M-UNIVERSAL
M-DIAGNOSTIC
M-SCIENCE

MPW®
MED. INSTRUMENTS

PDF

v.2

tcps
Lab equipment and more

Easier access to the centrifuge chamber made of stainless steel.

FEATURES
modern design
low noise level
maintenance-free induction motor
modern software system
large graphic LCD - blanking the screen after a period of inactivity
2 screen modes (simplified and normal)
10 menu languages (PL, EN, ES, IT, PT, DE, RU, FR, SE, CZ)
visual and sound alerts of different notifications
100 user programs
10 acceleration/deceleration curves
speed or RCF adjustment
manual centrifugal radius adjustment (with automatic RCF correction)
time calculation from start key pressing or from reaching preselected speed
ascending or descenging time counting
continuous operation mode - HOLD
SHORT time operation mode
changing of parameters during centrifuging
automatic rotor recognition
automatic lid opening
centrifuging parameters recording (USB port) only M-UNIVERSAL
selected functions blocking, password protection
effective ventilation system
stainless steel rotor chamber
SAFETY
unbalance sensor
lid locking during rotor running
start blocking at opened lid
emergency lid lock release
product conforming with the EN-61010-1 and EN-61010-2-020, EN-61010-2-101 standards

	M-UNIVERSAL	M-DIAGNOSTIC	M-SCIENCE
	230V 50/60Hz; 120 50/60Hz [option 100, 110, 127V 50/60Hz]	230V 50/60Hz; 120 50/60Hz [option 100, 110, 127V 50/60Hz]	230V 50/60Hz; 120 50/60Hz [option 100, 110, 127V 50/60Hz]
	220 W	190 W	220 W
	500 ml 24 x capillaries 75mm	500 ml 12 gel cards / 4 x CYTO	100 ml 24 x capillaries 75mm
	90 ÷ 18 000 RPM, step 1 RPM	90 ÷ 6 000 RPM, step 1 RPM	90 ÷ 18 000 RPM, step 1 RPM
RCF max.	24 270 x g	4 830 x g	24 270 x g
	1s ÷ 99h 59min 59s, ∞, step 1s	1s ÷ 99h 59min 59s, ∞, step 1s	1s ÷ 99h 59min 59s, ∞, step 1s
	300 x 367 x 455mm [HxWxD] 572mm height with open lid	300 x 367 x 455mm [HxWxD] 572mm height with open lid	300 x 367 x 455mm [HxWxD] 572mm height with open lid
	22/23kg [230V/120V]	22/23kg [230V/120V]	21/22kg [230V/120V]
Cat. No.	102MU/2-56 [230V 50/60-Hz] 102MU/1-56 [120V 50/60-Hz]	102MD/2-56 [230V 50/60-Hz] 102MD/1-56 [120V 50/60-Hz]	102MS/2-56 [230V 50/60-Hz] 102MS/1-56 [120V 50/60-Hz]

Centrifuge MPW M-UNIVERSAL - with its wide range of rotors and accessories this centrifuge enables proper preparation of the sample for both routine medical and veterinary tests, launch of various therapies including in regenerative medicine or using different systems to acquire PRP, as well as to perform other research including scientific, clinical research, research in cosmetology and many others.

Centrifuge MPW M-DIAGNOSTIC - with its wide range of accessories [angle and horizontal rotors] this centrifuge is suitable for performing routine tests: complete morphology, biochemistry, coagulation tests, urine, hematocrit, parasitology, hematology, cancer diagnostics [CYTO], semen analysis and more.

Centrifuge MPW M-SCIENCE - high-speed angle rotors are suitable for test tubes of 0.2 ml to 10 ml capacity and achieve high accelerations [up to 24 270 x g] which helps proper separation of inhomogeneous mixture and effective centrifugation of the sample, for instance at isolation, purification and quality assessment of nucleic acids [DNA, RNA], molecular and other analysis.

