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# >>> KJLC-I Centrifuge

## Brief Introduction:

⊙ KJLC-I Centrifuge with brushless DC motor and microcomputer. It has LCD display, standard equipped rotor, time setting function and features like stepless speed change, etc. It's the ideal equipment applicable for clinic test, biochemistry, immunology, etc. which is mostly chosen by the in-stitution like medical health, food, environment, scientific research, teaching and biochemical test, etc.

## Features:

### 1. Outstanding performance:

- ⊙ CPU precise controlling, high performance brushless DC motor, maintenance free.
- ⊙ Highly accurate speed control.
- ⊙ Timing begins after speed steady to guarantee a more precise centrifuge time.
- ⊙ Two kinds of acceleration curves, three kinds of deceleration curves, free match and combinations between acceleration and deceleration, makes the specimen separation better.

### 2. Reliable safety:

- ⊙ Full 304 stainless steel made rotor chamber guarantees much more safety for the rotor running.
- ⊙ Closed centrifuge chamber can much reduce biological contamination risk.
- ⊙ Aluminum material rotor ensures long service life.
- ⊙ Four important safety functions: Lid interlock, monitor for lid open / close condition, over-speed protection, automatic internal diagnosis, which can highly protect operation staff and the centrifuge.

### 3. User-friendly design:

- ⊙ Time and speed display simultaneously, convenient for monitoring the running condition of the centrifuge.
- ⊙ Three kinds of operating mode: 10s-99min59s timing, continuous run and short run.
- ⊙ G-force (RCF) and speed (RPM) switch displayed, convenient for reading.
- ⊙ 10 groups operating parameter memory makes the working efficiency highly improved.
- ⊙ Quiet running with noise lower than 65dB.



## Technical Data:

Rated speed:	300-4500rpm, increment: 10rpm / 100rpm (fast turning the SPEED dial)	Output power:	94W
Maximum RCF:	Rotor 1: 2558×g increment: 10×g / 100×g (fast turning the SPEED dial) Rotor 2: 2200×g increment: 10×g / 100×g (fast turning the SPEED dial)	Input power:	300W
Speed accuracy:	±20rpm	Input voltage (Frequency):	AC100-240V (50-60Hz)
Maximum capacity:	240mL	Noise level:	< 65dB
Running mode:	Timing / Continuous / Joy	ACC/DEC: Acceleration :	Fast(Accelerate to Max. speed < 23S) Slow(Accelerate to Max. speed < 66S)
Timing range:	10s-99min59s increment: 1S/1min(fast turning the SPEED dial)	Deceleration :	Fast(Decelerate to stop < 23S) Slow(Decelerate to stop < 66S) Normal (according to the specimen mass)
Rotor type:	12-bore angle rotor / 24-bore angle rotor	Dimension:	450×340×230mm
Safety function:	Lid interlock, monitor for lid open / close condition, over-speed protection, automatic internal diagnosis	Net weight:	10kg
Driving motor:	Brushless DC motor		

## Rotor:



24-bore angle rotor, Ø16×85 colour adapter



12-bore angle rotor, Ø17×105 adapter



48mm Rubber cushion



23mm Rubber cushion

Rotor NO.	Rotor Description	Tube Specifications	Tube Quantity	Tube Size (diameter×length)	Max. Speed	Max. RCF	Adapter Size (diameter×length)	Accessory (Rubber Cushion)
1	24-Bore Angle Rotor	8.5-10mL (Test tube)	24	Ø15×107 mm	4500rpm	2558 × g	Ø16×85mm	—
		4-7mL (Test tube)	24	Ø13×106 mm		2558 × g		—
		1.5-5mL (Test tube)	24	Ø13×82 mm		2264 × g		23mm
		4-7mL (Test tube)		Ø15×75 mm				
2	12-Bore Angle Rotor	8.5-10mL (Test tube)	12	Ø16×107 mm	4000rpm	1968 × g	Ø17×105mm	23mm
		4-7mL (Test tube)	12	Ø13×106 mm		1968 × g		23mm
		1.5-5mL (Test tube)	12	Ø13×82 mm		1681 × g		48mm
		15mL (Culture tube)	8	Ø17×120 mm		2200 × g		—

## >>> KJLC-II Mini Centrifuge

### Features:

- ⦿ High-performance DC motor, powerful engine, quiet when running, noise  $\leq$  52dB.
- ⦿ Closed-loop control technology, accurate speed control.
- ⦿ Wide-voltage design to prevent interference to the running accuracy by mains fluctuation.
- ⦿ Clear LED display to show time and speed.
- ⦿ Speed and time adjustable for various lab experiments.
- ⦿ Big volume design, max. capacity up to 8×2mL micro centrifuge tube or 16×0.2mL PCR tube.
- ⦿ Rapid speed up and down. Less than 10s required to reach 10000rpm, and stop within 5s from 10000rpm.
- ⦿ Easy rotor switching without any tools.
- ⦿ Cover opening and closing supervision system ensures safe running.
- ⦿ Five colors available for the safety cover.

## >>> KJLC-II-S1 Mini Centrifuge

### Features:

- ⦿ Ideal for microfiltration and quick spin-downs.
- ⦿ Easy-to-use with dual start / stop function.
- ⦿ 6000rpm fixed speed.
- ⦿ Compatible with 2mLx8 and PCR8x2 rotors.
- ⦿ Quiet running, noise level  $\leq$  52dB.
- ⦿ Rotor change without tools.
- ⦿ Accelerates and brakes in seconds.



### Rotor:



Rotor for 0.1mL or 0.2mL 8-strip PCR tube



Rotor for 1.5mL or 2mL centrifuge tube



Rotor and adapter for 0.5mL centrifuge tube



Rotor and adapter for 0.2mL centrifuge tube

### Technical Data:

	KJLC-II	KJLC-II-S1
Rated speed:	3000-10000rpm(1000rpm/step)	6000rpm
Maximum RCF:	5460×g	3280×g
Adapted tube:	1) 8×0.2mL / 8×0.5mL / 8×1.5mL / 8×2mL centrifuge tube 2) 2×0.1mL PCR-8 strip tube, 2×0.2mL PCR-8 strip tube	1) 8×0.2mL / 8×0.5mL / 8×1.5mL / 8×2mL centrifuge tube 2) 2×0.1mL PCR-8 strip tube, 2×0.2mL PCR-8 strip tube
Running mode:	Timing/Continuous	Continuous
Timing range:	1s-99min	-
Safety performance:	Lid opening/closing supervision	Lid opening/closing supervision
Motor:	DC motor	DC motor
Input power:	40W	20W
Output power:	16W	5W
Power supply:	Single-phase 100-240V (50-60Hz)	Single-phase 100-240V (50-60Hz)
Noise range:	< 52 dB	< 52dB
Dimension:	195(L)×170(W)×135(H)	195(L)×170(W)×135(H)
Net weight:	0.8kg	0.6kg

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