



## CENTRIFUGES CATALOG

**OPTIKA<sup>®</sup>**  
I T A L Y

Practical Solutions for Sample Separation

# Elevate Your Daily Lab Routine

## QUALITY EXCELLENCE

In-house manufacturing of all the key components, including all metalwork, rotors, and motors, within our own ISO 13485 and 9001 certified facilities allows us to maintain stringent quality control over every aspect of production, ensuring that each centrifuge meet high standards. By overseeing the process of producing centrifuges from start to finish, we embody our dedication to excellence in quality.



## SAFETY FIRST

Centrifuges are crucial, daily-use instruments operating at high RPMs, we put user safety before anything. By adhering to international CE regulations, we ensure comprehensive electrical and mechanical safety in every OPTIKA centrifuge. Additionally, our selectable third-party certified aerosol-tight rotors and buckets are designed to prevent the leakage of hazardous samples, offering an extra layer of protection for users.



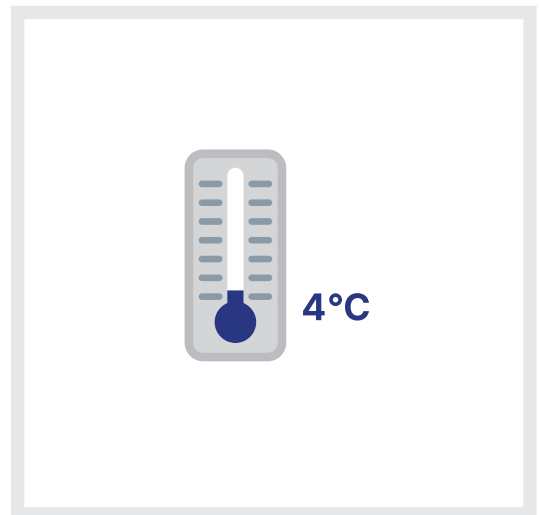
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### ENHANCE YOUR RESULT

OPTIKA's refrigerated centrifuges are, equipped with advanced cooling systems from leading global brands. Essential for temperature-sensitive samples, these centrifuges preserve the integrity of live cells and prevent protein denaturation, ensuring reliable research outcomes.

Designed for durability and continual operation, they meet the demands of high-throughput labs and improve workflow efficiency

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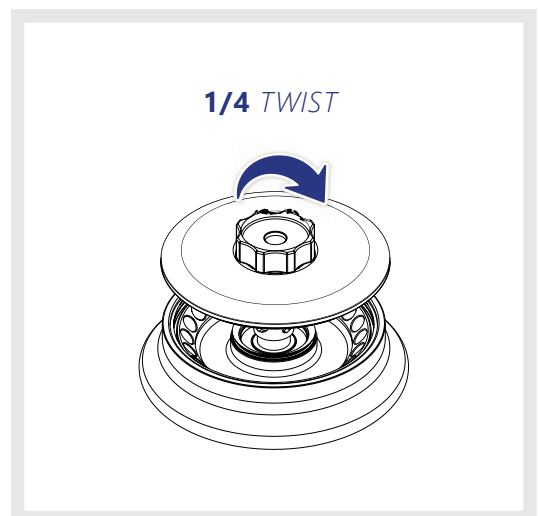





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### DESIGNED FOR EFFICIENCY

Microcentrifuge models are equipped with an easy lock mechanism that secures the rotor with a simple quarter twist, and the 1696R II model features a Snap-On bucket lid. These user-friendly designs minimize wrist strain, making them productive for highthroughput laboratories engaged in repetitive work.

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	Microcentrifuges				
	 <b>mini 6</b>	 <b>mini</b>	 <b>OT-M15S</b>	 <b>OT-M15R</b>	 <b>OT-1848R</b>
Max. RPM / Fixed angle	6,500 rpm	13,500 rpm	15,000 rpm	15,000 rpm	18,000 rpm
Max. RPM / Swing-out	-	-	-	-	13,000 rpm
Max. RCF / Fixed angle	2,234 xg (1.5/2.0 mL tube) 1,412 xg (PCR strip)	12,300 x g	21,206 xg	21,583 xg	30,356 x g
Max. RCF / Swing-out	-	-	-	-	16,438 x g
Max. capacity / Fixed angle	6 x 1.5/2.0 mL 2 PCR strips	12 x 1.5 / 2.0 mL	24 x 1.5/2.0 mL	24 x 1.5/2.0 mL	48 x 1.5 / 2.0 mL
Max. capacity / Swing-out	-	-	-	-	6 x 4 x 1.5 / 2.0 mL
Settable Min. RPM	-	1,200	400	400	300
Speed accuracy	±10%	±2%	±2%	±2%	±2%
RCF/RPM conversion	±10%	Yes	Yes	Yes	Yes
Temperature range (°C)	-	-	-	-10°C to 40°C	-12°C to 40°C
FAST cool button	-	-	-	Yes	Yes
Key lock function	-	-	-	-	Yes
Time control	Selectable, Short (12 sec) or Continuous (15 min)	Pulse or timed ≤30 min	Pulse, Timed < 100 min or continuous		Pulse, timed < 10 hr or continuous
Time counting	-	From starting	Selectable, at set speed or from starting		
Noise level (dependent on rotor)	≤56 dB	≤56 dB	< 60 dB	< 60 dB	≤60 dB
ACC/DEC ramps	-	-	9/10	9/10	9/10
Program memory	-	-	10	10	100
Rotor identification	-	-	N / Dedicated rotor	Manual	Automatic
Imbalance cutout	-	-	Yes	Yes	Yes
Safety lid lock	-	Yes	Yes	Yes	Yes
Motorized door open & close	-	-	-	-	Yes
Power supply (V/Hz)	100-230V, 50/60Hz	220-230V~, 50/60Hz (110V 60Hz optional)			
Power Requirement	7W	110VA	500VA	2.5 kVA	2.0 KVA
Dimension (W x D x H, mm)	150 x 150 x 103	208 x 245 x 145	293 x 380 x 242	285 x 593 x 281	380 x 654 x 312
Weight without rotor	650 g	4.4 kg	15 kg	33 kg	53.5 kg
Cat. No.	-	OT-1312	OT-M15S	OT-M15R	OT-1848R

