

# High Speed Refrigerated Centrifuge

## Scope of Application

Widely used in: teaching, scientific research, biochemical products, medical inspection, food safety, agricultural product inspection, animal husbandry and aquatic product inspection, microbiology, molecular chemistry, environmental protection, quality inspection and other industries.

## Key Features



### Intelligent Operation

Touchscreen control with multiples programmable settings (at least 20 programs); Auto-rotor recognition prevents mismatched runs.



### Balance Protection

Six-axis vibration monitoring; Dynamic rotor balance detection; Electronic gradienter; Auto-rotor ID detection (except MLX-2012HR); Halts operation instantly upon imbalance.



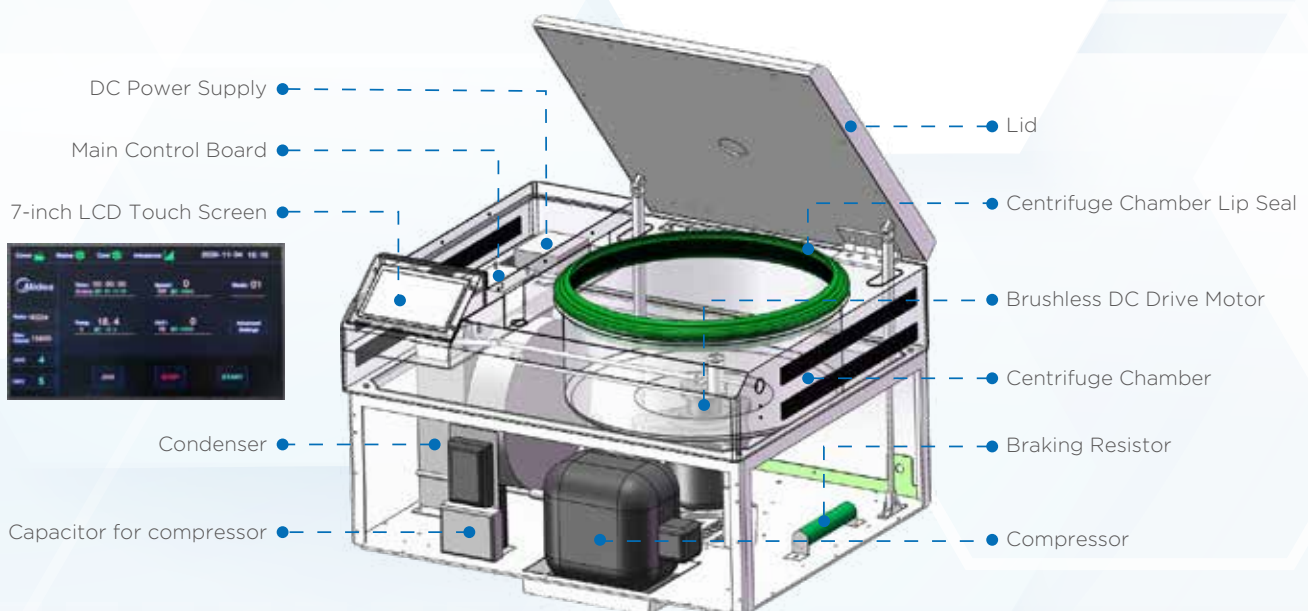
### Lab-Grade Durability

304 stainless steel chamber + reinforced steel frame; Brushless inverter motor ensures 50,000+ cycles; Corrosion/wear resistant.



### Advanced Efficiency

Cooling to 4°C in 5 min at 20°C ambient; Gravity-assisted door hinge + eco standby mode cuts energy use 40%; Low noise.



## Specifications



Model	MLX-2012HR	MLX-2018HR	MLX-3020HR
Refrigerated	Yes		
Max Capacity	5ml x 12	10ml x 12	750ml x 4
Max Speed (rpm)	15500	18000	24000
Max RCF (xg)	23449	26870	40217
Speed Accuracy (rpm)	±10		
Timer	1s-99h59min59s/short spin		
Temperature Range (°C)	-20 ~ 40		
Temperature Accuracy (°C)	±1		
Sound Level dB(A)	≤50		≤58
Power Supply	110V~/50/60Hz   220-240V~/50/60Hz		
Display	LCD Touch Screen		
Exterior Dimension (W*D*H)mm	540 x 315 x 260	615 x 380 x 330	666 x 698 x 515
Packing Dimension (W*D*H)mm	650 x 440 x 365	740 x 550 x 490	820 x 780 x 700
Net/Gross Weight (kg)	39/50	57/71	114/136



