum. Easy fitting via a push button mechanism.

Ordering Information

Description	Ordering Number	Series No.	Model No.	Legacy Sku.
Rotator drive, 230V, 50Hz	51600-06	DR-200	DR-200	STR4
Rotator drive, 120V, 60 Hz	51600-02	DR-200	DR-200-120	STR4/120V/60

Accessories

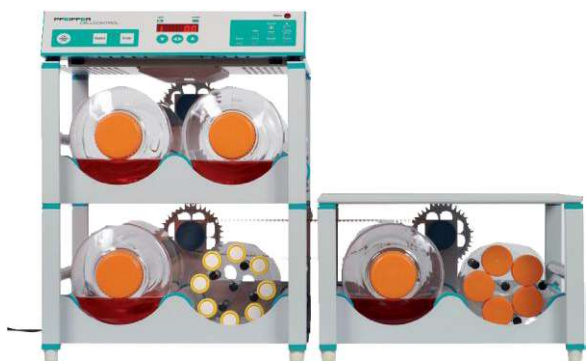
Description	Ordering Number	Series No.	Model No.	Legacy Sku.
Drum to hold test tube clip plates	51600-95	DR-200	N/A	STR4/1
Clip plates for 12 x 12mm tubes (per pair)	51600-91	DR-200	N/A	STR1/1
2 Clip plates for 10 x 16mm tubes (per pair)	51600-92	DR-200	N/A	STR1/2
Clip plates for 8 x 19mm tubes (per pair)	51600-93	DR-200	N/A	STR1/3
Clip plates for 7 x 24mm tubes (per pair)	51600-94	DR-200	N/A	STR1/4
Drum with two platforms to hold flasks or bottles	51600-96	DR-200	N/A	STR4/2
Drum with figure 8 mixing action	51600-97	DR-200	N/A	STR4/3
Drum with four segment cradles holding up to four bottles	51600-98	DR-200	N/A	STR4/4
Drum with four segment cradles and four tube racks	51600-99	DR-200	N/A	STR4/5



Technical Specification

Specification	DR-200
Maximum load, kg	3
Rotation speed	6 to 60rpm
Dimensions, mm (w x d x h)	650 x 250 x 250
Net weight, kg	6.4
Electrical Supply	230V, 50Hz, 50W 120V, 60Hz
IP Rating	31

CELLROLL



Adaptable to specific needs

The modular design of the CELLROLL allows scale-up of bottle capacity from 4 to 16 roller bottles. By using two drive units, up to 32 roller bottles can be operated using one control unit only. The customized configuration of CELLROLL increases flexibility and efficiency of the lab.

Technical Data

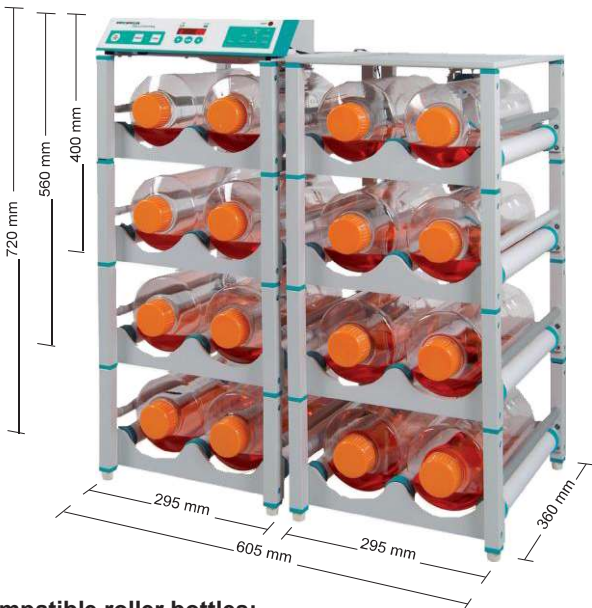
Dimensions (H x W x D)	400 x 295 x 360 mm (2 decks)
Weight	1.85 kg
Weight of one deck	1.7 kg
Input voltage	100 – 240 VAC 50 – 60 Hz

