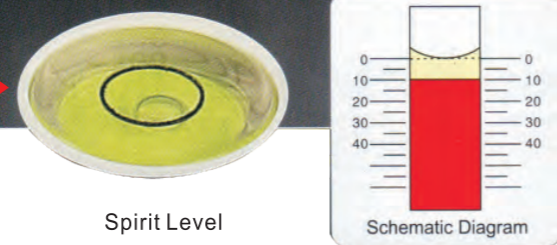


# MF55010 ESR FAST DETECTOR



### Main Features:

1. Better compatibility compared with Westergren method.
2. A safe, reliable and airtight operation during the whole process from blood collection to test, free of biological contamination.
3. Designed with spirit level of patent technology, which ensure the detector horizontal and aclinic.
4. 10 channels, synchronous operation allowed.
5. Only 30 minutes needed for reading, easy and fast.
6. Stainless steel soleplate silicagel cushion on, which will avoid any noise or breakage when the ESR tube being placed.

### How to Use:

1. Carry out the venous blood collection according to standard requirements with 8 x 120mm ESR vacuum tube.
2. Immediately invert the tube at 180 degrees for 6 - 8times to achieve thorough mixing, which will avoid hemolysis, clotting or blood bubble.
3. At the room temperature of around 20 °C. vertically place the ESR tube containing blood sample onto the detector, note down the starting time and relevant numbers. Keep the detector still for 30 minutes and then read the millimeter of erythrocyte sedimentation.
4. Detailed reading method: Keep it stable for 30min, align the plasma concave in ESR tubes to the zero scare of the detector. Then, read the data by aligning the upper surface of erythrocyte to the scale on the detector. (See as the schematic diagram)

### Notice:

1. Before operation, the EST fast detector should be put on a steady platform and adjustable to be horizontal with knobs below the soleplate.
2. The ESR tubes should be kept vertical during the whole sedimentation process, angle of inclination should not be more than 3 °C. Or else, the testing result will be of large deviation.
3. Keep the room temperature at 20±5°C, sedimentation time 30±2min.



MF560230



MF570010

## ESR TEST TUBE

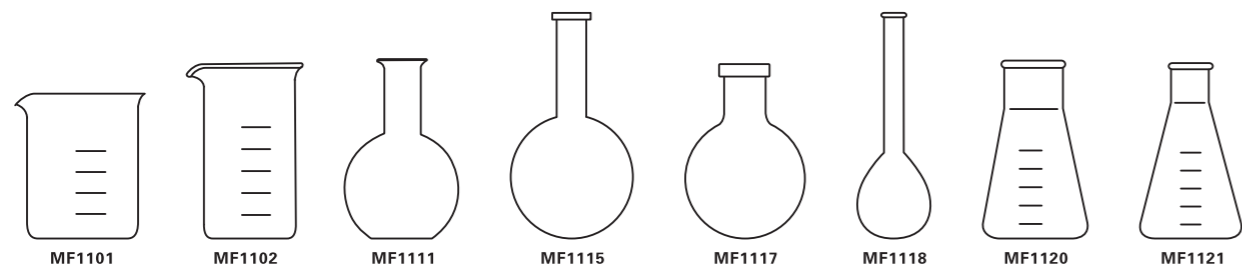
MF560230 SPEC.: 230mm

## ESR RACK

MF570010 SPEC.: 10-position







MF1101	Beaker, Low Form, with spout, with printed graduations	MF1102	Beaker, tall form, with spout, with printed graduations
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Code	Capacity(ml)	O.D.(mm)	Height(mm)	Code	Capacity(ml)	O.D.(mm)	Height(mm)
MF11010050	50	42	60	MF11020050	50	40	67
MF11010100	100	51	70	MF11020100	100	45	88
MF11010150	150	60	80	MF11020150	150	53	100
MF11010200	200	65	88	MF11020250	250	60	122
MF11010250	250	70	95	MF11020400	400	70	138
MF11010300	300	75	102	MF11020600	600	80	165
MF11010400	400	80	110	MF11020800	800	90	178
MF11010500	500	87	118	MF11021000	1000	100	195
MF11010600	600	90	125	MF11022000	2000	120	240
MF11010800	800	100	135	MF11023000	3000	135	280
MF11011000	1000	106	145				
MF11012000	2000	132	185				
MF11013000	3000	150	210				

