

Heal Force Laboratory Equipment

# Neofuge 18R Laboratory Centrifuge

CE 0123



Heal Force leads you to healthier life

# Neofuge 18R Laboratory Centrifuge



Heal Force Neofuge 18R laboratory centrifuge, providing excellent centrifugal effect and easy to use with high reliability and safety, are widely used in the fields of molecular and biochemical research, and medical diagnosis.

## Features

- Refrigerated by CFC-free unit (R134a), temperature range -10~40°C
- Maximum speed at 18,000rpm & maximum RCF at 31,515×g
- Easy control for parameter setting & precise control by microprocessor
- Electronic imbalance detection
- Automatic rotor identification
- Low noise brushless drive motor, free of maintenance
- Precooling rotors function during standby
- 9 acceleration/deceleration curves available
- Multi-function by 8 optional rotors

### Lid-lock system

The lid-lock system is a patented design for safety. The lid is locked by electronic latch automatically, and also not able to be opened manually. The instruction of opening the lid is requested by the “open” key on the control panel, and takes effect only when the rotors inside stop running.

### Programming

Up to 15 working modes are able to be programmed and saved, for the convenience of future uses.

### Quick-spin

For short process working, a “quick spin” key is easy to operate without other setting.

### Electronic imbalance detection

Neofuge 18R is equipped with an electronic imbalance detection system, which responds in case samples are loaded incorrectly or the tube is broken, and pauses centrifugation automatically to protect the operator or machine from being hurt or damaged.

### Automatic rotor identification

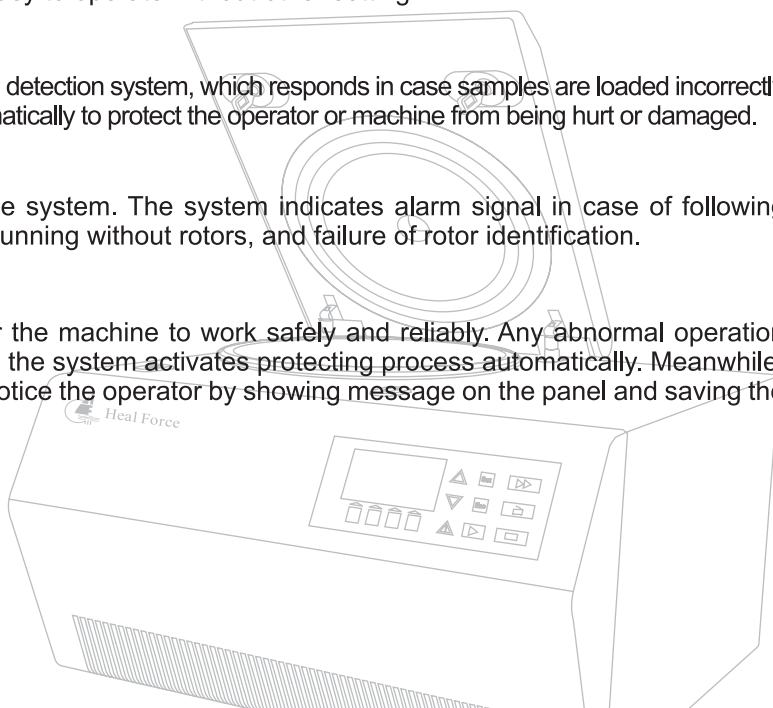
Different rotors are identified automatically by the system. The system indicates alarm signal in case of following conditions: setting speed exceeding limit, empty running without rotors, and failure of rotor identification.

### Alarm and troubleshooting

The control microprocessor is applied to monitor the machine to work safely and reliably. Any abnormal operation working status may be detected immediately, and the system activates protecting process automatically. Meanwhile, alarm and record functions are also activated to notice the operator by showing message on the panel and saving the error report.

### High quality rotors

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





#2302 fixed angle rotor

#2302 fixed angle rotor							
24×2ml, 17000rpm, 28110×g, 45°							
Centrifuge tube					Adaptor		
Capacity	Type	Diameter	Length	Tube qty/rotor	Tube qty/adaptor×volume	Order No.	Adaptor qty/rotor
2ml	round	Ø11mm	47mm	24pcs	-	-	-
0.5ml	conical	Ø8mm	32mm	24pcs	1pc×0.5ml	ADP17.02-001	24pcs
0.2ml	conical	Ø6.5mm	22mm	24pcs	1pc×0.2ml	ADP17.02-002	24pcs



#1801 fixed angle rotor

#1801 fixed angle rotor							
32×2ml, 15000rpm, 26664×g, 45°							
Centrifuge tube					Adaptor		
Capacity	Type	Diameter	Length	Tube qty/rotor	Tube qty/adaptor×volume	Order No.	Adaptor qty/rotor
1.5/2ml	round	Ø11mm	47mm	32pcs	-	-	-
0.5ml	conical	Ø8mm	32mm	32pcs	1pc×0.5ml	ADP17.02-001	32pcs
0.2ml	conical	Ø6.5mm	22mm	32pcs	1pc×0.2ml	ADP17.02-002	32pcs