Multi-purpose Centrifuges				
				
<b>OT-1248</b>	<b>OT-1248R</b>	<b>OT-1580</b>	<b>OT-1580R</b>	<b>OT-1696R</b>
12,000 rpm	12,000 rpm	15,000 rpm	15,000 rpm	16,000 rpm
5,000 rpm	5,000 rpm	5,000 rpm	5,000 rpm	5,000 rpm
16,582 x g	16,582 x g	24,249 x g	25,910 x g	27,991 xg
5,394 x g	5,394 x g	5,394 x g	5,394 x g	5,394 xg
6 x 85mL	6 x 85mL	6 x 85mL	6 x 250 mL	6 x 250 mL
4 x 250 mL	4 x 250 mL	4 x 750 mL	4 x 750 mL	4 x 1,000 mL
500	500	500	500	300
±2%	±2%	±2%	±2%	±0.1%
Yes	Yes	Yes	Yes	Yes
	-20°C to 40°C		-10°C to 40°C	-11°C to 40°C
	Yes		Yes	Yes
Yes	Yes	Yes	Yes	Yes
Pulse, Timed < 100 min or continuous	Pulse, Timed < 10 hr or continuous	Pulse, timed < 100 min or continuous	Pulse, Timed < 10 hr or continuous	Pulse, Timed < 10 hr or continuous
Selectable, at set speed or from starting				
≤60 dB	≤60 dB	≤60 dB	≤60 dB	<70 dB
9/10	9/10	9/10	9/10	9/10
100	100	100	100	100 (3 Direct Program Save/Call button)
Automatic	Automatic	Automatic	Automatic	Automatic
Yes	Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes
220-230V~, 50/60Hz (110V 60Hz optional)				220-230V, 60Hz (220~230V, 50Hz, 110V 60Hz optional)
900VA	2.5KVA	1.5KVA	2.5KVA	2KVA
475 x 561 x 330	655 x 620 x 357	540 x 650 x 380	770 x 650 x 390	775 x 695 x 395
40 kg	78 kg	57 kg	93 kg	132
OT-1248	OT-1248R	OT-1580	OT-1580R	OT-1696R

	High Speed, High Capacity, Floor standing Centrifuges		Low Speed Centrifuges			Clinical Use Centrifuges
						
	<b>S12R</b>	<b>S22R</b>	<b>T04</b>	<b>T04B</b>	<b>T05R</b>	<b>GZ-416</b>
Max. RPM / Fixed angle	12,000 rpm	22,000 rpm	4,000 rpm	4,000 rpm	5,000 rpm	4,000 rpm
Max. RPM / Swing-out	-	-	-	4,000 rpm	5,000 rpm	4,000 rpm
Max. RCF / Fixed angle	22,265 xg	52,001 xg	2,075 x g	2,773 x g	3,983 x g	2,700 x g
Max. RCF / Swing-out	-	-	-	2,774 x g	4,218 x g	2,826 x g
Max. capacity / Fixed angle	6 x 1,000 mL	4 x 1,000 mL	12 x vacuum tube	10 x 50 mL	10 x 50 mL	16 x 15 mL, 10 x 50 mL
Max. capacity / Swing-out	-	-	-	4 x 100 mL	4 x 100 mL	4 x 100 mL
Settable Min. RPM	400	400	500	400	400	500
Settable Min. RPM	±2%	±2%	±2%	±2%	±2%	±2%
RCF/RPM conversion	Yes	Yes	Yes	Yes	Yes	Yes
Temperature range (°C)	-10°C to 40°C	-10°C to 40°C	-	-	-10°C to 40°C	-
FAST cool button	Yes	Yes	-	-	Yes	-
Key lock function	Yes	Yes	-	Yes	Yes	-
Time control	Pulse, Timed < 10 hr or continuous		Pulse, timed < 100 min or continuous	Pulse, Timed < 10 hr or continuous		Pulse, timed < 100 min or continuous
Time counting	Selectable, At Set Speed Or From Starting		From Starting	Selectable, at set speed or from starting		From Starting
Noise level (dependent on rotor)	≤ 65 dB	≤ 65 dB	< 52 dB	< 60 dB	< 60 dB	< 52 dB
ACC/DEC ramps	10/10 steps	10/11 steps	-	9/10 steps	9/10 steps	-
Program memory	100	100	30	100	100	10
Rotor identification	Automatic	Automatic	-	manual	Automatic	-
Imbalance cutout	Automatic	Automatic	Yes	Yes	Yes	Yes
Safety lid lock	Automatic	Automatic	Yes	Yes	Yes	Yes
Motorized door open & close	Automatic	Automatic	-	-	-	-
Power supply (V/Hz)	220-230V~, 50/60Hz (110V 60Hz optional)	220-230V, 60Hz (220~230V, 50Hz, 110V 60Hz optional)	210~240 V, 50/60Hz (110V 60Hz optional)			230V, 50Hz (220~230V, 60/50Hz, 110V optional)
Power Requirement (VA)	3.0 kW	4.6 kVA	140VA	340VA	900 VA	340VA
Dimension (W x D x H, mm)	668 x 800 x 891/805	681 x 795 x 920	296 x 408 x 213	375 x 506 x 265	584 x 554 x 313	375 x 335 x 317
Weight without rotor	230 kg	247 kg	15 kg	25.7 kg	65.7 kg	19.5 kg
Cat. No.	OT-S12R	OT-S22R	OT-T04	OT-T04B	OT-T05R	GZ-416(IVD)