MF1111	Boiling Flask, flat bottom, long narrow neck	MF1115	Boiling Flask, round bottom, long neck
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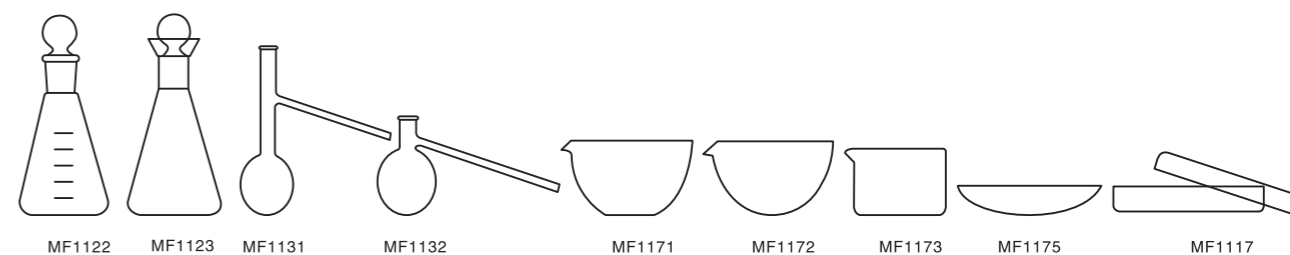
Code	Capacity (ml)	O.D. of neck (mm)	O.D. of Bulb (mm)	Height (mm)	Code	Capacity (ml)	O.D. of neck (mm)	O.D. of Bulb (mm)	Height (mm)
MF11110050	50	20	53	100	MF11150050	50	20	53	100
MF11110100	100	21	65	120	MF11150100	100	21	65	120
MF11110150	150	22	76	140	MF11150150	150	22	76	145
MF11110200	200	23	83	150	MF11150200	200	23	83	155
MF11110250	250	25	88	160	MF11150250	250	25	88	165
MF11110300	300	26	92	170	MF11150300	300	26	92	180
MF11110500	500	30	110	200	MF11150500	500	30	110	210
MF11111000	1000	35	140	250	MF11151000	1000	35	140	260
MF11112000	2000	50	166	250	MF11152000	2000	46	175	305
MF11113000	3000	50	185	295	MF11153000	3000	50	199	380
MF11115000	5000	50	223	330	MF11155000	5000	55	235	415

MF1117	Boiling Flask, Round bottom, short neck	MF1118	Nitrogen Flask, Round bottom, long neck
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Code	Capacity (ml)	O.D. of neck (mm)	O.D. of Bulb (mm)	Height (mm)	Code	Capacity (ml)	O.D. of neck (mm)	O.D. of Bulb (mm)	Height (mm)
MF11170250	250	30	86	120	MF11180050	50	22	51	200
MF11170500	500	40	110	160	MF11180100	100	22	60	200
MF11171000	1000	45	140	200	MF11180250	250	34	81	270
MF11172000	2000	50	175	250	MF11180500	500	34	101	300
					MF11181000	1000	34	126	350

MF1120	Boiling Flask, conical, wide neck, with graduations	MF1121	Conical Flask, erlenmeyer, with graduations
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Code	Capacity (ml)	O.D. of neck (mm)	O.D. of Bulb (mm)	Height (mm)	Code	Capacity (ml)	O.D. of neck (mm)	O.D. of Bulb (mm)	Height (mm)
MF11200050	50	34	51	85	MF11210050	50	22	51	85
MF11200100	100	34	64	105	MF11210100	100	22	64	105
MF11200200	200	50	79	131	MF11210150	150	28	71	120
MF11200250	250	50	85	140	MF11210200	200	34	77	132
MF11200300	300	50	87	156	MF11210250	250	34	87	140
MF11200500	500	50	105	175	MF11210300	300	34	89	153
MF11201000	1000	50	131	220	MF11210500	500	34	105	175
MF11202000	2000	72	153	275	MF11211000	1000	42	131	220
					MF11212000	2000	50	166	280



MF1122	Conical Flask, with ground-in glass stopper	MF1123	Iodine Flask, wide apout, with standard stopper
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Code	Capacity (ml)	O.D. of Bulb (mm)	Height (mm)	Code	Capacity (ml)	O.D. of Bulb (mm)	Height (mm)
MF11220050	50	50	90	MF11230050	50	50	110
MF11220100	100	60	108	MF11230100	100	60	114
MF11220250	250	83	140	MF11230250	250	83	155
MF11220500	500	98	185	MF11230500	500	98	200
MF11221000	1000	130	230				

