

# Centrifuges



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**High Speed Centrifuges**

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**Large Capacity Centrifuges**

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**Multi Purpose Centrifuges**

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# Labnics Centrifuges

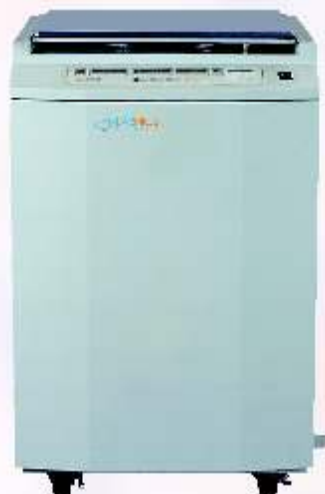
Labnics centrifuges are designed for a wide range of laboratory applications requiring speed from low to ultra and are provided with fixed angle rotors, swing bucket, vertical and zonal continuous flow rotors.

**They are provided with the following features:**

1. Microprocessor control with programmable applications.
2. Display and control RFC.
3. Integral running.
4. Gentle start up and braking.
5. Acceleration/ deceleration profiles.
6. RCF/RPM calculation.
7. Rotor recognition.
8. Input of the temperature limit ensures temperature control.
9. Feed back control system for automatic half atmosphere vacuum.
10. Display of abnormality: Imbalance, over-speed, over- temperature.
11. Maintenance free, quite & brushless AC induction motor.
12. Positive action brake system and interlocking door for safety.
13. The micro high speed centrifuges are especially designed for applications using microtube & in genetic engineering, molecular biology and microbiology.
14. The angle rotor and the quick cooling compressor display excellent degree acceleration ability to secure a safe experiment because there is little temperature change.
15. Large capacity centrifuges are especially designed to handle large samples like those in blood banks.
16. Multipurpose centrifuges are provided with windshield swing rotors (LMPC-20A, LMPC-20B, LMPC-30A and LMPC-30B). Tube racks can be exchanged according to user requirement from small quantity to large quantity.
17. Cellspin (LMPC-70) is especially meant to concentrate cells in very few number, onto the slide directly.

# High Speed Centrifuges

## LMHS-10



### Specification:

<b>Model No.</b>	<b>LMHS-10</b>
Maximum RPM	17,000rpm
Maximum RCF	31,341 x g
Maximum Capacity	6 x 85ml
Temperature Range	-20°C to +40°C
Speed Preset and Display	1 rpm
Temperature Limit Set Range	0°C to +30°C
Timer	9 hrs 59min 59sec and "hold" for free run
Brake	10 Setting
Programmability	10 Memory
Rotor Recognition	10 Rotors
Digital Display	RPM, RCF, time, temperature, temp. limit, program, brake time, rotor number
Warning Display	Imbalance, door open, over speed, over temp.
Dimension (W x D x H)	550 x 600 x 865 mm
Weight	140kg
Catalog No.	01120201

## LMHS-20 Series



LMHS-20 A & LMHS-20 B ▶



LMHS-20 C ▲

### Specification:

Model	LMHS-20 A	LMHS-20 B	LMHS-20 C
Maximum RPM		17,000rpm	
Maximum RCF		28,756 x g	
Maximum Capacity	12 x 10ml		24 x 1.5/2.0ml
Temperature Range		-20°C to +40°C	
Timer		99min or free run	
Pulse		On/Off	
Brake Selection		3 Steps: Slow, Normal, Fast	
Digital Display		RPM, RCF, Time, Temp., Program	
Dimension (W x D x H)		410 x 470 x 825 mm	335 x 522 x 216 mm
Weight	88 kg	85 kg	52 kg
Catalog No.	01120202	01120203	01120204

## High Speed Centrifuges

### LMHS-30



#### Specification:

Model No.	LMHS-30
Maximum RPM	15,000rpm
Maximum RCF	19,872 x g
Maximum Capacity	24 x 1.5/2.0ml
Temperature Range	Air cooling
Timer	90mins 59sec
Brake Selection	3 Steps: Slow, Normal, Fast
Digital Display	RPM, RCF, Time and Program
Dimension (W x D x H)	310 x 340 x 285 mm
Weight	22 kg
Catalog No.	01120205

