



NF1200/1200R

Multi-Purpose Bench
Top Centrifuges





NF 1200 and NF 1200R multi-purpose bench top centrifuges are designed to meet both low and high speed centrifugation needs in the medical, biology, research and quality control.

Besides their multi-purpose function, NF 1200/1200R offer an excellent price-quality ratio in terms of versatility, performance, ease of use, safety and reliability.



VERSATILITY

- NF 1200/1200R answers multiple needs in a single instrument with six different rotors
- The swing-out rotor with a maximum capacity of 4x280 ml can accommodate the tubes which are mostly used in the laboratories.
- Microtitre plate rotor with a capacity of 2x3 pcs. plates.
- Four angle rotors for high speed requirements: 6x100 ml, 10x10 ml, 30x1,5/2 ml and 24x1,5/2 ml



SAMPLE PROTECTION

- NF 1200 ventilated model incorporates CoolRun™ technology whereby effective air circulation through the air channel in the lid rapidly removes heat from the chamber, keeping temperature rise to an absolute minimum.
- Refrigerated model NF 1200R, programmable over a wide range of temperatures between -9°C and +40°C for heat sensitive samples, can sustain +4°C even at maximum speed to protect biologically active samples.

PRECISION

- Programmable microprocessor control system for accurate operations
- Programming option as speed or RCF
- Programmable acceleration and braking in 10 different rates to optimize run time and avoid resuspension



CONVENIENCE

- User friendly control system
- Bright LEDs on near-vertical displays can easily be seen from across the laboratory
- Display of all programmable parameters during operation
- Ten program memories for frequently made applications
- Audible and visual warning at the end of the program
- Quiet and brushless induction motor

SAFETY

- Buckets with transparent hermetically sealed caps to provide protection against pathogenic or hazardous samples in case of tube breakage
- Electronic imbalance detector shuts down the run if an unbalanced load is detected
- Easy to clean and contaminate stainless steel, corrosion-resistant chamber
- Steel barrier ring around the chamber for protection against breakage
- The lid interlock ensures that the lid cannot be opened if the centrifuge is running and a run cannot be started if the lid is not shut correctly. An 'Open' message informs the user.
- Rotor over speed protection to spin the rotor at its maximum allowed speed if wrong program is operated
- Motor overheating protection
- Diagnostic system for possible failures.



SWING-OUT ROTORS AND ACCESSORIES

Code	Rotor	Description	Capacity	Max. Tube Dia. (mm)	Radius (mm)	Max. Speed rpm	Max. RCF xg
B 50 016	RA 200	Swing-out rotor	4x280 ml		164	4.100	3.082
G 51 007		Set of 4 buckets	380 ml	76			
G 51 036		Set of 4 buckets with sealing cap	380 ml	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	13			
B 50 021	MP 200	Microtitre plate rotor	2x3 microtitre plate		125	4.100	2.349

ANGLE ROTOR AND ACCESSORIES

Code	Rotor	Description	Capacity	Max. Tube Dia. (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	1x6ml	13			
G 51 023		Set of 10 adaptors	1x1,5/2 ml	11			
B 50 014	RS 24	Angle rotor with lid	24x1,5/2 ml	11	84	14.000	18.405
B 50 029	RS 30	Angle rotor with lid	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			

TECHNICAL SPECIFICATIONS

	NF 1200	NF 1200R
Maximum Speed	Swing-out Rotor: 4.100 rpm Angle Rotor: 14.000 rpm	
Maximum RCF	Swing-out Rotor: 3.082xg Angle Rotor: 18.405xg	
Tube Capacity	Swing-out Rotor: 4x280 ml Angle Rotor: 6x100 ml	
Control System	Programmable Microprocessor Control	
Speed Set Range	500-14.000 rpm	
Speed Set Step	10 rpm	
Speed Control Accuracy	± 20 rpm	
Timer Set Range	1-99 minutes and hold position	
Timer Set Step	1 minute	
Acceleration/Braking Rates	10/10	
Temperature Range	-	-9°C / +40°C
Temperature Set Step	-	1°C
Motor	Induction Motor	
Body and lid	Epoxy-polyester powder coated steel	
Chamber	Stainless Steel	
Power Supply	230 V / 50-60 Hz (115 V / 60 Hz)	230 V / 50-60 Hz
Power Consumption	500 W	800 W
External Dimensions (WxDxH) mm.	455x545x400	770x545x405
Packing Dimensions (WxDxH) mm.	520X600X610	870X650X570
Net / Packed Weight kg.	46 / 51	77 / 90



NUVE SANAYİ MALZEMELERİ İMALAT VE TİCARET A.Ş.

Saracalar Mah. Saracalar Kümeevleri No: 4/2 Akyurt 06750 ANKARA / TURKEY t. +90 312 399 28 30 f. +90 312 399 21 97

nuve.com.tr sales@nuve.com.tr

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