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# Mini

C E N T R I F U G E

LMI-A2  
SERIES



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## Mini Centrifuge LMI-A20

Mini Centrifuge LMI-A20 is a handheld centrifuge with digital LCD display. With centrifugal speed of 7000 rpm and maximum RCF of  $3286 \times g$  it is equipped with brushless DC motor which gives noiseless and vibration free operation mode. It has ergonomic compact design and user friendly usage mode. It offers maximum  $6 \times 2.0$  ml tube capacity. Ideal for macromolecules separation and clinical and HPLC analysis protocols.

## Mini Centrifuge LMI-A21

Mini Centrifuge LMI-A21 is a handheld centrifuge with digital LCD display. With Centrifugal speed of 12000 rpm and maximum RCF of  $9660 \times g$  it is equipped with brushless DC motor gives noiseless and vibration free operation mode. It has ergonomic compact design and user friendly usage mode. It offers maximum  $12 \times 2.0$  ml tube capacity. Ideal for macromolecules separation and clinical, PCR and HPLC analysis protocols.

### Features:

- Enhanced flash memory microcontroller gives high performance
- Compact design gives it a tool-free rotor exchange feature
- Less noise and vibration free operation mode
- False audio and visual alarm system
- High speed safety feature prevents unit damage
- Shock absorbent RSS material, more stable operations
- Interlock lid prevents tubes exclusion during spinning
- Requires less bench area space
- Easy to install and has user-friendly usage
- Built under EN 61010-1 , EN 61010-2-020 , EN 61326-1 , EN 61010-3-2/A2 standards

### Application:

Widely used in the extraction of nucleic acids, cell debris separation and microfiltration from the biological samples. It is preferably used for protein concentration, PCR analyses, clinical analysis and HPLC protocols.

## Specifications:

Model No	LMI-A20	LMI-A21
Maximum Speed	500 to 7000 rpm $\pm$ 5%	500 to 12000 rpm $\pm$ 5%
Maximum RCF	3286 $\times$ g	9660 $\times$ g
Speed increment	500 rpm	
Allowable ambient temperature	5 to 40 °C	
Relative Humidity	80% RH	
Fastest acceleration time	$\leq$ 5 s	$\leq$ 12 s
Fastest Deceleration time	$\leq$ 10s	$\leq$ 16 s
Motor	DC 24 V/DC permanent magnet motor	
Effective centrifuge time	1 to 99 min / 1 to 59 s	
Noise at maximum speed	$\leq$ 43 dB	$\leq$ 47 dB
Maximum power consumption	30 W	
Power supply	AC 100-250 V/ 50/ 60 Hz	
Power fuse	PPTC / self-recovery fuse / no need to replace	
Fault alarm	Voice prompt + display code	
Control Method	ST16 bit MCU/PWM/speed regulation;	
Display Method	Black and white LCD display	
Protection level	IP21	
Dimension (L $\times$ W $\times$ H)	194 $\times$ 229 $\times$ 120 mm	
Net weight	2 kg	

**LMI-A20:****Standard configuration**

<b>Rotor Name</b>	<b>Maximum Speed (rpm)</b>	<b>Maximum RCF (×g)</b>	<b>Maximum capacity (ml × tube number)</b>	<b>Tube type dimension</b>
Angle Rotor 01	7000	3232	1.5/2.2 × 12 + PCR 0.2 × 8 holes × 4 strip	Cone bottom tube
PCR angle rotor 01	7000	2210	PCR 0.2 × 12 holes × 4 strip	Cone bottom tube

**Optional rotors**

<b>Rotor Name</b>	<b>Maximum Speed (rpm)</b>	<b>Maximum RCF (×g)</b>	<b>Maximum capacity (ml × tube number)</b>	<b>Tube type dimension</b>
Angle Rotor 02	7000	3286	5 × 4 holes	Cone bottom tube
Angle Rotor 03	7000	3180	5/1.8/1.1 × 4	PP Riser screw pipe

**LMI-A21:****Standard configuration**

<b>Rotor Name</b>	<b>Maximum Speed (rpm)</b>	<b>Maximum RCF (×g)</b>	<b>Maximum capacity (ml × tube number)</b>	<b>Tube type dimension</b>
Angle Rotor 01	12000	9500	1.5/2.2 × 12 + PCR 0.2 × 8 holes × 4 strip	Cone bottom tube
PCR angle rotor 01	12000	5960	PCR 0.2 × 12 holes × 4 strip	Cone bottom tube

**Optional rotors**

<b>Rotor Name</b>	<b>Maximum Speed (rpm)</b>	<b>Maximum RCF (×g)</b>	<b>Maximum capacity (ml × tube number)</b>	<b>Tube type dimension</b>
Angle Rotor 02	12000	9660	5 × 4 holes	Cone bottom tube
Angle Rotor 03	12000	8371	Capillary tube 20 µl × 12, capillary reading card: 1 pc, capillary sealing wax board: 1 pc	15 × 40 mm diameter
Angle Rotor 04	7000	3180	5/1.8/1.1 × 4	PP Riser screw pipe