### LMHS-40 (Biospin)



#### Specification:

Model No.	LMHS-40
Maximum RPM	13,000rpm
Maximum RCF	13,982 x g
Maximum Capacity	18 x 1.5/2.0ml
Temperature Range	Air cooling
Timer	99mins 59sec
Brake Selection	3 Steps: Slow, Normal, Fast
Digital Display	Speed, Time, Program, Brake, Step
Dimension (W x D x H)	270 x 355 x 280 mm
Weight	14 kg
Catalog No.	01120206

### LMHS-50



#### Specification:

Model No.	LMHS-50
Maximum RPM	13,000rpm
Maximum RCF	10,581 x g
Maximum Capacity	12 x 1.5/2.0ml
Temperature Range	Air cooling
Timer	30mins (working time: 5min)
Dimension (W x D x H)	165 x 165 x 172 mm
Weight	2.5 kg
Catalog No.	01120207

### LMHS-60 (PCR-Fuge)



#### Specification:

Model No.	LMHS-60
Maximum RPM	6,000rpm
Maximum Capacity	32 x 0.2ml
Temperature Range	Air cooling
Dimension (W x D x H)	165 x 165 x 172 mm
Weight	2.5 kg
Catalog No.	01120208

## Large Capacity Centrifuges

### LLCC-10



#### Specification:

<b>Model No.</b>	<b>LLCC-10</b>
Maximum RPM	6,000rpm
Maximum RCF	9,660 x g
Maximum Capacity	6 x 1000ml
Speed present and Display	1 rpm
Temperature Range	-20°C to +40°C
Temperature limit Set Range	0°C to +30°C
Timer	9hrs 59min 59sec and "Hold" for free run
Acceleration Time	10 settings
Deceleration Time	10 settings
Programmability	10 memory
Rotor recognition	10 rotors
Rotor Radius Set range	0.1mm to max radius
Digital Display	RPM, RCF, Time, Temp., Temp. Limit, Program, Brake Time, Rotor Number
Dimension (W x D x H)	700 x 807 x 858 mm
Weight	510 kg
Catalog No.	01120301

### LLCC-20



#### Specification:

<b>Model No.</b>	<b>LLCC-20</b>
Maximum RPM	12,000rpm
Maximum RCF	20,929 x g
Maximum Capacity	6 x 1000ml
Speed present and Display	1 rpm
Temperature Range	-20°C to +40°C
Temperature limit Set Range	0°C to ±30°C
Timer	9hrs 59min 59sec and "Hold" for free run
Acceleration Time	10 settings
Deceleration Time	10 settings
Programmability	99 memory
Rotor recognition	99 rotors
Rotor Radius Set Range	0.1mm to max. radius
Digital Display	RPM, RCF, Time, Temp., Temp. Limit, Program, Acel/Decel time, Rotor number, Rotor radius, $\alpha/\beta$ , Self test
Dimension (W x D x H)	710 x 1000 x 1235 mm
Weight	290 kg
Catalog No.	01120302

## Large Capacity Centrifuges

### LLCC-30

#### Specification:

<b>Model No.</b>	<b>LLCC-30</b>
Maximum RPM	10,000rpm
Maximum RCF	12,857 x g
Maximum Capacity	6 x 750ml
Door System	Auto Door On/Off System
Speed preset and Display	1 rpm
Temperature Range	-20°C to +40°C
Temperature limit Set Range	0°C to ±30°C
Timer	9hrs 59min 59sec and "Hold" for free run
Acceleration Time	10 settings
Deceleration Time	10 settings
Programmability	10 memory
Rotor Recognition	10 rotors
Digital Display	RPM, RCF, Time, Temp., Temp. Limit, Program, Brake Time, Rotor Number
Dimension (W x D x H)	700 x 807 x 858 mm
Weight	205 kg
Catalog No.	01120303



## Multi Purpose Centrifuges

### LMPC-10

#### Specification:

<b>Model No.</b>	<b>LMPC-10</b>
Maximum RPM	15,000 rpm (Fixed angle rotor) 5,000 rpm (Swing out rotor)
Maximum Centrifugal Force	38,014 x g (Fixed angle rotor) 4,449 x g (Swing out rotor)
Speed Preset and Display	1rpm
Maximum Load	4 x 750 ml
Maximum Relative Humidity	30 %~ 85%
Timer	9hrs 59min 59 sec and "hold" for free run
Deceleration Time	10 Settings
Programmability	10 Memory
Digital Display	RPM, RCF, Time, Temp., Temp Limit, Program, Brake Time, Rotor Number
Dimension (W x D x H)	723 x 665 x 387 mm
Weight Excluding Rotor	95Kg
Noise Level	<60dB (A)
Degree of Contamination	2
Maximum Power Requirement	2.5Kw
Catalog No.	01120401



