



Benchtop General Purpose Centrifuge Series



About us



Innova Bio-Meditech is one of the professional solution provider of laboratory and medical devices. Firmly committed to our mission of "sharing innovative bio-meditech solutions with the world", we are dedicated to innovation in the fields of Biology Project, Life Science, Pharmacy Industry and Medical Treatment.

Innova Bio-Meditech possesses a sound distribution and service network with business partners in North and Latin America, Europe, Africa and Asia-Pacific etc. We have built up a well established R&D, manufacture network with 3 centers in Qingdao, Shanghai and Suzhou. Inspired by the needs of our customers, we adopt advanced technologies and transform them into accessible innovation. This means constant effort and research, in order to more fully understand the developments of the market, INNOVA produce constantly upgraded product ranges by adding new products year after year.

The passion for science

Contents

Vacuum Concentrator System	01
Cold trap VCT6/40/50 at low temperature	03
High Speed Benchtop Centrifuge	05
High Speed Benchtop Refrigerated Centrifuge	15
Low Speed Benchtop Centrifuge	27
Low Speed Benchtop Refrigerated Centrifuge	35
Special centrifuge	40
—Hematocrit Centrifuge	40
—CYTO Centrifuge	41
—Serofuge / Cell Washing Centrifuge	42
—Blood ID Centrifuge	43
—Petroleum Centrifuge	44
—Microplate Centrifuge	45
Rotor picture	46

Vacuum Concentrator System



The VCC series vacuum centrifugal concentrator has the function of quickly and safely evaporating water and organic solvents from the sample. The processed sample can be conveniently used for various qualitative analyses - chemical, biochemical, biological analysis, immunoscreening, food safety, residue analysis etc.

Characteristic

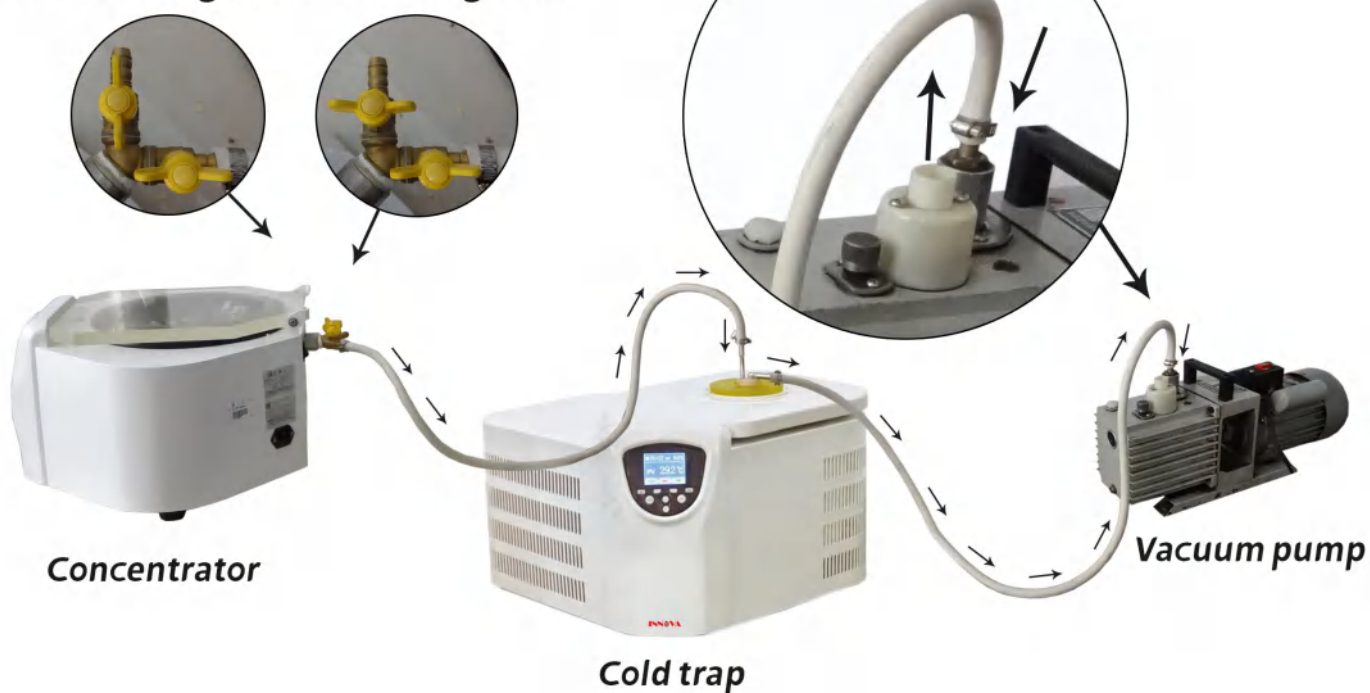
- ◆ It adopts the Infineon company's single-chip microcomputer and Infineon's drive module, cooperates with the independent research and development control board and the large torque DC brushless motor.
- ◆ The operation is stable and low noise, providing a comfortable laboratory environment.
- ◆ Vacuum sample heating (optional) can be realized.
- ◆ TFT-LCD true color display, touch screen button and physical button dual operation mode, with special button for centrifugal force display, display setting parameters and operating parameters.
- ◆ With over temperature warning function.
- ◆ Adopt uniform heating method, fast heating, high temperature control precision, can heat the cavity to 60 °C.

Technical Parameters

Model	VCC-1	VCC-2	VCC-3	VCC-4
Rotor Capacity	62×1.5 ml	12 ×10ml 6×50ml	6×250ml (6x2x50ml/ 6x5x20ml adapter)	2×96 holes 62×1.5 mL 12×10 mL 6×50 mL
Max speed （r/min）	1500		2000	
Rcf (×g)	220		500	
Temperature control range	indoor ~ + 60℃ or no heating function			
Noise	< 50dB(A)			
Vacuum pump	optional			
Final vacuum	0.1mbar			
Vacuum interface	φ10mm			
Total power	1.0kW		1.5kW	
Power	AC220V/50Hz			
Net weight	21kg	21kg	38kg	70kg
Size （L×W×H）(mm)	500×490×280	500×490×280	600×540×360	620×740×390

Non-working state

Working state



Cold trap VCT6/40/50 at low temperature

High efficiency solvent fast capture system for condensation of solvent vapor. When the steam is condensed into a liquid by a cold trap, the decrease of the gas material increases the vacuum degree of the system, thus speeding up the concentration process and significantly improving the performance of the vacuum concentration system.



Characteristic

TFT-LCD true color display screen, touch screen button and entity button double operation mode, at the same time display setting parameters and running parameters.

Sealed wide mouth collection bottle with good chemical resistance sodium calcium glass material, optional capacity.

The adopts imported non-fluorine refrigeration compressor and environmental protection refrigerant R404a, which has a wide temperature control range of -50°C - room temperature (CT-50) and can be set during operation. It has the function of prefabricated cooling and can be cooled to the set temperature quickly.

Adopt closed circulation mode to avoid laboratory environmental pollution.

Small size only 0.8 m^3 , Collection area of 760 cm^2 . High recovery efficiency, maximum capture 284 mL/6H (anhydrous ethanol).



Product model	VCT6	VCT40	VCT50
Cycle mode	Closed circulation		
Freeze mode	Compressor refrigeration, environmental refrigerant		
Working ambient temperature	15 °C -30 °C		
Maximum power	300W	320W	380W
Limit temperature	-40 °C	-40 °C	-50 °C
Adjustable temperature range	Room temperature to -40 °C		Room temperature to -45 °C
Temperature regulation accuracy	±1 °C		
Concentrated maximum condensate capture	Medium: water 260 ml/12 hour temperature setting-15 °C recommended 300 ml collection bottle Medium: ethanol 284 ml/6 hour temperature setting-35 °C to-40 °C recommended 600 ml collection bottle		
Condensed area of collecting chamber	760 cm ²		
Security function	Compressor overload protection, compressor timing protection, high pressure switch protection, temperature self-regulation, defrosting		
Freeze mode	Φ12		
Collection bottle volume	300 mL/600mL(Optional)		
Collection bottle volume	AC 220V 50HZ 15A		
Dimensions	440×340×630 mm	580×250×560 mm	580×250×560 mm
Weight	44kg	53kg	54kg

High Speed Benchtop Centrifuge-Rotoh 166



Product Features

- ◆ Microcomputer control with HD LCD display, driven by AC frequency conversion motor
- ◆ Up to 10 level deceleration and acceleration control with 40 sets program groups.
- ◆ Steel Structure, centrifuge chamber made of stainless steel with Environmentally friendly anti-corrosion coating treatment and low noise.
- ◆ Food grade silicone integrated seal ring, beautiful, high temperature resistant and Corrosion resistance.
- ◆ With over speed, imbalance, door cover protection, over current, rotor fault etc protection .
- ◆ Electronic traction structure design with ultra-high safety protection is adopted.