Model	MLX-3021HR	MLX-3022HR	MLX-3024HR
Refrigerated	Yes		
Max Capacity	100ml x 6	300ml x 4	750ml x 4
Max Speed (rpm)	23000	23500	24000
Max RCF (xg)	36796	38487	40217
Speed Accuracy (rpm)	±10		
Timer	1s-99h59min59s/short spin		
Temperature Range (°C)	-20 ~ 40		
Temperature Accuracy (°C)	±1		
Sound Level dB(A)	≤58		
Power Supply	110V~/50/60Hz   220-240V~/50/60Hz		
Display	LCD Touch Screen		
Exterior Dimension (W*D*H)mm	670 x 410 x 400	610 x 570 x 505	760 x 590 x 890
Packing Dimension (W*D*H)mm	770 x 590 x 590	780 x 700 x 660	830 x 700 x 1060
Net/Gross Weight (kg)	76/96	99/110	135/165

## Available Rotor

Model	Available Rotor	Capacity	Max.Speed	Max.RCF
MLX-2012HR		0.2ml x 4 x 8	13000 rpm	13037 xg
		0.5ml x 12	15500 rpm	12893 xg
		1.5ml/2.2ml x 24	15500 rpm	23449 xg
		5ml x 12	15000 rpm	17105 xg
MLX-2018HR		0.1ml x 36 (capillary)	12000 rpm	16904 xg
		0.2ml x 4 x 8	13500 rpm	14059 xg
		0.5ml x 12	18800 rpm	18967 xg
		0.5ml x 48	13000 rpm	14737 xg
		1.5ml/2.2ml x 12	18800 rpm	26870 xg
		1.5ml/2.2ml x 24	15800 rpm	24365 xg
		5ml x 12	16000 rpm	19462 xg
		10ml x 12	13500 rpm	17645 xg
		0.2ml x 4 x 8	14500 rpm	16219 xg
MLX-3020HR		0.5ml x 12	24000 rpm	30910 xg
		0.5ml x 24	23000 rpm	40217 xg
		1.5ml/2.2ml x 12	23000 rpm	40217 xg
		1.5ml/2.2ml x 24	17500 rpm	29890 xg

**MLX-3020HR**

Model	Available Rotor	Capacity	Max.Speed	Max.RCF
MLX-3020HR		1.5ml/2.2ml x 36	16000 rpm	25473 xg
		1.5ml/2.2ml x 48	15500 rpm	26672 xg
		5ml x 12	17000 rpm	21971 xg
		5ml x 24	15000 rpm	21130 xg
		10ml x 12	15500 rpm	23261 xg
		10ml x 24	12500 rpm	16770 xg
		15ml x 8	13000 rpm	17572 xg
		30ml x 6	15000 rpm	22640 xg
		50ml x 6	13000 rpm	18762 xg
		50ml x 8	12000 rpm	16904 xg
		100ml x 4	12000 rpm	16904 xg
		100ml x 6	12000 rpm	16904 xg
		750ml x 4	4200 rpm	3727 xg
		Swing out rotor adapters: 500ml x 4   250ml x 4   100ml x 12   50ml x 20   50ml x 28 (Round)   15ml/20ml (Conical) x 56   15ml (Vacutainer) x 76   3ml/5ml(Vacutainer) x 96   5ml x 148 (RIA tube)		
		500ml x 4	4200 rpm	3451 xg
	Swing out rotor adapters: 250ml x 4   100ml x 8   50ml x 16   10ml/15ml x 40 (Round)   10ml/15ml x 56 (Round)   5ml (Vacutainer) x 68   5ml (RIA tube) x 96			
	300ml x 4	4500 rpm	3645 xg	
	Containment swing-bucket rotor adapters: 250ml x 4   100ml x 4   50ml x 12   10ml/15ml (Round) x 40   15ml (Conical)x 28   5ml (Vacutainer) x 56   5ml (RIA tube) x 76			

Model	Available Rotor	Capacity	Max.Speed	Max.RCF
<b>MLX-3020HR</b>		96well x 2/ 96well x 2 x 2 (Microbial Reaction Plate)	5000 rpm	4081 xg
		96well x 4/ 96well x 4 x 2 (Microbial Reaction Plate)	5000 rpm	3667 xg
<b>MLX-3021HR</b>		0.2ml x 4 x 8	14500 rpm	16219 xg
		0.5ml x 12	23000 rpm	28388 xg
		0.5ml x 24	18800 rpm	26870 xg
		0.5ml x 48	16000 rpm	22324 xg
		1.5ml/2.2ml x 12	22000 rpm	36796 xg
		1.5ml/2.2ml x 24	17500 rpm	29890 xg
		1.5ml/2.2ml x 36	16000 rpm	25473 xg
		1.5ml/2.2ml x 48	15500 rpm	26672 xg
		5ml x 12	17000 rpm	21971 xg
		5ml x 24	13500 rpm	17115 xg
		10ml x 12	15500 rpm	23261 xg
		10ml x 24	12500 rpm	16770 xg
		15ml x 8	13000 rpm	17572 xg
		30ml x 6	15000 rpm	22640 xg
		50ml x 6	13000 rpm	18762 xg
		50ml x 8	12000 rpm	16904 xg
		100ml x 4	12000 rpm	16904 xg
		100ml x 6	12000 rpm	16904 xg