## Multi Purpose Centrifuges

### LMPC-20 Series



LMPC-20 A



LMPC-20 B

#### Specification:

Model No.	LMPC-20 A	LMPC-20 B
Maximum RPM		10,000rpm
Maximum RCF		12,857 x g
Maximum Capacity		4 x 750ml
Door System	Auto Door On/Off System	
Speed present and Display	1 rpm	
Temperature Range	-20°C to +40°C	
Temperature Limit Set Range	0°C to ±30°C	
Timer	9hrs 59min 59sec and "Hold" for free run	
Acceleration Time	10 settings	
Deceleration Time	10 settings	
Programmability	10 memory	
Rotor Recognition	10 rotors	
Digital Display	RPM, RCF, Time, Temp., Temp. Limit, Program, Brake Time, Rotor Number	
Dimension (W x D x H)	640 x 630 x 450 mm	
Weight	116 kg	112 kg
Catalog No.	01120402	01120403

### LMPC-30 Series



#### Specification:

Model No.	LMPC-30 A	LMPC-30 B
Maximum RPM		6,000rpm
Maximum RCF		4,910 x g
Maximum Capacity		4 x 750ml
Temperature Range	Air cooling	
Timer	9hrs 59min 59sec or free run	
Braking Rates	3 settings	
Programmability	10 memory	
Digital Display	RPM, RCF, Time and Program	
Drive Motor	Brushless AC Induction motion	
Dimension (W x D x H)	530 x 595 x 425 mm	
Weight	75 kg	71 kg
Catalog No.	01120404	01120405

## Multi Purpose Centrifuges

### LMPC-40

#### Specification:

<b>Model No.</b>	<b>LMPC-40</b>
Maximum RPM	10,000rpm
Maximum RCF	12,857 x g
Maximum Capacity	6 x 85ml
Temperature Range	-20°C to +40°C
Temperature limit Set Range	0°C to ±30°C
Timer	9hrs 59min 59sec and "Hold" for free run
Deceleration Time	10 settings
Programmability	10 memory
Rotor Recognition	10 rotors
Digital Display	RPM, RCF, Time, Temp., Temp. Limit, Program, Brake Time, Rotor Number
Drive motor	Brushless AC Induction motor
Dimension (W x D x H)	550 x 600 x 865 mm
Weight	122 kg
Catalog No.	01120406



### LMPC-50

#### Specification:

<b>Model No.</b>	<b>LMPC-50</b>
Maximum RPM	5,500rpm
Maximum RCF	5,411 x g
Maximum Capacity	32 x 15ml
Temp. Range	Air cooling
Max. Noise Output	<60dB
Timer	99hrs 59min 59sec or free run
Accuracy Rates	10 steps
Programmability	100 memory
Digital Display	RPM, RCF, Time, Program, Accel., Decel. Rotor, Radius
Drive Motor	BLDC (Brushless) Motor
Dimension (W x D x H)	570 x 475 x 325 mm
Weight	40 kg
Catalog No.	01120407



## Multi Purpose Centrifuges

### LMPC-60



#### Specification:

<b>Model No.</b>	<b>LMPC-60</b>
Maximum RPM	4,000rpm
Maximum RCF	2,898 x g
Maximum Capacity	24 x 15ml
Timer	99 min 59 sec or free run
Braking Rates	3 steps: Slow, Normal, Fast
Programmability	10 memory
Digital Display	RPM, RCF, Time and Program
Drive motor	High torque DC motor
Dimension (W x D x H)	435 x 520 x 380 mm
Weight	34 kg
Catalog No.	01120408

### LMPC-70 (Cellspin)



#### Specification:

<b>Model No.</b>	<b>LMPC-70</b>
Maximum RPM	3,000rpm
Maximum RCF	1,056 x g
Maximum Capacity	12 slide x 0.5-6ml
Timer	99 min 59 sec or free run
Braking Rates	10 settings
Programmability	10 memory
Digital Display	RPM, Time, Brake and Program
Drive motor	High torque DC motor
Dimension (W x D x H)	360 x 410 x 280 mm
Specimen Range	0.5 to 6cc
Weight	24 kg
Catalog No.	01120409