MF1131	Distilling Flask, with side tube	MF1132	Distilling Flask, church
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Code	Capacity (ml)	O.D. of neck (mm)	O.D. of Bulb (mm)	O.D. of side tube (mm)	Height (mm)	Code	Capacity (ml)	O.D. of neck (mm)	O.D. of Bulb (mm)	Height (mm)
MF11310125	125	23	70	7.5	190					
MF11310250	250	25	88	8	220					
MF11310500	500	30	100	9	270	MF11320300	300	22	86	131
MF11311000	1000	35	140	10	350	MF11320500	500	24	102	135
MF11312000	2000	46	175	12	410					

MF1171	Evaporating Dish, flat bottom, with spout	MF1172	Evaporating Dish, Round bottom, with spout
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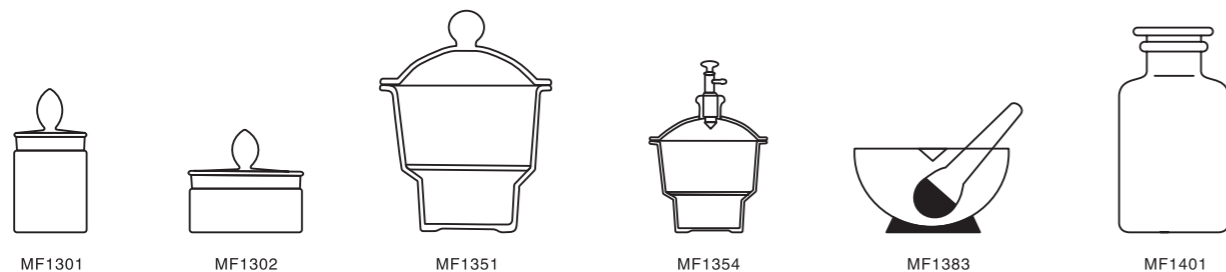
Code	O.D. of Top (mm)	Height (mm)	Code	O.D. of Top (mm)	Height (mm)
MF11710060	60	30	MF11720060	60	30
MF11710090	90	45	MF11720090	90	45
MF11710120	120	60	MF11720120	120	60
MF11710150	150	75	MF11720150	150	75

MF1173	Crystallizing Dish, with spout	MF1177	Petri culture dish
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Code	O.D. (mm)	Height (mm)	Code	Cover Dia. (mm)	Bottom Dia. (mm)	Height (mm)
MF11730060	60	40	MF11770060	65	60	15
MF11730090	90	45	MF11770075	82	75	15
MF11730100	100	50	MF11770090	98	90	18
MF11730125	125	63	MF11770100	107	100	20
MF11730150	150	75	MF11770120	130	120	25
MF11730180	180	90	MF11770150	160	150	30

MF1175	Watch glass
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Code	MF11750045	MF11750060	MF11750070	MF11750080	MF11750090	MF11750100	MF11750120	MF11750150	MF11750180
Diameter (mm)	45	60	70	80	90	100	120	150	180



MF1301 Weighing Bottle, tall form			MF1302 Weight bottle, low form		
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Code	O.D. (mm)	Height (mm)	Code	O.D. (mm)	Height (mm)
MF13012525	25	25	MF13042025	40	25
MF13012540	25	40	MF13025030	50	30
MF13013050	30	50	MF13026030	60	30
MF13013060	30	60	MF13027035	70	35
MF13013570	35	70			
MF13014070	40	70			

MF1351 Desiccator, clear, with porcelain plate				MF1354 Vacuum desiccator, clear, with ground-in stopcock and porcelain plate			
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Code	I.D. (mm)	Height of plate (mm)	Total Height (mm)	Code	I.D. (mm)	Height of plate (mm)	Total Height (mm)
MF13510100	100	60	165	MF13540150	150	90	220
MF13510150	150	90	220	MF13540180	180	100	280
MF13510180	180	100	280	MF13540210	210	110	320
MF13510210	210	110	320	MF13540240	240	120	360
MF13510240	240	120	360	MF13540300	300	140	450
MF13510300	300	140	450				