Technical Parameter

Model	Rotoh 166		
Max Speed	16500rpm	Voltage	AC 220±22V 50Hz 10A or custom
Max RCF	21615×g	Power	350W
Max Capacity	12×5ml	Noise Level	≤ 62dB (A)
Timer	1s~99min59s	Size (mm)	360×270×250
Revolutions/min	±10r/min	Net Weight	19kg

Rotor Parameter

Rotor type	Order code	Capacity	Max Speed (r/min)	Max RCF(×g)
Angle rotor	AR1651602	16×1.5/2.0ml	16500rpm	20880×g
	AR1501205	12×5ml	15000rpm	18036×g
	AR1502402	24×1.5/2.0ml	15000rpm	21615×g
	AR1504802P	4×8×0.2ml PCR Row	15000rpm	14866×g
	AR1508802P	8×8×0.2ml PCR Row	14000rpm	15032×g
	AR12024H	Capillary rotor 24 hole	12000rpm	13845×g

High Speed Benchtop Centrifuge-Rotoh 1815



Product Features

- ◆ Equipped with 7-inch full touch screen simple interface and all parameters at a glance. Stepless speed adjustment. Automatic conversion of centrifugal force, display on the same screen.
- ◆ Multiple program memories. User can simply name each programs, which is more convenient to call programs when using.
- ◆ Automatic identification system for 15 magnetic rotors. It has 12x1.5/2ml angle rotor (max. speed 18500rpm), as well as 4x100 swing rotor (different adapters available).
- ◆ 10 individual acceleration and 11 deceleration profiles, and free parking time can be set.
- ◆ 1Providing multiple self-diagnostic protection functions against door interlock malfunction, over-speed operation, motor over-heating, misoperation and communication fault-etc, to ensure user's safety.

Technical Paramete

Model	Rotoh 1815	Noise	≤65dB(A)
Max. speed	18500r/min	Power supply	AC220V±22V 50/60Hz
Max. RCF	23797xg	Power consumption	700W
Max. capacity	4x100ml	Dimension (WxDxH)(mm)	380x505x360
Speed accuracy	±10r/min	Packing dimension(WxDxH)(mm)	480x780x460
Time setting range	1s to 99min59s	Net weight	36kg

Rotor parameters

Order code	Rotor type	Max. speed (r/min)	Max. RCF(xg)	Capacity
AR1502402	Angle rotor	15000	21532	24x1.5/2.0ml
AR1501205	Angle rotor	15000	15840	12x5ml
	Adaptor	15000	15840	0.5ml/1.5ml
AR1301210	Angle rotor	13000	17370	12x10ml
	Adaptor	13000	17370	1.5ml/5ml
AR1300650	Angle rotor	13000	17947	6x50ml
	Adaptor	13000	17947	1.5ml/5ml/10ml/ 15ml/20ml/25ml/30ml
AR1200650	Angle rotor	12000	15292	6x50ml(Conical) 50ml round bottom adaptor as gift
	Adaptor	12000	15292	15ml(Conical)
AR10004100	Angle rotor	10000	10744	4x100ml
	Adaptor	10000	10744	5ml/10ml/15ml /25ml/50ml (Conical/round)t
AR1403002	Angle rotor	14000	22140	30x1.5/2.0ml
AR1304802	Angle rotor	13000	18525	48x1.5/2.0ml
	Adaptor	13000	18525	0.2ml/0.5ml
AR1306802P	Angle rotor	13000	16020	6x8x0.2PCR Row
AR13024H	Hematocrit rotor	13000	17369	24 capillaries
AR1302402	Swing rotor	13000	16816	24x1.5/2.2ml
	Adaptor	13000	16816	0.2ml/0.5ml
AR1200815	Angle rotor	12000	13200	8x15ml (Conical)
	Adaptor	12000	13200	5ml
AR05004100	Swing rotor yoke	5000	3773	4x100ml
	Bucket	5000	3773	4x100ml
	Adaptor	5000	3773	4x1x50ml (Conical)
				4x1x50ml (Round)
				4x1x15ml (Conical)
				4x1x15ml(Round)
AR0402296	Microplate bucket	4000	2200	4x3x10ml vacuum blood collection tube
				2x2x96 well
				2x6x96 MTP
				2x2x96 DWP
AR1851202	Angle rotor	18500	23797	2x1x96 filtration kit
	Adaptor	18500	23797	12x1.5/2.2ml
AR1851202	Angle rotor	18500	23797	12x1.5/2.2ml
	Adaptor	18500	23797	12x1.5/2.2ml

High Speed Benchtop Centrifuge-Rotoh

168/1814/2017/2117



Product Features

Intelligent Control System

- ◆ With five groups of optional programs and can store 99 program groups ;
- ◆ Electric lid lock;
- ◆ Long press the start/short-time key to realize instantaneous centrifugation.
- ◆ Up to 10 level acceleration/ deceleration with Linear drive.

Excellent kernel performance

- ◆ HD large LCD display and the parameters can be revised during operation without shutdown.
- ◆ Microcomputer control ,AC frequency conversion brush-less motor with fast speed and stable operation.
- ◆ Two modes can be set: start timing/arrival revolution timing.

Intimate detail design

- ◆ An intimate tool rack is provided for accompanying tools to guard the instrument at all times.
- ◆ The front of the fuselage is designed with an operation SOP guide map, which makes it easier and more standard for laboratory personnel to use the instrument.
- ◆ It is equipped with a rotor cover that can be quickly locked for easy use.
- ◆ Ergonomic, low opening height, close the centrifuge cover with one press.
- ◆ Special noise reduction system.

Careful and safe

- ◆ With rotor automatic identification system .
- ◆ Over speed,over heat,unbalance protections with auto lid lock.
- ◆ Steel Structure,centrifuge chamber made of stainless steel with Environmentally friendly anti-corrosion coating treatment.



Technical Parameter

Model	Rotoh 168	Rotoh 1814	Rotoh 2017	Rotoh 2117
Max Speed	16500rpm	18000rpm	20000rpm	21000rpm
Max RCF	26145×g	31115×g	31115×g	32868×g
Max Capacity	6×50ml	4×100ml	4×250ml	4×750ml
Timer	1s ~ 99h59min			
Revolutions/min	±10r/min			
Rotor automatic recognition	Yes			
Voltage	AC 220±22V 50Hz 10A or custom			
Power	800W	800W	1200W	1500W
Noise Level	≤ 60dB (A)	≤ 60dB (A)	≤ 60dB (A)	≤ 60dB (A)
Size(mm)	480×360×330	480×360×330	560×570×370	660×730×445
Net Weight	38kg	38kg	110kg	123kg

Rotor parameters

Rotoh 168

Rotor type	Order code	Capacity	Max Speed (r/min)	Max RCF(×g)
Angle rotor	AR1652402	24×1.5/2.0ml	16500rpm	26145×g
Angle rotor	AR1501205	12×5ml	15000rpm	15243×g
	AR1403202	32×1.5/2.0ml	14000rpm	19940×g
	AR1408802P	8×8×0.2ml PCR Row	14000rpm	15032×g
	AR1350630	6×30ml (Round bottom)	13500rpm	17482×g
	AR1301210	12×10ml	13000rpm	15228×g
	AR1304802	48×1.5/2.0m	13000rpm	18327×g
	AR1100650	6×50ml (Round bottom)	11000rpm	12276×g

Rotoh 1814

Rotor type	Order code	Rotor Capacity	Max Speed (r/min)	Max RCF(×g)
Angle rotor	AR1802402	24×1.5/2.0ml	18000rpm	31115×g
	AR1501205	12×5ml	15000rpm	18306×g
	AR1403202	32×1.5/2.0ml	14000rpm	19940×g
	AR1408802P	8×8×0.2ml PCR Rowl	14000rpm	19940×g
	AR1304802	48×1.5/2.0ml	13000rpm	18327×g
	AR1301210	12×10ml	13000rpm	15228×g
	AR1300650	6×50ml (Round bottom)	13000rpm	17146×g
	AR1200650	6×50ml(Conical/round bottom)	12000rpm	16227×g
	AR1101215	12×15ml(Conical bottom)	12000rpm	11227×g
	AR11004100	4×100ml	11000rpm	14298×g
Swing-out rotor	SR1302402	24×1.5/2.0ml	13000rpm	16816×g
	SR04504100	4×100ml	4500rpm	3010×g
	SR0402296	Micro-plate 2×2×96 hole	4000rpm	2057×g
	SR0400850	8×50ml(Conical bottom)	4000rpm	2680×g