Ordering information

	Description	Part No.
CELLROLL	Includes a drive unit (0.1 - 2 rpm), two decks (for 4 roller bottles), a control unit, a power supply and a control cable	13050-00
CELLROLL fast	Includes a drive unit (2 - 6 rpm), two decks (for 4 roller bottles), a control unit fast, a power supply and a control cable	13050-02
Components	Control unit incl. power supply	24406-17
	Drive unit (0.1 - 2 rpm) for maximally 8 decks incl. control cable	24406-27
	Drive unit fast (2 - 6 rpm) for maximally 8 decks incl. control cable	24406-28
	Deck (for 2 roller bottles)	13050-20
Accessories	Storage deck (necessary for horizontal extension)	24406-29
	Control cable (length 2 m) for second output	24406-19
	Power supply	24406-31

Optimized for cell cultivation

Successful growth of cells in roller bottles often relies on optimal rolling speed and therefore the CELLROLL allows fine-tuning of the rotation speed. The standard drive unit operates in a speed range from 0.1 to 2 rpm and is adjustable in steps of 0.1 rpm. The faster drive unit has a rolling speed range of 2 to 6 rpm and is adjustable in steps of 0.5 rpm. To avoid unnecessary shear stress, all the rolls of the instrument are turning on high-quality ball-bearings free of vibrations and are driven by a stepper motor which guarantees a completely smooth rolling start and stop.



Compatible roller bottles:

Up to 29 cm in length (incl. 3 cm lid), 10 - 12 cm of diameter


Cole-Parmer® Vortex Mixer



True circular orbit for efficient mixing

- Variable speed is useful for a variety of applications from general mixing to resuspending pellets
Shaker features two modes for both "touch" and continuous operation. The standard "Cup" head supplied with the vortexer will accommodate a single test tube. The head is easily switched with optional heads (sold separately) that accommodate tubes of a variety of sizes as well as microplates. No tools required. It is lightweight and stable during operation due to the optimized counter balance. Safe for cold room or incubator use.

•

Compare item	Power (VAC)		
 EW-04726-01 —	120		
 EW-04726-03 —	230		

Cole-Parmer® FlexiRoll Digital Tube/Bottle Roller Shaker




Use with a variety of bottles, tubes, and flasks

- Mix your tubes and bottles with minimal aeration
 - Double your capacity and save precious lab space by stacking two units
- This compact digital roller shaker can be used with variety of bottles, tubes, and flasks. Safely operate on a benchtop or in an incubator from 4 to 60°C, and up to 95% humidity. Digitally set the rotation rate from 0.5 to 80 rpm.

Rollers may be added and removed for additional versatility to accept a wider range of bottle and tube sizes. If using on centrifuge and test tubes, O-rings are required for placement around the sample tubes to assure safe mixing. Stack up to two rollers to double your capacity and save bench space. Order the optional remote controller to also obtain timed run functionality.

Ideal for growth and culturing of adherent cells, suspension cells, mixing test tubes, washing nucleic acid blots, or performing hybridization protocols. In Western, Southern, and Northern blotting applications, use as an alternative to the more expensive rotisserie style hybridization ovens. Purchase five additional rollers the FlexiRoll can rotate 20 to 15 and 50 mL tubes at one time, ensuring a complete and uniform mixing of the reagents with the filter paper.

There are two different rack options available. The standard roller rods rotate 360° while keeping the bottle or tube level with the bench. The rocker rods gently rock the samples up and down while rotating 360° at the same time.


item	Description
 EW-04397-44	Digital Tube Roller Shaker; 120 VAC
 EW-04397-45	Digital Tube Roller Shaker; 220 VAC
 EW-24410-14	FlexiRoll Digital Tube Rocker and Roller Shaker; 120 VAC


Cole-Parmer® Vortamix Mini Vortex Shaker



Compact and powerful enough for 50-mL centrifuge tubes

- Press your tube to the top gasket and mix as long as needed
 - Agitate tubes at 3000 rpm with a 4.5 mm orbit—even 50-mL, conical-bottom, centrifuge tubes
 - Choose the gasket color you prefer—red is included; blue, green, and purple are available
- Compact vortex shaker mixes samples in centrifuge and test tubes, up to 30 mm in diameter, with little effort. The vortex motion is activated by placing a tube on the gasket cap and pressing down lightly.

item	Description
<div></div> <div>EW-04397-27</div>	<div>Mini Vortexer, 100-240 VAC; US Adapter</div>

item	Description
<div data-bbox="126 255 256 376"></div> <div data-bbox="256 255 432 286">EW-04397-28</div>	<div data-bbox="707 286 1051 349">Mini Vortexer, 100-240 VAC; International</div>


