



### High Speed Micro Centrifuge |

High speed micro centrifuges are widely used in physical and chemical analysis, biochemistry, cellular and molecular biology, as well as clinical laboratories. They are also ideal for high-end research applications.

- Sedimentation of cells and viruses.
- Separation of sub-cellular organelles.
- Isolation of macromolecules such as DNA, RNA, proteins or lipids.

### Precise control |

- Brushless DC motor accelerates quickly to the set speed.
- High accuracy of speed at  $\pm 20$  rpm.
- Digital timer adjustable from 30 sec. to 99 min or set for continuous run.
- Timer starts only when the set speed is achieved thus maintains the accuracy of separation time.

### Conforms to international safety standards and regulations |

- ONiLAB centrifuges are compliant with ROHS, CE, cTUVus and FCC requirements. All ONiLAB centrifuges are proven of high level of reliability and confidence according to IEC/ EN 61010-1, and have passed MCA test according to IEC/ EN61010-2-20, including mechanical safety and bio safety tests.
- Quiet operation, high reliability.
- High strength metal casing ensures safety during centrifugal process.
- Dual door interlock design for safety(D3024 & D3024R).
- Gentle braking by slow deceleration for efficient separation.

### Ergonomic design |

- User-friendly large LCD display shows real-time information.
- Set the speed in RPM or RCF ( $\times g$ ).
- The parameters can be modified during running.
- The pulse function starts instantaneously by pressing and holding PULSE key. The centrifuge will accelerate and hold at the target speed.
- The lid lock will be released automatically after centrifuge program (except D3024R) to cool down samples and offer easy access to them.
- Concise display and sound alert.

## D2012 plus High Speed Mini Centrifuge

### Features

- Large LCD display with intuitive menu for quick and easy operational settings.
- Compact design and small foot print.
- Maintenance free motor with a powerful centrifugal force up to 15100xg and max. speed of 15000rpm.
- High efficiency BLDC motor quickly accelerates the rotor to set speed.
- Precise rotation speed and quiet operation with noise level  $\leq 45\text{dB}$ .
- D2012 Plus is not only ROHS, CE, cTUVus and FCC certified, but also passed the most strict mechanical safety test, the MCA test according to IEC/EN61010-2-20.



### Specifications

Specifications	D2012 plus
Speed range	500-15000rpm, increment: 100rpm
RCF range	Up to 15100xg, increment: 100xg
Speed accuracy	$\pm 20\text{rpm}$
Rotor capacity	0.2mL/0.5mL/1.5mL/2mLx12
Time setting range	30sec-99min/Continuous
Motor type	Brushless DC motor
Safety mechanism	Door interlock, Overspeed detection, Overheat detection, Error code runtime display
Power	Single-phase, AC 100V-240V, 50Hz/60Hz, 3A 100W
Noise level	$\leq 45\text{dB}$
Acceleration /Braking time	11s $\uparrow$ /9s $\downarrow$
Dimension[DxWxH]	255x245x140mm
Weight	6kg
Certification	EMC, ROHS, CE, FCC, ICES, cTUVus, CB
Additional features	Speed/RCF switch, Pulse operation (instantaneous centrifugation), Buzzer notification & alert



### Available rotors

Cat. No. 19400010



#### A12-2P

for D2012plus only

Max. speed: 15000rpm  
 Max. RCF: 15100xg  
 Rotor capacity: 2mL/1.5mLx12,0.2mLx12,0.5mLx12  
 Rotor material: high strength plastic  
 Available rotor adapters: A02P2,A05P2

### Available adapters



Cat. No. 19500001

#### A02P2

0.2mL rotor adapter  
 Used with A12-2, A12-2P, AS24-2 and A24-2P rotors  
 24 pcs/pk

Cat. No. 19500002

#### A05P2

0.5mL rotor adapter  
 Used with A12-2,A12-2P, AS24-2 and A24-2P rotors  
 24 pcs/pk





## **D3024** High Speed Micro Centrifuge

### Unique Features

- Microprocessor control with high precision.
- Large LCD digital display with a control knob for parameter settings.
- High performance BLDC motor for fast acceleration/ deceleration.
- Speed is adjustable in both RPM and RCF.
- Triple sealing mechanism of rotor prevents accidental leakage during centrifugal process.
- Five fixed angle rotors are available for use.
- Rotors are fully autoclavable.
- Apply up to 18 × 5.0mL tubes, 24 × 1.5/2.0mL tubes, or 36 × 0.5/0.2mL tubes with adapters.