Rotor parameters

Rotoh 2017

Rotor type	Order code	Capacity	Max Speed (r/min)	Max RCF($\times g$)
Angle rotor	AR2001602	16 $\times$ 1.5/2.0ml	20000rpm	30677 $\times g$
	AR1802402	24 $\times$ 1.5/2.0ml	18000rpm	31115 $\times g$
	AR1601205	12 $\times$ 5ml	16000rpm	17344 $\times g$
	AR1501210	12 $\times$ 10ml	15000rpm	20274 $\times g$
	AR1603202	32 $\times$ 1.5/2.0ml	16000rpm	26044 $\times g$
	AR1604802	48 $\times$ 1.5/2.0ml	16000rpm	27762 $\times g$
	AR1401215	12 $\times$ 15ml(Conical bottom)	14000rpm	22241 $\times g$
	AR1300650	6 $\times$ 50ml(Round bottom)	13000rpm	17146 $\times g$
	AR1250650	6 $\times$ 50ml (Conical/round bottom)	12500rpm	17608 $\times g$
	AR12004100	4 $\times$ 100ml	12000rpm	17016 $\times g$
	AR12006100	6 $\times$ 100ml	12000rpm	17548 $\times g$
	AR1000850	8 $\times$ 50ml (Conical/round bottom)	10000rpm	12611 $\times g$
	AR1506015	60 $\times$ 1.5ml	15000rpm	18826 $\times g$
Swing-out rotor	SR0554015	40 $\times$ 15m	5500rpm	5952 $\times g$
	SR05004100	4 $\times$ 100ml	5000rpm	3717 $\times g$
	SR05004250	4 $\times$ 250ml(Round bucket)	5000rpm	3717 $\times g$
		4 $\times$ 500ml(Oval bucket)	5000rpm	3717 $\times g$
		4 $\times$ 250ml(Square bucket)	5000rpm	3717 $\times g$
	SR0452296	Micro-plate 2x2x96 hole	4500rpm	2603 $\times g$

Rotor parameters

Rotoh 2117

Rotor type	Order code	Capacity	Max Speed (r/min)	Max RCF($\times g$)
Angle rotor	AR2101202	12 $\times$ 1.5/2.0ml	21000rpm	31061 $\times g$
	AR1801205	12 $\times$ 5ml	18000rpm	21951 $\times g$
	AR1852402	24 $\times$ 1.5/2.0ml	18500rpm	32868 $\times g$
	AR1501210	12 $\times$ 10ml	15000rpm	20274 $\times g$
	AR1504802	48 $\times$ 1.5/2.0ml	15000rpm	24400 $\times g$
	AR14004100	4 $\times$ 100ml	14000rpm	23161 $\times g$
	AR1401215	12 $\times$ 15ml(Conical bottom)	14000rpm	22241 $\times g$
	AR1400650	6 $\times$ 50ml(Round bottom)	14000rpm	19885 $\times g$
	AR1408802P	8 $\times$ 8 $\times$ 0.2mlPCR Row	14000rpm	15032 $\times g$
	AR1300650	6 $\times$ 50ml(Conical/round bottom)	13000rpm	19045 $\times g$
	AR1200850	8 $\times$ 50ml(Round bottom)	12000rpm	15615 $\times g$
	AR1100850	8 $\times$ 50ml(Conical/round bottom)	11000rpm	13493 $\times g$
	AR11006100	8 $\times$ 50ml(Conical/round bottom)	11000rpm	14745 $\times g$
Swing-out rotor	SR04204250	4 $\times$ 250ml(Round bottom)	4200rpm	3352 $\times g$
		4 $\times$ 250ml(Round bottom) /(with biosafety lid)	4200rpm	3352 $\times g$

Rotor type	Order code	Capacity	Max Speed (r/min)	Max RCF(×g)
Swing-out rotor	SR04204250	4×250ml(Square bucket)	4200rpm	3352×g
	SR04204250	4×500ml(Square bucket)	4200rpm	3510×g
		4×500ml(Square bucket)/ (with biosafety lid)	4200rpm	3510×g
		4×500ml(Square bucket)	4200rpm	3510×g
	SR04204750	4×750ml(Round bottom)	4200rpm	3648×g
		4×750ml(Round bottom)/ (with biosafety lid)	4200rpm	3648×g
		4×750ml(Square bucket)	4200rpm	3648×g
Swing-out rotor	SR0424296	Micro-plate 4×2×96 hole	4200rpm	3046×g
(Square basket)		Square basket include : Adapter 4×10×15ML /(Conical bottom) Adapter 4×4×50ML /(Conical bottom)	4200rpm	3046×g

High Speed Benchtop Refrigerated Centrifuge-Rotoh 166R



Product Features

- ◆ Up to 10 level deceleration and acceleration control with 40 sets program groups.
- ◆ With over speed, imbalance, door cover protection, over current, rotor fault etc protection .
- ◆ Microcomputer control with HD LCD display, driven by AC frequency conversion motor.
- ◆ Steel Structure, centrifuge chamber made of stainless steel with Environmentally friendly anti-corrosion coating treatment and low noise.
- ◆ Imported energy-efficient ECO friendly refrigeration system.

Technical Parameter

Model	Rotoh 166R		
Max Speed	16500rpm	Voltage	AC 220±22V 50Hz 10A or custom
Max RCF	21615×g	Power	550W
Max Capacity	12×5ml	Noise Level	≤ 60dB (A)
Timer	1s~99min59s	Size (mm)	460×335×330
Revolutions/min	±10r/min	Net Weight	48kg
Temp Range	-20℃~40℃	Rotor automatic recognition	Yes
Temp Accuracy	±1.0℃	/	/

Rotor parameters

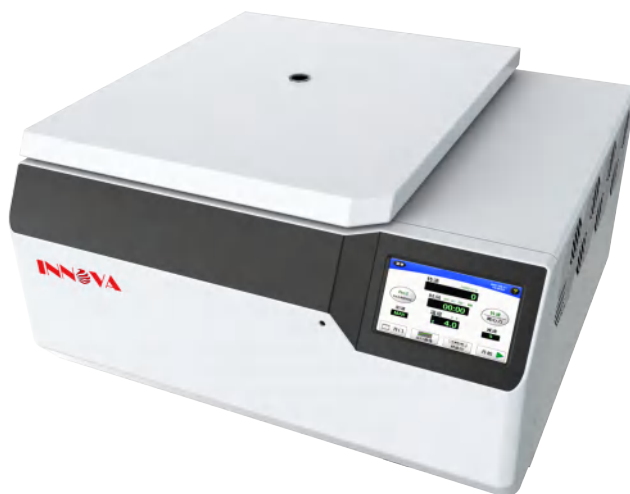
Rotor type	Order code	Capacity	Max Speed (r/min)	Max RCF (×g)
Angle rotor	AR1651602	16×1.5/2.0ml	16500rpm	20880×g
	AR1501205	12×5ml	15000rpm	18036×g
	AR1502402	24×1.5/2.0ml	15000rpm	21615×g
	AR1504802P	4×8×0.2mlPCR Row	15000rpm	14866×g
	AR1408802P	8×8×0.2mlPCR Row	14000rpm	15032×g
	AR12024H	Capillaryrotor 24 hol	12000rpm	13845×g

Production presentation

High Speed Benchtop Refrigerated Centrifuge-Rotoh 2114R

Product Features

- ◆ 7-inch HD touch screen, setting parameters and running parameters can be got at a glance.
- ◆ Input the value directly by tapping on the touch screen for parameter setting, which is fast and convenient.
- ◆ According to the time interval of the experiment, the sleep time of the instrument can be set (user-defined), which can ensure the good refrigeration effect as well as saving energy and increasing the service life of the instrument.
- ◆ Pre-cooling function is available. Pre-cooling parameters can be customized according to different rotors. And it can be scheduled in advance, so the experiment can be carried out once enter the laboratory to save time.
- ◆ 100 user-defined program groups can be set and named easily. That makes it more convenient to evoke and distinguish different experiment program in use, so as to realize the repeatability of the experiment.
- ◆ 11 acceleration and 12 deceleration rates, to achieve best centrifugal effect.
- ◆ The running records and diagnostic records are saved automatically, user can effectively check the operation of the instrument and the separation of each batch of samples.
- ◆ AC variable frequency motor, no carbon pollution, maintenance free, long service life and accurate speed control accuracy (less than 10rpm).



