

NF 1200-1200R

MULTI-PURPOSE BENCH TOP CENTRIFUGES



NF 1200



The new generation NF 1200/NF 1200R multi-purpose bench top centrifuges are the right solution for both low speed and high speed centrifugation needs in medical, biology, research and quality control laboratories. Two swing-out rotors, four high speed angle rotors, different types of inserts and adaptors allow to centrifuge the tubes starting from 0.2 ml up to 280 ml. as well as the microtitre plates.

Besides their multi-purpose function, NF 1200/NF 1200R offer excellent performance, ease of use, safety, reliability and versatility.

As the ventilated model, NF 1200 ensures minimum increase of sample temperature by means of the continuous air flow system through the air channels in the lid.

Refrigerated model NF 1200R offers a wide range of temperature control between -9°C and $+40^{\circ}\text{C}$ for thermolabile samples and also provides constant sample temperature.

$+4^{\circ}\text{C}$ at full speed is maintained by the powerful refrigeration system of NF 1200R and the refrigerant fluid and insulation material are totally CFC-free.

NF 1200/NF 1200R have programmable microprocessor control system for accurate and reliable centrifugation tasks. Besides the speed and time, acceleration and braking rates can also be programmed depending on the sensitivity of the sample.

Temperature is another programmable parameter for NF 1200R.

There is no need to spend time for making a new program each time. Ten program memories are available for frequently made applications. The program in the memory can be easily recalled and operated.



NF 1200 R





Ergonomically designed control and display panel includes four different displays for program no, speed / RCF, time, acceleration / braking rates and temperature for NF 1200R. During centrifugation, the actual parameter values are indicated on the perfectly legible displays. Making a program is very easy since the user is led by the flashing displays.

Powerful, quiet and brushless induction motor does not require any maintenance throughout years of use.

When the safety is concerned, NF 1200/NF 1200R have many safety features both for the operator and the instrument:

- Stainless steel chamber
- Steel barrier ring around the chamber
- Electronic imbalance detection system
- Lid interlock
- Motor over temperature protection
- Rotor over speed protection
- Diagnostic system for possible failures

With a maximum capacity of 4x280 ml., RA 280 swing-out rotor can accommodate most manufacturers' tubes. MP 200 microtitre plate rotor can spin up to 6 microtitre plates.

For high speed centrifugation requirements, there are four angle rotors with the capacities of 6x100 ml., 10x10 ml., 30x1.5/2 ml. and 24x1.5/2 ml. Each angle rotor has different types of adaptors as well.



ACCESSORIES

SWING-OUT ROTORS AND ACCESSORIES

Cat. No.	Rotor	Description	Capacity	Max. Tube Dim. (mm)	Radius (mm)	Max. Speed (rpm)	Max. RCF _{xg}
B 50 016	RA 280	Swing-out Rotor	4x280 ml		164	4,100	3,082
G 51 007		Set of 4 buckets	380 ml nominal	76			
G 51 036		Set of 4 buckets with sealing lid	380 ml nominal	76			
G 51 008		Set of 4 inserts	1x280 ml	65			
G 51 009		Set of 4 inserts	1x250 ml flat	62			
G 51 010		Set of 4 inserts	1x200 ml flat	55			
G 51 011		Set of 4 inserts	1x100 ml	39			
G 51 012		Set of 4 inserts	2x50 ml conical	30			
G 51 013		Set of 4 inserts	4x25 ml	25			
G 51 014		Set of 4 inserts	5x15 ml conical	17			
G 51 015		Set of 4 inserts	12x15 ml	17			
G 51 016		Set of 4 inserts	12x5/7 ml	13.5			
G 51 017		Set of 4 inserts	19x5 ml RIA	13			
B 50 021	MP 200	Microtitre Plate Rotor	2x3 microtitre plates		125	4,100	2,349

ANGLE ROTOR AND ACCESSORIES

Cat. No.	Rotor	Description	Capacity	Max. Tube Dim. (mm)	Radius (mm)	Max. Speed (rpm)	Max. RCF _{xg}
B 50 023	RS 600	Angle Rotor	6x100 ml	38	99	9,000	8,965
G 51 018		Set of 6 adaptors	1x50 ml	30			
G 51 019		Set of 6 adaptors	1x50 ml conical	30.5			
G 51 020		Set of 6 adaptors	1x30/38 ml	26			
G 51 021		Set of 6 adaptors	1x15 ml conical	17			
B 50 022	RS 100	Angle Rotor	10x10 ml	16	88	12,000	14,167
G 51 022		Set of 10 adaptors	1x6 ml	13			
G 51 023		Set of 10 adaptors	1x1.5/2 ml	11			
B 50 014	RS 24	Angle Rotor	24x1.5/2 ml	11	84	14,000	18,405
B 50 029	RS 30	Angle Rotor	30x1.5/2 ml	11	84	13,500	20,170
A 14 005		Adaptor	1x500/800 µl	8			
A 14 006		Adaptor	1x200 µl PCR	6.5			
A 14 007		Adaptor	1x250/400/700 µl	6			

SPECIFICATIONS

	NF 1200	NF 1200R
Maximum Speed	Swing-out: 4,100 rpm Angle: 14,000 rpm	
Maximum RCF	Swing-out: 3,082xg Angle: 20,170	
Maximum Capacity	Swing-out: 4x280 ml Angle: 6x100 ml.	
Control System	Programmable Microprocessor Control System	
Speed Set Range	500 - 14,000 rpm	
Speed Set Step	10 rpm	
Speed Control Accuracy	±20 rpm	
Timer Set Range	1 - 99 minutes + hold position	
Timer Set Step	1 minute	
No of Program Memories	10	
Temperature Range	-	-9°C / +40°C
Temperature Set Step	-	1°C
Temperature Performance	Limited to ambient temp. +12°C at max. speed	+4°C at max. speed
Acceleration / Braking Rates	10/10	
Motor	Maintenance Free Brushless Induction Motor	
Power Supply	230 V, 50/60 Hz	
Maximum Power	500 W	800 W
Overall Dimensions (WxDxH) mm	455x545x400	770x540x400
Packing Dimensions (WxDxH) mm	520x600x610	870x650x570
Net / Packed Weight, kg	46/51	77/90



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