

Neofuge 23R

Hightspeed Refrigerated Table-top Centrifuge



Heal Force leads you to healthier life



Heal Force[®] high speed centrifuge Neofuge 23R provides excellent centrifugal effect and is easy to be used with high reliability and safety, it can be widely used in molecular biology and biochemical research, medical diagnosis etc.

Patented lid-lock system

Hands-free operation with automatic door latch. With the patented lid-lock system, the lid can be opened only when the rotor has come to a halt. The centrifuge can be started only if the lid is properly locked. The lid can not be opened when the rotor is running. If the 'Open' key is pressed accidentally when the rotor is running, the system would give out alarm signal to warn you that it is inappropriate time to open the lid.

High quality biosafe rotors

Eight rotors (Fixed-angle and Swing-bucket) are available for option.

- **Ultraduralumin**
- **Aerosol-tight**
- **Autoclavable (121 °C, 20 min)**

Automatic rotor recognition

Different rotors can be recognized automatically by the system. The system would set out alarm signal when the following cases happen: the set speed value exceeds the limit, running without a rotor, rotor recognition failure.

Electronic Imbalance Detection

Neofuge 23R is equipped with a electronic imbalance detection system, which responds if samples are loaded incorrectly or if a tube breaks. Centrifugation is automatically interrupted, protecting the centrifuge from damage.

Quick spin centrifugation

A "quick spin" key is used for short processing runs.

Programming

The system can save up to 9 programs. The programs can be saved conveniently for future use.

Simple operation

All set parameters can be modified during the centrifugal operation. They can also be locked in order to prevent them from being changed by others.

Independent control chip for safety

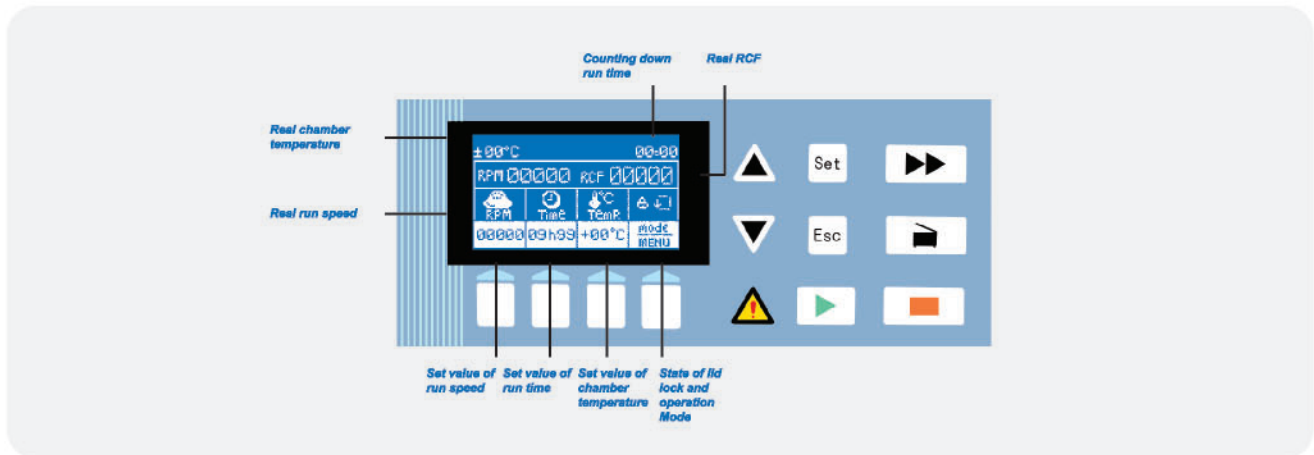
The safety control chip guarantees the safe running of the centrifuge. If any problem occurs, the corresponding protection measure will be taken automatically.

Alarm system

Neofuge 23R will set out alarm signal in case of over speed, over temperature, imbalance and lid opening while the rotor is running. If any case happens, the system would give out alarm signal and the error report would be displayed on the LCD screen. Error message would be saved, which is helpful for the repair.

