NF 1200RN

ENVIRONMENTALLY FRIENDLY, MULTI-PURPOSE REFRIGERATED TABLE TOP CENTRIFUGE

N-prime

The NF 1200RN is an innovative table-top centrifuge that combines low and high speed applications in a single device, and can be used in a wide range of applications from hospitals to university laboratories, from biotechnology research to drug development and quality control processes.
Working with the new generation R290 natural refrigerant, the NF 1200RN is an excellent solution for sustainable laboratory applications with its environmentally friendly structure.

SUPERIOR COOLING FOR SAMPLES, A NATURAL SOLUTION FOR THE WORLD

Global warming is one of the most important global problems that threatens not only today but also future generations. HFC (hydrofluorocarbon) based gases in traditional cooling systems used in laboratories can cause serious damage to the environment due to their high Global Warming Potential (GWP).
With a sustainable laboratory approach, Nüve offers a solution that is both environmentally friendly and high-performance by using environmentally friendly R290 (propane) with a GWP value of only 3 in its NF 1200RN model centrifuge.

FLEXIBLE AND VERSATILE USE

- Wide range of tube compatibility from 0.2 ml to 280 ml with 6 different rotor options
- 4x280 ml capacity swing-out rotor offering different godet options for the most commonly used tubes
- 2x3 plate capacity swing-out microplate rotor
- 6x100 ml, 10x15 ml, 30x1.5/2 ml and 24x1.5/2 ml capacity angle-rotors for applications requiring high speed

POWERFUL AND SUSTAINABLE COOLING

- Offering maximum cooling performance with minimum amount of refrigerant, both energy saving and environmentally friendly use
- The safety of biological samples is ensured thanks to the powerful cooling system that can be programmed between -9°C and +40°C.
- R290 natural refrigerant
- Safe working environment provided by positioning the gas line and electronic components in separate sections
- CFC-free insulation material

PRECISE AND EASY WORK

- N-Prime™ control system with programmable microprocessor for accurate and reliable results
- Easy programming thanks to the turn-and-press button
- Ability to program with RPM or RCF value
- 10 programmable steps for acceleration and braking
- 10 program memories for frequent centrifugation operations
- Large and bright LED displays that are easy to follow
- Audio and visual warning system when the program ends
- Quiet, powerful and maintenance-free induction motor
- "PULSE" option for short-term work

SAFE CENTRIFUGE OPERATION

- Gode basket option with transparent leak-proof cover that provides protection against pathogens and harmful samples
- Electronic unbalance detector that stops operation in case of unbalanced loading
- Corrosion resistant and easy to clean stainless steel tank
- Safety ring made of steel material around the chamber providing additional safety
- Lid lock system that prevents the lid from being opened while the rotor is rotating and does not allow the device to operate when the lid is open.
- Rotor recognition feature that prevents the rotor from exceeding its maximum allowed speed when the wrong rotor is selected.
- Electromechanical cover lock system
- Air channel design that prevents the motor from heating up
- Motor overheating protection
- Error detection system against possible malfunctions
- Observation window for speed measurement

TECHNICAL SPECIFICATIONS	NF 1200RN
Maximum Speed	Swing out rotor: 4,100 rpm , Angle rotor: 14,000 rpm
Maximum RCF	Swing Out rotor: 3.082xg , Angle rotor: 20.170xg
Maximum Capacity	Swing out rotor: 4x280ml , Angle rotor: 6x100ml
Control System	N-Prime™ with programmable microprocessor
Speed Setting Range	500-14,000 rpm
Speed Adjustment Level	10 rpm
Speed Setting Accuracy	±20 rpm
Timer Setting Range	1-99 minutes / Hold
Number of Programs	10
Timer Setting Level	1 minute
Temperature Setting Range	-9°C / +40°C
Temperature Setting Level	1°C
Acceleration/Braking Stage	10 / 10
Engine	Maintenance-free, induction motor
Body and Cover Structure	Electrostatic powder coated steel sheet
Installed Power	788W
Working Voltage	230V - 50Hz
External Dimensions (WxDxH) mm	770x596x410
Package Dimensions (WxDxH) mm	870x700x570
Net/Packaged Weight, kg	77/92

OPENING ROTORS AND GODES

Code	Rotor	Explanation	Capacity	Maximum Tube Diameter (mm)	Radius (mm)	Maximum Speed (rpm)	Maksimum RCF xg
B 50 051	RA 280	Swing out rotor	4x280 ml		164	4.100	3.082
G 51 007		Basket set (4 pieces)	280 ml	76			
G 51 036		Covered Basket Set (4 pieces)	280 ml	76			
G 51 008		Gode set (4 pieces)	1x280 ml	65			
G 51 009		Gode set (4 pieces)	1x250 ml (d.t.)*	62			
G 51 010		Gode set (4 pieces)	1x200 ml (d.t.)*	55			
G 51 011		Gode set (4 pieces)	1x100 ml	39			
G 51 012		Gode set (4 pieces)	2x50 ml conical	30			
G 51 013		Gode set (4 pieces)	4x25 ml conical	25			
G 51 014		Gode set (4 pieces)	5x15 ml conical	17			
G 51 015		Gode set (4 pieces)	12x15 ml	17			
G 51 016		Gode set (4 pieces)	12x5/7 ml	13,5			
G 51 017		Gode set (4 pieces)	19x5ml IUD	13			
B 50 052	MP200	Pop-up rotor	2x3 microplate		125	4.100	2.349
*Flat bottom tubes							

ANGLED ROTORS AND ADAPTERS

Code	Rotor	Explanation	Capacity	Max. Tube Dia. (mm)	Radius (mm)	Max. Speed rpm	Max. RCF xg
B 50 053	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 50 055	RS 150	Angled rotor	10x15 ml	16	88	12.000	14.167
G 51 022		Adapter set (10 pieces)	1x6 ml	13			
G 51 023		Adapter set (10 pieces)	1x1.5/2 ml	11			
B 50 050	RS 24	Angled rotor	24x1.5/2 ml	11	84	14.000	18.405
B 50 054	RS 30	Angled rotor	30x1.5/2 ml	11	99	13.500	20.170
A 14 005		Adapter	1x500/800 µl	8			
A 14 006		Adapter	1x200 µl PCR	6,5			
A 14 007		Adaptor	1x250/400/700 µl	6			

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