OT-T04B / OT-T05R

Low Speed Centrifuges

The OT-T04B and OT-T05R are clinical centrifuges designed for general laboratory use, both accommodating up to 32 blood tubes per run. While the OT-T04B features an air-ventilated system for standard applications, the OT-T05R offers a refrigerated function to ensure temperature stability for sensitive samples.





R model

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Features

- Bio-seal buckets (Public Health England Porton Down) are available as options to ensure aerosol-tight operation for hazardous samples.
- Automatic RPM/RCF conversion and a "Pulse" key for quick spins facilitate efficient sample processing.
- Intuitive control interface with numeric input buttons allows for effortless setting and modification of running conditions.
- Key lock function ensures that set parameters remain secure during operation.
- Lid drop protection design provides enhanced safety and convenience during sample loading and unloading.
- Selectable "At set speed" time mode counts the run time only once the target speed is reached.
- Automatic lid opening at the end of a run serves to signal process completion and prevent sample warming. (T04B)
- Integrated cooling system offers a temperature range from -10°C to 40°C. (T05R)
- "Fast Cool" function chills the chamber from room temperature to 4°C within 5 minutes for rapid startup. (T05R)
- Compressor-off function when the lid is open minimizes unnecessary cooling and frosting. (T05R)

Technical Specifications

Model Name	OT-T04B	OT-T05R
Max. RPM / Fixed angle	4,000 rpm	5,000 rpm
Max. RPM / Swing-out	4,000 rpm	5,000 rpm
Max. RCF / Fixed angle	2,773 x g	3,983 x g
Max. RCF / Swing-out	2,774 x g	4,218 x g
Max. capacity / Fixed angle	10 x 50 mL	
Max. capacity / Swing-out	4 x 100 mL	
Settable Min. RPM	400	
RCF/RPM conversion	Yes	
Temperature range (°C)	-	-10°C to 40°C
FAST cool button	-	Yes
Key lock function	Yes	
Time control	100 min	Pulse, Timed < 100 hr or continuous
Time counting	Selectable, at set speed or from starting	
Noise level (dependent on rotor)	< 60 dB	< 60 dB
ACC/DEC ramps	9/10 steps	9/10 steps
Program memory	100	100
Rotor identification	Manual	Automatic
Imbalance cutout	Yes	Yes
Safety lid lock	Yes	Yes
Power supply (V/Hz)	210~240 V, 50/60Hz (110V 60Hz optional)	
Power Requirement (VA)	340VA	900 VA
Dimension (W x D x H, mm)	375 x 506 x 265	584 x 554 x 313
Weight without rotor	25.7 kg	65.7 kg
Cat. No.	OT-T04B / OT-T05R	OT-T04B / OT-T05R

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Angle Rotor

AO-50-10 OT-T04B | A-50-10 OT-T05R



- Capacity : 10 x 50 mL or 50 mL Conical
- Max. RPM / RCF
  T04B : 4,000 / 2,549 xg
  T05R : 5,000 / 3,983 xg

Adaptors

Tube type (mL)	Max. RCF (xg)		Adaptor Cat. No.
	OT-T04B	OT-T05R	
50 conical	2,549	3,983	TR50c(50f)
30	2,415	3,773	TR30(50f)
25 conical	2,057	3,214	TR25c(50f)
15 conical	2,538	3,966	TR15(50f)
14	2,538	3,966	TR14(50f)

Angle Rotor

AO-50C-10 OT-T04B | A-50C-10 OT-T05R



- Capacity : 10 x 50 mL or 50 mL Conical
- Max. RPM / RCF
  T04B : 4,000 / 2,549 xg
  T05R : 5,000 / 3,983 xg

Adaptors

Tube type (mL)	Max. RCF (xg)		Adaptor Cat. No.
	OT-T04B	OT-T05R	
50	2,435	3,804	TR50(50c)
30	2,424	3,787	TR30(50c)
25 conical	2,057	3,214	TR25c(50c)
15 conical	2,497	3,902	TR15c(50c)