MF1383 Mortar, with glass pestle			MF1401 Reagent bottle, clear, narrow mouth, with ground-in glass stopper				
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Code	I. D. (mm)	Height (mm)	Code	Capacity (ml)	Dia. of bottle (mm)	Dia. of mouth (mm)	Height (mm)
MF13830060	60	40	MF14010030	30	40	18	76
MF13830075	75	40	MF14010060	60	45	22	85
MF13830090	90	50	MF14010125	125	57	24	110
MF13830120	120	60	MF14010250	250	70	27	135
MF13830150	150	85	MF14010500	500	85	33	172
MF13830180	180	96	MF14011000	1000	106	38	202
			MF14012500	2500	145	48	270
			MF14015000	5000	185	58	338
			MF14011001	10000	225	68	430
			MF14012001	20000	265	82	520



MF1402 Reagent bottle, amber, narrow mouth, with ground-in glass stopper					MF1403 Reagent bottle, clear, wide mouth, with ground-in glass stopper				
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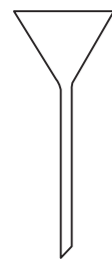
Code	Capacity (ml)	Dia. of bottle (mm)	Dia. of mouth (mm)	Height (mm)	Code	Capacity (ml)	Dia. of bottle (mm)	Dia. of mouth (mm)	Height (mm)
MF14020030	30	40	18	76	MF14030030	30	40	25	72
MF14020060	60	46	22	85	MF14030060	60	46	30	80
MF14020125	125	57	24	110	MF14030125	125	57	38	108
MF14020250	250	70	27	135	MF14030250	250	70	50	130
MF14020500	500	85	33	172	MF14030500	500	85	58	165
MF14021000	1000	106	38	202	MF14031000	1000	106	65	188
MF14022500	2500	145	48	270	MF14032500	2500	145	90	260
MF14025000	5000	185	58	338	MF14035000	5000	185	110	330

MF1404 Reagent bottle, amber, wide mouth, with ground-in glass stopper					MF1432 Filtering Flask, with side tubulature			
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Code	Capacity (ml)	Dia. of bottle (mm)	Dia. of mouth (mm)	Height (mm)	Code	Capacity (ml)	O.D. of side tube (mm)	Height (mm)
MF14040030	30	40	25	72	MF14320125	125	9	120
MF14040060	60	46	30	80	MF14320250	250	9	160
MF14040125	125	57	38	108	MF14320500	500	9	210
MF14040250	250	70	50	130	MF14321000	1000	9	245
MF14040500	500	85	58	165	MF14322500	2500	11	290
MF14041000	1000	106	65	188	MF14325000	5000	11	370
MF14042500	2500	145	90	260				
MF14045000	5000	185	110	330				

MF1434 Filtering Flask, with tubulature at upper side and at bottom			
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Code	Capacity (ml)	O.D. of side tube (mm)	Height (mm)
MF14340125	125	9	120
MF14340250	250	9	160
MF14340500	500	9	210
MF14341000	1000	9	245
MF14342500	2500	11	290
MF14345000	5000	11	370



MF1503



MF1504



MF1543



MF1544



MF1545

MF1503 Funnel 60° approx, long stem				MF1504 Funnel 60° approx, short stem			
Code	Diameter (ml)	O.D. of stem (mm)	Length (mm)	Code	Diameter (ml)	O.D. of stem (mm)	Length (mm)
MF15030050	50	7	150	MF15040040	40	7	50
MF15030060	60	8	150	MF15040050	50	7	50
MF15030075	75	9	150	MF15040060	60	8	60
MF15030090	90	11	150	MF15040075	75	9	75
				MF15040090	90	11	90
				MF15040100	100	13	100
				MF15040120	120	15	120
				MF15040150	150	17	150
				MF15040180	180	18	150
				MF15040210	210	21	160

MF1543 Separatory Funnel, pear shape, with ground-in stopper and stopcock				MF1544 Separatory Funnel, pear shape, with graduations, ground-in stopper and stopcock			
Code	Capacity (ml)	O.D. of stem x Length(mm)	Length (mm)	Code	Capacity (ml)	Graduation (mm)	O.D. of stem x Length(mm)
MF15430010	10	8x60	126	MF15440060	60	5	10x70
MF15430020	20	8x60	135	MF15440125	125	5	10x70
MF15430060	60	10x70	220	MF15440250	250	10	11x70
MF15430125	125	10x70	260	MF15440500	500	20	12x70
MF15430250	250	11x70	290	MF15441000	1000	50	12x70
MF15430500	500	12x70	330				
MF15431000	1000	12x70	400				