							BLOOD COLLECTION TUBES											
						Ø x L w mm	16 x 100	13 x 100	13 x 75	13 x 75	16 x 92	15 x 92	13 x 90	15 x 75	11 x 92	13 x 75	13 x 65	11 x 66
							BD Vacutainer® Vacuette®	BD Vacutainer® Vacuette®	BD Vacutainer®	Greiner Vacuette®	Sarstedt S-Monovette®	Sarstedt S-Monovette®	Sarstedt S-Monovette®	Sarstedt S-Monovette®	Sarstedt S-Monovette®	Sarstedt S-Monovette®	Sarstedt S-Monovette®	Sarstedt S-Monovette®
							2,5-11; 7-9	3,5-6; 4-7	1,6-5,3	1-4,5	9; 10	7,5; 8,2; 8,5	4,9; 5,6	4; 4,3; 5,5	4,5; 5	2,7; 3; 4; 4,3	2,6; 2,9; 3,4; 3,8	1,6; 2; 2,7; 3; 3,1
MD	MS	MU		RCF														
	MS	MU	18 000	24 270	12 x 2/1,5ml	11199												
		MU	5 000	3 494	8 x 50ml	11213	8	8		8	8	8	8			8		
		MU	14 000	19 064	12 x 5ml	11216												
		MU	6 000	4 226	10 x 15/10ml	11217	10	10			10	10			10			
		MU	6 000	3 783	10 x 15/10ml	11217			10	10				10		10	10	10
	MS	MU	15 100	21 158	24 x 2/1,5ml	11461												
	MS	MU	14 000	18 188	36 x 2/1,5ml	11462												
MD		MU	4 500	3 011	30 x 15/10ml	11501	30	30			30	30			30			
MD		MU	4 500	2 875	30 x 15/10ml	11501			30	30				30		30	30	30
	MS	MU	14 000	15 558	10 x 10ml	11715												
	MS	MU	14 000	15 339	4 x 8 x 0,2ml PCR	11716												
		MU	6 300	5 014	4 x 100ml	11718												
MD			5 000	3 634	4 x 60ml	11720												
MD		MU	5 500	4 058	12 x 15/10ml	11740	12	12			12	12			12			
MD		MU	5 500	3 686	12 x 15/10ml	11740			12	12				12		12	12	12
MD		MU	6 000	4 226	8 x 15/10ml	11741	8	8			8	8			8			
MD		MU	6 000	3 783	8 x 15/10ml	11741			8	8				8		8	8	8
MD		MU	5 500	4 058	12 x 30/25ml	11743									12			
MD		MU	4 500	2 830	10 x 50ml	11744	10	10		10	10	10	10			10		
MD		MU	5 000	3 354	24 x 15/10ml	11745	24	24			24	24			24			
MD		MU	5 000	3 130	24 x 15/10ml	11745			24	24				24		24	24	24
MD		MU	6 000	4 427	6 x 50ml	11746	6	6		6	6	6	6			6		
		MU	14 600	20 257	24 x 2/1,5ml	11760												
	MS		13 500	17 319	24 x 2/1,5ml	11760												
	MS	MU	12 000	13 684	20 x 1,8	11943												
	MS	MU	12 000	13 684	12 x 5ml	11944												
MD		MU	4 000	2 504	4 x 100ml	12193	8	8			8	8			8			
MD		MU	4 000	2 182	8 x 15/10ml	12193			8	8			8	8		8	8	8
MD		MU	4 000	2 504	8 x 15/10ml	12200	28, 20	32	32	32	20	28, 20	32	28, 20	48, 32	32	32	48
MD		MU	4 000	2 469	4 x 100ml	12200	8	8			8	8			8			
MD		MU	4 000	2 164	4 x 100ml	12200			48	48							48	48
MD		MU	3 000	916	2 x 1 MTP	12218												
MD			1 235	130	12 gniazd / slots	12270												
	MS	MU	13 000	16 816	24 kapilary / capillaries 75mm	12300												
MD			2 500	769	4 x 2,2ml CYTO	12452												