Soft touch control panel and clear LCD display

All parameters are set by control panel. Centrifugal force ,speed, chamber temperature and acceleration/deceleration curves are displayed on the LCD screen. And the value can change during centrifugation.



strong drive

Neofuge 23R equipped with a "strong drive" , which is unique for a table top centrifuge.

- Balancing by eye
- Extremely quiet run conditions
- Outstandingly sturdy for everyday work

Emergency lid release

If accidental power failure or malfunctions occur,the lid could be opened by pulling the cord (see the right figures).



Change rotors with torque spanner

Neofuge 23R include a torque spanner which can help you change rotors easily and safely.



Solid structure

Housing and rotor chamber manufactured from stainless steel; inner armoring made of steel, front screen from impact-resistant plastic.





Fixed angle rotor

24×1.5ml F23.01/#2301

23,300rpm, 50,377×g, 45°

Centrifuge tube					Adaptor		
Capacity	Type	Diameter	Length	Packed/unit	specification	Order No.	Packed/unit
1.5ml	conical	Ø11mm	41mm	24	-	-	-
0.5ml	conical	Ø8mm	32mm	24	1×0.5ml	ADP23.01-001	24
0.2ml	conical	Ø6.5mm	22mm	24	1×0.2ml	ADP23.01-002	24



Fixed angle rotor

24×2ml F17.02/#2302

17,000rpm, 28,110×g, 45°

Centrifuge tube					Adaptor		
Capacity	Type	Diameter	Length	Packed/unit	specification	Order No.	Packed/unit
2ml	round	Ø11mm	47mm	24	-	-	-
0.5ml	conical	Ø8mm	32mm	24	1×0.5ml	ADP17.02-001	24
0.2ml	conical	Ø6.5mm	22mm	24	1×0.2ml	ADP17.02-002	24



Fixed angle rotor

16×16ml F17.16/#2303

17,000rpm, 31,664×g, 23°

Centrifuge tube					Adaptor		
Capacity	Type	Diameter	Length	Packed/unit	specification	Order No.	Packed/unit
16ml	round	Ø18mm	106mm	16	-	-	-
6.5ml	round	Ø13mm	100mm	16	1×6.5ml	ADP17.16-001	16
3.5ml	round	Ø11mm	71mm	16	1×3.5ml	ADP17.16-002	16
1.5ml	conical	Ø11mm	41mm	16	1×1.5ml_Micro	ADP17.16-003	16



Fixed angle rotor

6×94ml F15.94/#2304

15,000rpm, 25,046×g, 26°

Centrifuge tube					Adaptor		
Capacity	Type	Diameter	Length	Packed/unit	specification	Order No.	Packed/unit
94ml	round	Ø38mm	116mm	6	-	-	-
50ml	conical	Ø29.5mm	116mm	6	1×50ml	F08.50-04	6
50ml	round	Ø29mm	115mm	6	1×50ml	ADP15.94-001	6
38ml	round	Ø25.5mm	96mm	6	1×38ml	ADP15.94-002	6
16ml	round	Ø18mm	114mm	6	1×16ml	ADP15.94-003	6
12ml	round	Ø16mm	112mm	12	2×12ml	ADP15.94-004	6
6.5ml	round	Ø13mm	104mm	18	3×6.5ml	ADP15.94-005	6
3.5ml	round	Ø11mm	85mm	24	4×3.5ml	ADP15.94-006	6
1.5ml	conical	Ø11mm	41mm	24	4×1.5ml_Micro	ADP15.94-007	6
15ml	conical	Ø16mm	120mm	6	1×15ml	ADP15.94-008	6



Fixed angle rotor

8×50ml F15.50/#2305

15,000rpm, 26,916×g, 34°

Centrifuge tube					Adaptor		
Capacity	Type	Diameter	Length	Packed/unit	specification	Order No.	Packed/unit
50ml	round	Ø29mm	112mm	8	-	-	-
38ml	round	Ø25.5mm	92mm	8	1×38ml	ADP15.50-001	8
16ml	round	Ø18mm	108mm	8	1×16ml	ADP15.50-002	8
12ml	round	Ø16mm	106mm	8	1×12ml	ADP15.50-003	8
6.5ml	round	Ø13mm	104mm	8	1×6.5ml	ADP15.50-004	8
3.5ml	round	Ø11mm	82mm	24	3×3.5ml	ADP15.50-005	8
1.5ml	conical	Ø11mm	>41mm	24	3×1.5ml_Micro	ADP15.50-006	8