**MLX-3022HR**

Model	Available Rotor	Capacity	Max.Speed	Max.RCF
		0.1ml x 36 (capillary)	12000 rpm	16904 xg
		0.2ml x 4 x 8	14500 rpm	16219 xg
		0.5ml x 12	23500 rpm	29636 xg
		0.5ml x 24	23000 rpm	40217 xg
		1.5ml/2.2ml x 12	22500 rpm	38487 xg
		1.5ml/2.2ml x 24	17500 rpm	29890 xg
		1.5ml/2.2ml x 36	16000 rpm	25473 xg
		1.5ml/2.2ml x 48	15500 rpm	26672 xg
		5ml x 12	17000 rpm	21971 xg
		5ml x 24	13500 rpm	17115 xg
		10ml x 12	15500 rpm	23261 xg
		10ml x 24	12500 rpm	16770 xg
		15ml x 8	13000 rpm	17572 xg
		15ml x 12	12500 rpm	17469 xg
		30ml x 6	15000 rpm	22640 xg
		50ml x 6	13000 rpm	18762 xg
		50ml x 8	12000 rpm	16904 xg
		100ml x 4	12000 rpm	16904 xg
		100ml x 6	12000 rpm	16904 xg
		300ml x 4	4500 rpm	3645 xg
		Swing out rotor adapters: 250ml x 4   100ml x 4   50ml x 12   10ml x 40 (Vacutainer)   15ml x 20 (Conical)   5ml x 56 (Vacutainer)		

Model	Available Rotor	Capacity	Max.Speed	Max.RCF
MLX-3022HR		100ml x 4	5000 rpm	4500 xg
	Swing out rotor adapters: 100ml x 4   50ml x 4   15ml x 12   5ml x 16			
		96well x 2/ 96well x 2 x 2 (Microbial Reaction Plate)	5000 rpm	4081 xg
MLX-3024HR		0.1ml x 36 (capillary)	12000 rpm	16904 xg
		0.2ml x 4 x 8	14500 rpm	16219 xg
		0.5ml x 12	23500 rpm	29636 xg
		0.5ml x 24	23000 rpm	40217 xg
		1.5ml/2.2ml x 12	22500 rpm	38487 xg
		1.5ml/2.2ml x 24	17500 rpm	29890 xg
		1.5ml/2.2ml x 36	16000 rpm	25473 xg
		1.5ml/2.2ml x 48	15500 rpm	26672 xg
		5ml x 12	17000 rpm	21971 xg
		5ml x 24	13500 rpm	17115 xg
		10ml x 12	15500 rpm	23261 xg
		10ml x 24	12500 rpm	16770 xg
		15ml x 8	13000 rpm	17572 xg
		15ml x 12	12500 rpm	17469 xg
		30ml x 6	15000 rpm	22640 xg
		50ml x 6	13000 rpm	18762 xg
		50ml x 8	12000 rpm	16904 xg
		100ml x 4	12000 rpm	16904 xg
		100ml x 6	12000 rpm	16904 xg

**MLX-3024HR**

Model	Available Rotor	Capacity	Max.Speed	Max.RCF
MLX-3024HR		750ml x 4	4200 rpm	3727 xg
		Swing out rotor adapters: 500ml x 4   250ml (Corning tube) x 4   250ml x 4   100ml x 12   50ml (Conical) x 20   15ml/20ml (Conical) x 56   10ml (Vacutainer) x 76   3ml/5ml/7ml (Vacutainer) x 96   5ml x 148 (RIA tube)		
		3/5ml x 96	5000 rpm	4500 xg
		Auto-decapping swing-bucket rotor adapters: 3ml/5ml (Vacutainer) x 96   100ml x 12   50ml (Conical) x 20   15ml/20ml (Conical) x 56		
		750ml x 4	4200 rpm	3727 xg
		Containment swing-bucket rotor adapters: 500ml x 4   250ml (Corning tube) x 4   250ml x 4   100ml x 12   50ml (Conical) x 20   15mL/20ml (Conical) x 56   10ml (Vacutainer) x 76   3ml/5ml/7ml (Vacutainer) x 96   5ml x 148 (RIA tube)   3ml/5ml (Vacutainer) x 96   100ml x 12   50ml (Conical) x 20   15ml/20ml (Conical) x 56		
	96well x 2/ 96well x 2 x 2 (Microbial Reaction Plate)	5000 rpm	4081 xg	
	96well x 4/ 96well x 4 x 2 (Microbial Reaction Plate)	4000 rpm	3667 xg	