### LMPC-80 (Serospin)



#### Specification:

<b>Model No.</b>	<b>LMPC-80</b>
Maximum RPM	3,400rpm
Maximum RCF	1,020 x g
Maximum Capacity	12 x 75mm tube
Temperature Range	Air cooling
Timer	99 min 59 sec
Brake Selection	10 steps
Digital Display	Speed, Time, Program, Brake Step
Dimension (W x D x H)	270 x 355 x 280 mm
Weight	11 kg
Catalog No.	01120410

## Multi Purpose Centrifuges

### LHSC-30



#### Specification:

<b>Model No.</b>	<b>LHSC-30</b>
Maximum RPM	30,000rpm
Maximum RCF	100,620xg
Maximum Capacity	4 x 1000ml
Speed Preset and Display	1 rpm
Temperature Range	-20°C to +40°C
Temperature Limit Set Range	0°C to ±30°C
Timer	9 hrs 59min 59sec and "hold" for free run
Acceleration Time	10 Setting
Deceleration Time	10 Setting
Programmability	99 Memory
Rotor Recognition	99 Rotors
Rotor Radius Set Range	0.1mm to max. radius
Digital Display	RPM, RCF, time, temperature, temp. limit, program, accel/decel time, rotor number, rotor radius, $\Delta v/dt$ , self test
Dimension (W x D x H)	710 x 1000 x 1260 mm
Weight	330Kg
Catalog No.	01120103

### LHSC-40



#### Specification:

<b>Model No.</b>	<b>LHSC-40</b>
Maximum RPM	25,000 rpm
Maximum RCF	69,176xg
Maximum Capacity	4 x 1000ml
Speed Preset and Display	1 rpm
Temperature Range	-20°C to +40°C
Temperature Limit Set Range	0°C to ±30°C
Timer	9 hrs 59min 59sec and "hold" for free run
Acceleration Time	10 Setting
Deceleration Time	10 Setting
Programmability	99 Memory
Rotor Recognition	99 Rotors
Rotor Radius Set Range	0.1mm to max. radius
Digital Display	RPM, RCF, time, temperature, temp. limit, program, accel/decel time, rotor number, rotor radius, $\Delta v/dt$ , self test
Dimension (W x D x H)	710 x 1000 x 1260 mm
Weight	300Kg
Catalog No.	01120104

# Multi Purpose Centrifuges

## LHSC-50 Series

### Specification:

Model No.	LHSC-50
Maximum RPM	22,000 rpm
Maximum RCF	53,029xg
Max. Capacity Angle Rotor	4 x 1000ml
Speed Preset and Display	1 rpm
Temperature Range	-20°C to +40°C
Temperature Limit Set Range	0°C to ±30°C
Timer	9 hrs 59min 59sec and "hold" for free run
Acceleration Time	10 Setting
Deceleration Time	10 Setting
Programmability	99 Memory
Rotor Recognition	99 Rotors
Rotor Radius Set Range	0.1 mm to max radius
Digital Display	RPM, RCF, time, temperature, temp. limit, program, accel/decel time, rotor number, rotor radius, $\Delta t$ , self test
Dimension (W x D x H)	710 x 1000 x 1235 mm
Weight	290Kg
Catalog No.	01120105



## LHSC-60

### Specification:

Model No.	LHSC-60
Maximum RPM	21,000 rpm
Maximum RCF	47,825xg
Maximum Capacity	6 x 250ml
Door System	Auto door on/off system
Speed Preset and Display	1 rpm
Temperature Range	-20°C to +40°C
Temperature Limit Set Range	0°C to +30°C
Timer	9 hrs 59min 59sec and "hold" for free run
Brake	10 Setting
Programmability	10 Memory
Rotor Recognition	10 Rotors
Digital Display	RPM, RCF, time, temperature, temp. limit, program, brake time, rotor number
Warning Display	Imbalance, door open, over speed, over temp.
Dimension (W x D x H)	550 x 600 x 865 mm
Weight	165Kg
Catalog No.	01120107