#1802 fixed angle rotor

#1802 fixed angle rotor							
10×10ml, 18000rpm, 28254×g, 30°							
Centrifuge tube					Adaptor		
Capacity	Type	Diameter	Length	Tube qty/rotor	Tube qty/adaptor×volume	Order No.	Adaptor qty/rotor
10	round	Ø16mm	82mm	10pcs	-	-	-
5	round	Ø13.5mm	52mm	10pcs	1pc×5ml	ADP18.18.10.5	10pcs
1.5	conical	Ø11mm	41mm	10pcs	1pc×1.5ml	ADP18.18.10.1	10pcs



#2304 fixed angle rotor

#2304 fixed angle rotor							
6×94ml, 15000rpm, 25046×g, 26°							
Centrifuge tube					Adaptor		
Capacity	Type	Diameter	Length	Tube qty/rotor	Tube qty/adaptor×volume	Order No.	Adaptor qty/rotor
94ml	round	Ø38mm	116mm	6pcs	-	-	-
50ml	conical	Ø29.5mm	116mm	6pcs	1pc×50ml	F08.50-04	6pcs
50ml	round	Ø29mm	115mm	6pcs	1pc×50ml	ADP15.94-001	6pcs
38ml	round	Ø25.5mm	96mm	6pcs	1pc×38ml	ADP15.94-002	6pcs
16ml	round	Ø18mm	114mm	6pcs	1pc×16ml	ADP15.94-003	6pcs
15ml	conical	Ø16mm	120mm	6pcs	1pc×15ml	ADP15.94-008	6pcs
12ml	round	Ø16mm	112mm	12pcs	2pcs×12ml	ADP15.94-004	6pcs
10ml	round	Ø16mm	82mm	6pcs	1pcs×10ml	ADP15.94-011	6pcs
6.5ml	round	Ø13mm	104mm	18pcs	3pcs×6.5ml	ADP15.94-005	6pcs
5ml	round	Ø13.5mm	52mm	12pcs	2pcs×5ml	ADP15.94-010	6pcs
3.5ml	round	Ø11mm	85mm	24pcs	4pcs×3.5ml	ADP15.94-006	6pcs
1.5ml	conical	Ø11mm	41mm	24pcs	4pcs×1.5ml	ADP15.94-007	6pcs



#2305 fixed angle rotor

### #2305 fixed angle rotor

8×50ml, 15000rpm, 26916×g, 34°

Centrifuge tube					Adaptor		
Capacity	Type	Diameter	Length	Tube qty/rotor	Tube qty/adaptor×volume	Order No.	Adaptor qty/rotor
50ml	round	Ø29mm	112mm	8pcs	-	-	-
38ml	round	Ø25.5mm	92mm	8pcs	1pc×38ml	ADP15.50-001	8pcs
16ml	round	Ø18mm	108mm	8pcs	1pc×16ml	ADP15.50-002	8pcs
12ml	round	Ø16mm	106mm	8pcs	1pc×12ml	ADP15.50-003	8pcs
10ml	round	Ø16mm	106mm	8pcs	1pc×10ml	ADP15.50-008	8pcs
6.5ml	round	Ø13mm	104mm	8pcs	1pc×6.5ml	ADP15.50-004	8pcs
5ml	round	Ø13.5mm	52mm	8pcs	1pc×5ml	ADP15.50-007	8pcs
3.5ml	round	Ø11mm	82mm	24pcs	3pcs×3.5ml	ADP15.50-005	8pcs
1.5ml	conical	Ø11mm	41mm	24pcs	3pcs×1.5ml	ADP15.50-006	8pcs



#1803 fixed angle rotor

### #1803 fixed angle rotor

10×15ml, 14000rpm, 20379×g, 26°

Centrifuge tube					Adaptor		
Capacity	Type	Diameter	Length	Tube qty/rotor	Tube qty/adaptor×volume	Order No.	Adaptor qty/rotor
15ml	conical	Ø16mm	120mm	10pcs	-	-	-
5ml	round	Ø13.5mm	52mm	10pcs	1pc×5ml	ADP18.14.15.5	10pcs
1.5ml	conical	Ø11mm	41mm	10pcs	1pc×1.5ml	ADP18.14.15.1	10pcs