MF1545 Separatory Funnel, Cylindrical shape, with ground-in stopper and stopcock				
Code	Length (mm)	Capacity (ml)	O.D. of stem x Length(mm)	Length (mm)
MF15450060	220	60	9x80	260
MF15450125	260	125	9x80	320
MF15450250	290	250	10x110	360
MF15450500	330	500	10x110	420
MF15451000	400	1000	12x110	460



MF1546



MF1601



MF1603



MF1621A



MF1621B

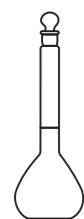


MF1622A

MF1546 Separatory Funnel, cylindrical shape, with graduations, ground-in stopper and stopcock					MF1601 Measuring Cylinder with spot			
Code	Capacity (ml)	Graduation (ml)	O.D. of stem x Length(mm)	Length (mm)	Code	Capacity (ml)	Graduation (ml)	Height (mm)
MF15460060	60	2	9x80	260	MF16010005	5	0.1	110
MF15460125	125	5	9x80	320	MF16010010	10	0.2	135
MF15460250	250	5	10x110	360	MF16010025	25	0.5	160
MF15460500	500	10	10x110	420	MF16010050	50	1	195
MF15461000	1000	25	12x110	460	MF16010100	100	1	250
					MF16010250	250	2.5	300
					MF16010500	500	5	350
					MF16011000	1000	10	430
					MF16102000	2000	20	500

MF1603 Measuring Cylinder, with graduations and ground-in stopper					MF1621A Volumetric Flask, grade A, with ground-in glass stopper or plastic stopper				
Code	Capacity (ml)	Graduation (ml)	Capacity tolerance(±ml)	Height (mm)	Code	Capacity (ml)	Ground mouth(ml)	Capacity tolerance(±ml)	Height (mm)
MF16030010	10	0.2	0.1	150	MF16210005A	5	7/11	0.02	74
MF16030025	25	0.5	0.25	150	MF16210010A	10	7/11	0.02	90
MF16030050	50	1	0.25	215	MF16120025A	25	10/13	0.03	110
MF16030100	100	1	0.5	270	MF16210050A	50	10/13	0.05	140
MF16030250	250	2.5	1	320	MF16210100A	100	12/14	0.1	170
MF16030500	500	5	2.5	380	MF16210200A	200	14/15	0.15	210
MF16031000	1000	10	5	460	MF16210250A	250	14/15	0.15	220
MF16032000	2000	20	10	530	MF16210500A	500	16/16	0.25	260
					MF16211000A	1000	19/17	0.4	310
					MF16212000A	2000	24/20	0.6	370

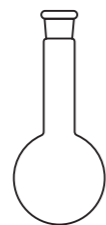
MF1621B Volumetric Flask, grade B, with ground-in glass stopper or plastic stopper					MF1622A Volumetric Flask, grade A, with ground-in glass stopper or plastic stopper				
Code	Capacity (ml)	Capacity tolerance(±ml)	Ground mouth(ml)	Height (mm)	Code	Capacity (ml)	Ground mouth(ml)	Capacity tolerance(±ml)	Height (mm)
MF16210005B	5	0.04	7/11	74	MF16220005A	5	7/11	0.02	74
MF16210010B	10	0.04	7/11	90	MF16220010A	10	7/11	0.02	90
MF16210025B	25	0.06	10/13	110	MF16220025A	25	10/13	0.03	110
MF16210050B	50	0.1	10/13	140	MF16220050A	50	10/13	0.05	140
MF16210100B	100	0.2	12/14	170	MF16220100A	100	12/14	0.1	170
MF16210200B	200	0.3	14/15	210	MF16220200A	200	14/15	0.15	210
MF16210250B	250	0.3	14/15	220	MF16220250A	250	14/15	0.15	220
MF16210500B	500	0.5	16/16	260	MF16220500A	500	16/16	0.25	260
MF16211000B	1000	0.8	19/17	310	MF16221000A	1000	19/17	0.4	310
MF16212000B	2000	1.2	24/20	370	MF16222000A	2000	24/20	0.6	370