Cole-Parmer® High-Capacity Vortex Mixer



A true vortex in every vessel

- Mix more samples at a time—large, heavy-duty platform
 - Choose from constant or pulse mixing settings—run up to 100 hours
 - Accepts almost any tube rack—adjustable
- These versatile vortex mixer/shakers are ideal for medium to high throughput laboratories. The large 7" x 12" (17.8 x 30.5 cm) platform accepts standard racks for tubes, vials, flasks, cylinders, and microwell plates, or select from our pre-drilled foam rack options.
- Mixers feature a balanced drive and oversized motor to deliver accurate and reproducible speeds, up to 2500 rpm, with minimal vibration. Microprocessor control provides a programmable pulsing mode for time specific interval mixing and optimal sample agitation. Set the run time and operate unattended for up to 100 hours. Available in standard or QuEChERS versions—QuEChERS model (04724-01) includes a rack starter kit.

item	Max Speed (rpm)	Power (VAC)	Description
 EW-04724-01	2500	115 / 230	High-Capacity Vortex Mixer, QuEChERS; 115/230 VAC

item	Max Speed (rpm)	Power (VAC)	Description
 EW-04725-60	2500	115 / 230	High-Capacity Vortex Mixer, Standard; 115/230 VAC

Cole-Parmer® RotoFlex Tube Rotator



Zoom Image




• **COLE-PARMER**

Adapt to different racks without tools to accommodate a wide range of tubes

- Mix micro to centrifuge tubes—0.5 mL to 50 mL tubes— with these versatile rotators
- Adjust the mixing angle of each rotisserie platform separately from 0 to 90°
- Rotate at a fixed speed with the RotoFlex, or from 10 to 40 rpm with the RotoFlex Plus
- Change the mixing direction to suit your application needs

These flexible tube rotators work with tubes sizes from 0.5 to 50 mL. The 360° rotation gently and thoroughly mixes samples. Additional features include an adjustable mixing angle from 0 to 90° for each of the 4 mixing panels independently.

The RotoFlex system has a fixed speed or 22 rpm for the 120V version or 18 rpm for the 240V version, and the rotational direction is reversible by simply tapping the rotisserie in the direction required. The RotoFlex Plus system has a variable speed range of 10 to 40 rpm, with a 1 rpm resolution. The Plus system also has an oscillation mode that agitates tubes while rotating for additional sample mixing. Additional rotisseries are available for purchase separately.

item	Max Speed (rpm)	Power (VAC)	Description
 EW-04397-33	22	120	RotoFlex Benchtop Tube Rotator; 120 VAC

item	Max Speed (rpm)	Power (VAC)	Description
 EW-04397-34	18	240	RotoFlex Benchtop Tube Rotator; 220 VAC
 EW-04397-40	40	120	RotoFlex Plus Digital Benchtop Tube Rotator; 120 VAC
 EW-04397-41	40	240	RotoFlex Plus Digital Benchtop Tube Rotator; 220 VAC

Cole-Parmer Vortex Mixer with Accessory Pack



Cole-Parmer – Item # EW-04729-05

Compact unit perfect for individual work stations

- Mix a wide variety of tube sizes and shapes with the included rubber cup head
- Heavy die-cast body won't dance across your bench
- Use for continuous mixing — housing design supports use with a lab rod
- Accessory pack expands mixing capabilities
- 3 year warranty

Specifications & Description

- | | |
|---------------|---------------------------------------|
| • Description | Vortex Mixer with FREE Accessory Pack |
| • Warranty | 3 Years |

Cole-Parmer Variable Speed Vortex Mixer; 90 to 240 VAC



Cole-Parmer – Item # EW-04750-51

Adjustable speed for more control

- Mix a wide variety of tube sizes and shapes with the included rubber cup head
- Heavy die-cast body won't dance across your bench
- Use for continuous mixing — housing design supports use with a lab rod
- 3 year warranty

Specifications & Description

• Orbit Size (in)	0.1563
• Orbit Size (mm)	4.2
• Min Speed (rpm)	200
• Max Speed (rpm)	2500
• Width (in)	3
• Height (in)	5.375
• Depth (in)	8.5
• Width (cm)	7.8
• Height (cm)	13.5
• Depth (cm)	21.5
• Power (VAC)	240
• Power (Hz)	50/60
• Description	Variable Speed Vortex Mixer; 90 to 240 VAC
• Warranty	3 year

Алматы (727)345-47-04
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
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Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
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Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
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Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81

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Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
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Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47

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Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
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