		MICRO TUBES								UNIVERSAL TUBES																	
Ø x L w mm		17 x 66	17 x 54,2	10,8 x 41,8	10,8 x 46	12,3 x 46,5	7,3 x 77,2; 10,2 x 72,4; 10,2 x 37,2	5,7 x 48,6; 7,8 x 31	6 x 21,6	30 x 117	17 x 120	30 x 115	29 x 102	25,5 x 94,3; 28,8 x 106,7	25,4 x 103,2	25,4 x 101,8	16 x 113	16 x 81,5	25 x 94	30 x 115	45,2 x 103,7	25,5 x 94	16,8 x 113,7	16 x 100	17 x 70	11,5 x 92	12 x 85
		Eppendorf® Screw Cap	Eppendorf® Snap Cap	Eppendorf® Snap Cap	Eppendorf® Spin Columns	Cryo	PCR	PCR	PCR	Falcon® Sarstedt®	Falcon® Sarstedt®	Greiner® Falcon®	Advanced Oak Ridge, Herolab®	Thermo Nalgene® Oak Ridge	Nalgene®	Thermo Nalgene® Oak Ridge	Thermo Nalgene®	Thermo Nalgene® Oak Ridge	Sterilin® Skirted type	Greiner®	plastic type	plastic type	plastic type	plastic type	plastic type	plastic type	plastic type
		5	5	2-1,5	2	1,6; 1,8	4 x 0,2; 8 x 0,2	0,5; 0,4	0,2	50	15	50	50	50	30	28	15	10	30	50	100	30	10; 14	13	10	6	5
Cat. No.	RCF																										
11199	24 270			12				12	12																		
11213	3 494	8	8							8	8	8	8	8	8	8	8					8	8			8	8
11216	19 064																										12
11217	4 226										10						10						10			10	
11217	3 783																	10							10		
11461	21 158			24				24	24																		
11462	18 188			36				36	36																		
11501	3 011										30						30						30			30	
11501	2 875																	30							30		
11715	15 558																								10		
11716	15 339						4		32																		
11718	5 014									4	4	4	4	4	4				4	4	4						
11720	3 634																										
11740	4 058										12						12						12			12	
11740	3 686																	12							12		
11741	4 226										8						8						8			8	
11741	3 783																	8							8		
11743	4 058														12		12		12			12	12				
11744	2 830									10	10	10	10	10	10	10	10					10	10			10	10
11745	3 354										24						24						24			24	
11745	3 130																	24							24		
11746	4 427									6	6	6	6	6	6	6	6					6	6			6	6
11760	20 257			24	24			24	24																		
11760	17 319			24	24			24	24																		
11943	13 684					20																					
11944	13 684	6	12																								
12193	2 504										8						8						8			8	
12193	2 182																	8							8		
12200	2 504			40	40					4	4	4	4	4	4	4		28, 20	4	4	4	4	28, 20	20	20	48, 32	48, 32
12200	2 469										8						8						8			8	
12200	2 164																										
12218	916																										
12270	130																										
12300	16 816																										
12452	769																										