## D3024R

### Refrigerated High Speed Micro Centrifuge

#### Powerful cooling system for precise temperature control

- Microprocessor control with high precision.
- Large LCD digital display with a control knob for parameter settings.
- High performance BLDC motor for fast acceleration and deceleration.
- Speed is adjustable in both RPM and RCF.
- Inbuilt cooling system with auto lid lock to maintain low temperature within the chamber.
- Sample can be cooled down to 4°C within 7 minutes at maximum speed.
- CFC-free, environmental friendly refrigerants with high energy efficiency.
- Rotors are fully autoclavable at 121°C for 20 minutes and are bio safe.
- Quiet and smooth operation with noise level  $\leq 54$ dB.
- Five(optional) fixed angle rotors are available for use.
  - AS24-2 - 0.2/0.5/1.5/2.0mLx24,
  - AS12-5V - 5mLx12 culture tubes,
  - AS18-5 - 5mLx18,
  - AS36-05 - 0.5/0.2mL x 36,
  - AS4-PCR8 - 0.2mL/PCR8 x 4





Specifications	D3024	D3024R
Speed range	15000rpm(200-15000rpm), increment:10rpm	15000rpm(200-15000rpm), increment:10rpm
Max. RCF	21380xg, increment:10xg	21380xg, increment: 10xg
Speed accuracy	±20 rpm	±20 rpm
Temperature range	-	-20°C-40°C
Rotor capacity	5mLx18, 5mL culture tubex12 0.2mL/0.5mL/1.5mL/ 2mLx24, 0.5mLx36, PCR8x4	5mLx18, 5mL culture tubex12 0.2mL/0.5mL/1.5mL/ 2mLx24, 0.5mLx36, PCR8x4
Time setting range	30sec-99min/Continuous	30sec-99min/Continuous
Motor type	Brushless DC motor	Brushless DC motor
Safety mechanism	Dual door interlock, Over-speed detection, Error code runtime display	Dual door interlock, Overspeed detection, Overheat detection, Error code runtime display
Power	Single-phase, AC200V-400V, 50Hz/60Hz, 5A, AC100V-120V, 50Hz/60Hz, 8A 200W	Single-phase, AC200V-240V, 50Hz/60Hz, 10A, AC100V-120V, 50Hz/60Hz, 10A 400W
Acceleration /Braking time [Sec]	25s ↑ 25s ↓	25s ↑ 25s ↓
Dimension[WxDxH]	280x364x266mm	338x580x324mm
Weight	12kg	30kg
Certification	ROSH CE cTUVus FCC MCA	ROSH CE cTUVus FCC MCA
Advanced features	Speed/RCF switch; Pulse operation (instantaneous centrifuge); Buzzer notification & alert	Speed/RCF switch; Pulse operation (instantaneous centrifuge); Buzzer notification & alert
Noise level	≤64dB	≤56dB



## Rotor Features |

### Fully autoclavable

High strength aluminum alloy rotors are fully autoclavable, at 121°C for 20 minutes, with extended life.

### Bio-safety

D3024 & D3024R rotors are designed to prevent sample leakage. Each rotor is hermetically sealed by three rubber seals.

### Mechanical safety

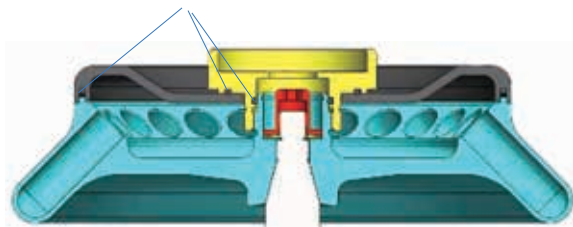
ONiLAB centrifuges have passed the MCA (maximum credible accident) test according to IEC/EN61010-2-20. The test confirms that in the event of an accident caused by partially cutting or overloading rotor assembly, no fragments are expelled from the centrifuge to cause danger to person or the environment.

ONiLAB rotors are made of military grade aluminum alloy with high mechanical strength for precise control and safety.

- All rotors can reach a max. speed of 15000rpm.
- Rotors are seated on a tapered shaft, concentric and self-aligning, perfect to achieve running stability at high speeds.
- Bio-safe rotors for D3024 & D3024R prevent accidental sample leakage and keep the centrifugal process free from microbial contamination risk.
- Powerful ventilation system minimizes rotor heating. D3024 rotors heat up less than 10 °C after running for an hour.



