

**labodam**



# REFRIGERATED CENTRIFUGE

LRF-A10, LRF-A11 & LRF-A12

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# Refrigerated Centrifuge

## Refrigerated Centrifuge LRF-A10

LRF-A10 is a microprocessor controlled floor standing refrigerated centrifuge having 5000 rpm speed. It is safe, reliable, low maintenance and easy-to-use instrument equipped with LCD display and low noise flexible axle driven rotor system. With auto electric locking system fluorine free compressors and 3 tier protective steel covering, it is ideal for blood separation, protein precipitation etc. and can be used at blood station and pharmaceutical industry for variety of applications.

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## Features

- Microprocessor controlled system
  - LCD display that indicates speed, time and RCF in operation
  - 3 tiers protective steel covering
  - Low noise flexible axle driven rotor system which ensures smooth functioning
  - Brushless frequency conversion motor
  - Fluorine free compressors with double cycle cooling and heating system
  - Automatic electric lid lock that provides protection against over speed and temperature and imbalance
  - Rotor is connected to spindle by specialized taper sleeve
  - Enables easy and quick loading of samples
  - Optional rotors available
  - Safe, reliable and easy-to-use
  - Low maintenance
  - Environment friendly
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## Applications

It is widely used in biochemical and clinical labs for precipitate separation and serum analysis, in pharmaceutical industry etc. and is perfect for DNA, RNA, PCR or antibody analysis.

# Refrigerated Centrifuge

## Specifications

Model no.	LRF-A10
Max. Speed	5000 rpm
Max. RCF	4730 x g
Max. Capacity	4 x 800 ml
Temp. Range	-20°C-40°C
Temp. Accuracy	± 1°C
Speed Accuracy	± 50 r/min
Timer Range	0-99 hr. 59 min
Noise	≤ 58 dB
Rotor Identification	Automatic
Power Supply	AC 110-220 V/ 50-60 Hz/ 15 A
Dimension (H x W x D)	685 x 540 x 820 mm
Packaged Dimension (H x W x D)	845 x 585 x 515 mm
Net Weight	170 kg
Gross Weight	190 kg

# Refrigerated Centrifuge

Select suitable rotor as per your requirement from the list given below:

Rotor Name	Max. Speed (rpm)	Max. Capacity (ml)	Max. RCF (x g)
Swing rotor 01	4000	4 x 800 (Round Cup)	3450
Swing rotor 02	4000	4 x 500 (Round Cup)	3380
Swing rotor 03	4000	4 x 500 (Square Cup)	3310
Microplate rotor 01	4000	4 x 4 x 96 well	2840
		2 x 4 x 96 well	2490
		2 x 3 x 48 well	2300
Swing rotor 04	4000	4 x 40 x 7	3270
		4 x 40 x 5	2890
		4 x 18 x 10	3140
Angle rotor 01	5000	12 x 15	3080
Angle rotor 02	5000	6 x 50	2850
Angle rotor 03	5000	4 x 50	2520
Angle rotor 04	5000	4 x 100	2630
Angle rotor 05	5000	24 x 15	3500
Angle rotor 06	5000	12 x 50	3860
Angle rotor 07	5000	6 x 100	3130
Angle rotor 08	4000	12 x 100	2970

# Refrigerated Centrifuge

## Adapter for 800 ml and 500 ml bucket:

Volume	5 ml	7 ml	10 ml	15 ml	50 ml
800 ml (Round Cup)	23pcs/cup	23	19	14	5
500ml (Round Cup)	18pcs/cup	18	14	9	3
500ml (Square Cup)	20pcs/cup	20	16	12	5

## Refrigerated Centrifuge LRF-A11

LRF-A11 is a microprocessor controlled large capacity refrigerated centrifuge having 5000 rpm speed. It is safe, reliable and pollution free instrument equipped with digital display, brushless DC motor, automatic electric lid lock system and 3 tier protective steel covering to ensure safety of the operation. With fluorine free compressors having double cycle cooling and heating effect, it is ideal for low temperature demanding samples.

### Features

- Microprocessor controlled system
- Brushless DC motor
- Digital display which indicates speed, time and RCF in operation
- 3 tier protective steel covering
- Fluorine free compressors having double cycle cooling and heating effect
- Automatic electric lid lock system to provide protection against over speed, over temperature and imbalance
- Provision to edit running parameters
- Rotor is connected to spindle by specialized taper sleeve
- 10 kinds of program can be stored in the memory
- Users can choose among 10 kinds of accelerating and decelerating speed
- Wide range of optional rotors is available
- Adapters can be designed as per the experimental requirement
- Low maintenance
- Safe and reliable
- Environment friendly

# Refrigerated Centrifuge

## Applications

It is widely used in biochemical and clinical labs for precipitate separation and serum analysis, in pharmaceutical industry etc. and is perfect for DNA, RNA, PCR or antibody analysis.