MF1622B



MF5001



MF5002



MF5007



MF5009



MF5010

MF1622B					MF5001				
Volumetric Flask, amber, grade B, with ground-in glass stopper or plastic stopper					Boiling Flask, round bottom, short neck, standard ground mouth				
Code	Capacity (ml)	Capacity tolerance(±ml)	Ground mouth(ml)	Height (mm)	Code	Capacity (ml)	Ground mouth	O.D of bulb (mm)	Height (mm)
MF16220005B	5	0.04	7/11	74	MF50010005	5	10/19	27	56
MF16220010B	10	0.04	7/11	90	MF50010010	10	10/19	33	66
MF16220025B	25	0.06	10/13	110	MF50010025	25	10/19	41	70
MF16220050B	50	0.1	10/13	140	MF50010050	50	29/32	53	105
MF16220100B	100	0.2	12/14	170	MF50010100	100	29/32	65	117
MF16220200B	200	0.3	14/15	210	MF50010150	200	24/29	76	120
MF16220250B	250	0.3	14/15	220	MF50010250	250	29/32	88	145
MF16220500B	500	0.5	16/16	260	MF50010500	500	29/32	110	167
MF16221000A	1000	0.8	19/17	310	MF50011000	1000	29/32	140	199
MF16222000A	2000	1.2	24/20	370	MF50012000	2000	29/32	175	234
					MF50013000	3000	29/32	199	281
					MF50015000	5000	50/42	235	337

MF5002					MF5009				
Boiling Flask, round bottom, long neck, standard ground mouth					Conical Flask, standard ground mouth				
Code	Capacity (ml)	Ground mouth	O.D of bulb (mm)	Height (mm)	Code	Capacity (ml)	Ground mouth	O.D of bottle (mm)	Height (mm)
MF50020050	50	24/29	53	130	MF50090005	5	10/19	25	50
MF50020100	100	24/29	65	145	MF50090010	10	10/19	32	60
MF50020250	250	29/32	88	165	MF50090025	25	10/19	42	65
MF50020500	500	29/32	110	210	MF50090050	50	24/29	51	90
MF50021000	1000	29/32	140	250	MF50090100	100	24/29	64	105
MF50022000	2000	29/32	175	310	MF50090150	150	24/29	71	115
MF50023000	3000	40/38	199	360	MF50090250	250	29/32	85	128
MF50025000	5000	50/42	235	380	MF50090500	500	29/32	105	165
					MF50091000	1000	29/32	131	210
					MF50092000	2000	29/32	166	275

MF5007					MF5010				
Boiling Flask, round bottom, short neck, standard ground mouth					Filtering Flask, standard ground mouth				
Code	Capacity (ml)	Ground mouth	O.D of bulb (mm)	Height (mm)	Code	Capacity (ml)	Ground mouth	O.D of bulb (mm)	Height (mm)
MF50070025	25	14/23	41	70	MF50100010	10	10/19	32	60
MF50070050	50	19/26	53	94	MF50100025	25	10/19	42	70
MF50070100	100	19/26	65	106	MF50100050	50	19/26	51	85
MF50070150	150	19/26	76	117	MF50100100	100	19/26	64	105
MF50070250	250	19/26	88	134	MF50100250	250	29/32	85	135
MF50070500	500	29/32	110	167	MF50100500	500	29/32	105	170
MF50071000	1000	29/32	140	199	MF50101000	1000	29/32	131	210
MF50072000	2000	29/32	175	234					
MF50075000	5000	34/35	235	320					

## MF5411 MINI CENTRIFUGE

Max. Speed	7000rpm
Max. RCF	2680×g
Rotor Capacity	0.2/0.5/1.5/2.0mL×8; 0.2mL×16 PCR strips or 0.2mL×2 PCR 8 strips
Run Time	Continuous operation
Driving Motor	DC motor
Power	AC110-240V/50Hz/60Hz 20W
Noise Level	≤45dB
Dimension [D×W×H]	160x170x122mm
Weight	0.5kg



## MF5410 CENTRIFUGE

Max. Speed:	4000r/min
Max. RCF:	1800 X g
RBC Whing Rotor:	12x7ml, 4000rpm, RCF 1800xg
WBC Whing Rotor:	12x2ml, 4000rpm, RCF 1800xg 12x1.5ml 4000rpm, RCF 1800xg 12x0.5ml, 4000rpm, RCF 1800xg
Timer:	Programmable
Motor:	Brushless Motor
Power:	AC 220V, 50/60Hz, 3A
Weight:	22kg
Dimension:	430x346x260mm



## MF5402 CENTRIFUGE

Main power:	220V±10%, 50Hz
Max. Speed:	4000r/min
Max. RCF:	2130 X g
Type of Rotor:	Fixed angle rotor 45°
Power Input:	80Va
Power Output:	40W
Capacity:	20ml x 12
Time range:	0 - 30min
Weight:	12kg
Dimensions:	280(w)x333(d)x270(h)mm
Regulation:	Step