Technical Parameter



Model	Rotoh 2114R		
Max Speed	Angle rotor 21000r/min	Pre-cooling function	yes
	Swing rotor 4200r/min	Compressor unit	VF compressor unit (134a)
Max. RCF	Angle rotor 32752xg	Noise	≤65dB(A)
	Swing rotor 3860xg	Short spinning	yes
Max. capacity	Angle rotor 6x100ml	Rotor identification	yes
	Swing rotor 4x750ml	Power supply	AC220V±22V 50/60Hz
Speed accuracy	±10r/min	Power consumption	1.6kW
Time setting range	1s to 99min59s	Dimension (WxDxH)(mm)	590x740x850
Temperature setting range	-20℃ ~ 40℃	Packing dimension (WxDxH)(mm)	750x880x1200
Temperature accuracy	max. speed temperature controlled to 4℃, ±0.5℃	Weight	180kg

Rotor parameters

Order code	Rotor type	Max. speed (r/min)	Max. RCF(xg)	Capacity
AR2101202	Angle rotor	21000	30642	12x1.5/2.2ml
	Adaptor	21000	30642	0.2ml/0.5ml
AR1401215	Angle rotor	14000	21913	12x15ml (conical)
	Adaptor	14000	21913	5ml (conical)
AR1402010	Angle rotor	14000	21480	20x10ml
	Adaptor	14000	21480	1.5ml/5ml
AR1500630	Angle rotor	15000	23120	6x30ml
	Adaptor	15000	23120	5ml/10ml
AR1350650	Angle rotor	13500	19354	6x50ml
	Adaptor	13500	19354	1.5ml/5ml/10ml/15ml 20ml/25ml/30ml
AR1300650	Angle rotor	13000	17947	6x50ml 50ml round bottom adaptor as gift
	Adaptor	13000	17947	15ml (conical)
AR1651205	Angle rotor	16500	19166	12x5ml
	Adaptor	16500	19166	0.5ml/1.5ml
AR1603002	Angle rotor	16000	28918	30x1.5/2.2ml
	Adaptor	16000	28918	0.2ml/0.5ml
AR1504802	Angle rotor	15000	24663	48x1.5/2.2ml
	Adaptor	15000	24663	0.2ml/0.5ml
AR10006100	Angle rotor	10000	11960	6x100ml
	Adaptor	10000	11960	5ml/10ml/15ml (conical/round)/ 25ml/50ml (conical/round)
AR1852402	Angle rotor	18500	32752	24x1.5/2.2ml
	Adaptor	18500	32752	0.2ml/0.5ml
AR1100850	Angle rotor	11000	14100	8x50ml (conical) 50ml round bottom adaptor as gift
	Adaptor	11000	14100	1.5ml/5ml/10ml/15ml
				20ml/25ml/30ml
SR04204500	Swing rotor yoke	4200	3610	4x500ml
	Round bucket/ aerosol-tight round bucket	4200	3610	4x1x250ml
				4x2x100ml

Order code	Rotor type	Max. speed (r/min)	Max. RCF(xg)	Capacity
SR04204500	Round bucket /aerosol-tight round bucket	4200	3610	4x4x50ml (conical/round)
				4x7x20ml
				4x9x15ml (conical/round)
				4x11x15ml (conical)
				tube cap≤21.5mm
				4x14x10ml
				4x19x5/7ml vacuum blood collection tube
				4x36x1.5ml
	Rectangular b -ucket/ aerosol -tight rectang -ular bucket	4200	3610	4x1x250ml
				4x3x100ml
				4x6x50ml (conical/round)
				4x12x15ml (conical/round)
				4x20x10ml
				4x31x5/7ml vacuum blood collection tube
				4x56x1.5ml
SR0404296P	Microplate bucket	4000	3040	4x2x96 MTP
				4x1x96 DWP
				only for plastic microplate
SR0404296P	Swing rotor yoke	4200	3860	4x750ml
	Round bucket /aerosol-tight round bucket	4200	3860	4x1x500ml (conical)
				4x1x500ml (flat)
				4x1x250ml (conical)
				4x1x250ml (flat)
				4x4x100ml
				4x5x50ml (self-standing tube)
				4x7x50ml (conical)
				4x7x50ml
				4x10x20ml
				4x15x15ml (conical)
				4x19x10ml (self-standing tube)

Order code	Rotor type	Max. speed (r/min)	Max. RCF(xg)	Capacity
SR04204750	Round bucket /aerosol-tight round bucket	4200	3860	4x21x10ml
				4x27x5/7ml vacuum blood collection tube
				4x37x5ml (RIA tube)
				4x56x1.5ml
	Rectangular bucket	4200	3860	4x9x50ml (conical/round)
				4x38x5/7ml vacuum blood collection tube
				4x19x15ml (conical/round)
				4x30x10ml
	Microplate bucket	4200	3860	4x4x96 MTP
				4x2x96 DWP
				total height < 67mm
AR1200850	Angle rotor	12000	15615	8x50ml
	Adaptor	12000	15615	1.5ml/5ml/10ml/15ml /20ml/25ml/30ml
SR0204296	Swing rotor	2000	926	4xTLDA

High Speed Benchtop Refrigerated Centrifuge-Rotoh 168R/169R/1814R/2117R/253R



Product Features

Intelligent control system

- ◆ With five groups of optional programs and can store 99 program groups.
- ◆ Electric lid lock.
- ◆ Long press the start/short-time key to realize instantaneous centrifugation.
- ◆ Up to 10 level acceleration/ deceleration with Linear drive.

Excellent kernel performance

- ◆ HD large LCD display and the parameters can be revised during operation without shutdown.
- ◆ Microcomputer control ,AC frequency conversion brush-less motor with fast speed and stable operation.
- ◆ Two modes can be set: start timing/arrival revolution timing.
- ◆ ECO friendly refrigeration system with Special thermal insulation process.

Careful and safe

- ◆ With rotor automatic identification system .
- ◆ Over speed,over heat,unbalance etc protections .
- ◆ Steel Structure,centrifuge chamber made of stainless steel with Environmentally friendly anti-corrosion coating treatment.

Intimate detail design

- ◆ An intimate tool rack is provided for accompanying tools to guard the instrument at all times.
- ◆ The front of the fuselage is designed with an operation SOP guide map, which makes it easier and more standard for laboratory personnel to use the instrument.
- ◆ It is equipped with a rotor cover that can be quickly locked for easy use.
- ◆ Ergonomic, low opening height, close the centrifuge cover with one press.
- ◆ Special noise reduction system

Technical Parameter

Model	Rotoh 168R	Rotoh 169R	Rotoh 1814R	Rotoh 1417R	Rotoh 253R
Max Speed	16500rpm	16500rpm	18000rpm	21000rpm	25000rpm
Max RCF	26145×g	19175×g	31115×g	32868×g	50803×g
Max Capacity	6×50ml	4×100ml	4×100ml	4×750ml	6×100ml
Timer	1s～99h59min				
Revolutions/min	±10r/min				
Temp Range	-20℃～40℃				
Temp Accuracy	±1.0℃				
Voltage	AC 220±22V 50Hz 10A AC 220±22V 50Hz 15A AC 220±22V 50Hz 15A AC 220±22V 50Hz 15A or custom AC 220±22V 50Hz 15A or custom				
Power	800W			1500W	
Noise Level	≤ 60dB （A）				≤ 62dB （A）
Size (mm)	350×560×365	550×560×365	550×560×365	660×730×445	660×730×445
Net Weight	71kg			123kg	
Rotor automatic recognition	Yes				

Rotor parameters

Rotoh 168R

Rotor type	Order code	Capacity	Max Speed (r/min)	Max RCF(×g)
Angle rotor	AR1652402	24×1.5/2.0ml	16500rpm	26145×g
	AR1501205	12×5ml	15000rpm	15243×g
	AR1403202	32×1.5/2.0ml	14000rpm	19940×g
	AR1408802P	8×8×0.2ml PCR Row	14000rpm	15032×g
	AR1350630	6×30ml (Round bottom)	13500rpm	17482×g
	AR1301210	12×10ml	13000rpm	15228×g
	AR1304802	48×1.5/2.0ml	13000rpm	18327×g
	AR1100650	6×50ml (Round bottom)	11000rpm	12276×g

Rotoh 169R

Rotor type	Order code	Capacity	Max Speed (r/min)	Max RCF(×g)
Angle rotor	AR1651202	12×1.5/2.0ml	16500rpm	19175×g
	AR1501205	12×5ml	15000rpm	18306×g
	AR1402402	24×1.5/2.0ml	14000rpm	18823×g
	AR1408802P	8×8×0.2mlPCR Row	14000rpm	15032×g
	AR1301210	12×10ml	13000rpm	15228×g
	AR1200650	6×50ml(Round bottom)	12000rpm	14610×g
	AR1100650	6×50ml (Conical /round bottom)	11000rpm	13636×g
	AR1101215	12×15ml (Conical bottom)	11000rpm	13730×g
	AR10004100	4×100ml	10000rpm	11817×g

Rotoh 1814R

Rotor type	Order code	Rotor Capacity	Max Speed (r/min)	Max RCF(×g)
Angle rotor	AR1802402	24×1.5/2.0ml	18000rpm	31115×g
	AR1501205	12×5ml	15000rpm	18306×g
	AR1403202	32×1.5/2.0ml	14000rpm	19940×g
	AR1408802P	8×8×0.2ml PCR Row	14000rpm	15032×g
	AR1304802	48×1.5/2.0ml	13000rpm	18327×g
	AR1301210	12×10ml	13000rpm	15228×g
	AR1300650	6×50ml (Round bottom)	13000rpm	17146×g
	AR1200650	6×50ml (Conical /round bottom)	12000rpm	16227×g
	AR1101215	12×15ml (Conical bottom)	11000rpm	13730×g
	AR11004100	4×100ml	11000rpm	14298×g
Swing-out rotor	SR1302402	24×1.5/2.0ml	13000rpm	16816×g
	SR04504100	4×100ml	4500rpm	3010×g
	SR0402296	Micro-plate 2×2×96 hole	4000rpm	2057×g
	SR0400850	8×50ml (Conical bottom)	4000rpm	2680×g

