

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, three 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.

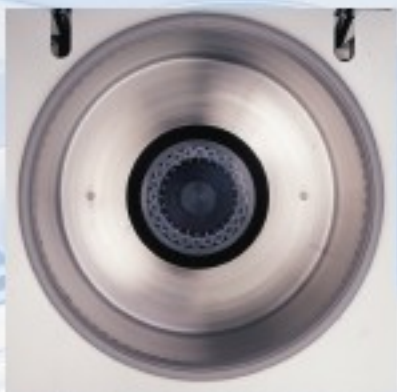
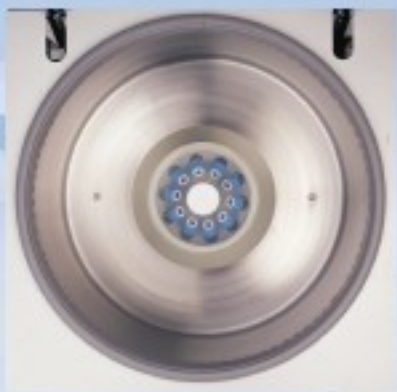
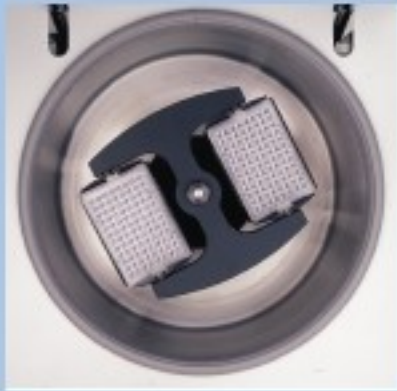
$+4^{\circ}\text{C}$ at full speed is maintained by the powerful refrigeration system of NF 1200R and the refrigerant fluid and insulation material are totally CFC-free.

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 through out 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 50 040 | RA 280 | Swing-out Rotor | 4x280ml | | 164 | 4.100 | 3.082 |
| G 51 007 | | Set of 4 inserts | 380 ml nominal | 76 | | | |
| G 51 008 | | Set of 4 inserts | 1x280ml | 65 | | | |
| G 51 009 | | Set of 4 inserts | 1x250ml flat | 62 | | | |
| G 51 010 | | Set of 4 inserts | 1x200ml flat | 55 | | | |
| G 51 011 | | Set of 4 inserts | 1x100ml | 39 | | | |
| G 51 012 | | Set of 4 inserts | 2x50ml conical | 30 | | | |
| G 51 013 | | Set of 4 inserts | 4x25ml | 25 | | | |
| G 51 014 | | Set of 4 inserts | 5x15ml conical | 17 | | | |
| G 51 015 | | Set of 4 inserts | 12x15ml | 17 | | | |
| G 51 016 | | Set of 4 inserts | 12x5/7ml | 13.5 | | | |
| G 51 017 | | Set of 4 inserts | 19x5ml RIA | 13 | 125 | 4.100 | 2.349 |
| B 50 021 | MP 200 | Microtitre Plate Rotor | 2x3 microtitre plates | | | | |

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 | 6x100ml | 38 | 99 | 9.000 | 8.965 |
| G 51 018 | | Set of 6 adaptors | 1x50ml | 30 | | | |
| G 51 019 | | Set of 6 adaptors | 1x50 ml conique | 30.5 | | | |
| G 51 020 | | Set of 6 adaptors | 1x30/38ml | 26 | | | |
| G 51 021 | | Set of 6 adaptors | 1x15 ml conique | 17 | | | |
| B 50 022 | RS 100 | Angle Rotor | 10x10ml | 16 | 88 | 12.000 | 14.167 |
| G 51 022 | | Set of 10 adaptors | 1x6ml | 13 | | | |
| G 51 023 | | Set of 10 adaptors | 1x1.5/2ml | 11 | | | |
| B 50 014 | RS 24 | Angle Rotor | 24x1.5/2ml | 11 | 84 | 14.000 | 18.405 |
| B 50 029 | RS 30 | Angle Rotor | 30x1.5/2ml | 11 | 84 | 13.500 | 20.170 |
| A 14 005 | | Adaptor | 1x500/800µl | 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 xg |
| 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 | 5/5 | |
| Motor | Maintenance Free Brushless Induction Motor | |
| Power Supply | 230V, 50/60 Hz | |
| Maximum Power | 500 W | 800 W |
| Overall Dimensions (WxDxH) mm | 455 x 545 x 400 | 770 x 540 x 400 |
| Packing Dimensions (WxDxH) mm | 590 x 520 x 500 | 870 x 650 x 550 |
| Net / Packed Weight kg | 42/47 | 75/ 80 |

We reserve the right to modify the design and description.



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