# Selection Guide for Rotors



LAR 63 / LAR 77 /  
LAR 90 / LAR 121



LAR 82 / LAR 115 /  
LAR 116 / LAR 131



LAR 80 / LAR 86 /  
LAR 117 / LAR 118



LAR 19 / LAR 55 / LAR 66  
/ LAR 81 / LAR 94



LAR 23 / LAR 45 / LAR 58 /  
LAR 76 / LAR 88 / LAR 98 /  
LAR 104 / LAR 107 / LAR 122



LAR 38 / LAR 70



LAR 39



LSR 40



LAR 43 / LAR 56 /  
LAR 69 / LAR 93 / LAR 132



LAR 79 / LAR 87 /  
LAR 92 / LAR 119 / LAR 120



LAR 71



LAR 89 / LAR 99 /  
LAR 103 / LAR 130



LSR 100 / LSR 106



LHR 101 / LHR 105



LAR 102



LAR 108



LAR 109



LAR 110



LAR 111



LAR 112



LAR 113



LAR 114



LAR 123



LSR 124



LAR 125



LSR 126



LAR 127



LR 128



LR 129



WSR 1



WSR 2



WSR 3



SBR 1 / SBR 2

## Multi Purpose Centrifuges

### LHSC-30

Model No.	Tube Volume (ml)	Max. RPM (rpm)	Max. RCF	Catalog No.
LAR 23	24 x 1.5 / 2.0	30,000	79,490 x g	01120111
LAR 24	60 x 2.0	20,000	40,695 x g	01120112
LAR 25	12 x 10	30,000	85,527 x g	01120114
LAR 26	24 x 10	25,000	69,875 x g	01120115
LAR 27	8 x 13.5	30,000	73,453 x g	01120116
LAR 28	12 x 13.5	30,000	87,539 x g	01120117
LAR 29	18 x 13.5	30,000	87,539 x g	01120118
LAR 30	12 x 15	30,000	97,601 x g	01120119
LAR 31	24 x 15	19,000	49,239 x g	01120121
LAR 32	8 x 38.5	30,000	100,620 x g	01120122
LAR 33	12 x 38.5	30,000	94,583 x g	01120123
LAR 34	18 x 38.5	15,000	28,802 x g	01120124
LAR 35	6 x 94	25,000	69,176 x g	01120126
LAR 36	10 x 94	20,000	54,111 x g	01120127
LAR 37	6 x 250	14,000	28,487 x g	01120128
LAR 38	6 x 500	10,000	17,664 x g	01120129
LAR 39	4 x 1000	8,000	12,021 x g	01120131
LSR 40	4 x 250	6,000	5,796 x g	01120132
LSR 41	4 x 50	13,000	23,051 x g	01120133
LSR 42	4 x 15	13,000	24,562 x g	01120134
LAR 43	6 x 50	10,000	10,174 x g	01120135
LAR 44	12 x 15	10,000	16,435 x g	01120136
LAR 12	32 x 6.5	15,000	27,922 x g	01120113
LAR 19	8 x 50	30,000	98,608 x g	01120125

### LHSC-40

Model No.	Tube Volume (ml)	Max. RPM (rpm)	Max. RCF	Catalog No.
LAR 45	24 x 1.5 / 2.0	25,000	55,201 x g	01120143
LAR 46	12 x 10	25,000	59,394 x g	01120144
LAR 47	24 x 10	22,000	54,111 x g	01120145
LAR 48	8 x 13.5	25,000	51,009 x g	01120146
LAR 49	12 x 13.5	25,000	60,791 x g	01120147
LAR 50	18 x 13.5	25,000	60,009 x g	01120148
LAR 51	12 x 15	25,000	67,779 x g	01120149
LAR 52	24 x 15	20,000	54,558 x g	01120151
LAR 53	8 x 38.5	25,000	68,478 x g	01120152
LAR 54	12 x 38.5	25,000	60,791 x g	01120153
LAR 55	8 x 50	25,000	68,478 x g	01120154
LAR 56	6 x 50	10,000	10,230 x g	01120155
LAR 57	12 x 15	10,000	11,180 x g	01120156
LAR 12, LAR 24, LAR 34, LAR 35, LAR 36, LAR 37, LAR 38, LAR 39, LSR 40, LSR 41, LSR 42				