Rotoh 253R

Rotor type	Order code	Capacity	Max Speed (r/min)	Max RCF(×g)
Angle rotor	AR2501202	12×1.5/2.0ml(Titanium alloy)	25000rpm	44720×g
	AR2302402	24×1.5/2.0ml	23000rpm	50803×g
	AR2001205	12×5ml	20000rpm	27100×g
	AR1901210	12×10ml	19000rpm	32529×g
	AR1904802	48×1.5/2.0ml	19000rpm	39149×g
	AR1650650	6×50ml(Round bottom)	16500rpm	27622×g
	AR1600850	8×50ml(Round bottom)	16000rpm	28549×g
	AR1500650	6×50ml (Conical/round bottom)	19000rpm	39149×g
	AR1401215	12×15ml(Conical bottom)	14000rpm	22241×g
	AR13506100	6×100ml	13500rpm	22209×g

Rotoh 1417R

Rotor type	Order code	Capacity	Max Speed (r/min)	Max RCF(×g)
Angle rotor	AR2101202	12×1.5/2.0ml	21000rpm	31061×g
	AR1801205	12×5ml	18000rpm	21951×g
	AR1852402	24×1.5/2.0ml	18500rpm	32868×g
	AR1501210	12×10ml	15000rpm	20274×g
	AR1504802	48×1.5/2.0ml	15000rpm	24400×g
	AR14004100	4×100ml	14000rpm	23161×g
	AR1401215	12×15ml(Conical bottom)	14000rpm	23161×g
	AR1400650	6×50ml(Round bottom)	14000rpm	23161×g
	AR1408802P	8×8×0.2mlPCR Row	14000rpm	15032×g
	AR1300650	6×50ml (Conical /round bottom)	13000rpm	19045×g
	AR1200850	8×50ml(Round type)	12000rpm	15615×g
	AR1100850	8×50ml (Conical/ round bottom)	11000rpm	13493×g
	AR11006100	6×100ml	11000rpm	14745×g
Swing-out rotor	SR04204250	4×250ml(Round bottom)	4200rpm	3352×g
		4×250ml (Round bottom)/ (with biosafety lid)	4200rpm	3352×g
		4×250ml(Square bucket)	4200rpm	3352×g
	SR04204500	4×500ml(Square bucket)	4200rpm	3510×g
		4×500ml (Square bucket)/ (with biosafety lid)	4200rpm	3510×g
		4×500ml(Square bucket)	4200rpm	3510×g
	SR04204750	4×750ml(Round bucket)	4200rpm	3648×g
		4×500ml(Square bucket)/ (with biosafety lid)	4200rpm	3648×g
		4×750ml(Square bucket)	4200rpm	3648×g
Swing-out rotor	SR0424296	Micro-plate4×2×96 hole	4200rpm	3046×g
Swing-out rotor (Square basket)		Square basket include: Adapter 4×10×15ML (Conical bottom) Adapter 4×4×50ml (Conical bottom)	4200rpm	3046×g

Low Speed Benchtop Centrifuge-Rotol 58/63/65/68



Model	Rotol 58	Rotol 63	Rotol 65	Rotol 68
Max Speed	5500rpm	6000rpm	6500rpm	6500rpm
Max RCF	5952×g	4338×g	5091×g	5952×g
Max Capacity	4×750ml	4×100ml	4×250ml	4×750ml
Timer	1s~99h59min			
Revolutions/min	±10r/min			
Voltage	AC 220±22V 50Hz 10A or custom			
Power	1000W	300W	550W	1000W
Noise Level	≤ 62dB (A)			
Size (mm)	580×465×395	500×360×330	545×330×365	580×465×395
Net Weight	61kg	31kg	68kg	41kg
Rotor automatic recognition	Yes			

Product Features

Intelligent control system

- ◆Five groups of programs with humanized design.
- ◆Program group shortcut key, can store 99 groups of program , convenient to call at any time.
- ◆Automatic electronic door lock.
- ◆With instantaneous and continuous centrifugation functions.

Intimate detail design

- ◆Special noise reduction system.
- ◆An intimate tool rack is provided for accompanying tools to guard the instrument at all times.
- ◆With an operation SOP guide map, which makes it easier and more standard for laboratory workers.
- ◆Equipped with rotor lid that can be quickly locked for easy use.

Excellent kernel performance

- ◆HD large LCD display and the parameters can be revised during operation without shutdown.
- ◆10 gears acceleration /deceleration with linear drive.
- ◆Two modes can be set: start timing/arrival revolution timing.

Careful and safe

- ◆With rotor automatic identification system .
- ◆1Over speed,over heat,unbalance protections with auto lid lock.
- ◆Steel Structure,centrifuge chamber made of stainless steel with Environmentally friendly anti-corrosion coating treatment.

Rotor parameters

Rotor 58

Rotor type	Order code	Capacity	Max Speed （r/min）	Max RCF(×g)
Angle rotor （W）	AR0554015	40×15ml	5500rpm	5952×g
Angle rotor （W）	AR0550650	6×50ml	5500rpm	3645×g
Swing-out rotor	SR04096B	96×2~7ml （Blood collection tube）	4000rpm	3184×g
		100×2~7ml （Blood collection tube）	4000rpm	3184×g
		120×2~7ml （Blood collection tube）	4000rpm	3184×g
Swing-out rotor	SR04004750	4×750ml (Round bucket)	4000rpm	3309×g
		4×750ml (Round bucket) / （with biosafety lid）	4000rpm	3309×g
		4×750ml (Square bucket)	4000rpm	3309×g
Swing-out rotor	SR04004500	4×500ml (Round bucket)	4000rpm	3184×g
		4×500ml (Round bucket) （with biosafetey lid）	4000rpm	3184×g
		4×500ml (Square bucket)	4000rpm	3184×g
		4×500ml Sharp bucket(Corning tube)	4000rpm	3184×g
Swing-out rotor	SR04004250	4×250ml (Round bucket)	4000rpm	3040×g
		4×250ml (Round bucket) /(with biosafety lid)	4000rpm	3040×g
		4×250ml (Square bucket)	4000rpm	3040×g
		4×250ml Sharp bucket （Corning tube）	4000rpm	3040×g
		6×250ml (Round bucket)	4000rpm	3040×g
Swing-out rotor	SR04004250	Swing-out rotor body 4×250ml		
Pipe rack		56×5ml （Blood collection）	4000rpm	3040×g
		16×50ml (Conical/round bucket)	4000rpm	3040×g
		36×15ml	4000rpm	3040×g
Swing-out rotor	SR0404296	Micro-plate 4×2×96 hole5ml	4000rpm	2763×g
Swing-out rotor Square basket	SR0404010	Square bucket include：Adapter 4×10×15ml(Conical bottom) Adapter 4×4×50ml (Conical bottom)	4000rpm	2763×g
Swing-out rotor	SR0402296	Micro-plate 2×2×96 hole	4000rpm	2057×g

Rotor parameters

Rotor 63

Rotor type	Order code	Rotor Capacity	Max Capacity (r/min)	Max RCF(xg)
Angle rotor	AR0601215	12×15ml	6000rpm	4226xg
	AR0600650	6×50ml	6000rpm	4338xg
Swing-out rotor	SR0420450	Swing-out rotor body shall be used with as below pipe rack		
Pipe rack		4×50ml	4200rpm	2760xg
		4×100ml	4200rpm	2760xg
		16×15ml	4200rpm	2760xg
		24×10ml	4200rpm	2760xg

Rotor 65

Rotor type	Order code	Capacity	Max Speed （r/min）	Max RCF(×g)
Angle rotor （W）	AR0650650	6×50ml	6500rpm	5091×g
	SR0504015	40×15ml	5000rpm	4919×g
Swing-out rotor	SR0420450	It shall be used together with pipe rack		
Pipe rack		4×50ml	4200rpm	3254×g
		4×100ml		
		8×50ml	4200rpm	3254×g
		8×100ml		
		16×10/15ml (Optional)		
		24×10/15ml (Optional)		
		32×10/15ml (Optional)		
		48×2~7ml (Blood collection tube)		
		64×5ml (Blood collection tube)		
		Swing-out rotor		
4×250ml(Round bottom)/ (with biosafety lid)	4200rpm		3352×g	
4×250ml (Oval cup))	4200rpm		3352×g	
Swing-out rotor	SR04204250	Swing-out rotor body 4×250ml		
Pipe rack		56×5ml Blood collection tube)	4200rpm	3352×g
		16×50ml(Conical /round bottom)	4200rpm	3352×g
		36×15ml	4200rpm	3352×g
Swing-out rotor	SR0422296	Micro-plate 2×2×96 hole	4200rpm	2267×g