## Specifications

Model no.	LRF-A11
Max. Speed	5000 rpm
Max. RCF	4730 x g
Max. Capacity	4 x 300 ml
Temp. Range	-20°C-40°C
Temp. Accuracy	± 1°C
Speed Accuracy	± 50 rpm
Timer Range	0-99 hr. 59 min
Noise	≤ 65 dB
Rotor Identification	Automatic
Power Supply	AC 220 V/ 50 Hz/15A
Dimension (H x W x D)	640 x 665 x 420 mm
Packaged Dimension (H x W x D)	820 x 735 x 535 mm
Net Weight	118 kg
Gross Weight	130 kg

# Refrigerated Centrifuge

Select suitable rotor as per your requirement from the list given below:

Rotor Name	Max. Speed (rpm)	Max. Capacity (ml)	Max. RCF (x g)
Swing rotor 01	4000	4 x 300 (Round Cup)	2920
Swing rotor 02	4000	4 x 300 (Square Cup)	2920
Swing rotor 03	4000	4 x 24 x 5	2840
		4 x 24 x 7	3140
		4 x 18 x 10	
Swing rotor 04	4000	4 x 31 (Khan tube)	2840
Angle rotor 01	5000	12 x 15	3080
Angle rotor 02	5000	6 x 50	2850
Angle rotor 03	5000	4 x 50	2520
Angle rotor 04	5000	4 x 100	2630
Angle rotor 05	5000	24 x 15	3500
Angle rotor 06	5000	12 x 50	3860
Angle rotor 07	5000	6 x 100	3130
Angle rotor 08	4000	12 x 100	2970
Microplate rotor 01	4000	2 x 4 x 96 well	2490
		2 x 3 x 48 well	2300

Adapter for 300 ml round cup and square cup:

Volume	5 ml	7 ml	10 ml	15 ml	50 ml
300ml (Square Cup)	16pcs/cup	16	12	9	4
300ml (Round Cup)	10pcs/cup	10	9	7	2

# Refrigerated Centrifuge

## Refrigerated Centrifuge LRF-A12

LRF-A12 is a microprocessor controlled bench top type large capacity refrigerated centrifuge having 5000 rpm speed. It is safe, reliable, precise and easy-to-use centrifuge with 10 kinds of accelerating and decelerating speed. Equipped with LED display, brushless DC motor, fluorine free compressors, 3 tier protective steel covering and automatic electric lid lock system, it is ideal for low temperature separation of samples.

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### Features

- ▣ Microprocessor controlled system
  - ▣ Brushless DC motor
  - ▣ LED display which indicates speed, time and RCF in operation
  - ▣ 3 tier protective steel covering
  - ▣ Fluorine free compressors having double cycle cooling and heating effect
  - ▣ Automatic electric lid lock system to provide protection against over speed, over temperature and imbalance
  - ▣ Provision to edit running parameters
  - ▣ Rotor is connected to spindle by specialized taper sleeve
  - ▣ 10 kinds of program can be stored in the memory
  - ▣ Users can choose among 10 kinds of accelerating and decelerating speed
  - ▣ Wide range of optional rotors is available
  - ▣ Adapters can be designed as per the experimental requirement
  - ▣ Low maintenance
  - ▣ Safe and reliable
  - ▣ Environment friendly
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### Applications

It is widely used in biochemical and clinical labs for precipitate separation and serum analysis, in pharmaceutical industry etc. and is perfect for DNA, RNA, PCR or antibody analysis.



# Refrigerated Centrifuge

## Specifications

Model no.	LRF-A12
Max. Speed	5000 rpm
Max. RCF	4730 x g
Max. Capacity	4 x 800 ml
Temp. Range	-20 °C-40 °C
Temp. Accuracy	± 1 °C
Speed Accuracy	± 20 rpm
Timer Range	0 ~ 99 mins
Noise	≤ 55 dB
Power Supply	AC 110-220V/ 50-60Hz/ 15A
Dimension (H x W x D)	690 x 715 x 430 mm
Packaged Dimension (H x W x D)	875 x 785 x 560 mm
Net Weight	125 kg
Gross Weight	138 kg

# Refrigerated Centrifuge

Select suitable rotor as per your requirement from the list given below:

Rotor Name	Max. Speed (rpm)	Max. Capacity (ml)	Max. RCF (x g)
Swing rotor 01	4000	4 x 800 (Round Cup)	3450
Swing rotor 02	4000	4 x 500 (Round Cup)	3380
Swing rotor 03	4000	4 x 500 (Square Cup)	3310
Microplate rotor 01	4000	4 x 4 x 96 well	2840
		2 x 4 x 96 well	2490
		2 x 3 x 48 well	2300
Swing rotor 04	4000	4 x 40 x 7	3270
		4 x 40 x 5	2890
		4 x 18 x 10	3140
Angle rotor 01	5000	12 x 15	3080
Angle rotor 02	5000	6 x 50	2850
Angle rotor 03	5000	4 x 50	2520
Angle rotor 04	5000	4 x 100	2630
Angle rotor 05	5000	24 x 15	3500
Angle rotor 06	5000	12 x 50	3860
Angle rotor 07	5000	6 x 100	3130
Angle rotor 08	4000	12 x 100	2970

Adapter for 800 ml and 500 ml bucket:

Volume	5 ml	7 ml	10 ml	15 ml	50 ml
800ml (Square Cup)	23pcs/cup	23	19	14	5
500ml (Round Cup)	18pcs/cup	18	14	9	3
500ml (Round Cup)	20pcs/cup	20	16	12	5