OT-S12R / OT-S22R

High Speed, High Capacity, Floor standing Centrifuges

The OT-S12R and OT-S22R are high-throughput, floor-standing refrigerated centrifuges designed for professional-grade high-speed separation. The OT-S12R supports large-volume processing of up to six 1 L bottles, while the OT-S22R offers superior high-speed performance, reaching up to 22,000 RPM (52,001 xg) for various laboratory applications.





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Features

· A dedicated large indication lamp enabling efficient and accurate operational monitoring from a distance

· 7" touchscreen display for inuitive UI showing simultaneous display of all operational parameters of set and actual figures

· Automatic rpm/rcf conversion

· Compressor-off function when lid is open minimizes unnecessary cooling and frosting.

· Temperature range from -10°C to 40°C

· 'Fast cool' function, R.T. to 4°C for fast start up of cooled samples

· Selectable time mode of "at set SPEED" for counting running time only when reached the set speed

· A separate "PULSE" key for quick spin

· Intuitive control interface with numeric input buttons allows easy setting and editing of running conditions.

· Key lock function helps the set parameters secured during operation.

· Lid drop protection design allows easiness and safety when loading or unloading samples.

Technical Specifications

Model Name	OT-S12R	OT-S22R
Max. RPM / Fixed angle	12,000 rpm	22,000 rpm
Max. RCF / Fixed angle	22,265 xg	52,001 xg
Max. capacity / Fixed angle	6 x 1,000 mL	4 x 1,000 mL
Settable Min. RPM	400	
RCF/RPM conversion	Yes	
Temperature range (°C)	-10°C to 40°C	
Time control	Pulse, Timed < 100 hr or continuous	
Time counting	Selectable, At Set Speed Or From Starting	
Noise level (dependent on rotor)	≤ 65 dB	
ACC/DEC ramps	10/10 steps	10/11 steps
Program memory	100	
Rotor identification	Automatic	
Imbalance cutout	Automatic	
Safety lid lock	Automatic	
Motorized door open & close	Automatic	
Power supply (V/Hz)	220-230V~, 50/60Hz	220-230V, 60Hz
Power Requirement (VA)	3.0 kW	4.6 kVA
Dimension (W x D x H, mm)	668 x 800 x 891/805	681 x 795 x 920
Weight without rotor	230 kg	247 kg
Cat. No.	OT-S12R	OT-S22R

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Fixed Angle Rotor

A1000-6T **OT-S12R Only**

- Capacity : 6 x 1,000 mL
- Max. RPM : 7,000
- Max. RCF : 10,962



Adaptors

Tube type (mL)	Max. RCF (xg)	Adaptor Cat. No.
500	10,184	TR500(1000)
250	9,127	TR250(1000)

Fixed Angle Rotor

A1000-4T

- Capacity : 4 x 1,000 mL
- Max. RPM : 8,000
- Max. RCF : 12,157



Adaptors

Tube type (mL)	Max. RCF (xg)	Adaptor Cat. No.
500	11,141	TR500(1000)
250	9,760	TR250(1000)

Fixed Angle Rotor

A500-6

- Capacity : 6 x 500 mL
- Max. RPM : 10,000
- Max. RCF : 17,743



Adaptors

Tube type (mL)	Max. RCF (xg)		Adaptor Cat. No.
	OT-S12R	OT-S22R	
250	15,540	12,588	TR250(A500)

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Fixed Angle Rotor

A250-6

- Capacity : 6 x 250 mL
- Max. RPM : 12,000
- Max. RCF : 22,265 xg



Adaptors

Tube type (mL)	Max. capacity per Rotor	Max. RCF (xg)	Adaptor Cat. No.
100	6	20,044	TR100(250)
85	6	19,722	TR85(250)
50 conical(Skirt)	6	20,124	TR50sc(250)
50 conical	6	19,158	TR50c(250)
50	12	19,319	TR50-2(250)
30	18	21,331	TR30-3(250)
25 conical	6	19,319	TR25c(250)

Tube type (mL)	Max. capacity per Rotor	Max. RCF (xg)	Adaptor Cat. No.
15 conical	24	21,090	TR15c-4 (250)
15	24	21,492	TR15-4(250)
Φ16 x 100 mm VT	42	21,492	TR10-7(250)
Φ13 x 75~100 mm VT	48	21,814	TR7-8(250)
5 conical	24	21,090	TR5c-4(250)
1.5 / 2.0	54	21,734	TR2.0-9(250)

Fixed Angle Rotor

A85-6 **OT-S22R Only**

- Capacity : 6 x 85 mL
- Max. RPM : 20,000
- Max. RCF : 43,647 xg



Adaptors

Tube type (mL)	Max. RCF (xg)	Adaptor Cat. No.
50 conical	41,590	TR50c(85)
50	41,545	TR50(85)
30	40,964	TR30(85)
25 conical	35,910	TR25c(85)
15 conical	39,890	TR15c(85)
15	39,801	TR15(85)

Fixed Angle Rotor

A50c-8 **OT-S22R Only**

- Capacity : 8 x 50 mL Conical
- Max. RPM : 15,000
- Max. RCF : 27,796 xg



Adaptors

Tube type (mL)	Max. RCF (xg)	Adaptor Cat. No.
50	27,167	TR50(50c)
30	26,916	TR30(50c)
25 conical	23,897	TR25c(50c)
15 conical	26,589	TR15c(50c)

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Fixed Angle Rotor

A50-8 **OT-S22R Only**



Adaptors

Tube type (mL)	Max. RCF (xg)	Adaptor Cat. No.
30	41,679	TR30(50)
25 conical	35,239	TR25c(50)
15 conical	41,992	TR15c(50)
15	41,500	TR15(50)

Fixed Angle Rotor

A50-6 **OT-S22R Only**

- Capacity : 6 x 50 mL
- Max. RPM : 22,000
- Max. RCF : 52,001 xg



Adaptors

Tube type (mL)	Max. RCF (xg)	Adaptor Cat. No.
15 conical	49,241	TR15c(50)
15	48,646	TR15(50)

Fixed Angle Rotor

A15c-12 **OT-S22R Only**



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Fixed Angle Rotor

A15S-12 **OT-S22R Only**

- Capacity : 12 x 15 mL
- Max. RPM : 22,000
- Max. RCF : 52,001 xg



Fixed Angle Rotor

A10-12 **OT-S22R Only**

- Capacity : 12 x 10 mL
- Max. RPM : 22,000
- Max. RCF : 46,049 xg



Fixed Angle Rotor

A2.0-36 **OT-S22R Only**

- Capacity : 36 x 1.5 / 2.0 mL
- Max. RPM : 18,000
- Max. RCF : 41,910 xg



Adaptors

Tube type (mL)	Max. RCF (xg)	Adaptor Cat. No.
0.5	40,208	TR0.5
0.2	36,223	TR0.2

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