Rotor parameters

Rotol 68

Rotor type	Order code	Capacity	Max Speed (r/min)	Max RCF(xg)
Angle rotor	AR0650650	6×50ml	6500rpm	5091×g
Angle rotor	AR0554015	40×15ml	5500rpm	5952×g
Swing-out rotor	SR04296B	96×2~7ml (Blood collection tube)	4200rpm	3510×g
		100×2~7ml (Blood collection tube)	4200rpm	3510×g
		120×2~7ml (Blood collection tube)	4200rpm	3510×g
Swing-out rotor	SR04204750	4×750ml (Round bottom)	4200rpm	3510×g
		4×750ml (Round bottom)/ (with biosafety lid)	4200rpm	3510×g
		4×750ml (Square cup)	4200rpm	3510×g
Swing-out rotor	SR04204500	4×500ml (Round bottom)	4200rpm	3510×g
		4×500ml (Round bottom) (with biosafety lid)	4200rpm	3510×g
		4×500ml (Square cup)	4200rpm	3510×g
		4×500ml (Conical bottom)	4200rpm	3510×g
Swing-out rotor	SR04204250	4×250ml (Round bottom)	4200rpm	3352×g
		4×250ml(Round bottom)/ (with biosafety lid)	4200rpm	3352×g
		4×250ml (Square cup)	4200rpm	3352×g
		4×250ml (Conical bottom)	4200rpm	3352×g
		6×250ml (Round bottom)	4200rpm	3352×g
Swing-out rotor	SR04204250	Swing-out rotor body 4×250ml		
Pipe rack		56×5ml (Blood collection tube)	4200rpm	3352×g
		16×50ml (Conical/round bottom)	4200rpm	3352×g
		36×15ml	4200rpm	3352×g
Swing-out rotor	SR0424296	Micro-plate 4×2×96 hole	4200rpm	3046×g
Swing-out rotor	SR0424015	Square basket include: Adapter 4×10×15ml (Conical bottom) Adapter 4×4×50ml (Conical bottom)	4200rpm	3046×g
Square basket				
Swing-out rotor	SR042229	Micro-plate 2×2×96 hole	4200rpm	2267×g

Low Speed Benchtop Centrifuge-Rotol 44



Technical Parameter

Model	Roto 44		
Max. speed	4000rpm	Noise	<62dB(A)
Max. RCF	1980xg	Power supply	AC220V±22V 50/60Hz 2A
Max. capacity	8 x 15ml/12x10ml	Total power	100W
Speed accuracy	±30rpm	Dimension (WxDxH)	265x305x250mm
Time setting range	1min to 99min	Package size (WxDxH)	322x452x268mm
Net weight	7kg	Rotor Option	8x15ml/12x10ml

Product Features

- ◆ Microprocessor control, DC brushless motor for stable and low noise operation.
- ◆ Parameters can be set freely during a run Up and Down key to set speed and time easily.
- ◆ Countdown time showed by seconds if the centrifugation time is less than 1 min.
- ◆ Self-diagnosis system can automatically detect the faults of overspeed and no speed signal, door lid interlock to improve the safety performance.
- ◆ Compact with great performance.
- ◆ Special damping structure to reduce vibration and noise.

Low Speed Benchtop Centrifuge-Rotol 53

Technical Parameter



Model	Roto 53		
Max. speed	5000rpm	Voltage	AC 220±22V 50/60Hz 10A
Max. RCF	3013×g	Power	150W
Max. capacity	6×50ml	Noise Level	≤ 62dB (A)
Timer	1s ~ 99min	Size (mm)	420×320×265
Revolutions/min	±10r/min	Net Weight	19kg

Rotor type	Order code	Rotor Capacity	Max Capacity(r/min)	Max RCF(×g)
Angle rotor	AR0501215	12×15ml	5000rpm	2934×g
	AR0500650	6×50ml	5000rpm	3013×g
Angle rotor	AR0401220	12×20ml	4000rpm	2250×g
	AR0402410	24×10ml	4000rpm	2200×g

Product Features

- ◆ Microcomputer control system with HD LCD display, driven by large torque variable frequency motor.
- ◆ Adopts a three-layer special anti-collision protection structure, with special noise reduction technology .
- ◆ Steel structure, centrifugal chamber made of stainless steel with environmental protection anti-corrosion coating, which is corrosion resistant and acid alkali resistant.
- ◆ Food grade silicone integrated seal ring, beautiful and durable, high temperature resistant, anti-aging, anti-corrosion, no deformation and cracking.
- ◆ Large capacity storage of 40 sets of program groups;
- ◆ Automatic calculation and display of speed, RCF, time etc.
- ◆ 10 gear acceleration /deceleration with linear drive.
- ◆ Over-speed, imbalance, door cover protection, over-current, rotor error etc protections .
- ◆ Adopted Ultra-high safety protection with low noise and higher safety.

Production presentation

Low Speed Benchtop Refrigerated Centrifuge-Rotol 54R



Product Features

- ◆ Environment-friendly compressor offers ideal cooling effect without pollution.
- ◆ Microprocessor control, DC brushless motor with high torque, and maintenance free.
- ◆ RCF value can be calculated and set automatically.
- ◆ Available with various racks, buckets and adapters for multiple purpose applications.
- ◆ Under programmable operation and multiple routine programs can be saved.
- ◆ Offering 9 acceleration profiles and 10 deceleration profiles to prevent the sample from secondary emulsion or turbid.
- ◆ Accommodating several safety protection on automatic rotor identification, imbalance and electronic door interlock for safe operation.

Technical Parameter

Model	Rotol 54R		
Max. speed	5300rpm	Compressor	environment-friendly refrigerant(R134a)
Max. RCF	5010xg	Noise	≤65dB (A)
Max. capacity	4x250ml	Power supply	AC220±22V 50/60Hz 10A
Speed accuracy	±30rpm	Power consumption	1200W
Time setting range	1min to 99min	Dimension (WxDxH)	470x730x380mm
Temp. setting range	-20℃ ~40℃	Package size (WxDxH)	547x960x422mm
Control accuracy	±1℃	Net weight	70kg

Rotor Parameter

Order code	Rotor type	Max. speed(rpm)	Max. RCF(xg)	Capacity
SR05304100	Swing rotor	5300	5010	4x100ml
	Bracket	5300	5010	4x100ml
	Adaptor	5300	5010	4x50ml (Round)
				4x50ml (Falcon)
				4x30ml
				4x20ml
				4x15ml (Round)
				4x15ml (Falcon)
				4x3x5ml vacuum tube
				4x2x10ml
				4x4 hematocrit tube
				4x3x1.5ml
SR04504200	Swing rotor	4500	3560	4x200ml
	Bracket 1	4500	3560	4x2x100ml
		4500	3560	4x2x50ml (Round)
				4x2x50ml (Falcon)
				4x2x30ml
				4x2x30ml
				4x2x20ml
				4x2x15ml (Round)
				4x2x15ml (Falcon)
				4x6x5ml vacuum tube
				4x4x10ml
				8x4 hematocrit tube
				8x3x1.5ml
	Bracket 2	4500	3560	4x8x15ml
	Adaptor	4500	3560	4x8x10ml
				4x8x7ml
				4x8x5ml
	Bracket 3	4500	3560	4x2x50ml
	Adaptor			adaptor can be customized
SR0402296	Microplate rotor	4000	2200	2x2x96 deep-well plat
				2x6x96 micro plate
				2x1x96 filter plate reagent
				kitadaptor canbe customized
SR04504250	Swing rotor	4500	4080	4x250ml (Round bucket)
	Adaptor	4500	4080	4x1x100ml
				4x1x50ml (Round/falcon)
				4x4x20ml
				4x4x15ml
				4x6x15ml
				4x7x10ml
				4x10x5ml
				4x8x1.5ml
				adaptor can be customized
	Swing rotor	4500	4080	4x250ml (Rectangular bucket)
	Adaptor	4500	4080	4x1x250ml
				4x4x50ml (Falcon)
				4x7x15ml (Falcon)
				4x9x10ml
				4x9x5ml
				4x15x1.5ml

Low Speed Benchtop Refrigerated

Technical Parameter



Model	Rotol 55R	Rotol 65R	Rotol 58R	Rotol 68R
Max Speed	5500rpm	6500rpm	5500rpm	6500rpm
Max RCF	4919×g	5091×g	5952×g	5952×g
Max Capacity	4×250ml	4×250ml	4×750ml	4×750ml
Timer	1s～99h59min			
Revolutions/min	±10r/min			
Temp Range	-20℃～40℃			
Temp Accuracy	±1.0℃			
Voltage	AC 220±22V 50Hz 10A			
Power	1000W		1500W	
Noise Level	≤60dB（A）			
Size (mm)	595×660×365	595×660×365	660×730×445	660×730×445
Net Weight	89kg		123kg	
Rotor automatic recognition	Yes			

Product Features

Intelligent control system

- ◆ With five groups of optional programs and can store 99 program groups ;
- ◆ Electric lid lock;
- ◆ Long press the start/short-time key to realize instantaneous centrifugation.
- ◆ Up to 10 level acceleration/deceleration with Linear drive.