## LHSC-50

Model No.	Tube Volume (ml)	Max. RPM (rpm)	Max. RCF	Catalog No.
LAR 58	24 x 1.5/2.0	22,000	42,748 x g	01120157
LAR 59	24 x 1.5	18,000	31,876 x g	01120158
LAR 60	60 x 2.0	15,000	22,891 x g	01120159
LAR 61	12 x 10	22,000	45,995 x g	01120161
LAR 62	24 x 10	20,000	44,720 x g	01120162
LAR 63	12 x 15	22,000	52,488 x g	01120163
LAR 64	24 x 15	14,000	26,734 x g	01120164
LAR 65	6 x 50	22,000	51,406 x g	01120165
LAR 66	8 x 50	22,000	53,029 x g	01120166
LAR 67	6 x 85	20,000	44,273 x g	01120167
LAR 68	10 x 85	15,000	30,438 x g	01120168
LAR 69	6 x 250	12,000	20,929 x g	01120169
LAR 70	6 x 500	9,000	14,308 x g	01120171
LAR 71	6 x 50	17,000	29,564 x g	01120172
LAR 72	12 x 15	17,000	32,310 x g	01120173
LAR 39, LSR 40, LSR 41, LSR 42				

## LHSC-60

Model No.	Tube Volume (ml)	Max. RPM (rpm)	Max. RCF	Catalog No.
LAR 76	24 x 1.5 / 20	21,000	34,020 x g	01120174
LAR 77	12 x 10	21,000	41,908 x g	01120175
LAR 78	24 x 10	17,000	38,126 x g	01120176
LAR 79	12 x 15	21,000	46,346 x g	01120177
LAR 80	6 x 50	21,000	47,825 x g	01120178
LAR 81	8 x 50	17,000	34,900 x g	01120179
LAR 82	6 x 85	17,000	29,079 x g	01120181
LSR 83	6 x 250	10,000	14,420 x g	01120182
LSR 84	4 x 15	11,000	17,586 x g	01120183
LSR 85	4 x 50	11,000	15,365 x g	01120184
LAR 86	6 x 50	17,000	34,900 x g	01120185
LAR-87	12 x 15	17,000	31,987xg	01120186

## High Speed Centrifuge

### LMHS-10

Model No.	Tube Volume (ml)	Max. RPM (rpm)	Max. RCF	Catalog No.
LAR 88	24 x 1.5 / 2.0	17,000	28,756 x g	01120221
LAR 89	30 x 1.5	15,000	22,388 x g	01120222
LAR 90	12 x 10	17,000	27,464 x g	01120223
LAR 91	24 x 10	15,000	25,155 x g	01120224
LAR 92	12 x 15	17,000	31,341 x g	01120225
LAR 93	6 x 50	17,000	30,695 x g	01120226
LAR 94	8 x 50	15,000	24,652 x g	01120227
LAR 95	6 x 85	15,000	24,903 x g	01120228
LAR 96	6 x 50	15,000	23,017 x g	01120229
LAR 97	12 x 15	15,000	25,155 x g	01120231

## High Speed Centrifuge

### LMHS-20A

Model No.	Tube Volume (ml)	Max. RPM (rpm)	Max. RCF	Catalog No.
LAR 98	24 x 1.5 / 2.0	17,000	28,756 x g	01120232
LAR 99	30 x 1.5	15,000	22,388 x g	01120233
LSR 100	16 x 1.5 / 2.0	12,000	12,074 x g	01120234
LHR 101	36 x 1.5 / 2.0	12,000	12,074 x g	01120235
LAR 102	12 x 10	17,000	27,464 x g	01120236

### LMHS-20B

Model No.	Tube Volume (ml)	Max. RPM (rpm)	Max. RCF	Catalog No.
LAR 103	30 x 1.5	15,000	22,388 x g	01120244
LAR 104	24 x 1.5 / 2.0	17,000	25,525 x g	01120245
LHR 105	36 x 1.5 / 2.0	12,000	12,074 x g	01120246
LSR 106	16 x 1.5 / 2.0	12,000	12,074 x g	01120247

### LMHS-20C

LHR 105, LSR 106

### LMHS-30

Model No.	Tube Volume (ml)	Max. RPM (rpm)	Max. RCF	Catalog No.
LAR 107	24 x 1.5 / 2.0	15,000	19,872 x g	01120248

### LMHS-40

Model No.	Tube Volume (ml)	Max. RPM (rpm)	Max. RCF	Catalog No.
LAR 108	18 x 1.5 / 2.0	13,000	13,982 x g	01120249