Angle Rotor

AO-15-24 OT-T04B | A-15-24 OT-T05R



- Capacity : 24 x Vacuum tube or 15 mL
- Max. RPM / RCF
  T04B : 4,000 / 2,773 xg
  T05R : 4,500 / 3,509 xg

Adaptors

Tube type (mL)	Max. RCF (xg)		Adaptor Cat. No.
	OT-T04B	OT-T05R	
14	2,549	3,226	TR14(15f)
5 conical	2,170	2,746	TR5c(15f)
Φ13 x 100 mm VT	2,733	3,459	TR5(15f)
Φ13 x 75 mm VT	2,367	2,995	TR3(15f)

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Swing-out Rotor

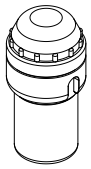
SO-100-4 OT-T04B | S-100-4 OT-T05R



- Capacity : 4 x Buckets
- Max. RPM / RCF
  T04B : 4,000 / 2,774 xg
  T05R : 4,500 / 3,511 xg

100 mL Bio-safe Bucket with a Cap

BB100b-100



- Max. RPM / RCF
  OT-T04B : 4,000 / 2,774 xg
  OT-T05R : 4,500 / 3,511 xg
- Hole bottom type : Flat

* Cannot use cap sealing

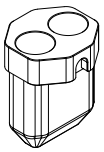
Adaptors

Tube type (mL)	Max. tube capacity per rotor	Max. RCF (xg)		Adaptor Cat. No.
		OT-T04B	OT-T05R	
100 *	4	2,685	3,398	TR100(100)
85	4	2,739	3,466	TR85(100)
50 conical(Skirt)	4	2,721	3,443	TR50sc(100)
50 conical	4	2,773	3,515	TR50c(100)
25 conical	4	2,164	2,744	
50	4	2,739	3,466	TR50(100)
30	4	2,739	3,466	TR30(100)

Tube type (mL)	Max. tube capacity per rotor	Max. RCF (xg)		Adaptor Cat. No.
		OT-T04B	OT-T05R	
15 conical *	12	2,744	3,479	TR15c-3(100)
5 conical *	12	1,760	2,231	
15 conical	4	2,774	3,511	TR15c(100)
15 *	12	2,721	3,443	TR15-3(100)
Φ16 x 100 mm VT	20	2,685	3,398	TR10-5(100)
Φ13 x 75~100 mm VT	20	2,685	3,398	TR7-5(100)
1.5 / 2.0	24	2,685	3,398	TR2-6(100)

Dual 50 mL Conical Bucket

GLB-dc50-100



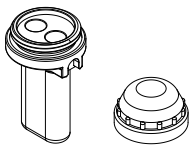
- Max. RPM / RCF
  OT-T04B : 4,000 / 2,774 xg
  OT-T05R : 4,500 / 3,511 xg
- Hole bottom type : Conical

Adaptors

Tube type (mL)	Max. tube capacity per rotor	Max. RCF (xg)		Adaptor Cat. No.
		OT-T04B	OT-T05R	
50	8	2,588	3,276	TR50(50c)
30	8	2,592	3,280	TR30(50c)
25 conical	8	2,102	2,660	TR25c(50c)
15 conical	8	2,774	3,511	TR15c(50c)

Dual 15 mL Conical Bio-safe Bucket with a Cap

BBd15cb-100



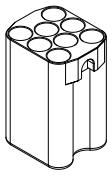
- Max. RPM / RCF
  OT-T04B : 4,000 / 2,774 xg
  OT-T05R : 4,500 / 3,511 xg
- Hole bottom type : Conical

Adaptors

Tube type (mL)	Max. tube capacity per rotor	Max. RCF (xg)		Adaptor Cat. No.
		OT-T04B	OT-T05R	
14	8	2,352	2,977	TR14(15c)
5 conical	8	1,746	2,210	TR5c(15c)

8 x Vacuum tube Bucket

B15-8-100



- Max. RPM / RCF
  OT-T04B : 4,000 / 2,719 xg
  OT-T05R : 4,500 / 3,441 xg
- Hole bottom type : Flat