Intimate detail design

- ◆ An intimate tool rack is provided for accompanying tools to guard the instrument at all times.
- ◆ It is equipped with a rotor cover that can be quickly locked for easy use.
- ◆ Ergonomic, low opening height, close the centrifuge cover with one press.
- ◆ Special noise reduction system ;

Excellent kernel performance

- ◆ HD large LCD display and the parameters can be revised during operation without shutdown.
- ◆ Microcomputer control ,AC frequency conversion brush-less motor with fast speed and stable operation.
- ◆ ECO friendly refrigeration system with Special thermal insulation process.
- ◆ Two modes can be set: start timing/arrival revolution timing.

Careful and safe

- ◆ With rotor automatic identification system .
- ◆ Over speed,over heat,unbalance etc protections .
- ◆ Steel Structure,centrifuge chamber made of stainless steel with Environmentally friendly anticorrosion coating treatment.

Rotor parameters

Rotol 55R

Rotor type	Order code	Capacity	Max Speed(r/min)	Max RCF(×g)
Angle rotor	AR0550650	6×50ml	5500rpm	3645×g
	AR0504015	40×15ml	5000rpm	4919×g
Swing-out rotor	SR0400450	It shall be used together with pipe rack		
Pipe rack		40×50ml	4000rpm	2951×g
		40×100ml		
		8×50ml	4000rpm	2951×g
		8×100ml		
		16×10/15ml (Optional)		
		24×10/15ml (Optional)		
		32×10/15ml (Optional)		
		48×2~7ml (Blood collection tube)		
		64×5ml (Blood collection tube)		
Swing-out rotor	SR04004250	4×250ml (Round bottom)	4000rpm	3040×g
		4×250ml (Round bottom) (with biosafety lid)	4000rpm	3040×g
		4×250ml (Oval cup)	4000rpm	3040×g
Swing-out rotor	SR04004250	Swing-out rotor body 4×250ml		
Pipe rack		56×5ml (Blood collection tube)	4000rpm	3040×g
		16×50ml (Conical/round bottom)	4000rpm	3040×g
		36×15ml	4000rpm	3040×g
Swing-out rotor	SR0402296	Micro-plate 2×2×96 hole	4000rpm	2057×g

Rotor parameters

Rotor 65R

Rotor type	Order code	Capacity	Max Speed(r/min)	Max RCF(×g)
Angle rotor (W)	AR0650650	6×50ml	6500rpm	5091×g
	AR0504015	40×15ml	5000rpm	4919×g
Swing-out rotor	SR0420450	It shall be used together with pipe rack		
Pipe rack		40×50ml	4200rpm	3254×g
		40×100ml		
		8×50ml	4200rpm	3254×g
		8×100ml		
		16×10/15ml (Optional)		
		24×10/15ml (Optional)		
		32×10/15ml (Optional)		
		48×2~7ml (Blood collection tube)		
		64×5ml (Blood collection tube)		
Swing-out rotor	SR04204250	4×250ml (Round cup)	4200rpm	3352×g
		4×250ml (Round cup) (with biosafety lid)	4200rpm	3352×g
		4×250ml (Oval cup)	4200rpm	3352×g
Swing-out rotor	SR04204250	Swing-out rotor body 4×250ml		
Pipe rack		56×5ml (Blood collection tube)	4200rpm	3352×g
		16×50ml (Conical/round bottom)	4200rpm	3352×g
		36×15ml	4200rpm	3352×g
Swing-out rotor	SR0422296	Micro-plate 2×2×96 hole	4200rpm	2267×g

Rotor parameters

RotoI 58R

Rotor type	Order code	Capacity	Max Speed (r/min)	Max RCF(×g)
Angle rotor (W)	AR0554015	40×15ml	5500rpm	5952×g
Angle rotor (W)	AR0550650	6×50ml	5500rpm	3645×g
Swing-out rotor	SR04096B	96×2~7ml Blood collection tube	4000rpm	3184×g
		100×2~7ml (Blood collection tube)	4000rpm	3184×g
		120×2~7ml (Blood collection tube)	4000rpm	3184×g
Swing-out rotor	SR04004750	4×750ml (Round bucket)	4000rpm	3309×g
		4×750ml (Round bucket) (with biosafety lid)	4000rpm	3309×g
		4×750ml (Square bucket)	4000rpm	3309×g
Swing-out rotor	SR04004500	4×500ml (Round bucket)	4000rpm	3184×g
		4×500ml (Round bucket) (with biosafety lid)	4000rpm	3184×g
		4×500ml (Square cup)	4000rpm	3184×g
		4×500ml (Conical bucket)	4000rpm	3184×g
Swing-out rotor	SR04004250	4×250ml (Round bucket)	4000rpm	3040×g
		4×250ml(Round bucket) (with biosafety lid)	4000rpm	3040×g
		4×250ml (Square cup)	4000rpm	3040×g
		4×250ml (Conical bottom)	4000rpm	3040×g
		6×250ml (Round bucket)	4000rpm	3040×g
Swing-out rotor	SR04004250	Swing-out rotor body 4×250ml		
Pipe rack		56×5ml (Blood collection tube)	4000rpm	3040×g
		16×50ml (Conical/round bottom)	4000rpm	3040×g
		36×15ml	4000rpm	3040×g
Swing-out rotor	SR0404296	Micro-plate 4×2×96 hole	4000rpm	2763×g
Swing-out rotor Square basket		Square basket include : Adapter 4×10×15ml (Conical bottom) Adapter 4×4×50ml (Conical bottom)	4000rpm	2763×g
		Micro-plate basket 4×2×96	4000rpm	2763×g
Swing-out rotor	SR0402296	Micro-plate 2×2×96 hole	4000rpm	2057×g

Rotor parameters

Rotor 68R

Rotor type	Order code	Capacity	Max Speed (r/min)	Max RCF(×g)
Angle rotor	AR0650650	6×50ml	6500rpm	5091×g
Angle rotor	AR0554015	40×15ml	5500rpm	5952×g
Swing-out rotor	SR04296B	96×2~7ml Blood collection tube	4200rpm	3510×g
		100×2~7ml (Blood collection tube)	4200rpm	3510×g
		120×2~7ml (Blood collection tube)	4200rpm	3510×g
Swing-out rotor	SR04204750	4×750ml (Round bucket)	4200rpm	3648×g
		4×750ml (Round basket) (with biosafety lid)	4200rpm	3648×g
		4×750ml (Square bucket)	4200rpm	3648×g
Swing-out rotor	SR04204500	4×500ml (Round bucket)	4200rpm	3510×g
		4×500ml (Round bucket) (with biosafety lid)	4200rpm	3510×g
		4×500ml (Square bucket)	4200rpm	3510×g
		4×500ml (Conical bottom)	4200rpm	3510×g
Swing-out rotor	SR04204250	4×250ml (Round bucket)	4200rpm	3352×g
		4×250ml (Round bucket) (with biosafety lid)	4200rpm	3352×g
		4×250ml (Square bucket)	4200rpm	3352×g
		4×250ml (Conical bucket)	4200rpm	3352×g
		6×250ml (Round bucket)	4200rpm	3352×g
Swing-out rotor	SR04204250	Swing-out rotor body 4×250ml		
Pipe rack		56×5ml (Blood collection tube)	4200rpm	3352×g
		16×50ml (Conical/round bottom)	4200rpm	3352×g
		36×15ml	4200rpm	3352×g
Swing-out rotor	SR0424296	Micro-plate 4×2×96 hole	4200rpm	3046×g
Swing-out rotor Square basket		Square basket include : Adapter 4×10×15ml (Conical bottom) Adapter 4×4×50ml (Conical bottom)	4200rpm	3046×g
		Micro-plate 4×2×96 hole	4200rpm	3046×g
Swing-out rotor	SR0422296	Micro-plate 2×2×96 hole	4200rpm	2267×g

Hematocrit Centrifuge



Rotor parameters

Order code	Rotor type	Max. speed(rpm)	Max. RCF(xg)	Capacity
H12012	Hematocrit rotor	12000	14800	12 capillary rotor
H12024	Hematocrit rotor	12000	14800	24 capillary rotor
H12036	Hematocrit rotor	12000	14800	36 capillary rotor

Technical Parameter

Model	SCAP12
Max. speed	12000rpm
Max. RCF	14800xg
Max. capacity	36 capillaries
Speed accuracy	±30rpm
Time setting range	1min to 99min
Noise	<62dB(A)
Power supply	AC220±22V 50/60Hz 5A
Power consumption	300W
Dimensions (WxDxH)(mm)	320x370x235
Package size (WxDxH)(mm)	530x410x290
Net weight	11kg

Product Features

- ◆ Microprocessor control, DC brushless motor for stable and low noise operation.
- ◆ During a run, parameters can be set freely without shutdown.
- ◆ Automatic calculation of RCF value, and special RCF key for RCF value checking at any time.
- ◆ Countdown time showed by seconds if the centrifugation time is less than 1 min.
- ◆ Self-diagnosis system can automatically detect the faults of overspeed and no speed signal, door lid interlock to improve the safety performance.