### LMHS-50

Model No.	Tube Volume (ml)	Max. RPM (rpm)	Max. RCF	Catalog No.
LAR 109	10 x 1.5 / 2.0	13,000	10,581 x g	01120251
LAR 110	12 x 1.5 / 2.0	13,000	10,581 x g	01120252

### LMHS-60

Model No.	Tube Volume (ml)	Max. RPM (rpm)	Max. RCF	Catalog No.
LAR 111	32 x 0.2	6,000	-	01120253

## Large Capacity Centrifuges

### LLCC-10

Model No.	Tube Volume (ml)	Max. RPM (rpm)	Max. RCF	Catalog No.
WSR 1	6 x 1000	6,000	9,660 x g	01120335

### LLCC-20

Model No.	Tube Volume (ml)	Max. RPM (rpm)	Max. RCF	Catalog No.
LAR 112	6 x 1000	7,000	10,682 x g	01120348
LAR 38, LAR 39, LAR 69				

### LLCC-30

Model No.	Tube Volume (ml)	Max. RPM (rpm)	Max. RCF	Catalog No.
LAR 113	24 x 15	8,000	8,729 x g	01120356
LAR 114	10 x 50	10,000	12,857 x g	01120357
LAR 115	6 x 85	10,000	11,068 x g	01120358
WSR 2	6 x 750	5,000	6,149 x g	01120353

## Multi Purpose Centrifuge

### LMPC-10

Model No.	Tube Volume (ml)	Max. RPM (rpm)	Max. RCF	Catalog No.
LAR 116	6 x 85	15,000	23,143 x g	01120441
LAR 117	6 x 50	15,000	24,149 x g	01120442
LAR 118	6 x 50	15,000	23,017 x g	01120443
LAR 119	12 x 15	15,000	25,029 x g	01120444
LAR 120	12 x 15	15,000	24,149 x g	01120445
LAR 121	12 x 10	15,000	21,382 x g	01120446
LAR 122	24 x 1.5/2.0	15,000	20,250 x g	01120447
LAR 123	48 x 0.2	12,500	15,547 x g	01120448
LAR 130	36 x 1.5/2.0	14,500	-	01120486
LAR 131	10 x 85	15,000	23,143 x g	01120487
LAR 132	8 x 50	15,000	24,841 x g	01120488
LAR 133	24 x 10	15,000	25,407 x g	01120489
SBR 1	4 x 500	4,500	4,278 x g	01120449
SBR 3	4 x 750	4,500	4,449 x g	01120491

### LMPC-20A, LMPC-20B

Model No.	Tube Volume (ml)	Max. RPM (rpm)	Max. RCF	Catalog No.
LAR 113, LAR 114, LAR 115				
WSR 3 (LMPC-20A)	4 x 750	4,000	3,721 x g	01120465
SBR 2	4 x 750	3,200	2,381 x g	01120466

### LMPC-30A, LMPC-30B

LAR 113, LAR 114, WSR 3, SBR 2				
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### LMPC-40

Model No.	Tube Volume (ml)	Max. RPM (rpm)	Max. RCF	Catalog No.
LSR 124	32 x 15	5,500	5,817 x g	01120467
LAR 113, LAR 114, LAR 115				

### LMPC-50

LSR 124				
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### LMPC-60

Model No.	Tube Volume (ml)	Max. RPM (rpm)	Max. RCF	Catalog No.
LAR 125	24 x 15	4,000	2,896 x g	01120481
LSR 126	4 x 50	4,000	2,808 x g	01120482
LSR 127	6 x 50	3,600	2,231 x g	01120483

## LMPC-70

LR 128

01120484

## LMPC-80

LR 129

01120485

# Selection Guide for Accessories

## Adapters

### LHSC-30, LHSC-40, LHSC-50, LHSC-60, LMHS-10



50ml(15ml) to 94ml  
A1

Cat. No. 01120139



15ml to 50ml  
A2

Cat. No. 01120141



50ml  
A3

Cat. No. 01120142

### LMHS-20A, LMHS-20B & LMHS-20C



#### Specification:

Adapter	Model No.	Catalog No.
0.2ml	A4	01120237
0.4ml	A5	01120238
0.5ml	A6	01120239
1.0ml	A7	01120241
1.5ml	A8	01120242
2.0ml	A9	01120243

### LLCC-10



A10  
(500ml)