		SPECIAL PURPOSE TUBES						GLASS TUBES				
Ø x L w mm		1,4 x 75	86 x 128 x 15/17,5	32 x 152			70 x 9 x 53 / 75 x 9 x 54 / 54 x 9 x 65 / 60 x 9 x 53	35 x 100; 44 x 100	25 x 100	16 x 100	12 x 100	12 x 75
		capillaries	MTP	Orthokine®vet	Arthrex ACP®	CYTO MPW®	gel cards					
		0,037	28,8	60		2,2		50; 100	25	10	7	5
Cat. No.	RCF											
11199	24 270											
11213	3 494								8	8	8	8
11216	19 064											
11217	4 226									10	10	
11217	3 783											10
11461	21 158											
11462	18 188											
11501	3 011									30	30	
11501	2 875											30
11715	15 558											
11716	15 339											
11718	5 014							4	4			
11720	3 634			4								
11740	4 058									12	12	
11740	3 686											12
11741	4 226									8	8	
11741	3 783											8
11743	4 058									12	12	
11744	2 830								10	10	10	10
11745	3 354									24	24	
11745	3 130											24
11746	4 427								6	6	6	6
11760	20 257											
11760	17 319											
11943	13 684											
11944	13 684											
12193	2 504									8	8	
12193	2 182											8
12200	2 504							4	4	28, 20	48, 32	48, 32
12200	2 469									8	8	
12200	2 164											
12218	916		2									
12270	130						12					
12300	16 816	24										
12452	769					4						

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	S-LINE				M-LINE				
							CYTO		
	MPW-54	MPW-55	MPW-56	MPW-150R	M-BASIC	M-UNIVERSAL	M-DIAGNOSTIC	M-SCIENCE	MPW-260
	120 ml	48 ml	120 ml	90 ml	120 ml / PRP	500 ml	500 ml	100 ml	500 ml
RCF max.	1 137, 3 122 x g	15 279 x g	3 341 x g	21 382 x g	2 469 x g	24 270 x g	4 830 x g	24 270 x g	24 270 x g
RPM max.	3 500, 5 800	14 500	6 000	15 000	4 000	18 000	6 000	18 000	18 000
	–	–	–	-20°C ÷ +40°C	–	–	–	–	–
Number of rotors (angle swing-out)	3/0	3/1	4/0	7/1	1	19/4	8/5	8/1	19/3
Rotor auto-recognition	–	–	–	•	–	•	•	•	•
Language	EN	EN	EN	PL, EN, ES, IT, PT, DE, RU, SE, FR, CZ	EN	PL, EN, ES, IT, PT, DE, RU, SE, FR, CZ	PL, EN, ES, IT, PT, DE, RU, SE, FR, CZ	PL, EN, ES, IT, PT, DE, RU, SE, FR, CZ	PL, EN, ES, IT, PT, DE, RU, SE, FR, CZ
Cover tightening	–	–	–	–	–	–	–	–	–
User programs	–	9	–	100	5	100	100	100	100

	M-LINE		L-LINE				XL-LINE	
				CYTO	CYTO	CYTO		
	MPW-260R	MPW-260RH	MPW-351e	MPW-352	MPW-352R	MPW-352RH	MPW-380	MPW-380R
	500 ml	500 ml	800 ml	1 000 ml	1 000 ml	1 000 ml	3 000 ml	3 000 ml
RCF max.	24 270 x g	24 270 x g	3 509 x g	29 703 x g	30 065 x g	30 065 x g	31 876 x g	31 876 x g
RPM max.	18 000	18 000	4 500	18 000	18 000	18 000	18 000	18 000
	-20°C ÷ +40°C	-20°C ÷ +55°C	–	–	-20°C ÷ +40°C	-20°C ÷ +55°C	–	-20°C ÷ +40°C
Number of rotors (angle swing-out)	19/3	19/3	4/3	27/7	27/7	27/7	13/4	13/4
Rotor auto-recognition	•	•	–	•	•	•	•	•
Language	PL, EN, ES, IT, PT, DE, RU, SE, FR, CZ	PL, EN, ES, IT, PT, DE, RU, SE, FR, CZ	EN	PL, EN, ES, IT, PT, DE, RU, SE, FR, CZ	PL, EN, ES, IT, PT, DE, RU, SE, FR, CZ	PL, EN, ES, IT, PT, DE, RU, SE, FR, CZ	PL, EN, ES, IT, PT, DE, RU, SE, FR, CZ	PL, EN, ES, IT, PT, DE, RU, SE, FR, CZ
Cover tightening	–	–	–	•	•	•	•	•
User programs	100	100	–	100	100	100	100	100

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