CYTO Centrifuge / Cell Smear Centrifuge



Rotor parameters

Order code	Rotor type	Max. speed(rpm)	Max. RCF(xg)	Capacity
C02006	Swing bucket cyto rotor	2000	545	6-place
C03006	Cyto rotor	3000	730	6-place
C03012	Cyto rotor	3000	890	12-place

Technical Parameter

Model	SCE3
Order No.	205198000
Max. speed	3000r/min
Max. RCF	890xg
Funnel capacity	0.1ml-0.5ml
Max. capacity	12-place
Speed accuracy	±30r/min
Time setting range	1min to 99min
Noise	≤60dB(A)
Power supply	AC220V±22V 50/60Hz
Power consumption	260W
Product dimension (WxDxH)(mm)	380x500x300
Packing dimension (WxDxH)(mm)	465x660x350
Net weight	19kg

Product Features

- ◆ Microprocessor control and DC brushless motor.
- ◆ Touch panel and LCD display. RCF can be calculated automatically.
- ◆ Save up to 25 user-defined programs. Featuring a separate short spin key for quick centrifugation.
- ◆ Special damping structure to reduce vibration.
- ◆ Centrifuge lid with soft-touch lid closure. Centrifuge cannot work if the door is open and the door cannot be opened when it is working.
- ◆ Several smear rotors available, it can smear various fluids to achieve the best centrifugation result.

Serofuge / Cell Washing Centrifuge



Rotor parameters

Rotor type	Order code	RCF(xg)	Time	Capacity
HLA	HLA20	2000xg	180s	Lymphocyte separation and cultured cell separation
	HLA101	1000xg	3s	Platelet removal(thrombin processing)
	HLA102	1000xg	60s	Lymphocyte washing
SERO	SER05	500xg	60s	Blood type determination and observation of hemagglutination reaction
	SER101	1000xg	15s	Cross matching and antiserum globulin testing
	SER102	1000xg	60s	Hematocyte washing

Technical Parameter

Model	SIB4
Max. speed	4500r/min
Max. RCF	2000xg
Max. capacity	36 (0.25 ~ 1ml)x12
Speed accuracy	±30r/min
Time setting range	1min to 99min
Noise	≤60dB(A)
Power supply	AC220V±22V 50/60Hz
Power consumption	100W
Dimensions (WxDxH)(mm)	456x330x266
Package size (WxDxH)(mm)	568x423x300
Net weight	12kg

Product Features

- ◆ Microprocessor control, DC brush-less motor.
- ◆ Touch panel and LCD display.
- ◆ Special damping structure to reduce vibration.
- ◆ Integrated molding of housing.
- ◆ Electronic door lock, centrifuge cannot work if the door is open and the door cannot be opened when it is working.
- ◆ Countdown time displayed by seconds if the centrifugation time is less than 1 min.

Blood ID Centrifuge



Rotor parameters

Order code	Rotor type	Max. speed(rpm)	Max. RCF(xg)	Capacity
GCR0224	Gel Card Rotor	2000	1790	24

Technical Parameter

Model	SBL4
Max. speed	2000r/min
Max. RCF	1790xg
Numbers of micro-column gel card (6 columns)	24
Speed accuracy	±30r/min
Time setting range	1 to 99min
Noise	≤60dB(A)
Power supply	AC220V±22V 50/60HZ
Power consumption	260W
Product dimension (WxDxH)(mm)	380x500x300
Packing dimension (WxDxH)(mm)	465x660x350
Net weight	19kg

Product Features

- ◆ Microprocessor control and DC brushless motor.
- ◆ Touch panel and LCD display. RCF can be calculated automatically.
- ◆ Save up to 25 user-defined programs. Featuring a separate short spin key for quick centrifugation.
- ◆ Special damping structure to reduce vibration.
- ◆ Centrifuge lid with soft-touch lid closure. Centrifuge cannot work if the door is open and the door cannot be opened when it is working.
- ◆ Several smear rotors available, it can smear various fluids to achieve the best centrifugation result.

Petroleum Centrifuge



Rotor parameters

Order code	Rotor type	Max. speed(rpm)	Max. RCF(xg)	Capacity
SR0403610	Swing rotor	4000	3150	36x10ml
SR01704100	Swing rotor	1700	691	4x100ml

Technical Parameter

Model	SPetro4
Max. speed	4000rpm
Max. RCF	3150xg
Max. capacity	4x100ml
Speed accuracy	±10rpm
Time setting range	1 to 99min
Temp. setting range	room temperature +10℃ ~ 70℃
Noise	≤65dB(A)
Power supply	AC220±22V 50/60Hz 10A
Power consumption	500W
Product dimension (WxDxH)(mm)	520x550x400
Packing dimension (WxDxH)(mm)	772x772x582
Net weight	85kg

Product Features

- ◆ LCD display to show rotor No., speed, time, temperature, RCF, Acc/Dec profile and trouble information /error code.
- ◆ TCircularheater for fast heating and temperature uniformity realizes the functions of temperature controlling and temperature holding, which meet the temperature requirements for oil industry.
- ◆ Frequency-conversion motor with high torque is characterized by stable and fast acceleration/deceleration as well as long service life, maintenance free, and low noise for stable operation.
- ◆ Self-diagnosis system can automatically detect the faults of overspeed, overtemp and display the error code on the display screen to improve the safety performance.
- ◆ Simple operation: Microprocessor control and touch panel. Speed, RCF, temperature, time and Acc/Dec profiles can be set freely. The parameters can be revised during a run for convenient use.

Microplate Centrifuge



Technical parameters

Model	SENZ3	Misoperation/alarm failure	Sound prompt+display code
Input power	DC24V/2.75A	Sample loading method	Place vertically downward
Input power	55W	Weight	3.9kg
Motor/drive mode	DC24V DC brushless variable frequency motor	Noise	60dB (A)
Display mode	Highlight LCD	Fastest acceleration time	≤6s
Effective centrifuge time	1-99min.1-59sec	Fastest acceleration time	≤5s
Speed	300~3000±15rpm	Size(L×W×H)(mm)	225×255×215
Speed step increase	10rpm	Allowable ambient temperature /relative temperature	+5-40℃ /80%
Max Capacity	2*96hole PCR plate/enzyme label plate	Degree of protection	IP20
Max RCF	608×g	Interference suppression standard	EN 61010-1,EN 61010-2-020, EN 61326-1,EN 61010-3-2/A2

Product Features

The instantaneous centrifugation function rises to the maximum speed for about 6 seconds, which can quickly leave the liquid droplets hanging on the wall.

Faster acceleration and deceleration rate to complete the experiment in a shorter time.

The door cover protection, over-speed and imbalance detection system can monitor the centrifuge process in real time to ensure the safe operation of the instrument.

TWhen the operation is over, error or imbalance occurs, the sound signal prompts, and the operation stops at the same time, and the LCD displays the result code.

Rotor picture					
NO	Picture	Capacity	NO	Picture	Capacity
1		4×8×0.2ml	17		16×50ml
2		2×2×96ml	18		24×1.5ml
3		4×50ml	19		28×50ml
4		4×100ml	20		32×15ml
5		4×250ml	21		36×1ml
6		4×50ml	22		36×15ml
7		6×50ml	23		72 Collection Vessels (2-7ml)
8		6×50ml	24		120 Collection Vessels (2-7ml)
9		8×8×0.2ml	25		12×15ml
10		8×50ml	26		6×50ml

Rotor picture					
NO	Picture	Capacity	NO	Picture	Capacity
11		8×50ml dischorizontal rotor	27		Square basket
12		12×15ml	28		Bowl angular rotor 6×50ml
13		12×1ml	29		Cast steel rotor 4×100ml
14		12×10ml	30		Cast steel rotor 8×50ml
15		12×15ml Round bottom	31		Cast steel rotor 8×100ml
16		16×1.5ml	32		Cast steel rotor 16×10ml
33		Cast steel rotor 24×10ml			

Our centrifuge - Your good assistant

INNOVA offer 8-bit microcentrifuges to compact and super versatile benchtop centrifuges to high speed floor and super centrifuges, providing a comprehensive solution for all separation applications in fields of molecular biology, biochemistry, cell biology and materials science.

Microcentrifuges & Vacuum Concentrator System



- Max. speed: 7000r/min
- Max. RCF: 2680×g
- Max. capacity: 8×2ml



- Max. speed: 15000r/min
- Max. RCF: 15100×g
- Max. capacity: 12×2ml



- Max. speed: 2000r/min
- Max. capacity: 6×50ml

Floorstanding Centrifuge



- Max. speed: 21000r/min
- Max. RCF: 47400×g
- Max. capacity: 4×750ml
- Refrigerated



- Max. speed: 5000r/min
- Max. RCF: 4640×g
- Max. capacity: 6×500ml
- Refrigerated



- Max. speed: 9000r/min
- Max. RCF: 18610×g
- Max. capacity: 6×1000ml
- Refrigerated



Qingdao Innova Bio-Meditech Co., Ltd.

Add. : No. 176 Jufeng Road, 266199, Qingdao, China

Tel. : +86 532 8789 0634

Email: info@innobiomed.com

web: www.innovabiomed.com