Adaptors

Tube type (mL)	Max. tube capacity per rotor	Max. RCF (xg)		Adaptor Cat. No.
		OT-T04B	OT-T05R	
14	32	2,513	3,181	TR14(15f)
5 conical	32	2,003	2,536	TR5c(15f)
Φ13 x 100 mm VT	32	2,719	3,441	TR5(15f)
Φ13 x 75 mm VT	32	2,236	2,830	TR3(15f)

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Swing-out Rotor

SO-50-4 OT-T04B | S-50-4 OT-T05R

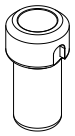
- Capacity : 4 x Buckets
- Max. RPM / RCF
  OT-T04B : 4,000 / 2,700 xg
  OT-T05R : 5,000 / 4,218 xg



50 mL Bucket

B50-50

- Max. RPM / RCF
  OT-T04B : 4,000 / 2,700 xg
  OT-T05R : 5,000 / 4,218 xg
- Hole bottom type : Flat



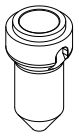
Adaptors

Tube type (mL)	Max. tube capacity per rotor	Max. RCF (xg)		Adaptor Cat. No.
		OT-T04B	OT-T05R	
50 conical	4	2,700	4,218	TR50c(50f)
30	4	2,583	4,036	TR30(50f)
25 conical	4	2,107	3,293	TR25c(50f)
15 conical	4	2,700	4,218	TR15(50f)
14	4	2,700	4,218	TR14(50f)

50 mL Conical Bucket

B50c-50

- Max. RPM / RCF
  OT-T04B : 4,000 / 2,700 xg
  OT-T05R : 5,000 / 4,218 xg
- Hole bottom type : Conical



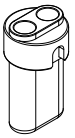
Adaptors

Tube type (mL)	Max. tube capacity per rotor	Max. RCF (xg)		Adaptor Cat. No.
		OT-T04B	OT-T05R	
50	4	2,513	3,927	TR50(50c)
30	4	2,517	3,933	TR30(50c)
25 conical	4	2,027	3,167	TR25c(50c)
15 conical	4	2,700	4,218	TR15c(50c)
14	4	2,700	4,218	TR14(50f)

Dual 15 mL Bucket

Bd15-50

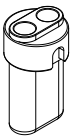
- Max. RPM / RCF
  OT-T04B : 4,000 / 2,700 xg
  OT-T05R : 5,000 / 4,218 xg
- Hole bottom type : Round



Dual 15 mL Conical Bucket

Bd15c-50

- Max. RPM / RCF
  4,000 / 2,700 xg
  OT-T04B : 4,000 / 2,700 xg
  OT-T05R : 5,000 / 4,218 xg
  Hole bottom type : Conical



Adaptors

Tube type (mL)	Max. tube capacity per rotor	Max. RCF (xg)		Adaptor Cat. No.
		OT-T04B	OT-T05R	
14	8	2,277	3,558	TR14(15c)
5 conical	8	1,671	2,611	TR5c(15c)

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Swing-out Rotor

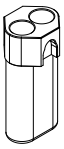
SO-15-6 OT-T04B | S-15-6 OT-T05R



- Capacity : 6 x Buckets
- Max. RPM / RCF
  T04B : 4,000 / 2,737 xg
  T05R : 4,400 / 3,312 xg

Dual 15 mL Bucket

Bd15-15



- Max. RPM / RCF
  T04B : 4,000 / 2,737 xg
  T05R : 4,400 / 3,312 xg
- Hole bottom type : Flat

Adaptors

Tube type (mL)	Max. tube capacity per rotor	Max. RCF (xg)		Adaptor Cat. No.
		OT-T04B	OT-T05R	
Φ13 x 100 mm VT	12	2,737	3,312	TR5(15f)
Φ13 x 75 mm VT	12	2,164	2,727	TR3(15f)

Swing-out Rotor

SO-mw-2 OT-T04B | S-mw-2 OT-T05R



- Capacity : 2 x Microplates
- Max. RPM / RCF : 4,000 / 2,000 xg

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