



# LABORATORY LINES

## CENTRIFUGES



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## Micro-refrigerated Centrifuge

### Model YR111-5

The centrifugation process in small samples is a very important step in biological applications that ranges from pelleting nucleic acids to isolating proteins from a solution. A refrigerated centrifuge protects the sample's integrity from any heat degradation. A micro-refrigerated centrifuge is the device you need to use to small liquid samples (2ml or less) at a high speed.

#### Refrigerated centrifuge

The centrifuge process consists in separating particles from a solution according to their size, shape, density and viscosity. The centrifugal force is a very crucial technique in biochemistry or biotechnology. In this case, we are presenting you the micro-refrigerated model (also known as microfuge) that meets your research needs. These centrifuges are very common when it comes to small samples separation process. They are the right choice for you when it comes to high-end research needs.

This micro-refrigerated centrifuge's max RCF is 21532g and its maximum speed is 16500rpm. About the control system, this YR111-5 model runs with a microcomputer control, a DC brushless motor, with a stable operation feature, it makes minimum noise and it has a high-speed accuracy. This refrigerated centrifuge works with French Tecumseh Compressor Unit, R404a. This means that this model meets up the environmental standards. Another great feature is that this is a programmable machine, so the operation data can be automatically stored. It also has a LED or LCD display with a touching panel, which makes the operation a lot easier. Other great features about this micro-refrigerated centrifuge are:

- ✓ Self-locking device.
- ✓ Over-speed safety device.
- ✓ Over temperature safety device.
- ✓ Imbalance safety device.
- ✓ Automatic alarm device.
- ✓ The real-time conversation of speed and RCF is very convenient for operation. Finally, this model has 9 acceleration and deceleration level files for you to choose.

About this model's capacity, you should know that the maximum is 1.5 or 2.2mlx35. The temperature setting is from -20 to 40 degrees Celsius. The power supply is AC220V 50Hz 10A and the external dimensions are (LxWxH) 280mmx540mmx300mm with a net weight of 30Kg.



#### Technical performance

- ✓ Microcomputer control, DC brushless motor, stable operation, low noise and high-speed accuracy.
- ✓ Touching panel, programmable operation. The operation data can be set according to demands and stored automatically.
- ✓ LCD display, user-friendly interface, simple and convenient operation.
- ✓ The real-time conversation of Speed and RCF is convenient for operation.
- ✓ It has self-locking device, over-speed safety device, over-temperature safety device, imbalance safety device and automatic alarm device.
- ✓ It has 9 files of acceleration and deceleration level for your choice.
- ✓ Rotor automatic recognition.
- ✓ Pre-programmed option and memory storage function.
- ✓ Silastic sealed ring comfort to GMP. US FDA certificated.



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## Micro-refrigerated Centrifuge

Model YR111-5



Model	YR111-5A	YR111-5
Max Speed	17000r/min	16500r/min
Max RCF	21532xg	
Max Capacity	1.5ml/2.2mlx36	
Speed Accuracy	± 30r/min	
Time Setting	1min~99h59min	
Temperature Setting	- 20 ~ +40 °C	
Temperature Accuracy	±1 °C	
Compressor Unit	French Tecumseh Compressor Unit R134a	
Noise	<65dB (A)	
Power supply	110V/60Hz, 220V/50Hz	
Dimension(LxWxH)	280mmx540mmx300mm	
Packing size(LxWxH)	480mmx670mmx585mm	
Net weight	30kg	



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## Micro-refrigerated Centrifuge

Model YR111-5

### Rotors:



No.1



**Rotor Capacity:** 1.5mlx12  
**Max Speed:** 17000/16500r/min  
**Max RCF:** 192250/18360xg  
**Adapters:** 0.2ml, 0.5ml

No.2



**Rotor Capacity:** 5mlx12  
**Max Speed:** 12000r/min  
**Max RCF:** 10142xg  
**Adapters:** 0.5ml, 1.5ml

No.3



**Rotor Capacity:** 1.5ml/2.2mlx24  
**Max Speed:** 15000r/min  
**Max RCF:** 21532xg  
**Adapters:** 0.2ml, 0.5ml

No.4



**Rotor Capacity:** 1.5ml/2.2mlx36  
**Max Speed:** 12000r/min  
**Max RCF:** 13813xg  
**Adapters:** 0.2ml, 0.5ml

No.5



**Rotor Capacity:** 0.5mlx48  
**Max Speed:** 12000r/min  
**Max RCF:** 10920xg

No.6



**Rotor Capacity:** 3x8x0.2ml  
 for PCR  
**Max Speed:** 15000r/min  
**Max RCF:** 13800xg

No.7



**Rotor Capacity:** 0.5mlx18  
**Max Speed:** 16000r/min  
**Max RCF:** 15300xg



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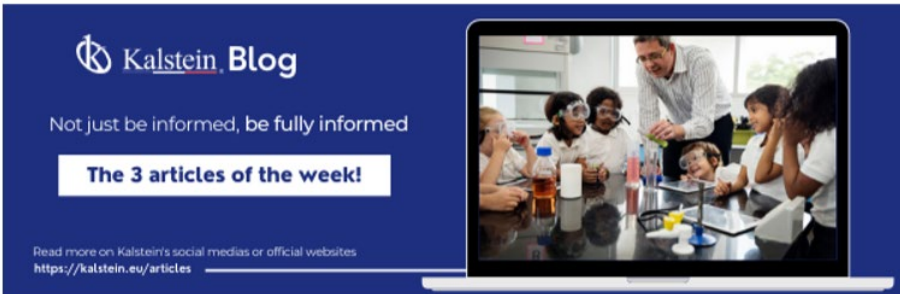
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**1**  
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microscope is an instrument that allows observing and measuring objects that are too small to be seen with the naked eye. This is achieved through a complex system of lenses and mirrors, which form

**Kalstein Blog**

**Article of the week:**  
How does the climate affect your microscope?

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**2**  
Read this ARTICLE NOW



**What is the importance of the laboratory refrigerator?**

refrigerator is a device that is one of the most common pieces of equipment used in laboratories. It is a controlled environment (refrigerated space), various fluids and substances

**Kalstein Blog**

**Article of the week:**  
What is the importance of the laboratory refrigerator?

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