Three rubber seals fitted to achieve bio-safe condition



Seals within the aluminum alloy rotor



## Available rotors

Cat. No. 19400006



### AS24-2

for D3024 & D3024R

Max. speed: 15000rpm  
 Max. RCF: 21380×g  
 Rotor capacity: 2mL/1.5mL×24/0.2mL×24/0.5mL×24  
 Rotor material: aluminum alloy  
 Bio-safe sealing: yes  
 Available rotor adapters: A02P2,A05P2

Cat. No. 19400032



### AS12-5V

for D3024 & D3024R

Max. speed: 15000rpm  
 Max. RCF: 21380×g  
 Rotor capacity: 5mL×12( cone bottom )  
 Rotor material: aluminum alloy  
 Bio-safe sealing: yes

Cat. No. 19400007



### AS36-05

for D3024 & D3024R

Max. speed: 15000rpm  
 Max. RCF: 21380×g  
 Rotor capacity: 0.5mL×36,0.2mL×36  
 Rotor material: aluminum alloy  
 Bio-safe sealing: yes  
 Available rotor adapters: A02P05

Cat. No. 19400008



### AS4-PCR8

for D3024 & D3024R

Max. speed: 15000rpm  
 Max. RCF: 21380×g  
 Rotor capacity: 0.2mL/PCR8×4  
 Rotor material: aluminum alloy  
 Bio-safe sealing: yes



Cat. No. 19400012



**AS18-5**

for D3024 & D3024R

- Max. speed :15000rpm
- Max. RCF:21380×g
- Rotor capacity:5mLx18 ( round botton )
- Rotor material:aluminum alloy
- Bio-safe sealing:yes

**Available adapters**



**A02P2**

Cat. No. 19500001

0.2mL rotor adapter  
Used with A12-2, A12-2P, AS24-2 and A24-2P rotors  
24pcs/pk

**A05P2**

Cat. No. 19500002

0.5mL rotor adapter  
Used with A12-2, A12-2P, AS24-2 and A24-2P rotors  
24pcs/pk

**A02P05**

Cat. No. 19500003

0.2mL rotor adapter  
Used with AS36-05 rotor  
36pcs/pk



## Hematocrit Centrifuges

Hematocrit centrifuges are used to measure the ratio of volume of RBC to whole blood. The information is useful in diagnosis of anemia. Hematocrit centrifuges are widely used in biochemistry, microbiology, blood separation, immunogenetics, etc.

### DM1424

#### Hematocrit Centrifuge

##### Features

- Adjustable speed up to 14000rpm or 19620xg.
- High performance BLDC motor.
- High precision microprocessor control of speed and time.
- Intuitive LCD digital display.
- Pulse operation for instantaneous centrifuge applications.
- Two optional fixed angle rotors are available.  
A24-2P(Tube rotor) - 2mL/1.5mLx24,0.2mLx24,0.5mLx24  
AC24(Hematocrit rotor) - Capillary tubes x24



**Specifications**
**DM1424**

Speed range	200-14000rpm, increment: 10rpm
Max. RCF	18620×g
Speed accuracy	±20
Rotor capacity	2 type
Time setting range	30sec-99min/Continuous
Motor type	Brushless DC motor
Display	LCD
Safety mechanism	Door interlock, Overspeed detection; Overheat detection, Error code runtime display, Automatic rotor identification
Acceleration/Braking time	30s ↑ 30s ↓
Power	Single-phase, 200V-240V,50Hz/60Hz, 5A; 100V-120V,50Hz/60Hz, 5A 500W
Dimension[WxDxH]	280×364×266mm
Weight	10kg
Certification	ROSH CE FDA cTÜVus FCC MCA IVD
Additional features	Speed/RCF switch; Pulse operation (instantaneous centrifuge); Buzzer notification & alert



## Available rotors

Cat. No. 19400013



### A24- 2P DM1424

Max. speed: 14000rpm  
 Max. RCF: 18620×g  
 Rotor capacity: 2mL/1.5mL×24,0.2mL×24,0.5mL×24  
 Rotor material: high strength plastic  
 Available rotor adapters: A02P2,A05P2,A10P15 & Mat

Cat. No. 19400046



### AC24 DM1424

Max. speed: 12000rpm  
 Max. RCF: 13680×g  
 Rotor capacity: capillary tubes x24  
 Rotor material: high strength aluminum

## Available adapters



### A02P2

Cat. No. 19500001

2mL to 0.2mL rotor adapter, used with A12-2, A12-2P, AS24-2 and A24-2P rotors, 24pcs/pk

### A05P2

Cat. No. 19500002

2mL to 0.5mL rotor adapter, used with A12-2, A12-2P, AS24-2 and A24-2P rotors, 24pcs/pk

### A02P05

Cat. No. 19500003

Rotor adapter, used with A12-10P, 12pcs/pk