Fixed angle rotor

6×50ml F08.50/#2306

8,500rpm, 10,016×g, 45°

Centrifuge tube					Adaptor		
Capacity	Type	Diameter	Length	Packed/unit	specification	Order No.	Packed/unit
50ml	conical	Ø29.5mm	116mm	6	1×50ml	F08.50-04	6
50ml	round	Ø29mm	115mm	6	1×50ml	ADP15.94-001	6
38ml	round	Ø25.5mm	96mm	6	1×38ml	ADP15.94-002	6
16ml	round	Ø18mm	114mm	6	1×16ml	ADP15.94-003	6
12ml	round	Ø16mm	112mm	12	2×12ml	ADP15.94-004	6
6.5ml	round	Ø13mm	104mm	18	3×6.5ml	ADP15.94-005	6
3.5ml	round	Ø11mm	85mm	24	4×3.5ml	ADP15.94-006	6
1.5ml	conical	Ø11mm	41mm	24	4×1.5ml_Micro	ADP15.94-007	6
15ml	conical	Ø16mm	120mm	6	1×15ml	ADP15.94-008	6

Rotor #2306 incl. 6 F08.50-04 adaptors



Swing-bucket rotor

4×180ml S05.180/#2307

5,000rpm, 4,863×g

Centrifuge tube					Adaptor		
Capacity	Type	Diameter	Length	Packed/unit	specification	Order No.	Packed/unit
180ml	conical	Ø56mm	120mm	4	-	-	-
85ml	round	Ø38mm	90mm	4	1×85ml	ADP05.180-001	4
50ml	round	Ø29mm	115mm	4	1×50ml	ADP05.180-002	4
25ml	round	Ø24.5mm	112mm	8	2×25ml	ADP05.180-003	4
15ml	round	Ø16mm	115mm	28	7×15ml	ADP05.180-004	4
7ml	round	Ø12mm	117mm	36	9×7ml	ADP05.180-005	4
15ml	round	Ø16.5mm	118mm	12	3×15ml_Con	ADP05.180-006	4

Rotor #2307 incl. 4 aerosol-tight standard buckets



Swing-bucket rotor

2 Microplates S03.096/#2308

3,000rpm, 1,160×g

Centrifuge tube					Adaptor		
Capacity	Type	Diameter	Length	Packed/unit	specification	Order No.	Packed/unit
2×96ml	Microplate	-	-	2	-	-	-

Rotor #2308 incl. 2 microplate buckets

Main Features

- **Microprocessor control, all parameters are set by control panel**
- **Refrigerated table-top centrifuge, CFC-free (R404a)**
- **Max. speed 23,300rpm, max. RCF 50,377xg**
- **Multi-purpose, 8 rotors for option**
- **rotor can be kept in low temperature at max. speed**
- **9 acceleration/deceleration curves**
- **low-noise brushless motor, maintenance-free**



TECHNICAL DATA

Max. speed	23,300rpm
Min. speed	300rpm
Steplength	10rpm
Max. RCF	50,377 × g
Max. capacity	4 × 180ml
Braking/acceleration curves	9/9
Programs	9+1 pre-cooling program

Drive	Brushless induction motor
Noise at max. speed	≤66dB
Temperature range	-20°C to +40°C
Control	Microprocessor control
Run time	≤9h 59min, quick spin
Dimensions: (h × w × d)	400mm × 765mm × 590mm
Weight without rotor	150kg



Nison Instrument (Shanghai) Limited
Manufacturer:

Shanghai Lishen Scientific Equipment Co.,Ltd.

International Sales Office:Floor 15th,No.2 Hua Shan Road,Shanghai 200040,PR China

Tel:+86 21 62728646 Fax:+86 21 62728538,62728536

E-mail:export@hf.healoo.com

Website:www.shanghai-lishen.com ,www.nison-shanghai.com