Cat. No. 01120336

A11  
(250ml)  
conical flask bottles

Cat. No. 01120337

## Vacuum Pump and Nalgene Tube Sealing Cap

### LHSC-30, LHSC-40



VP

Vacuum pump  
 $6.7 \times 10^{-2}$  Torr 60l/min  
Cat. No. 01120137



NSC

Nalgene tube sealing cap  
10ml, 50ml 500ml, 1000ml  
Cat. No. 01120138

## Sealing Rack and Sealing Cap

LLCC-30, LMPC-20A / 20B, LMPC-30A / 30B



SR  
Sealing Rack  
Cat. No. 01120354



SC  
Sealing Cap  
Cat. No. 01120355

## Bottles

LLCC-20



B1  
1000ml  
Cat. No. 01120349



B2  
500ml  
Cat. No. 01120351



B3  
250ml  
Cat. No. 01120352

## Microtiter Rack

LLCC-10, LLCC-30



MTR 1  
RCF: 9,660 x g  
Micro titer rack  
2 plates x 96 holes  
Cat. No. 01120334

LMPC-10



MTR 2  
4,000rpm  
2,952 x g  
2 plates x 96 holes  
Cat. No. 01120451

LMPC-20A, LMPC-30A



MTR 3  
RCF: 3,721 x g  
Micro titer rack  
2 plates x 96 holes  
Cat. No. 01120463

LMPC-20B, LMPC-30B



MTR 4  
RCF: 2,381 x g  
Micro titer rack  
2 plates x 96 holes  
Cat. No. 01120464

LMPC-40, LMPC-50



MTR 5  
2,000rpm  
622 x g  
2 plates x 96 holes  
13.9cm  
Cat. No. 01120468

## Swing Rotor Accessories

LMPC-40, LMPC-50

	Bucket Rack					Tube Rack Holder	Tube Rack			
	BR 1	BR 2	BR 3	BR 4	BR 5	TRH	TR 1	TR 2	TR 3	TR 4
Tube Capacity	15ml	50ml	50ml	50ml	15ml		3ml	5ml	10ml	15ml
No. of tubes per rack	8	2	1	1	4		20	14	12	8
No. of tubes of rotor	32	8	4	4	16		80	56	48	32
Max. dia. of tube	17.5mm	30.5mm	30.5mm	29.5mm	18mm		10mm	11mm	12.5mm	17mm
Max. length of tube	145mm	145mm	145mm	145mm	145mm		140mm	140mm	140mm	140mm
Max. rpm	4,000rpm	5,000rpm	5,500rpm	5,000rpm	4,000rpm		3,000rpm	3,000rpm	3,000rpm	3,000rpm
Tube										
Catalog No.	01120469	01120471	01120472	01120473	01120474	01120475	01120476	01120477	01120478	01120479

## Conical Racks

### LLCC-10



CR 1  
Cat. No. 01120331



CR 2  
Cat. No. 01120332



CR 3  
Cat. No. 01120333

### LLCC-10, LLCC-30, LMPC-10, LMPC-20A, LMPC-20B, LMPC-30A, LMPC-30B

\* CR2-07 is available with only LLCC-10 Model

										
<b>CR 2</b>	<b>CR2-01</b>	<b>CR2-02</b>	<b>CR2-03</b>	<b>CR2-04</b>	<b>CR2-05</b>	<b>CR2-06</b>	<b>*CR2-07</b>	<b>CR2-08</b>	<b>CR2-09</b>	
Tube capacity	5ml	10ml	15ml	50ml	250ml	500ml	1000ml	50ml	15ml	
No. of tubes per rack	26	26	19	7	1	1	1	5	14	
No. of tubes per rotor	156	156	114	42	6	6	6	30	84	
Max. diameter of tube	12.5mm	14mm	17mm	29mm	62mm	74mm	74mm	29mm	16.7mm	
Max. length of tube	150mm	150mm	150mm	150mm	150mm	150mm	150mm	150mm	150mm	
Catalog No.	01120338	01120339	01120341	01120342	01120343	01120344	01120345	01120346	01120347	

\* LAR ---> Labnics Angle Rotor

\* LSR ---> Labnics Swing Rotor

\* LCR ---> Labnics Continuous Rotor

\* WSR ---> Windshield Swing Bucket Rotor

\* SBR ---> Swing Bucket Rotor

\* LR ---> Labnics Rotor

# Centrifuges



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