**RPM/RCF Conversion**

One touch conversion of RPM and g-force.



**Fast Cool**

Pre-cooling to 4°C before running for temperature-sensitive samples.



**Rotor ID**

Limit the setting of RPM above the maximum by automatic rotor identification.



**Up to 100 or 10 Program Memory**

Enables to store different parameter settings.



**Motorized Lid Mechanics**

Prevents unintentional opening of the lid and makes the lid easy to close.



**Short Spin (Pulse)**

Separate button for pulse function.



**Lid Drop Protection**

Provides easy and safe loading and unloading of sample.



**At Set Speed Time Mode**

Time counting button from set speed or starting.



**Automatic Lid Opening**

Visualizes the end of the run by lid opening.



**ACC/DEC Rate Control**

Different speed rate settings of acceleration (9 steps) / deceleration. (10 steps)



**Bio-Safe Accessories**

Certified aerosol tightness for safe centrifugation of hazardous sample.



**Variety of Rotors, Buckets, and Adaptors**

Wide range of rotors, buckets, and adaptors for various applications.



**Intuitive Control Pad with Numeric Input**

Easy setting and editing of run parameters.user environments.



**Soft Touch Keypad**

Sensible for both hand and glove.

# mini

## Micro Centrifuge

The mini centrifuge is a personal minifuge for individual workstations



### Features

- Supplied with an 12 x 2.0 mL, autoclavable, anodized aluminum rotor and click-seal plastic lid.
- Automatic rpm/rcf conversion
- Automatic lid opening function, at the completion of a run, serves to both indicate the end of the process and to prevent sample warming
- Lid drop protection design allows easiness and safety when loading or unloading samples.

### Technical Specifications

	mini
Max. RPM	13,500 rpm
Max. RCF	12,300 x g
Max. capacity	12 x 1.5 / 2.0 mL
Settable Min. RPM	1,200
RCF/RPM conversion	Yes
Time control	Pulse or timed ≤30 min
Time counting	From starting
Noise level (dependent on rotor)	≤56 dB
Safety lid lock	Yes
Power supply (V/Hz)	220-230V~, 50/60Hz (110V 60Hz optional)
Power Requirement (VA)	110VA
Dimension (W x D x H, mm)	208 x 245 x 145
Weight without rotor	4.4 kg
Cat. No.	OT-1312

## Fixed Angle Rotor GRF-m2.0-12

- Capacity : 12 x 1.5 / 2.0 mL
- Max. RPM : 13,500
- Max. RCF : 12,300 xg
- Autoclaveable PP snap-fit lid rotor
- Supplied with centrifuge



### Adaptors

Tube type (mL)	Max. RCF (xg)	Adaptor Cat. No.
0.5	10,290	GAS-m0.5(2)
0.2	8,863	GAS-m0.2(2)

## Fixed Angle Rotor GRF-m2.0-12-b

- Capacity : 12 x 1.5 / 2.0 mL
- Max. RPM : 13,500
- Max. RCF : 12,300 xg
- Anodized aluminum screw lid rotor



### Adaptors

Tube type (mL)	Max. RCF (xg)	Adaptor Cat. No.
0.5	10,290	GAS-m0.5(2)
0.2	8,863	GAS-m0.2(2)

## Fixed Angle Rotor GRF-m1.8-10

- Capacity : 10 x 1.8 mL Cryotube
- Max. RPM : 13,500
- Max. RCF : 12,300 xg
- Autoclaveable PP snap-fit lid rotor



## Angle Rotor GRA-s0.2-32

- Capacity : 4 x 8-Tube PCR strips, 32 x 0.2 mL
- Max. RPM : 6,000
- Max. RCF : 1,850 xg