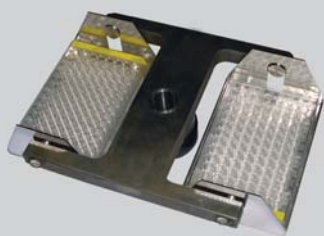
#1804 swing-out rotor

### #1804 swing-out rotor

Rotor #1804 incl. 4 aerosol-tight standard buckets

4×210ml, 5000rpm, 3969×g, 90°

Centrifuge tube					Adaptor		
Capacity	Type	Diameter	Length	Tube qty/rotor	Tube qty/adaptor×volume	Order No.	Adaptor qty/rotor
210ml	flat	Ø66mm	107mm	4pcs	-	-	-
100ml	flat	Ø45mm	100mm	4pcs	1pc×100ml	ADP18.05.250.100	4pcs
85ml	flat	Ø38mm	90mm	4pcs	1pc×85ml	ADP18.05.250.85	4pcs
10/7ml	round	Ø16.5mm	82/75mm	28pcs	7pcs×10/7ml	ADP18.05.250.10	4pcs
5ml	round	Ø13.5mm	52mm	36pcs	9pcs×5ml	ADP18.05.250.5	4pcs



#1805 microplate rotor with 2 racks

### #1805 microplate rotor with 2 racks

Rotor #1805 incl. 2 microplate buckets

2 microplate, 3000rpm, 1087×g, 90°

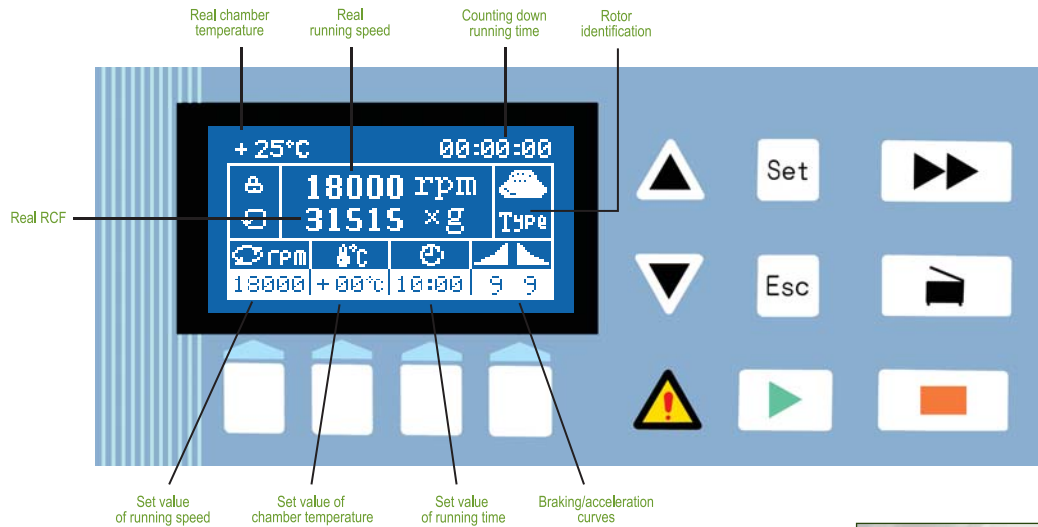
Centrifuge microplate			Adaptor		
Name	L×D×H(mm)	Tube qty/rotor	Tube qty/adaptor×volume	Order No.	Adaptor qty/rotor
96-hole microplate	128×85.6×15	6pcs	-	-	-
24-hole microplate	128×85.6×21	4pcs	-	-	-
96-hole deep microplate	128×85.6×45	2pcs	-	-	-



# Neofuge 18R Laboratory Centrifuge

## Simple & safe control

With all essential status parameters are directly displayed on the LCD screen, the operator is very convenient to preset parameters such as speed, RCF, running time and chamber temperature. Locking protection is applied in Neofuge 18R to prevent any possible mistake in operation.



## Strong drive

A “strong drive” equipped in Neofuge 18R brings the following benefits and conveniences

- Applicable for manual tube balancing
- Extremely low noise during running
- Sturdy and reliable for daily work

## Torque spanner

With help of the torque spanner, the rotors are easily released and tightened.

## Emergency lid release

Despite the lid is locked and not able to be opened manually during running, operators are able to release the lid by pulling the cord in emergency such as accidental power failure or malfunctions.



## Specifications

Neofuge 18R			
Max. speed/Min. speed	18,000rpm/300rpm	Drive	Brushless induction motor
Steplength	100rpm	Noise at max. speed	≤60dB
Max. RCF	31,515×g	Temperature range	-10°C ~+40°C
Max. capacity	4×210ml	Control	Microprocessor control
Braking/acceleration curves	9/9	Running time	≤9h 59min, quick spin
Programs	15(pre-cooling program)	Dimensions(H×W×D)	405mm×600mm×565mm
Power supply	220V/50Hz	Net weight without rotor	115kg

## Heal Force Laboratory Equipment



Laboratory Centrifuge



CO<sub>2</sub> Incubator



Biological Safety Cabinet



Water Purification System



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